State Energy

Price and

Expenditure

Report

1994

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State Energy Price and Expenditure Report 1994

The *State Energy Price and Expenditure Report 1994* presents energy price and expenditure estimates for the 50 States, the District of Columbia, and the United States for 1970 through 1994. The estimates are presented by energy source (e.g., petroleum, natural gas, coal, and electricity) and by major consuming sector. This publication is an enhanced update of the *State Energy Price and Expenditure Report 1993* (published December 1995).

Publication of this report is in keeping with responsibilities given 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....

The *State Energy Price and Expenditure Report* is a part of EIA's historical integrated energy data program and is intended to provide historical energy information to Members of Congress, Federal and State agencies, and the general public.

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State Energy Price and Expenditure Report

1994

June 1997

**Energy Information Administration
Office of Energy Markets and End Use
U.S. Department of Energy
Washington, DC 20585**

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Introduction

The *State Energy Price and Expenditure Report (SEPER)* presents energy price and expenditure estimates individually for the 50 States and the District of Columbia and in aggregate for the United States. The price and expenditure estimates developed in the State Energy Price and Expenditure Data System (SEPEDS) are provided by energy source and economic sector and are published for the years 1970 through 1994. Data for all years are available on personal computer diskettes, CD-ROM, and via Internet. (See inside front and back covers.)

Consumption estimates used to calculate expenditures and the documentation for those estimates are taken from the *State Energy Data Report 1994, Consumption Estimates (SEDR)*, published in October 1996. Expenditures are calculated by multiplying the price estimates by the consumption estimates, which are adjusted to remove process fuel; intermediate petroleum products; and other consumption that has no direct fuel costs, i.e., hydroelectric, geothermal, wind, solar, and photovoltaic energy sources. See Section 7, "Consumption Adjustments for Calculating Expenditures," on page 413.

All expenditures are consumer expenditures; that is, they represent estimates of money spent directly by consumers to purchase energy, generally including taxes. (See box on page 2.)

The documentation in Appendix A describes how the price estimates are developed, including sources of data, methods of estimation, and conversion factors applied. Appendix B provides metric and other physical conversion factors for measures used in energy analyses.

Note: Throughout this report, the term "State" includes the District of Columbia.

This report contains significant revisions since the last edition, the *State Energy Price and Expenditure Report 1993*, published in December 1995. The format of *SEPER* is completely redesigned to closely resemble *SEDR's* format. Rotating the tables and doubling their number for each State makes it possible to present prices and expenditures for all years. Additional prices and expenditures for biofuels used in the residential (including commercial) and the industrial sectors are added for 1990 through 1994. Distillate fuel prices for the commercial and industrial sectors are improved for 1983 through 1994 by replacing the No. 2 distillate fuel oil price series, which was used in previous versions of SEPEDS, with a series that is an average price of all forms of distillate fuel. Data changes from the last report are summarized and explained in detail in Appendix C.

Although all prices and expenditures in this report are expressed in nominal dollars, a supplement to the 1993 data report entitled "Additional Measures of Energy Consumption, Expenditures, and Prices," provides energy expenditure estimates in constant 1992 dollars and fixed-weight energy price indices in both nominal and real terms, along with an explanation of the methodology used to develop them. This supplement is available via Internet and in hard-copy from the National Energy Information Center. (See inside front cover.)

Reliable data for State-level prices rarely exist, especially as series that are consistent over a long period. Estimates and assumptions are applied to fill data gaps and to maintain consistent definitions in the data series over time. SEPEDS incorporates the most consistent series and procedures possible. Users of this report (and the electronic data files) should recognize the limitations imposed on the system due to changing and inadequate data sources. Estimates often are based on a variety of surrogate measures that are selected on the basis of availability.

applicability as indicators, continuity over time, and consistency among the various energy commodities. Original source documents for data used in SEPEDS (cited in the *SEPER* documentation) include descriptions of collection methodologies, universes, imputation or adjustment techniques (if

any), and errors associated with the individual processes. Due to the numerous collection forms and procedures associated with these reports, it is not possible to develop a meaningful numerical estimate of the overall errors of the material published in *SEPER*.

Taxes in *SEPER*

While the objective is to provide price estimates that include all taxes, the data sources used in *SEPER* do not treat taxes uniformly. In general, where taxes are included in the source data, they are also included in *SEPER*. Where taxes are not included but can be separately estimated, they are generally added. In many cases, States and even some localities provide tax exemptions for various kinds of activities or classes of end users, and readers of this report should be careful to consider these exceptions when making detailed comparisons. The Energy Information Administration (EIA) is continuing to analyze these cases to see if a better representation can be made. A comprehensive and detailed study of taxes in EIA data is available in the report *End-Use Taxes: Current EIA Practices*, DOE/EIA-0583 (Washington, DC, August 1994). The status of tax data in this edition of *SEPER* is summarized below and described more fully in the Appendix A documentation for each energy source and sector.

End-Use Sectors

Coal. All steam coal and coking coal prices include taxes in all years. Appropriately, coal imports and exports in the industrial sector do not include end-user taxes.

Natural Gas. Natural gas prices are intended to include all Federal, State, and local taxes, surcharges, and adjustments billed to consumers. However, sales and other taxes itemized directly on customers' bills are frequently not reported as revenues and, therefore, are not included in calculating the prices.

Petroleum. Motor gasoline and diesel fuel prices include excise and other per-gallon taxes but do not include general sales taxes due to wide

variation at the local level. Residual fuel oil, distillate fuel oil, and kerosene prices include sales taxes in all years. Residential liquefied petroleum gas prices include taxes in all years, but commercial, industrial, and transportation sector prices do not include taxes from 1985 forward. Jet fuel, aviation gasoline, asphalt and road oil, lubricants and other petroleum products do not include taxes. Other petroleum products are miscellaneous products, petrochemical feedstocks (naphtha, other oils, and still gas), industrial petroleum coke, special naphthas, and waxes.

Biofuels. Biofuels prices for the residential (including commercial) and the industrial sectors include taxes.

Electricity. Taxes paid directly by electric utilities (rather than end users) are considered operating costs and are passed on to the end users as part of the price. Depending on jurisdiction, taxes collected from end users and turned over directly to a government authority are not generally included in the reported revenues and, therefore, are not included in calculating the prices.

Electric Utility Sector

Coal, natural gas, petroleum coke, nuclear, and biomass fuels prices include all taxes, transportation, and handling costs. There are no direct fuel costs (or taxes) for hydroelectric, geothermal, centralized solar, or wind energy. Capital, operation, and maintenance costs and related taxes associated with these energy sources are included indirectly because electricity prices reflect their presence in the rate base.

It is also important to note that, even within a State, a single average price may have limited meaning in that it represents a consumption-weighted average over a whole State. For example, urban and rural electricity prices can vary significantly from a State's weighted average, and prices in one region of a State may differ from those in another because of access to less expensive hydroelectricity. Differences within a State may be greater than differences among adjacent States. Thus, the principal value of the estimates in this report lies in general comparisons among the States, interstate comparisons for a given year, and the analysis of trends over several years.

The five economic sectors used in *SEPER* correspond to those used in *SEDR* as follows:

- **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 the 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 meet the definition of an electric utility. Nonutility power producers are not included in the electric utility sector.

Although end-use allocations of energy consumption and expenditures follow those guidelines as closely as possible, some data are collected by using different classifications. For example, electric utilities often classify commercial and industrial users by the quantity of electricity purchases 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. Since agricultural use of natural gas cannot be identified separately, it remains in the commercial sector in this report. Another example is master-metered condominiums, apartments, and buildings with a combination of residential and commercial units. In many cases, billing and metering practices cause residential energy usage of electricity, natural gas, or fuel oil to be included in the commercial sector. In those cases, there is no basis for separating residential from commercial use. Readers are advised to consult the *SEDR* documentation for specific assumptions regarding the consumption estimates.

Where prices for an energy source and sector are not available, comparable prices are substituted. For example, the transportation sector motor gasoline prices are also applied to the commercial and industrial sectors. In some cases, the average of adjacent States' prices is assigned to a missing State price. The documentation elaborates on these price assumptions.

Except where specified, it is not generally possible to describe the prices in this report as "wholesale" or "retail." The prices paid in each consuming sector are actually a combination of both sets of prices, depending on a number of closely interrelated factors, and the data reflect the combination of prices actually paid by each sector. Almost all residential sector prices are close to retail prices, reflecting the relatively small quantities of individual purchases and the increased costs of

extensive, diffuse, and multilayered distribution systems. Similarly, in the transportation sector almost everyone pays the same retail-like price for motor gasoline, regardless of volume purchased or location of purchase. Conversely, residual fuel oil prices in the transportation sector are certainly more wholesale-like as a result of large deliveries to bulk facilities in major ports. In the same manner, most large industrial and many large commercial expenditures can be thought of as near wholesale, frequently involving direct access to a producer or bulk distribution facility for very large

quantities. Many smaller industrial and commercial facilities pay something much closer to retail prices as a result of the small quantities involved and their institutional distance from primary suppliers. Notable exceptions to these relationships include natural gas and electric utilities, which typically establish fixed rates for each of several classes of service, depending on representative quantities, service factors, and distribution expenses.

State Rankings

Table 1. Energy Prices and Expenditures Ranked by State, 1984

Ranked	Prices		Expenditures		Expenditures per Person	
	State	Dollars per Million Btu	State	Million Dollars	State	Dollars
1	District of Columbia	12.23	California	50,218	Wyoming	3,513
2	Connecticut	11.67	Texas	47,246	Louisiana	3,086
3	Arizona	11.63	New York	31,041	Alaska	2,928
4	New Hampshire	11.08	Pennsylvania	29,542	North Dakota	2,573
5	New York	11.03	Ohio	22,892	Texas	2,566
6	Vermont	10.73	Illinois	22,632	Maine	2,265
7	Hawaii	10.70	Florida	21,654	Montana	2,240
8	Massachusetts	10.52	Michigan	17,777	Indiana	2,229
9	Maryland	10.03	New Jersey	17,180	District of Columbia	2,188
10	Florida	10.01	Georgia	13,777	New Jersey	2,175
11	North Carolina	9.85	North Carolina	13,877	Delaware	2,132
12	Rhode Island	9.54	Louisiana	13,320	Nevada	2,120
13	California	9.46	Indiana	12,825	West Virginia	2,116
14	Nevada	9.41	Virginia	11,858	Kansas	2,113
15	New Mexico	9.21	Massachusetts	11,580	Alabama	2,112
16	Delaware	8.94	Tennessee	10,203	Kentucky	2,102
17	New Jersey	8.85	Missouri	9,856	Iowa	2,100
18	Virginia	8.79	Washington	9,185	Arkansas	2,068
19	Pennsylvania	8.63	Wisconsin	8,956	Ohio	2,062
20	Ohio	8.55	Alabama	8,912	Connecticut	2,022
21	Illinois	8.54	Maryland	8,692	Nebraska	2,019
22	Missouri	8.42	Minnesota	8,502	Vermont	1,995
23	Georgia	8.41	Kentucky	8,048	South Carolina	1,989
24	South Carolina	8.41	Arizona	7,545	Oklahoma	1,980
25	Oregon	8.31	South Carolina	7,245	Mississippi	1,978
26	Arkansas	8.18	Connecticut	6,820	South Dakota	1,975
27	Colorado	8.17	Oklahoma	6,450	Tennessee	1,971
28	South Dakota	8.15	Colorado	6,100	Georgia	1,952
29	Tennessee	8.13	Iowa	5,944	Pennsylvania	1,952
30	Maine	8.12	Oregon	5,628	North Carolina	1,935
31	Nebraska	7.96	Kansas	5,381	Illinois	1,925
32	Mississippi	7.96	Mississippi	5,282	New Hampshire	1,920
33	Montana	7.93	Arkansas	5,147	Idaho	1,918
34	Minnesota	7.91	West Virginia	3,858	Massachusetts	1,917
35	Wisconsin	7.91	Nebraska	3,279	Rhode Island	1,905
36	Michigan	7.79	New Mexico	3,113	New Mexico	1,881
37	Idaho	7.77	Nevada	3,099	Michigan	1,873
38	Iowa	7.64	Utah	2,959	Missouri	1,867
39	Kentucky	7.40	Maine	2,807	Minnesota	1,861
40	Alabama	7.37	New Hampshire	2,180	Arizona	1,850
41	Washington	7.33	Idaho	2,176	Virginia	1,810
42	Kansas	7.30	Hawaii	2,065	Oregon	1,791
43	Oklahoma	7.18	Montana	1,918	Wisconsin	1,762
44	Indiana	7.01	Rhode Island	1,894	Hawaii	1,752
45	West Virginia	6.94	Alaska	1,765	Maryland	1,738
46	Utah	6.92	Wyoming	1,672	Washington	1,721
47	Texas	6.55	North Dakota	1,645	New York	1,710
48	Alaska	6.46	Delaware	1,510	Colorado	1,666
49	North Dakota	6.23	South Dakota	1,429	California	1,589
50	Wyoming	5.97	District of Columbia	1,241	Florida	1,551
51	Louisiana	5.38	Vermont	1,158	Utah	1,551
	United States	6.31	United States	594,686	United States	1,936

Note: Rankings are based on unrounded data.

Source: State Energy Price and Expenditure Data System 1984.

Table 2. Motor Gasoline Prices and Expenditures Ranked by State, 1994

Ranked	Prices		Expenditure		Expenditures per Person	
	State	Dollars per Million Btu	State	Million Dollars	State	Dollars
1	Hawaii	11.27	California	14,658	Wyoming	734
2	Alaska	10.46	Texas	10,278	Montana	681
3	Connecticut	10.33	Florida	6,637	New Mexico	637
4	Oregon	10.03	New York	6,147	South Dakota	633
5	Montana	9.99	Ohio	5,402	North Dakota	629
6	Rhode Island	9.86	Pennsylvania	5,304	Alaska	597
8	West Virginia	9.77	Michigan	4,607	Nevada	589
9	Washington	9.66	North Carolina	3,802	Delaware	585
10	New Mexico	9.64	New Jersey	3,779	Maine	579
11	Idaho	9.63	Georgia	3,706	Oregon	578
12	District of Columbia	9.57	Virginia	3,490	Idaho	577
13	Massachusetts	9.55	Tennessee	2,917	Minnesota	569
14	Arizona	9.54	Washington	2,916	Arkansas	567
15	Maryland	9.52	Missouri	2,894	Alabama	567
16	Nevada	9.51	Massachusetts	2,853	Tennessee	564
17	Delaware	9.50	Indiana	2,841	West Virginia	562
18	Minnesota	9.42	Minnesota	2,800	Mississippi	561
19	Maine	9.41	Maryland	2,636	Texas	558
20	New Hampshire	9.29	Wisconsin	2,526	Colorado	556
21	Pennsylvania	9.21	Alabama	2,393	Arizona	555
22	Nebraska	9.17	Arizona	2,285	Kentucky	553
23	Vermont	9.17	Louisiana	2,168	New Hampshire	551
24	North Dakota	9.12	Kentucky	2,116	Missouri	548
25	New York	9.12	Colorado	2,035	Iowa	548
26	Ohio	9.08	South Carolina	1,909	Oklahoma	547
27	California	9.07	Oregon	1,784	Washington	546
28	Wisconsin	9.06	Oklahoma	1,781	Connecticut	542
29	Louisiana	9.04	Connecticut	1,773	North Carolina	538
30	Illinois	8.95	Iowa	1,550	Nebraska	535
31	Texas	8.94	Mississippi	1,498	Virginia	533
32	Utah	8.93	Arkansas	1,392	Georgia	525
33	South Dakota	8.85	Kansas	1,267	South Carolina	524
34	Virginia	8.85	New Mexico	1,054	Maryland	507
35	Tennessee	8.83	West Virginia	1,025	Louisiana	502
36	New Jersey	8.82	Utah	912	Wisconsin	497
37	Kentucky	8.72	Nebraska	870	Kansas	497
38	Iowa	8.71	Nevada	861	Indiana	494
39	Mississippi	8.68	Maine	718	Ohio	486
40	North Carolina	8.67	Idaho	654	Michigan	485
41	Wyoming	8.65	New Hampshire	625	New Jersey	478
42	Arkansas	8.58	Montana	583	Utah	478
43	Alabama	8.56	Hawaii	554	Florida	470
44	Florida	8.29	South Dakota	458	Massachusetts	472
45	Kansas	8.29	Rhode Island	447	Hawaii	470
46	Michigan	8.29	Delaware	414	California	467
47	Indiana	8.21	North Dakota	402	Rhode Island	450
48	Oklahoma	8.16	Alaska	360	Illinois	445
49	Missouri	8.16	Wyoming	349	Pennsylvania	440
50	South Carolina	8.03	Vermont	345	District of Columbia	364
51	Georgia	7.55	District of Columbia	208	New York	339
	United States	8.91	United States	129,990	United States	499

Note: Rankings are based on unrounded data.
Source: State Energy Price and Expenditure Data System 1994.

Table 3. Petroleum and Natural Gas Prices and Expenditures Ranked by State, 1994

Ranked	Petroleum				Natural Gas			
	Prices		Expenditures		Prices		Expenditures	
	State	Dollars per Million Btu	State	Million Dollars	State	Dollars per Million Btu	State	Million Dollars
1	Arizona	8.50	Texas	25,473	Hawaii	* 12.08	California	8,708
2	Vermont	8.22	California	22,118	District of Columbia	7.19	Texas	7,800
3	Colorado	8.12	New York	10,817	Connecticut	7.09	New York	6,368
4	Idaho	8.10	Florida	10,404	Massachusetts	6.48	Illinois	4,968
5	Wisconsin	8.01	Pennsylvania	9,508	New Hampshire	6.37	Ohio	4,248
6	Ohio	7.92	Ohio	8,871	Maine	6.27	Michigan	3,918
7	Connecticut	7.85	Illinois	8,570	New York	6.10	Pennsylvania	3,833
8	Oregon	7.85	New Jersey	7,575	Rhode Island	5.93	New Jersey	3,095
9	Montana	7.83	Michigan	7,234	Pennsylvania	5.73	Louisiana	2,800
10	Arkansas	7.80	Louisiana	6,950	Vermont	5.40	Indiana	2,587
11	District of Columbia	7.78	Georgia	5,994	Maryland	5.35	Massachusetts	2,223
12	New Mexico	7.77	North Carolina	5,987	Georgia	5.22	Georgia	1,758
13	Nebraska	7.75	Virginia	5,558	New Jersey	5.19	Wisconsin	1,634
14	Illinois	7.73	Indiana	5,487	Indiana	5.13	Oklahoma	1,267
15	West Virginia	7.72	Massachusetts	5,040	Ohio	5.08	Missouri	1,294
16	Rhode Island	7.71	Washington	4,836	Illinois	4.88	Minnesota	1,270
17	Minnesota	7.66	Missouri	4,775	Montana	4.87	Florida	1,198
18	Nevada	7.64	Tennessee	4,894	Virginia	4.86	Kansas	1,133
19	Michigan	7.64	Minnesota	4,305	Missouri	4.86	Virginia	1,107
20	Iowa	7.63	Wisconsin	4,191	North Carolina	4.85	Iowa	1,081
21	North Carolina	7.56	Kentucky	4,010	Wisconsin	4.76	Tennessee	1,070
22	Maryland	7.54	Alabama	3,978	Arizona	4.69	Alabama	1,052
23	Pennsylvania	7.53	Maryland	3,951	Tennessee	4.66	Maryland	999
24	Tennessee	7.48	Arizona	3,280	West Virginia	4.80	Colorado	943
25	Utah	7.44	Oklahoma	3,074	South Dakota	4.57	North Carolina	915
26	South Dakota	7.38	Colorado	3,051	Iowa	4.51	Connecticut	854
27	Virginia	7.35	Connecticut	2,983	Nevada	4.47	Washington	822
28	Wyoming	7.31	South Carolina	2,981	Michigan	4.37	Kentucky	814
29	California	7.27	Oregon	2,843	Alabama	4.33	Arkansas	791
30	Alabama	7.27	Iowa	2,831	North Dakota	4.29	Mississippi	650
31	North Dakota	7.23	Mississippi	2,517	Kentucky	4.29	South Carolina	618
32	New York	7.18	Kansas	2,353	California	4.27	Oregon	603
33	Kentucky	7.17	Arkansas	2,351	Idaho	4.26	Arizona	523
34	Kansas	7.14	West Virginia	1,696	South Carolina	4.22	West Virginia	513
35	Massachusetts	7.09	New Mexico	1,689	Nebraska	4.19	Nebraska	509
36	New Hampshire	7.08	Nebraska	1,870	Minnesota	4.16	Nevada	459
37	South Carolina	7.06	Maine	1,581	Oregon	4.12	Utah	458
38	Missouri	7.04	Utah	1,498	Colorado	3.99	Rhode Island	432
39	Oklahoma	7.00	Nevada	1,445	Washington	3.97	New Mexico	380
40	Mississippi	6.82	Hawaii	1,275	Delaware	3.95	Wyoming	298
41	Indiana	6.76	Alaska	1,140	New Mexico	3.98	Idaho	230
42	Washington	6.74	Idaho	1,114	Arkansas	3.88	Montana	226
43	Georgia	6.63	Montana	1,085	Wyoming	3.86	District of Columbia	222
44	Delaware	6.59	New Hampshire	1,057	Utah	3.84	Delaware	196
45	New Jersey	6.49	Wyoming	841	Kansas	3.43	Alaska	193
46	Alaska	6.39	South Dakota	841	Florida	3.31	South Dakota	129
47	Maine	6.35	North Dakota	824	Oklahoma	3.01	New Hampshire	121
48	Florida	6.18	Rhode Island	784	Mississippi	2.94	North Dakota	120
49	Texas	6.03	Delaware	781	Texas	2.51	Vermont	39
50	Hawaii	5.80	Vermont	649	Louisiana	2.32	Hawaii	37
51	Louisiana	5.45	District of Columbia	293	Alaska	1.80	Maine	32
	United States	7.62	United States	229,049	United States	4.15	United States	77,753

* Based on small quantities of liquefied natural gas.

Note: Rankings are based on unrounded data.

Source: State Energy Price and Expenditure Data System 1994.

Table 4. Coal and Electricity Prices and Expenditures Ranked by State, 1994

Ranked	Coal				Electricity			
	Prices		Expenditures		Prices		Expenditures	
	State	Dollars per Million Btu	State	Million Dollars	State	Dollars per Million Btu	State	Million Dollars
1	Rhode Island	3.34	Pennsylvania	2,038	New Hampshire	33.15	California	20,662
2	Vermont	3.06	Ohio	1,999	New York	32.00	Texas	16,149
3	Alaska	2.65	Texas	1,859	Hawaii	31.41	New York	14,320
4	Maine	2.25	Indiana	1,749	Rhode Island	30.66	Florida	11,103
5	Hawaii	2.00	Illinois	1,301	Alaska	30.03	Pennsylvania	9,617
6	District of Columbia	1.96	Alabama	1,292	Connecticut	29.83	Ohio	9,478
7	California	1.90	Michigan	1,217	New Jersey	29.51	Illinois	8,953
8	Idaho	1.87	West Virginia	1,213	Massachusetts	29.32	New Jersey	6,636
9	New Jersey	1.81	Georgia	1,176	California	28.79	North Carolina	6,611
10	Connecticut	1.81	Florida	1,144	Maine	28.26	Michigan	6,423
11	Florida	1.78	Kentucky	1,091	Vermont	26.73	Georgia	5,672
12	Georgia	1.70	North Carolina	960	Arizona	23.23	Virginia	5,075
13	Massachusetts	1.70	Tennessee	799	Pennsylvania	23.13	Massachusetts	4,611
14	North Carolina	1.69	Missouri	606	Illinois	21.79	Indiana	4,356
15	Alabama	1.68	Arizona	563	New Mexico	21.06	Tennessee	4,265
16	Arkansas	1.61	Wisconsin	540	Michigan	20.84	Louisiana	4,103
17	Delaware	1.60	South Carolina	528	District of Columbia	20.81	Maryland	3,846
18	South Carolina	1.60	Virginia	497	Maryland	20.59	Missouri	3,749
19	Illinois	1.59	North Dakota	474	Florida	20.40	Arizona	3,748
20	Mississippi	1.58	New York	455	Delaware	19.96	Alabama	3,660
21	Louisiana	1.55	Utah	450	North Carolina	19.42	South Carolina	3,510
22	Maryland	1.53	Maryland	413	Kansas	19.42	Washington	3,446
23	Michigan	1.53	Minnesota	406	Georgia	19.30	Kentucky	3,059
24	New Hampshire	1.53	Wyoming	405	Texas	19.07	Wisconsin	3,001
25	New York	1.53	New Mexico	392	Arkansas	18.86	Connecticut	2,852
26	Virginia	1.52	Colorado	374	Nevada	18.74	Minnesota	2,852
27	Pennsylvania	1.50	Iowa	366	Missouri	18.41	Oklahoma	2,391
28	Washington	1.46	Louisiana	357	Ohio	18.21	Mississippi	2,139
29	Ohio	1.45	Arkansas	357	Virginia	18.19	Colorado	2,076
30	Nevada	1.44	Oklahoma	321	South Dakota	18.14	Oregon	2,070
31	New Mexico	1.41	Kansas	309	Louisiana	18.00	Arkansas	2,003
32	Arizona	1.40	Nevada	269	Mississippi	17.95	Iowa	1,957
33	West Virginia	1.39	Massachusetts	171	Colorado	17.86	Kansas	1,947
34	Indiana	1.35	Washington	156	Iowa	17.36	West Virginia	1,289
35	Texas	1.34	Mississippi	153	Oklahoma	17.16	Nevada	1,253
36	Tennessee	1.28	Montana	140	North Dakota	17.00	Maine	1,119
37	Wisconsin	1.27	Nebraska	129	South Carolina	16.63	New Mexico	1,100
38	Minnesota	1.22	California	110	Minnesota	16.55	Nebraska	1,090
39	Kentucky	1.22	New Jersey	95	Alabama	16.29	New Hampshire	1,013
40	South Dakota	1.21	Delaware	92	Nebraska	16.07	Utah	945
41	Utah	1.19	Oregon	51	Wisconsin	16.04	Hawaii	936
42	North Dakota	1.18	New Hampshire	51	Utah	15.78	Idaho	796
43	Oregon	1.15	South Dakota	47	Indiana	15.42	District of Columbia	731
44	Missouri	1.12	Connecticut	41	West Virginia	15.42	Rhode Island	674
45	Colorado	1.07	Alaska	33	Tennessee	15.35	Delaware	627
46	Iowa	1.06	Maine	26	Oregon	13.49	Montana	585
47	Oklahoma	1.05	Idaho	18	Montana	13.28	Wyoming	487
48	Kansas	1.03	Hawaii	4	Wyoming	12.57	Vermont	462
49	Wyoming	0.83	District of Columbia	2	Kentucky	12.54	Alaska	462
50	Nebraska	0.80	Vermont	(s)	Washington	11.85	South Dakota	444
51	Montana	0.74	Rhode Island	(s)	Idaho	11.74	North Dakota	443
	United States	1.40	United States	27,251	United States	29.34	United States	200,894

(s)=Value less than 0.5 million dollars.

Note: Rankings are based on unrounded data.

Source: State Energy Price and Expenditure Data System 1994.

Statistical Tables

Table 5. Energy Price and Expenditure Estimates by Source, 1970-1994, United States

Year	Primary Energy																Electricity Fuel	Electricity Purchased by End-Users	Total Energy ^a
	Coal			Coal Coke		Natural Gas	Petroleum							Nuclear Fuel	Hydro	Total ^c			
	Colong Coal	Steam Coal	Total	Exports	Imports		Distillate Fuel	Jet Fuel	LPG ^b	Motor Gasoline	Residual Fuel	Other ^d	Total						
Prices in Nominal Dollars per Million Btu																			
1970	0.46	0.38	0.37	1.27	0.93	0.58	1.16	0.73	1.40	2.85	0.42	R1.32	1.71	0.18	0.65	1.08	0.32	4.96	1.88
1971	0.62	0.40	0.42	1.20	1.17	0.63	1.22	0.77	1.49	2.90	0.58	R1.38	1.76	0.18	0.69	1.14	0.38	5.30	1.75
1972	0.69	0.41	0.45	1.01	1.01	0.68	1.22	0.79	1.52	2.99	0.62	R1.42	1.77	0.18	0.72	1.17	0.41	5.54	1.84
1973	0.68	0.43	0.48	0.96	1.47	0.73	1.46	0.92	2.02	3.10	0.75	R1.49	1.96	0.18	0.77	1.29	0.46	5.86	2.02
1974	1.30	0.77	0.86	1.37	2.20	0.89	2.44	1.58	2.81	4.32	1.82	R2.44	3.04	0.20	0.84	1.94	0.86	7.42	2.87
1975	1.65	0.80	1.03	2.37	3.47	1.18	2.88	2.85	2.87	4.88	1.88	R2.79	3.33	0.24	0.83	2.19	0.88	8.61	3.35
1976	1.65	0.81	1.04	2.05	3.41	1.46	2.77	3.25	3.21	4.84	1.80	R2.85	3.45	0.25	0.98	2.34	1.02	9.13	3.57
1977	1.72	1.00	1.11	2.32	3.09	1.76	3.11	2.59	3.85	5.13	2.14	R3.15	3.71	0.27	1.04	2.68	1.16	10.11	3.99
1978	1.94	1.17	1.28	2.87	2.90	1.85	3.29	2.87	3.60	5.24	2.08	R3.32	3.82	0.30	1.12	2.72	1.25	10.62	4.24
1979	1.89	1.27	1.36	2.66	3.45	2.31	4.09	3.80	4.50	7.11	2.83	R4.47	5.20	0.34	1.58	3.47	1.48	11.78	6.22
1980	2.18	1.38	1.47	2.64	3.19	2.86	4.79	4.39	5.84	9.84	3.89	R5.84	7.36	0.43	1.74	4.68	1.78	13.88	8.91
1981	2.34	1.67	1.65	2.55	3.29	3.43	8.03	7.57	8.18	10.94	4.81	R6.97	8.69	0.48	1.24	5.27	2.00	16.14	9.09
1982	2.43	1.68	1.73	2.49	3.10	4.23	7.78	7.23	6.86	10.39	4.86	R7.67	8.40	0.54	1.26	5.34	2.01	16.18	8.93
1983	2.14	1.68	1.71	2.76	2.26	4.72	7.32	R6.53	7.17	9.12	4.50	R7.64	R7.78	0.68	1.12	5.13	1.99	16.42	8.47
1984	2.09	1.68	1.71	2.69	3.27	4.75	R7.39	R6.25	6.93	8.90	4.76	R7.75	R7.69	0.67	1.26	5.06	1.97	16.59	8.36
1985	2.98	1.67	1.70	2.76	2.99	4.81	R7.18	5.81	6.33	9.01	4.30	R7.68	R7.61	0.71	0.79	4.92	1.86	16.86	R6.43
1986	1.90	1.90	1.82	2.83	3.11	4.67	R6.68	3.92	6.21	6.79	R2.37	R5.62	6.72	0.70	0.32	3.99	1.55	19.08	7.36
1987	1.74	1.53	1.54	3.37	2.40	3.77	R5.94	4.03	5.85	7.22	2.86	R5.54	R6.01	0.71	0.95	R3.98	1.51	16.74	R7.36
1988	1.79	1.48	1.50	2.85	2.90	3.78	R5.80	3.80	5.45	7.22	2.35	R5.27	R6.09	0.73	0.97	3.89	1.45	18.69	R7.31
1989	1.79	1.47	1.49	2.98	3.79	3.95	R6.48	4.38	6.36	8.01	2.72	R5.65	8.42	0.70	0.67	4.12	1.46	18.93	7.80
1990	1.79	1.48	1.49	3.53	3.88	3.95	R7.79	6.88	8.51	9.32	3.14	R5.87	R7.46	0.87	1.94	R4.46	1.46	18.25	R6.28
1991	1.63	1.47	1.49	2.74	3.40	3.78	R7.28	4.83	6.64	9.93	2.62	R6.78	7.18	0.63	2.00	R4.32	1.37	19.05	R6.24
1992	1.63	1.44	1.46	2.78	3.32	3.89	R7.11	4.52	6.95	9.96	2.27	R6.67	R7.07	0.59	2.01	R4.29	1.34	20.06	R6.17
1993	1.79	1.41	1.43	2.88	3.04	4.16	R7.10	4.70	R6.97	R8.82	2.26	R6.64	R7.00	0.68	1.91	R4.31	1.35	20.38	R6.27
1994	1.73	1.38	1.40	2.46	2.31	4.16	7.03	3.95	6.22	8.91	2.32	5.62	7.02	0.64	1.89	4.32	1.30	20.34	6.31

Expenditures in Million Nominal Dollars																			
1970	1,175	3,419	4,594	-78	4	10,891	6,253	1,441	2,446	31,582	2,946	R4,386	48,886	44	2	63,844	-4,518	23,951	82,579
1971	1,183	3,720	4,903	45	5	12,085	6,690	1,582	2,531	33,478	2,933	R4,815	52,830	73	2	69,013	-4,441	26,208	86,781
1972	1,379	4,033	5,412	-31	5	13,189	7,332	1,682	2,889	35,346	3,458	R4,941	55,886	104	2	74,556	-6,473	29,718	97,804
1973	1,724	4,527	6,251	-33	40	13,933	9,524	2,001	3,933	39,667	4,667	R5,513	66,304	177	3	85,875	-7,617	33,780	111,638
1974	3,284	7,882	11,166	-44	189	16,390	15,217	3,208	5,273	54,194	10,547	R6,504	86,843	250	2	124,880	-14,301	42,589	153,078
1975	3,892	8,358	13,047	-75	196	28,081	16,480	4,183	5,291	68,446	16,874	R8,336	108,868	448	2	137,499	-18,388	50,888	177,782
1976	3,740	10,339	14,079	-67	111	25,097	18,402	4,867	5,943	84,977	11,646	R10,421	135,009	520	3	155,751	-18,973	58,971	193,799
1977	3,579	11,869	15,448	-71	139	29,602	22,804	5,617	6,824	70,581	14,381	R12,377	134,684	743	5	177,680	-23,382	66,225	220,393
1978	3,703	13,892	17,595	-49	411	33,186	23,587	6,295	6,621	74,513	13,747	R13,881	139,654	915	4	180,846	-35,746	74,184	238,033
1979	3,920	16,501	20,421	-81	340	40,795	32,864	8,603	9,383	98,916	17,656	R16,363	163,788	941	6	246,180	-31,031	82,850	297,192
1980	3,753	18,898	22,651	-120	62	61,881	40,787	13,821	16,828	124,488	21,873	R26,781	228,488	1,180	8	318,237	-37,435	98,888	373,888
1981	3,831	22,369	26,201	-74	43	60,544	48,200	15,807	11,900	138,138	22,688	R26,571	285,884	1,436	5	383,285	-43,275	116,463	426,446
1982	2,661	23,765	26,426	-61	9	68,292	44,087	14,974	12,926	130,305	17,622	R22,447	242,372	1,684	4	328,728	-41,311	127,394	424,809
1983	2,126	24,823	27,061	-46	2	72,000	R41,848	R13,979	14,083	118,816	14,089	R21,691	R221,514	1,569	4	R322,284	-41,306	134,748	R415,794
1984	2,461	28,588	31,049	-69	47	77,168	R44,580	R15,087	14,143	114,438	14,410	R22,882	R225,590	2,284	12	R334,151	-43,878	142,438	R430,211
1985	2,228	27,481	29,719	-77	43	72,898	R45,758	14,747	13,186	108,044	13,463	R22,889	R229,390	2,599	11	R328,844	-42,998	149,942	R405,587
1986	1,825	28,090	29,915	-85	25	68,702	R34,896	12,505	12,283	97,526	R7,488	R17,720	R174,516	3,125	4	R266,219	-36,793	151,896	R381,224
1987	1,718	25,987	27,705	-48	55	58,018	R37,567	11,448	12,412	98,809	R8,082	R17,419	R186,737	3,486	15	R275,948	-38,882	164,882	R393,849
1988	2,006	26,364	28,370	-77	194	61,088	R38,583	11,318	12,301	103,211	R7,258	R16,816	R189,498	4,111	15	R283,198	-37,426	162,070	R407,833
1989	1,934	28,172	30,106	-80	217	65,383	R43,240	13,434	11,772	112,586	8,584	R17,108	R206,588	3,982	14	R304,216	-38,885	160,340	R434,664
1990	1,882	28,519	30,401	-80	72	64,183	R46,438	13,794	13,787	128,473	8,787	R18,413	R234,988	4,142	R1,646	R323,386	-38,441	178,732	R471,586
1991	1,860	28,207	30,067	-60	89	64,697	R46,181	14,009	14,572	132,061	8,796	R18,376	R222,376	4,172	1,809	R320,982	-38,500	184,882	R480,283
1992	1,567	28,630	30,197	-41	143	68,401	R46,110	13,568	13,628	126,188	8,5376	R18,368	R221,987	3,879	1,828	R320,519	-36,763	R186,987	R474,713
1993	1,505	26,352	27,857	-40	116	R75,941	R48,885	13,002	R13,432	R128,387	8,439	R18,443	R225,618	3,659	1,737	R331,686	-38,651	R196,586	R481,861
1994	1,473	25,778	27,251	-40	132	77,783	47,235	12,474	16,286	129,900	5,289	18,256	229,048	3,859	1,750	339,744	-35,951	200,894	504,688

^a Liquidated petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used as electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this row series between 1989 and 1990 due to the expanded coverage of non-electric utility

Use of brackets beginning in 1980

R-Rounded data

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 6. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, United States

Year	Primary Energy								Electricity	Total Energy ^c
	Coal	Natural Gas	Petroleum				Biomass ^b	Total ^f		
			Distillate Fuel	Kerosene	LPG ^a	Total				
Prices in Nominal Dollars per Million Btu										
1970	1.13	1.06	1.39	1.64	2.12	1.58	—	1.24	8.81	2.12
1971	1.22	1.12	1.46	1.59	2.09	1.61	—	1.29	8.90	2.28
1972	1.27	1.18	1.47	1.59	2.18	1.63	—	1.34	7.09	2.38
1973	1.20	1.26	1.69	1.87	3.62	2.11	—	1.66	7.44	2.73
1974	2.20	1.42	2.61	2.93	3.73	2.87	—	1.82	9.09	3.40
1975	2.47	1.67	2.74	3.14	4.02	3.04	—	2.13	10.29	3.83
1976	2.41	1.94	2.94	3.32	4.39	3.26	—	2.40	10.93	4.16
1977	2.53	2.30	3.32	3.79	4.89	3.68	—	2.78	11.87	4.60
1978	2.60	2.52	3.51	4.04	4.75	3.79	—	2.95	12.63	5.18
1979	2.70	2.62	5.04	5.66	6.69	5.33	—	3.63	13.60	6.06
1980	2.99	3.80	7.02	8.32	7.93	7.98	—	4.88	15.71	7.95
1981	3.55	4.19	8.63	10.53	8.34	8.68	—	5.29	18.17	9.93
1982	3.64	5.06	8.38	10.47	9.24	8.69	—	5.87	20.11	9.82
1983	3.15	5.88	8.11	9.32	9.48	8.64	—	6.48	21.04	10.85
1984	3.40	5.95	8.24	9.05	9.45	8.58	—	6.49	20.98	10.86
1985	3.25	5.94	7.92	8.77	9.10	8.27	—	6.48	21.68	11.14
1986	3.11	5.67	8.35	7.14	8.57	8.91	—	6.85	21.78	10.99
1987	2.76	5.39	8.05	6.61	8.84	8.71	—	6.70	21.82	10.96
1988	2.64	5.32	8.11	6.74	8.49	8.70	—	6.43	21.92	10.90
1989	2.67	5.47	8.75	7.38	10.38	7.74	—	6.99	22.41	11.26
1990	3.82	5.88	8.01	8.86	16.94	8.89	^d 1.51	^d 8.20	22.96	^d 11.44
1991	3.07	5.86	7.65	8.44	10.94	8.88	1.51	^e 8.17	23.57	^e 11.62
1992	2.88	5.72	7.00	7.80	10.38	8.03	1.51	^e 8.08	24.07	^e 11.52
1993	3.00	5.89	6.84	7.57	10.21	7.85	1.55	^e 8.28	24.40	^e 11.89
1994	2.69	6.23	6.64	7.30	10.06	7.68	1.55	6.40	24.57	12.19
Expenditures in Million Nominal Dollars										
1970	173	5,272	2,803	499	1,225	4,285	—	9,731	10,952	28,893
1971	176	5,702	2,774	489	1,223	4,486	—	10,344	11,569	21,833
1972	140	6,203	2,832	432	1,368	4,731	—	11,095	13,034	24,129
1973	126	6,282	3,378	426	2,153	5,967	—	12,385	14,712	27,078
1974	229	6,949	4,816	594	2,039	7,392	—	14,570	17,924	32,494
1975	288	8,410	4,354	594	2,134	7,582	—	16,391	20,944	34,844
1976	199	9,682	5,834	613	2,410	8,857	—	19,046	22,621	41,686
1977	211	11,324	6,630	633	2,609	9,872	—	21,407	26,132	47,540
1978	220	12,663	6,964	617	2,455	9,925	—	22,710	29,069	51,780
1979	199	14,772	8,200	739	2,337	11,278	—	26,246	31,683	57,829
1980	175	17,487	9,284	887	2,878	12,885	—	30,367	38,496	68,936
1981	249	19,502	9,902	899	2,893	13,354	—	33,146	44,780	77,026
1982	275	23,887	9,796	895	2,795	12,529	—	38,788	60,045	86,633
1983	239	28,564	7,500	796	3,334	11,629	—	38,432	53,916	82,390
1984	280	27,873	7,910	797	2,738	11,445	—	38,586	55,777	85,376
1985	228	27,138	7,910	1,391	2,874	12,274	—	39,498	56,672	96,907
1986	215	25,147	6,428	866	2,770	10,084	—	35,427	60,778	96,203
1987	181	23,926	6,236	784	3,107	10,127	—	34,235	63,218	97,562
1988	174	23,332	6,967	967	3,011	10,474	—	35,640	66,793	102,773
1989	156	26,683	7,038	669	4,170	12,071	—	39,180	69,243	108,423
1990	187	26,442	8,788	887	5,882	11,362	^d 874	^d 47,798	72,378	^d 110,144
1991	173	26,506	8,381	811	4,260	11,232	925	^e 39,638	76,925	^e 115,663
1992	183	27,800	6,054	507	3,974	10,534	973	^e 39,271	76,950	^e 116,121
1993	170	^e 30,536	5,245	572	^e 4,068	^e 10,886	650	^e 42,442	82,913	^e 125,257
1994	148	31,029	5,843	474	3,979	10,296	833	42,305	84,554	126,659

^a Liquid petroleum gases^b Commercial sector prices and expenditures for wood and waste are included in the residential sector^c These are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990^e Revised data

—No consumption

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 7. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, United States

Year	Primary Energy										Electricity	Total Energy ²
	Coal	Natural Gas	Petroleum					Total	Total ²			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel					
Prices in Nominal Dollars per Million Btu												
1970	0.46	4.75	1.18	0.77	1.34	2.88	0.46	0.80	0.78	6.10	1.87	
1971	0.49	0.80	1.18	0.81	1.31	2.91	0.81	1.01	0.86	6.45	2.15	
1972	0.51	0.88	1.18	0.81	1.32	2.90	0.85	1.04	0.91	6.71	2.33	
1973	0.53	0.91	1.37	0.98	1.43	3.11	0.78	1.20	1.00	7.06	2.64	
1974	1.00	1.05	2.25	2.16	2.63	4.34	1.69	2.25	1.44	8.42	3.42	
1975	1.31	1.32	2.42	2.32	2.80	4.66	1.91	2.58	1.67	10.11	4.09	
1976	1.23	1.61	2.61	2.67	2.84	4.85	1.67	2.49	1.90	10.81	4.40	
1977	1.31	2.00	2.89	2.98	3.34	5.15	2.20	2.94	2.23	11.63	5.15	
1978	1.40	2.20	3.11	3.15	3.53	5.30	2.06	3.01	2.42	12.78	5.54	
1979	1.47	2.69	4.96	4.54	3.99	7.15	3.01	4.15	3.11	13.72	6.31	
1980	1.55	3.32	4.48	4.46	5.15	8.77	4.12	5.84	4.02	16.46	7.88	
1981	1.81	3.91	7.39	7.48	5.35	10.28	5.12	7.00	4.75	18.46	9.85	
1982	1.89	4.70	7.09	7.31	6.32	10.44	4.67	8.05	5.14	20.11	10.44	
1983	1.78	5.43	7.61	6.89	6.83	9.13	4.51	8.49	5.64	20.57	11.02	
1984	1.60	5.40	7.39	7.38	6.82	8.94	4.54	8.54	5.63	20.90	11.23	
1985	1.80	5.34	7.43	7.04	6.39	8.01	4.89	8.51	5.61	21.37	11.70	
1986	1.85	4.94	7.18	6.77	6.22	6.77	4.71	8.27	5.64	21.10	11.55	
1987	1.54	4.84	7.42	7.07	7.67	7.22	4.62	8.42	5.45	20.45	10.75	
1988	1.54	4.81	7.18	6.77	7.60	7.03	4.53	8.31	5.42	20.34	10.86	
1989	1.54	4.61	6.87	6.40	7.33	6.69	4.38	8.02	5.42	20.77	11.36	
1990	1.51	4.79	6.94	6.79	8.41	6.15	4.41	8.34	5.49	21.23	12.42	
1991	1.58	4.69	6.42	6.09	9.02	6.09	4.41	8.34	5.49	21.73	12.50	
1992	1.88	4.75	6.07	5.77	8.77	5.77	4.16	8.16	5.47	22.32	12.72	
1993	1.79	4.75	6.01	5.40	8.77	5.40	4.16	8.16	5.47	22.40	12.72	
1994	1.63	5.36	4.71	5.49	8.59	5.14	4.82	8.59	5.15	22.36	12.50	

Expenditures in Million Nominal Dollars

Year	86	1,644	646	47	127	247	325	1,391	3,333	7,425	19,698
1970	86	2,090	690	45	135	244	409	1,523	3,661	8,316	21,980
1971	81	2,289	733	44	146	253	422	1,596	3,906	8,459	22,428
1972	78	2,421	880	42	150	270	516	1,801	4,380	10,728	24,107
1973	161	2,741	1,304	118	283	350	1,120	2,205	6,057	13,383	29,460
1974	182	3,245	1,423	114	282	415	1,239	2,433	6,400	16,145	32,638
1975	186	4,379	1,713	117	273	470	1,082	3,638	9,165	26,308	50,575
1976	189	5,004	2,014	114	314	518	1,256	4,297	10,223	28,185	58,407
1977	161	5,412	2,073	113	321	545	1,096	4,393	10,223	28,185	58,407
1978	169	7,632	2,582	255	250	747	1,519	5,534	13,226	38,783	80,491
1979	186	8,666	3,357	288	286	1,448	2,239	7,087	16,298	48,491	95,367
1980	186	10,005	3,357	518	327	1,600	2,328	7,628	17,069	51,242	102,448
1981	175	12,565	3,378	222	330	914	1,882	6,706	19,483	61,282	124,786
1982	205	13,802	4,304	263	348	924	1,839	7,388	21,174	64,381	131,448
1983	184	14,012	4,342	744	404	857	1,311	8,441	22,080	68,243	140,448
1984	189	13,348	4,342	744	404	857	1,311	8,441	22,080	68,243	140,448
1985	178	11,770	4,247	624	404	720	1,025	7,659	20,119	54,194	111,448
1986	154	11,770	4,247	624	404	720	1,025	7,659	20,119	54,194	111,448
1987	154	11,770	4,247	624	404	720	1,025	7,659	20,119	54,194	111,448
1988	154	11,770	4,247	624	404	720	1,025	7,659	20,119	54,194	111,448
1989	154	11,770	4,247	624	404	720	1,025	7,659	20,119	54,194	111,448
1990	154	11,770	4,247	624	404	720	1,025	7,659	20,119	54,194	111,448
1991	154	11,770	4,247	624	404	720	1,025	7,659	20,119	54,194	111,448
1992	154	11,770	4,247	624	404	720	1,025	7,659	20,119	54,194	111,448
1993	154	11,770	4,247	624	404	720	1,025	7,659	20,119	54,194	111,448
1994	154	11,770	4,247	624	404	720	1,025	7,659	20,119	54,194	111,448

^a Equipped petroleum gases.
^b There are no data for propane and other thermal energy sources.
^c Expenditures for wood and waste are included in the residential sector.

Commercial sector prices and expenditures

Revised data
 Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 8. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, United States

Year	Primary Energy																	Electricity	Total Energy ^c
	Coal			Coal Costs		Natural Gas	Petroleum									Biofuels	Total ^c		
	Coking Coal	Steam Coal	Total	Exports	Imports		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																			
1970	8.45	8.44	8.48	1.27	0.89	8.28	0.98	0.72	8.77	1.10	5.88	2.98	8.48	0.96	8.88	—	0.84	2.98	9.83
1971	8.52	8.47	8.50	1.20	1.17	8.41	0.79	0.75	8.81	1.18	5.27	2.91	8.82	1.02	1.04	—	0.66	3.22	9.61
1972	8.89	8.51	8.55	1.01	1.01	8.48	0.92	0.75	8.81	1.18	5.58	2.87	8.60	1.00	1.08	—	0.70	3.40	9.98
1973	8.88	8.53	8.63	0.98	1.47	8.50	0.94	0.82	0.97	1.31	5.33	3.13	0.73	1.12	1.16	—	0.79	3.86	1.09
1974	1.36	0.89	1.22	1.37	2.85	0.97	1.80	2.02	2.14	2.42	7.22	4.31	1.82	1.95	2.16	—	1.38	4.96	1.76
1975	1.69	1.28	1.58	2.37	3.47	0.93	1.88	2.33	2.34	2.51	7.48	4.65	1.91	2.43	2.41	—	1.88	8.07	3.28
1976	1.85	1.25	1.50	2.68	3.41	1.21	1.90	2.38	2.58	2.70	7.05	4.87	1.90	2.75	2.53	—	1.84	8.48	2.43
1977	1.72	1.31	1.58	2.32	3.86	1.46	1.95	2.58	2.91	3.14	6.97	5.16	2.15	3.05	2.80	—	2.11	7.33	2.78
1978	1.84	1.46	1.73	2.87	2.80	1.68	2.13	2.82	3.09	3.12	7.60	5.27	2.12	3.16	2.91	—	2.28	8.18	3.08
1979	1.89	1.66	1.76	2.36	3.45	1.86	2.58	3.86	4.32	4.07	10.21	7.16	2.78	4.34	3.90	—	2.84	8.94	3.88
1980	2.40	1.58	1.87	2.54	3.19	2.58	3.08	5.54	6.90	5.18	14.38	8.82	3.88	5.58	5.58	—	3.77	18.81	4.71
1981	2.34	1.75	2.08	2.55	3.28	3.07	5.02	6.62	7.22	5.78	18.00	10.69	4.48	6.58	6.84	—	4.45	12.97	5.58
1982	2.43	1.84	2.08	2.49	3.10	3.80	4.24	8.61	7.41	8.18	17.25	10.43	4.48	7.74	8.51	—	4.72	14.81	8.14
1983	2.14	1.75	1.91	2.78	2.25	4.10	4.52	^R 8.58	8.91	5.68	16.88	9.25	4.36	7.55	^R 6.57	—	^R 4.77	14.54	^R 6.31
1984	2.68	1.78	1.90	2.88	3.27	4.13	4.54	^R 8.53	7.74	8.48	17.83	8.86	4.73	7.43	^R 6.58	—	^R 4.74	14.16	^R 6.21
1985	2.83	1.81	1.88	2.78	2.98	3.87	4.77	^R 8.24	^R 7.88	8.68	17.81	8.87	4.24	7.18	^R 6.28	—	^R 4.80	14.87	^R 6.38
1986	1.98	1.75	1.80	2.63	3.11	3.20	4.34	^R 8.01	^R 8.67	5.83	15.59	8.80	^R 2.47	4.81	^R 4.84	—	^R 5.07	14.45	^R 5.42
1987	1.74	1.84	1.68	3.37	2.40	2.98	3.68	^R 8.48	^R 5.16	5.78	12.70	7.25	^R 2.86	6.22	^R 4.98	—	^R 5.82	13.86	^R 6.21
1988	1.79	1.61	1.68	2.85	2.90	2.90	3.39	^R 4.10	^R 4.72	4.97	14.81	7.32	2.94	4.38	^R 4.83	—	^R 5.98	13.78	^R 5.08
1989	1.78	1.61	1.68	2.98	3.78	2.93	2.85	^R 4.80	^R 5.40	4.06	14.48	8.05	2.75	5.18	^R 4.63	—	^R 5.38	13.85	^R 5.12
1990	1.79	1.83	1.88	3.83	3.88	2.83	3.82	^R 8.88	^R 8.83	8.37	14.80	8.37	3.18	5.83	^R 8.81	^d 1.38	^d 8.83	13.88	^d 8.29
1991	1.83	1.82	1.88	2.74	3.40	2.80	3.14	^R 6.28	^R 8.04	5.42	16.78	8.85	2.44	5.21	^R 5.23	1.40	^R 5.50	14.18	^R 5.23
1992	1.83	1.82	1.88	2.79	3.32	2.81	2.93	^R 6.16	^R 8.51	4.91	18.43	8.94	2.46	5.00	^R 4.84	1.37	^R 5.47	14.18	^R 5.19
1993	1.79	1.59	1.86	2.88	3.04	^R 3.14	2.90	^R 8.88	^R 5.65	^R 4.87	18.94	^R 8.81	2.41	^R 4.51	^R 4.82	1.35	^R 5.49	14.22	^R 5.19
1994	1.73	1.80	1.85	2.46	3.31	3.11	2.93	4.85	5.48	5.32	19.18	8.91	2.50	4.46	4.88	1.34	5.40	14.00	5.18
Expenditure in Million Nominal Dollars																			
1970	1,178	807	2,883	-78	4	2,825	781	856	142	1,495	785	624	638	1,171	5,202	—	10,834	5,634	16,468
1971	1,163	888	1,971	-45	5	5,019	878	934	133	1,113	901	799	863	1,307	8,529	—	11,779	8,288	18,036
1972	1,379	833	2,212	-31	5	3,335	928	1,012	130	1,311	906	729	902	1,426	7,344	—	12,886	7,173	20,038
1973	1,724	804	2,527	-33	40	2,536	1,058	1,320	151	1,568	1,041	798	1,168	1,705	8,795	—	15,888	8,284	23,548
1974	3,284	1,420	4,704	-44	193	4,971	1,885	2,642	271	2,892	1,352	1,014	2,644	2,857	15,828	—	28,482	11,184	36,336
1975	3,882	1,886	5,488	-75	156	5,844	1,944	2,947	278	2,780	1,119	1,888	2,387	3,801	18,988	—	37,888	13,768	41,388
1976	3,740	1,708	5,448	-87	111	7,484	1,858	3,548	317	3,184	1,171	1,028	2,888	4,888	18,888	—	31,888	18,888	47,888
1977	3,578	1,781	5,388	-71	139	8,988	2,088	4,451	417	3,747	1,288	1,014	3,458	8,359	22,777	—	37,183	18,888	58,119
1978	3,703	2,019	5,722	-49	411	10,114	2,471	4,783	480	3,879	1,484	938	2,885	8,838	23,736	—	39,833	21,798	61,732
1979	3,820	2,327	6,247	-81	340	12,110	2,377	6,684	766	8,712	2,088	1,158	3,887	10,045	34,273	—	52,880	24,787	77,667
1980	3,788	2,135	6,888	-180	52	18,388	3,543	7,282	1,143	7,987	2,813	1,883	4,178	15,271	40,487	—	65,887	28,863	94,828
1981	3,831	2,610	6,441	-74	43	20,432	4,156	8,983	779	8,788	3,142	1,741	4,088	15,486	47,171	—	74,013	34,007	108,020
1982	2,851	2,840	5,301	-61	9	20,504	3,514	8,688	1,044	9,858	2,745	1,442	4,025	10,818	41,841	—	67,584	36,384	102,958
1983	2,188	2,888	4,736	-46	2	21,461	3,302	^R 7,477	467	10,084	2,830	1,098	2,808	6,788	^R 38,436	—	^R 64,588	37,017	^R 101,605
1984	2,461	2,916	5,777	-89	47	23,783	4,501	^R 7,727	448	10,781	3,134	1,438	3,647	8,848	^R 41,823	—	^R 70,841	39,060	^R 109,899
1985	2,288	2,818	8,284	-77	43	21,618	4,988	^R 7,379	^R 294	9,388	2,818	1,877	^R 2,818	5,188	^R 34,881	—	^R 65,787	48,188	^R 185,887
1986	1,825	2,882	4,757	-65	25	18,478	4,717	^R 4,772	^R 150	8,838	2,525	1,402	^R 1,574	8,328	^R 30,305	—	^R 51,501	39,271	^R 90,772
1987	1,718	2,747	4,465	-48	85	18,888	4,818	^R 8,472	^R 146	8,882	2,325	1,487	^R 1,436	7,338	^R 30,881	—	^R 51,282	39,108	^R 90,371
1988	2,008	2,743	4,748	-77	194	17,287	3,848	^R 4,931	^R 141	8,827	2,680	1,414	1,882	6,344	^R 29,027	—	^R 51,143	40,507	^R 91,658
1989	1,934	2,718	4,850	-80	217	18,778	3,228	^R 5,497	^R 158	8,823	2,822	1,688	904	7,280	^R 28,252	—	^R 51,808	42,284	^R 94,084
1990	1,882	2,787	4,988	-64	72	19,448	3,828	^R 4,888	^R 84	8,466	2,720	1,888	1,887	8,488	^R 33,834	^d 787	^R 88,788	43,288	^R 102,087
1991	1,680	2,798	4,388	-80	93	18,812	3,382	^R 6,002	^R 68	9,317	2,800	1,728	658	8,416	^R 32,373	873	^R 68,588	44,204	^R 100,802
1992	1,687	2,688	4,246	-44	143	20,558	2,755	^R 5,878	^R 57	8,834	3,303	1,737	804	^R 8,881	^R 32,154	844	^R 87,888	^R 45,474	^R 103,370
1993	1,595	2,634	4,138	-60	116	^R 23,428	3,338	^R 5,540	^R 74	^R 8,588	3,276	^R 1,581	^R 830	^R 7,888	^R 31,024	878	^R 59,822	^R 45,727	^R 105,249
1994	1,473	2,648	4,119	-40	132	23,985	3,438	5,358	93	10,434	3,488	1,723	908	7,682	33,107	908	62,210	46,255	108,465

^a Liquefied petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.

R-Reviewed data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 9. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, United States

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.41	—	2.17	1.31	0.73	1.11	5.08	2.85	0.38	2.31	2.31	4.85	2.31
1971	0.48	—	2.21	1.38	0.77	1.19	5.27	2.90	0.52	2.37	2.37	5.35	2.37
1972	0.48	—	2.19	1.38	0.77	1.21	5.58	2.88	0.59	2.38	2.38	6.01	2.38
1973	0.50	—	2.38	1.68	0.91	1.34	5.33	3.10	0.66	2.57	2.57	6.70	2.57
1974	0.98	—	3.23	2.64	1.87	2.47	7.22	4.32	1.58	3.70	3.70	10.91	3.70
1975	1.28	—	3.45	2.89	2.06	2.81	7.48	4.84	1.72	4.82	4.82	11.72	4.82
1976	1.21	—	3.59	2.97	2.25	2.72	7.05	4.64	1.71	4.25	4.25	11.97	4.21
1977	1.27	—	3.97	3.31	2.59	3.20	6.97	5.13	1.87	4.47	4.47	10.85	4.48
1978	—	—	4.29	3.43	2.87	3.21	7.80	5.24	1.82	4.59	4.59	12.48	4.59
1979	—	—	5.73	5.04	3.90	4.05	10.21	7.11	2.47	6.19	6.19	13.65	6.19
1980	—	—	9.02	7.49	6.36	5.28	14.36	9.84	3.91	8.89	8.89	14.71	8.81
1981	—	—	10.84	8.55	7.57	5.82	18.09	10.94	4.44	9.85	9.85	16.90	9.84
1982	—	—	10.92	8.14	7.23	6.37	17.25	10.59	4.54	9.42	9.42	16.43	9.43
1983	—	—	10.44	7.56	^a 6.53	6.85	16.86	9.12	4.42	^a 8.44	^a 8.44	16.06	8.44
1984	—	—	10.27	7.51	^a 6.25	6.67	17.63	8.89	4.60	^a 8.25	^a 8.25	16.25	8.25
1985	—	—	9.99	7.50	5.91	6.68	17.81	9.81	4.38	8.25	8.25	16.74	8.26
1986	—	—	8.41	6.38	5.02	6.03	16.59	8.79	2.11	6.21	6.21	15.63	6.22
1987	—	—	7.55	6.75	4.03	7.62	12.70	7.32	2.64	6.59	6.59	15.03	6.57
1988	—	—	7.41	6.59	3.80	7.77	14.61	7.32	2.82	6.55	6.55	14.05	6.59
1989	—	—	6.29	7.16	4.39	7.31	14.48	8.01	2.47	7.18	7.18	12.99	7.17
1990	—	3.39	6.22	6.46	6.68	8.46	14.80	9.12	2.99	8.26	8.26	12.68	8.27
1991	—	3.84	8.71	8.11	4.83	8.80	16.79	8.63	2.63	7.57	7.57	12.78	7.58
1992	—	3.81	6.54	8.01	4.52	8.31	16.43	8.88	1.98	7.91	7.91	12.53	7.92
1993	—	4.17	8.24	8.05	4.29	8.43	18.04	^a 8.62	1.99	^a 7.86	^a 7.86	^a 12.66	^a 7.87
1994	—	4.11	7.58	8.51	3.95	8.82	19.18	8.81	2.08	7.87	7.87	12.65	7.88
Expenditures in Million Nominal Dollars													
1970	3	—	218	2,858	1,441	48	745	38,525	281	38,527	38,528	40	38,528
1971	2	—	200	2,952	1,582	60	778	32,435	362	32,765	32,766	45	32,761
1972	2	—	167	2,883	1,601	63	866	34,365	375	40,154	40,156	51	40,207
1973	1	—	197	3,885	1,936	65	870	36,586	483	45,846	45,847	56	46,304
1974	2	—	268	5,804	3,139	108	1,139	52,820	1,102	64,385	64,379	98	64,486
1975	1	—	245	5,898	4,190	105	1,168	87,882	1,388	70,813	70,814	136	70,950
1976	(b)	—	242	6,765	4,505	124	1,212	63,480	1,411	77,759	77,759	125	77,884
1977	(b)	—	279	8,237	5,417	153	1,198	66,059	1,703	86,047	86,047	112	86,159
1978	—	—	307	9,184	6,130	188	1,402	73,013	1,902	92,093	92,093	112	92,115
1979	—	—	403	14,856	8,533	84	1,970	94,013	3,028	122,688	122,688	143	122,831
1980	—	—	588	29,986	13,868	68	2,468	121,888	4,928	169,817	169,817	186	169,994
1981	—	—	810	24,798	15,075	191	2,968	130,394	5,411	184,945	184,946	187	185,133
1982	—	—	513	22,709	14,865	205	2,583	127,849	4,630	173,553	173,553	223	173,776
1983	—	—	498	21,988	^a 13,878	261	2,673	113,843	3,832	^a 158,854	^a 158,854	229	^a 157,084
1984	—	—	450	23,813	^a 15,067	275	2,880	112,044	3,714	^a 158,454	^a 158,454	244	^a 158,688
1985	—	—	503	24,027	14,747	288	2,784	116,201	3,622	168,884	168,884	268	169,198
1986	—	—	496	21,012	10,585	208	2,364	89,404	1,899	125,847	125,847	260	126,107
1987	—	—	344	22,679	11,449	157	2,187	87,527	2,373	138,925	138,925	295	137,280
1988	—	—	363	24,310	11,318	172	2,437	100,886	2,042	141,630	141,630	300	141,930
1989	—	—	384	27,475	13,434	159	2,477	110,188	2,420	158,526	158,526	313	158,838
1990	—	1	418	32,409	17,784	185	2,889	123,775	3,067	188,288	^a 188,288	331	^a 188,548
1991	—	1	383	29,816	14,809	178	2,644	120,657	2,922	171,089	^a 171,081	351	^a 171,622
1992	—	2	351	30,512	13,659	153	3,120	122,700	2,145	172,539	^a 172,541	345	^a 172,888
1993	—	4	316	31,479	13,002	160	3,088	^a 124,548	1,808	^a 174,405	^a 174,410	^a 342	^a 174,781
1994	—	7	304	33,457	12,474	274	3,277	127,345	1,948	179,578	179,586	366	179,941

^a Liquefied petroleum gases.^b Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(c)—Value less than 0.5 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 10. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1984, United States

Year	Coal	Natural Gas	Petroleum			Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke			
Prices in Nominal Dollars per Million Btu								
1970	0.31	0.28	0.41	0.57	0.29	0.13	0.65	0.32
1971	0.36	0.31	0.57	0.70	0.30	0.16	0.69	0.38
1972	0.38	0.33	0.64	0.85	0.31	0.16	0.72	0.41
1973	0.41	0.35	0.78	1.15	0.26	0.19	0.77	0.45
1974	0.71	0.49	1.87	2.14	0.36	0.20	0.84	0.68
1975	0.82	0.75	1.99	2.22	0.53	0.24	0.92	0.86
1976	0.85	1.03	1.95	2.39	1.86	0.25	0.96	1.02
1977	0.95	1.29	2.19	2.72	1.57	0.27	1.04	1.16
1978	1.12	1.43	2.13	2.75	0.66	0.30	1.12	1.25
1979	1.22	1.74	2.68	4.15	3.04	0.34	1.56	1.48
1980	1.35	2.28	4.25	6.75	2.81	0.43	1.74	1.75
1981	1.53	2.82	6.32	7.32	0.95	0.49	1.24	2.00
1982	1.65	3.37	4.83	6.89	1.15	0.54	1.26	2.01
1983	1.68	3.47	4.60	6.20	1.27	0.58	1.12	1.98
1984	1.66	3.58	4.62	6.22	1.25	0.67	1.28	1.97
1985	1.65	3.49	4.34	5.84	1.27	0.71	0.79	1.85
1986	1.58	2.35	2.42	3.67	1.04	0.70	0.32	1.55
1987	1.51	2.24	2.97	4.17	1.04	0.71	0.96	1.51
1988	1.47	2.36	2.41	3.81	0.99	0.73	0.87	1.46
1989	1.45	2.36	2.85	4.26	0.86	0.70	0.67	1.46
1990	1.46	2.32	3.30	5.62	0.83	0.67	0.50	1.37
1991	1.45	2.14	2.46	4.94	0.82	0.63	0.51	1.34
1992	1.41	2.32	2.48	4.77	0.82	0.59	0.55	1.35
1993	1.39	2.55	2.37	4.48	0.86	0.56	0.55	1.35
1994	1.35	2.23	2.39	4.09	0.51	0.56	0.56	1.30

Expenditures in Million Nominal Dollars								
1970	2,237	1,181	787	80	6	44	2	4,316
1971	2,837	1,283	1,300	141	5	73	2	5,441
1972	2,977	1,351	1,758	274	6	104	2	6,473
1973	3,518	1,904	2,508	313	4	177	3	7,817
1974	6,050	1,720	5,881	681	7	358	2	14,301
1975	7,178	2,422	5,842	502	1	448	2	16,296
1976	8,264	3,242	6,268	562	3	520	3	18,923
1977	9,718	4,226	7,808	771	4	743	5	23,382
1978	11,472	4,695	7,892	767	10	915	6	26,746
1979	13,808	6,261	9,244	740	11	941	8	31,031
1980	16,450	6,957	10,446	972	14	1,166	8	37,436
1981	19,345	10,524	11,032	908	4	1,438	5	43,275
1982	20,841	11,238	7,116	624	5	1,684	4	41,311
1983	21,873	10,573	6,820	586	10	1,858	4	41,236
1984	23,165	11,521	5,737	560	9	2,384	12	43,378
1985	24,856	10,819	4,232	502	9	2,500	11	43,898
1986	22,735	6,305	3,298	306	10	3,125	4	35,793
1987	22,765	6,593	3,436	379	11	3,823	15	36,682
1988	23,290	6,123	3,486	416	12	4,111	15	37,495
1989	23,165	6,750	4,328	632	13	4,374	14	38,695
1990	23,398	8,431	3,737	485	20	4,283	10	38,441
1991	23,184	6,068	2,649	367	16	4,172	11	38,500
1992	22,863	6,558	2,114	381	16	3,878	11	35,763
1993	23,395	7,009	2,222	343	13	3,658	11	36,051
1994	22,847	6,806	2,026	389	13	3,858	12	35,951

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
 A-Standard data.

Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 11. Energy Price and Expenditure Estimates by Source, 1970-1994, Alabama

Year	Primary Energy													Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c	
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biomass				Total ^c
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																	
1970	0.42	0.26	0.32	0.82	1.30	0.73	2.00	2.82	0.41	R1.18	2.09	—	—	0.84	0.26	3.51	1.37
1971	0.44	0.36	0.30	0.58	1.15	0.78	2.06	2.85	0.58	R1.20	2.18	—	—	0.94	0.34	3.83	1.51
1972	0.58	0.38	0.43	0.63	1.18	0.78	2.03	2.95	0.63	R1.28	2.18	—	—	1.00	0.38	4.00	1.61
1973	0.64	0.42	0.46	0.70	1.40	0.90	3.20	3.06	0.68	R1.33	2.31	0.11	—	1.11	0.42	4.50	1.85
1974	1.27	0.78	0.80	0.83	2.36	1.58	3.62	4.14	1.58	R1.68	3.13	0.12	—	1.58	0.86	5.44	2.52
1975	1.58	0.84	1.10	0.86	2.68	2.03	3.83	4.26	1.59	R2.73	3.39	0.14	—	1.82	0.88	6.87	2.84
1976	1.49	1.02	1.16	1.41	2.71	2.18	3.87	4.70	1.64	R2.80	3.53	0.15	—	2.04	0.84	7.27	3.23
1977	2.06	1.16	1.37	1.63	3.06	2.56	4.46	5.12	1.79	R2.83	3.81	0.18	—	2.10	0.84	8.72	3.78
1978	1.82	1.38	1.48	1.97	3.11	2.88	4.50	5.27	1.75	R3.05	3.86	0.27	—	2.22	0.85	9.22	4.02
1979	1.80	1.50	1.57	2.83	4.38	3.90	5.74	7.04	2.24	R4.22	6.53	0.24	—	2.70	1.07	10.61	4.94
1980	1.96	1.83	1.70	3.88	5.88	5.38	6.82	8.89	2.80	R5.84	7.88	0.33	—	3.37	1.17	12.82	6.41
1981	2.07	1.90	1.93	3.49	5.00	7.47	7.29	11.24	3.86	R7.97	9.34	0.43	—	4.03	1.37	14.56	7.85
1982	2.18	2.03	2.08	4.39	7.67	7.42	7.69	10.61	3.80	R7.43	8.81	0.42	—	4.07	1.31	16.86	8.12
1983	2.03	2.01	2.01	4.89	R9.89	R5.74	8.34	9.07	3.89	R7.25	R8.00	0.45	—	R3.88	1.40	17.59	R8.12
1984	2.03	2.02	2.02	4.84	R9.88	R5.52	8.26	9.98	4.48	R7.36	R7.98	0.44	—	R3.90	1.51	17.81	R8.00
1985	2.82	2.80	2.81	4.73	R6.80	6.77	6.86	9.15	3.80	R7.13	R7.80	0.77	—	R3.88	1.74	18.90	R7.87
1986	1.91	1.80	1.86	4.50	R5.51	4.45	7.06	6.99	1.98	R5.79	R5.24	0.70	—	3.48	1.88	16.66	7.18
1987	1.74	1.89	1.87	4.27	R5.97	4.90	7.21	7.27	2.18	R5.01	R6.40	0.60	—	R3.87	1.69	16.48	R7.12
1988	1.70	1.80	1.87	4.03	R5.67	4.07	8.97	7.21	2.40	R4.78	R6.26	0.66	—	R3.47	1.66	16.34	R6.91
1989	1.74	1.84	1.83	3.90	R6.36	4.44	8.82	7.96	2.20	R4.98	R6.87	0.60	—	3.72	1.85	16.43	7.29
1990	1.83	1.83	1.83	4.07	R7.35	6.98	14.13	8.96	2.19	R5.51	R7.79	0.66	R1.68	R3.86	1.80	16.46	R7.61
1991	1.80	1.79	1.80	4.08	R6.86	6.03	11.24	8.69	1.74	R5.35	R7.45	0.71	1.68	R3.72	1.66	16.89	R7.52
1992	1.78	1.71	1.72	4.06	R6.92	4.73	10.23	8.67	1.68	R4.99	R7.40	0.75	1.69	R3.57	1.48	16.47	R7.31
1993	1.77	1.75	1.75	R4.28	R6.99	4.41	9.77	R8.82	R1.65	R4.94	R7.40	0.67	1.52	R3.59	1.53	16.78	R7.52
1994	1.77	1.86	1.88	4.33	8.79	4.11	8.58	8.68	1.73	4.58	7.27	0.70	1.46	3.57	1.49	16.26	7.37
Expenditures in Million Nominal Dollars																	
1970	99.4	115.9	215.3	143.2	54.8	7.2	87.0	647.8	8.0	R67.6	731.8	—	—	1,098.4	-103.4	411.8	1,398.6
1971	94.5	150.1	244.5	181.9	58.8	7.5	82.1	584.7	8.9	R61.0	785.8	—	—	1,150.1	-129.1	482.4	1,514.4
1972	113.9	172.5	286.4	160.4	82.9	7.1	88.5	640.8	8.5	R67.6	878.5	—	—	1,322.3	-152.3	533.7	1,703.7
1973	129.5	205.0	333.5	171.1	117.2	8.4	101.4	707.7	25.5	R78.3	1,038.5	0.4	—	1,541.5	-187.8	651.0	2,005.4
1974	236.4	354.2	590.7	208.4	208.4	14.7	96.2	989.7	101.3	R103.6	1,480.9	8.5	—	2,265.5	-330.0	797.4	2,752.9
1975	268.2	431.7	700.9	227.1	221.8	19.1	91.9	1,010.7	127.4	R124.4	1,881.1	4.2	—	2,627.2	-386.8	940.2	3,081.5
1976	288.5	462.9	731.3	294.8	297.8	19.9	100.3	1,172.9	144.0	R133.8	1,868.8	7.0	—	2,891.7	-439.7	1,078.4	3,330.4
1977	312.1	548.6	860.7	355.3	349.8	25.0	124.8	1,329.6	180.8	R154.6	2,158.3	37.3	—	3,411.6	-563.6	1,396.9	4,288.1
1978	246.5	597.6	844.2	417.6	372.6	28.9	109.0	1,404.1	181.8	R173.1	2,254.2	84.6	—	3,582.5	-823.6	1,548.5	4,509.5
1979	288.9	767.5	1,054.4	627.9	391.8	36.9	120.8	1,771.7	137.0	R222.1	2,870.3	58.2	—	4,410.8	-740.7	1,807.5	5,477.6
1980	254.7	898.3	1,151.0	678.5	579.2	72.3	116.3	2,381.3	134.2	R291.6	3,496.8	85.2	—	5,378.4	-849.4	2,120.5	6,498.4
1981	214.1	989.1	1,203.2	827.1	594.3	74.6	120.8	2,540.2	105.4	R319.3	4,194.6	112.4	—	6,347.3	-1,006.3	2,389.1	7,711.0
1982	143.8	903.2	1,047.1	930.0	687.9	64.9	122.3	2,392.7	139.7	R462.5	3,970.0	128.1	—	5,975.2	-896.2	2,489.6	7,578.8
1983	100.9	970.9	1,071.8	946.8	R608.9	R61.3	134.0	2,067.0	81.8	R413.2	3,386.2	123.6	—	R5,508.5	-961.8	2,618.3	R7,166.0
1984	159.7	1,019.4	1,177.3	986.1	R628.7	R134.3	100.7	2,084.8	73.6	R422.1	3,444.8	168.3	—	R5,778.6	-1,044.9	2,903.0	R7,641.3
1985	188.1	1,172.4	1,360.5	933.7	R687.2	121.6	91.7	2,080.3	83.6	R484.7	3,328.8	188.7	—	R5,898.8	-1,174.8	2,728.9	R7,260.8
1986	123.4	1,115.6	1,245.2	796.7	R529.3	83.5	103.2	1,705.0	28.3	R501.2	2,780.5	87.6	—	R4,689.8	-1,068.6	2,818.4	R6,519.6
1987	144.6	1,069.6	1,234.1	763.9	R551.7	80.2	122.7	1,646.6	31.4	R596.1	3,046.7	83.3	—	R5,127.0	-1,063.7	2,950.9	R7,014.3
1988	164.0	1,069.2	1,233.2	826.2	R574.8	42.2	112.8	1,824.2	51.1	R573.3	2,978.8	90.1	—	R5,117.9	-1,048.7	3,008.7	R7,110.6
1989	154.7	1,079.3	1,234.0	839.3	R514.6	52.7	161.2	2,067.1	49.1	R587.7	3,522.4	74.4	—	R5,670.1	-1,065.0	3,139.7	R7,744.8
1990	168.9	1,077.2	1,236.1	841.4	R1,083.3	63.1	182.7	2,383.4	52.6	R528.2	3,986.4	71.7	R57.4	R5,208.1	-1,098.3	3,238.6	R8,378.4
1991	153.0	1,130.2	1,282.2	871.7	R655.4	83.8	154.6	2,250.4	38.5	R529.2	3,801.8	120.9	74.6	R5,161.2	-1,172.3	3,356.8	R8,345.7
1992	157.6	1,170.0	1,327.6	832.1	R684.3	56.4	147.0	2,312.9	39.0	R579.0	3,936.5	154.4	75.8	R5,286.1	-1,208.8	R3,382.4	R8,481.7
1993	152.3	1,262.2	1,414.6	R1,049.8	R636.6	48.5	177.3	R2,351.1	R39.8	R594.5	R3,846.8	127.7	79.4	R5,519.8	-1,215.1	3,566.3	R8,770.9
1994	154.3	1,137.5	1,291.9	1,052.4	1,005.9	80.6	159.4	2,392.8	34.6	305.4	3,977.8	163.2	96.9	5,562.3	-1,211.0	3,580.4	8,911.5

R- Refined data

^a "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used in electric utilities), and the "other petroleum products" category described in Appendix A.

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

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

R- Refined data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 12. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1984, Alabama

Year	Primary Energy							Electricity	Total Energy ^c
	Coal	Natural Gas	Petroleum			Nuclear ^b	Total ^c		
			Distillate Fuel	Kerosene	LPG ^a				
Prices in Nominal Dollars per Million Btu									
1970	0.91	1.10	1.24	1.52	2.22	2.17	—	1.37	2.45
1971	0.94	1.15	1.36	1.67	2.26	2.28	—	1.44	2.64
1972	1.01	1.26	1.37	1.69	2.23	2.21	—	1.51	2.64
1973	1.17	1.23	1.31	1.94	4.07	3.86	—	2.02	3.45
1974	1.06	1.51	2.26	2.66	4.01	3.91	—	2.07	3.94
1975	1.32	1.52	2.59	3.31	4.32	4.22	—	2.19	4.48
1976	1.80	1.84	2.79	3.55	4.17	4.10	—	2.44	4.86
1977	2.01	2.84	3.28	3.84	4.77	4.66	—	2.84	5.89
1978	2.01	2.63	3.45	4.26	5.01	4.90	—	3.11	6.29
1979	2.76	3.56	4.57	6.78	7.64	7.42	—	4.14	7.74
1980	2.97	3.91	6.48	9.18	7.78	7.69	—	4.88	9.48
1981	3.71	4.51	8.95	11.14	8.92	8.32	—	5.24	10.27
1982	3.38	5.31	8.18	10.98	9.01	8.58	—	6.06	11.89
1983	3.88	6.06	4.93	9.75	9.26	9.36	—	6.84	12.44
1984	3.27	6.06	7.89	9.14	9.90	9.07	—	6.54	13.33
1985	3.19	6.16	7.86	8.88	9.49	8.49	—	6.46	13.32
1986	2.86	6.36	5.23	6.18	9.09	7.94	—	6.50	13.92
1987	2.98	6.43	5.13	5.84	8.69	8.54	—	6.73	12.97
1988	2.62	6.33	4.93	5.71	8.21	7.87	—	6.54	13.00
1989	2.64	6.09	5.52	6.40	9.25	9.88	—	6.82	13.24
1990	2.70	6.98	6.79	7.78	11.85	10.81	^d 4.95	^d 15.79	^d 12.51
1991	2.61	6.86	8.16	7.15	12.46	12.16	^d 5.53	^d 17.27	^d 12.96
1992	2.60	6.56	5.92	6.40	11.86	10.84	^d 5.53	^d 16.78	^d 12.50
1993	2.73	6.89	5.39	6.24	10.16	10.65	^d 5.53	^d 17.12	^d 13.21
1994	2.83	7.19	5.36	6.21	10.81	10.70	^d 5.53	^d 17.47	^d 13.35
Expenditures in Million Nominal Dollars									
1970	6.9	65.0	6.3	2.2	41.4	43.6	—	157.7	288.4
1971	6.9	65.1	6.3	1.6	45.9	46.8	—	112.7	316.3
1972	1.0	67.6	6.4	1.0	49.6	50.0	—	118.6	362.0
1973	6.9	76.2	6.6	2.7	80.4	83.7	—	189.8	448.1
1974	6.6	85.4	1.0	2.3	63.9	67.2	—	153.2	439.3
1975	6.8	92.0	1.1	2.8	62.8	68.4	—	148.6	517.3
1976	6.2	113.1	2.0	2.4	89.2	73.5	—	186.8	605.5
1977	6.5	130.3	2.1	3.4	83.6	89.2	—	220.1	782.4
1978	4.4	154.1	2.0	4.7	71.3	78.0	—	236.0	614.9
1979	3.6	191.8	2.4	5.2	66.9	74.5	—	269.0	902.3
1980	5.7	211.7	6.5	18.3	79.7	84.5	—	361.9	1,114.2
1981	2.9	239.6	0.9	11.7	78.4	90.9	—	392.3	1,211.2
1982	3.5	252.4	2.6	25.3	74.7	110.5	—	378.4	1,378.1
1983	4.6	300.4	1.3	33.2	91.2	125.8	—	430.2	1,476.8
1984	4.6	316.5	2.6	38.6	94.5	136.1	—	426.5	1,606.3
1985	3.4	288.1	1.8	3.7	83.6	88.9	—	382.5	1,454.9
1986	3.2	291.3	1.2	2.2	76.3	73.7	—	388.3	1,546.7
1987	3.4	325.9	0.9	2.0	96.0	92.9	—	422.2	1,587.4
1988	3.3	318.4	1.2	4.2	83.2	86.8	—	410.5	1,687.5
1989	1.6	301.7	1.1	2.9	103.5	107.5	—	410.8	1,717.5
1990	2.4	298.4	1.8	1.7	99.7	110.3	^d 28.9	^d 431.9	^d 1,797.3
1991	0.4	325.4	0.7	2.6	104.0	107.1	22.0	^d 454.5	^d 1,879.9
1992	2.8	334.6	0.3	1.1	88.9	90.3	23.1	^d 450.1	^d 1,883.1
1993	0.9	364.7	0.5	1.5	106.1	107.6	17.5	^d 480.2	^d 2,034.2
1994	0.5	368.6	0.4	1.0	118.0	111.4	17.2	^d 487.5	^d 2,047.4

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There were direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

R—Revised data.

—No consumption.

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

Source: Data sources, estimation procedures, and assumptions are reported in Appendix A.

Table 13. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Alabama

Year	Primary Energy								Electricity	Total Energy ^b	
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.28	0.58	0.97	0.75	1.08	2.82	0.36	1.53	0.75	5.39	1.98
1971	0.40	0.64	1.05	0.80	1.07	2.85	0.55	1.80	0.82	5.67	2.16
1972	0.57	0.71	1.05	0.80	1.67	2.95	0.58	1.71	0.89	6.00	2.32
1973	0.40	0.72	1.10	0.80	1.77	3.06	0.71	1.68	0.94	6.65	2.77
1974	0.83	0.85	1.89	1.86	3.02	4.14	1.08	2.73	1.25	7.86	3.35
1975	1.87	1.84	2.22	2.24	3.07	4.28	1.88	2.98	1.48	8.89	3.97
1976	1.21	1.55	2.45	2.44	3.94	4.70	1.85	3.14	1.95	9.95	4.36
1977	1.31	1.78	2.88	2.78	3.93	5.12	1.81	3.61	2.23	12.04	5.41
1978	1.47	2.03	2.90	3.14	3.79	5.27	1.74	3.72	2.42	12.17	5.78
1979	1.64	2.71	4.24	4.84	4.28	7.04	2.24	5.10	3.11	14.06	6.59
1980	1.73	3.27	4.22	5.81	4.28	8.89	3.28	6.61	3.78	16.19	8.44
1981	1.98	3.93	7.79	7.15	6.18	11.24	—	7.90	4.84	17.81	10.63
1982	2.02	4.59	7.32	7.63	6.25	10.61	3.95	7.19	4.86	19.00	11.93
1983	1.63	5.22	^R 6.13	4.58	6.00	9.07	4.15	^R 6.88	^R 5.38	20.45	^R 12.19
1984	1.67	5.27	^R 6.14	4.84	7.28	8.98	4.54	^R 6.90	^R 5.44	22.26	^R 12.94
1985	1.86	5.27	^R 6.13	^R 8.28	4.97	9.15	4.83	^R 6.82	^R 5.39	24.41	^R 11.41
1986	1.70	5.21	^R 6.89	^R 4.95	5.55	4.99	2.10	^R 5.82	^R 4.81	26.05	^R 11.40
1987	1.83	5.31	4.04	^R 5.76	4.91	7.27	2.87	^R 4.29	^R 4.78	19.36	^R 11.86
1988	1.60	5.13	^R 3.83	^R 5.13	4.88	7.21	1.99	^R 3.80	^R 4.62	18.29	^R 11.10
1989	1.65	5.01	^R 4.15	^R 6.08	7.50	7.98	2.28	^R 4.57	^R 4.78	19.65	^R 11.84
1990	1.65	5.28	^R 5.47	^R 7.79	8.47	8.98	2.88	^R 5.88	^R 5.17	19.52	^R 12.31
1991	1.84	5.50	^R 4.77	^R 6.78	9.36	8.50	2.12	^R 5.41	^R 5.51	19.62	^R 13.28
1992	1.61	5.55	^R 4.43	^R 8.45	9.19	8.67	—	^R 6.64	^R 5.42	19.91	^R 13.04
1993	1.59	5.01	^R 4.30	^R 6.29	9.24	^R 8.62	—	^R 5.65	^R 5.85	20.14	^R 13.57
1994	1.58	6.19	3.98	5.07	6.20	8.58	2.97	5.03	5.89	19.71	13.51
Expenditures in Million Nominal Dollars											
1970	0.8	21.8	1.5	1.8	5.2	8.8	(a)	14.2	94.6	94.8	131.2
1971	0.7	24.8	1.6	1.5	5.8	6.1	(a)	14.8	99.5	104.3	143.8
1972	0.7	27.4	2.5	0.9	6.4	8.4	(a)	16.3	44.3	116.1	162.3
1973	0.6	24.4	3.3	2.2	6.2	7.1	(a)	18.8	43.8	147.2	181.0
1974	0.5	30.9	6.4	2.8	8.5	9.7	(a)	27.2	58.6	174.8	233.4
1975	0.3	38.9	7.1	3.1	7.9	16.1	(a)	28.2	84.4	189.8	263.4
1976	0.2	55.0	12.8	2.9	9.8	11.5	(a)	37.0	92.2	211.1	300.3
1977	0.6	62.7	13.5	4.4	12.1	15.4	(a)	43.4	106.7	274.6	381.3
1978	4.2	62.0	12.6	6.3	9.5	13.9	(a)	42.3	105.5	283.7	382.2
1979	3.7	102.0	16.3	6.5	6.9	18.2	(a)	47.8	153.6	324.0	477.5
1980	8.2	98.5	23.2	5.9	8.9	13.4	8.1	51.5	184.2	367.2	561.3
1981	2.7	109.4	45.2	2.3	10.7	15.8	—	74.0	188.1	555.0	741.1
1982	3.9	124.8	10.1	13.2	9.1	14.9	4.0	51.3	180.0	631.8	811.8
1983	4.0	144.5	^R 34.1	3.5	12.0	12.1	0.0	^R 62.2	^R 210.7	658.5	^R 880.2
1984	4.2	150.0	^R 33.5	6.4	3.4	10.8	0.4	^R 60.5	^R 214.7	682.0	^R 868.7
1985	3.8	141.3	^R 48.0	8.7	8.8	12.1	13.8	^R 78.4	^R 229.4	801.1	^R 894.5
1986	3.6	135.7	^R 20.3	^R 0.8	8.5	8.3	7.6	^R 48.5	^R 185.6	635.2	^R 820.8
1987	3.5	122.7	27.1	^R 1.8	8.0	8.9	8.4	^R 54.0	^R 180.1	656.1	^R 836.3
1988	4.0	135.0	^R 23.8	^R 0.4	8.7	8.2	8.8	^R 51.0	^R 189.9	674.0	^R 863.9
1989	1.9	136.8	^R 29.7	^R 0.5	14.8	9.3	7.5	^R 61.9	^R 200.3	745.0	^R 945.3
1990	2.8	131.8	^R 34.4	0.5	14.6	12.1	98.2	^R 72.8	^R 288.8	772.8	^R 978.6
1991	0.4	136.1	^R 27.5	0.8	13.6	7.3	3.3	^R 52.2	^R 188.8	808.0	^R 956.8
1992	2.2	144.1	^R 28.6	^R 0.8	13.0	6.3	—	^R 48.5	^R 192.8	785.0	^R 977.8
1993	1.0	^R 150.2	^R 23.0	^R 0.5	16.3	1.9	—	^R 42.2	^R 202.4	818.0	^R 1,020.4
1994	0.3	182.9	24.8	0.3	14.9	1.9	(a)	41.8	205.6	841.0	1,046.0

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.^RRevised data.

—No consumption.

(a)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 14. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Alabama

Year	Primary Energy															Electricity	Total Energy ^d
	Coal			Natural Gas	Petroleum									Biomass ^c	Total ^e		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	8.42	8.28	0.40	0.32	6.88	6.89	6.75	1.88	3.98	2.82	0.51	6.72	8.92	—	6.44	2.24	8.63
1971	0.46	0.40	0.45	0.38	0.68	0.74	0.80	1.67	5.27	2.86	0.68	0.79	0.99	—	0.50	2.63	0.73
1972	0.53	0.37	0.49	0.41	0.76	0.74	0.80	1.67	5.58	2.96	0.68	0.75	1.01	—	0.55	2.87	0.80
1973	0.64	0.40	0.59	0.46	0.81	0.82	0.89	1.77	5.33	3.08	0.72	0.82	1.04	—	0.64	2.99	0.94
1974	1.27	0.53	1.17	0.56	1.25	1.72	1.66	3.02	7.22	4.14	1.73	1.31	1.64	—	1.13	3.99	1.46
1975	1.50	1.87	1.39	0.73	1.85	2.84	2.24	3.87	7.48	4.28	1.74	1.66	2.10	—	1.36	5.80	1.95
1976	1.49	1.21	1.44	1.07	1.72	2.22	2.44	3.34	7.05	4.70	1.73	2.23	2.16	—	1.55	5.74	2.17
1977	2.06	1.31	1.90	1.29	1.95	2.67	2.75	3.93	8.97	5.12	1.97	2.49	2.46	—	1.92	6.81	2.89
1978	1.82	1.47	1.73	1.60	2.16	2.87	3.14	3.78	7.60	6.27	1.97	2.53	2.58	—	1.97	7.56	2.93
1979	1.80	1.56	1.73	2.27	2.55	3.65	4.84	4.39	10.21	7.04	2.38	3.54	3.34	—	2.30	8.97	3.96
1980	1.96	1.73	1.89	2.48	3.02	5.28	5.91	5.28	14.36	8.39	2.88	5.88	4.88	—	2.88	10.29	4.89
1981	2.07	1.98	2.03	3.05	4.65	6.63	7.15	6.16	19.00	11.24	4.04	9.49	6.72	—	3.58	12.11	4.91
1982	2.18	2.02	2.10	4.03	4.58	9.42	7.03	6.25	17.25	10.61	3.95	7.64	6.07	—	3.91	13.82	5.94
1983	2.03	1.93	1.97	4.34	4.56	9.40	6.58	6.90	15.99	9.07	3.85	7.39	6.25	—	3.98	14.56	6.72
1984	2.03	1.87	1.86	4.23	4.41	8.41	6.64	7.38	17.63	8.99	4.54	7.20	6.44	—	3.77	14.22	6.51
1985	2.82	1.88	1.85	4.08	4.72	8.88	6.20	4.97	17.61	9.15	4.02	7.07	6.38	—	3.71	13.50	6.54
1986	1.81	1.76	1.78	3.54	4.80	8.57	6.95	5.55	15.59	6.98	2.16	4.21	4.71	—	3.09	13.34	6.04
1987	1.71	1.63	1.67	3.01	3.37	8.29	6.79	4.91	12.70	7.27	2.67	5.03	4.51	—	2.82	13.23	5.77
1988	1.70	1.60	1.65	2.92	3.07	8.91	6.13	4.86	14.61	7.21	1.99	4.19	4.10	—	2.65	12.96	5.63
1989	1.74	1.65	1.71	2.93	2.86	8.51	6.08	7.50	14.48	7.95	2.38	5.07	4.63	—	2.67	12.72	5.71
1990	1.83	1.65	1.79	3.07	2.84	8.78	6.79	8.47	14.68	8.98	2.83	6.12	6.48	1.28	3.04	12.72	6.72
1991	1.80	1.64	1.74	2.92	3.31	8.00	6.79	9.38	16.79	8.69	2.13	5.64	5.11	1.38	2.67	12.91	6.80
1992	1.78	1.61	1.70	2.89	2.03	8.79	6.45	9.15	19.49	8.67	2.13	5.85	4.74	1.37	2.75	12.57	6.43
1993	1.77	1.59	1.70	2.19	2.36	8.47	6.29	9.24	19.94	8.62	2.06	5.05	4.70	1.31	2.64	12.71	6.57
1994	1.77	1.56	1.69	2.16	2.44	4.41	5.84	4.84	19.18	8.55	2.24	4.90	4.38	1.28	2.74	12.07	4.35
Expenditures in \$Billion Nominal Dollars																	
1970	89.4	18.8	118.2	84.2	13.7	11.4	2.7	9.8	12.0	8.0	4.4	7.7	84.9	—	294.3	195.3	599.6
1971	94.5	24.8	119.2	59.6	13.5	11.5	2.4	10.5	12.6	3.0	4.4	11.2	69.1	—	247.9	153.8	401.7
1972	113.9	22.9	136.7	64.5	17.0	16.1	1.7	12.7	14.3	3.0	4.2	12.0	81.0	—	262.2	181.4	483.6
1973	126.5	22.9	151.1	69.9	19.5	20.5	2.4	14.1	17.3	3.2	15.8	12.0	104.5	—	324.4	217.3	541.8
1974	206.6	46.9	292.8	84.6	25.6	45.0	3.3	21.9	22.4	3.0	80.9	19.4	191.6	—	559.0	296.5	846.5
1975	288.2	83.8	382.8	162.4	33.2	68.4	3.6	28.1	28.0	4.4	61.1	29.9	234.9	—	690.1	372.7	1,062.8
1976	286.5	47.4	315.9	119.0	33.8	65.6	3.3	20.0	20.9	2.4	72.1	37.3	275.6	—	710.5	448.7	1,159.1
1977	312.1	54.3	366.4	154.4	41.4	105.8	6.0	27.4	21.4	3.6	96.0	52.4	354.1	—	874.8	583.0	1,457.8
1978	248.5	68.6	313.1	184.8	53.3	113.9	8.7	26.5	25.1	2.8	87.8	50.7	369.5	—	986.8	687.8	1,554.1
1979	286.9	98.4	365.3	318.4	53.3	100.8	19.9	46.2	35.2	2.1	93.0	81.4	412.0	—	1,113.7	851.0	1,964.7
1980	354.7	98.2	363.9	264.1	62.8	100.8	29.5	32.8	44.1	5.4	70.5	85.3	431.3	—	1,188.2	812.1	2,000.3
1981	214.1	110.8	324.9	472.2	120.6	171.2	11.6	28.6	63.0	9.7	54.7	258.9	706.4	—	1,803.6	836.2	2,439.8
1982	143.8	135.0	278.8	539.3	108.9	143.9	34.5	34.6	46.3	3.9	64.0	172.4	629.6	—	1,445.7	886.1	2,311.8
1983	100.9	131.3	232.2	500.1	112.6	189.5	11.5	26.0	47.8	3.2	30.6	149.2	540.7	—	1,270.0	813.0	2,103.1
1984	169.7	139.3	297.0	515.4	106.0	158.9	14.5	20.9	62.8	16.5	24.1	143.1	636.1	—	1,350.5	1,067.3	2,417.8
1985	155.1	115.1	272.2	496.5	117.7	130.2	9.8	18.4	49.2	24.4	2.2	136.6	478.8	—	1,280.2	1,036.4	2,316.6
1986	129.4	112.0	241.4	368.8	113.5	87.4	11.0	21.6	42.6	15.6	6.0	91.5	379.3	—	987.5	1,032.6	2,100.4
1987	144.5	107.0	251.5	312.1	102.0	111.4	10.9	21.9	39.3	16.7	7.0	107.1	406.4	—	970.0	1,049.6	2,019.6
1988	154.0	114.4	268.3	267.2	84.1	97.4	10.8	19.3	43.5	14.6	6.6	92.9	360.0	—	994.5	1,085.7	2,080.3
1989	154.7	94.5	249.2	387.0	85.0	135.9	10.6	30.5	44.3	20.7	3.5	108.4	438.9	—	1,073.1	1,087.7	2,160.8
1990	168.8	98.9	261.7	402.3	94.3	225.9	8.7	27.3	49.9	20.8	5.4	148.7	457.9	44.5	1,257.6	1,096.5	2,354.1
1991	163.0	99.7	252.7	402.4	116.0	188.9	9.9	33.6	47.3	18.6	0.6	112.0	467.7	52.5	1,195.4	1,123.7	2,319.1
1992	157.6	124.7	282.3	445.8	66.6	150.4	11.3	42.3	55.7	19.8	2.2	114.4	452.8	52.5	1,233.4	1,184.4	2,387.8
1993	152.3	88.4	240.7	513.4	78.6	124.7	10.8	51.6	55.3	18.4	0.8	102.4	446.6	61.8	1,262.6	1,204.3	2,466.9
1994	154.3	93.4	247.8	511.9	81.9	131.2	1.1	28.9	56.8	28.5	11.7	101.9	443.8	69.6	1,273.2	1,189.4	2,442.6

^a Liquefied petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 15. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Alabama

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Diesel Fuel	Jet Fuel	LPQ *	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.26	—	2.17	1.33	0.73	1.58	5.08	2.82	8.34	2.48	2.48	—	2.48
1971	0.40	—	2.21	1.35	0.78	1.67	5.27	2.85	0.49	2.51	2.51	—	2.51
1972	0.37	—	2.19	1.42	0.76	1.67	5.58	2.95	0.49	2.58	2.58	—	2.58
1973	0.40	—	2.36	1.75	0.90	1.77	5.33	3.06	0.63	2.69	2.69	—	2.69
1974	0.83	—	3.23	2.73	1.66	3.02	7.22	4.14	1.47	3.56	3.56	—	3.56
1975	1.87	—	3.48	2.92	2.03	3.07	7.48	4.26	1.47	3.67	3.67	—	3.67
1976	1.21	—	3.59	3.08	2.18	3.34	7.05	4.70	1.54	4.01	4.01	—	4.01
1977	1.31	—	3.97	3.24	2.55	3.93	8.97	5.12	1.81	4.30	4.30	—	4.30
1978	—	—	4.20	3.30	2.88	3.76	7.60	5.27	1.54	4.43	4.43	—	4.43
1979	—	—	3.73	4.79	3.90	4.36	10.21	7.04	1.97	6.26	6.26	—	6.26
1980	—	—	9.02	8.99	6.39	5.88	14.36	9.69	2.89	8.78	8.78	—	8.78
1981	—	—	10.64	8.56	7.67	6.16	18.00	11.24	3.69	10.27	10.27	—	10.27
1982	—	—	10.92	8.10	7.42	6.25	17.25	10.61	3.56	9.72	9.72	—	9.72
1983	—	—	10.44	7.05	^A 6.74	6.90	16.96	9.07	3.92	^A 8.49	^A 8.49	—	^A 8.49
1984	—	—	10.27	6.63	^A 6.52	7.38	17.63	8.96	4.46	^A 8.33	^A 8.33	—	^A 8.33
1985	—	—	9.99	6.34	6.17	4.97	17.61	9.15	3.72	8.34	8.34	—	8.34
1986	—	—	8.41	6.35	4.45	5.56	15.59	6.99	1.85	6.66	6.66	—	6.66
1987	—	—	7.55	6.73	4.36	4.91	12.70	7.27	1.92	6.69	6.69	—	6.69
1988	—	—	7.41	6.41	4.07	4.89	14.61	7.21	2.79	6.93	6.93	—	6.93
1989	—	—	8.28	7.06	4.84	7.50	14.48	7.96	2.15	7.41	7.41	—	7.41
1990	—	0.72	9.32	8.08	5.98	8.47	14.08	8.86	2.02	8.37	8.37	—	8.37
1991	—	—	8.71	7.57	5.03	8.36	16.79	8.60	1.71	7.98	7.98	—	7.98
1992	—	8.28	8.54	7.72	4.73	8.16	19.43	8.67	1.65	8.00	8.00	—	8.00
1993	—	4.47	8.24	7.78	4.41	8.24	18.34	^A 8.62	1.69	^A 8.00	^A 8.00	—	^A 8.00
1994	—	4.12	7.96	7.62	4.11	8.04	19.18	8.56	1.54	7.94	7.94	—	7.94
Expenditure in Million Nominal Dollars													
1970	0.1	—	3.8	41.3	7.2	0.8	13.8	828.4	3.8	606.3	606.4	—	606.4
1971	0.1	—	4.0	45.6	7.5	0.7	14.0	875.6	4.5	651.8	651.9	—	651.9
1972	0.1	—	4.0	61.2	7.1	0.6	15.8	831.4	4.5	724.8	724.8	—	724.8
1973	0.1	—	3.9	88.6	8.4	0.6	16.4	697.5	10.0	824.6	824.6	—	824.6
1974	0.1	—	5.0	146.8	14.7	1.0	20.0	947.0	50.6	1,184.6	1,184.7	—	1,184.7
1975	(8)	—	4.3	194.6	18.1	1.0	27.4	996.1	65.2	1,268.8	1,268.8	—	1,268.8
1976	(8)	—	4.2	179.6	19.9	1.3	28.9	1,158.9	70.4	1,462.5	1,462.5	—	1,462.5
1977	(8)	—	4.9	215.4	25.0	1.6	20.5	1,306.6	82.4	1,656.5	1,656.5	—	1,656.5
1978	—	—	6.2	257.0	28.6	1.7	24.0	1,367.4	73.2	1,747.2	1,747.2	—	1,747.2
1979	—	—	6.6	259.7	30.9	1.0	33.8	1,751.3	43.6	2,133.1	2,133.1	—	2,133.1
1980	—	—	11.3	449.6	72.3	0.9	42.3	2,262.5	94.6	2,923.8	2,923.8	—	2,923.8
1981	—	—	12.4	612.7	74.6	3.0	50.9	2,514.7	90.7	3,318.9	3,318.9	—	3,318.9
1982	—	—	8.5	538.7	64.9	3.7	44.4	2,373.9	51.7	3,078.9	3,078.9	—	3,078.9
1983	—	—	9.3	409.4	^A 61.3	4.9	48.8	2,051.7	80.4	^A 2,632.8	^A 2,632.8	—	^A 2,632.8
1984	—	—	9.9	439.6	^A 134.3	6.9	60.7	2,057.4	49.1	^A 2,740.5	^A 2,740.5	—	^A 2,740.5
1985	—	—	8.7	426.4	121.8	2.6	47.2	2,853.8	36.4	2,890.8	2,890.8	—	2,890.8
1986	—	—	8.7	415.0	93.5	3.0	46.8	1,879.9	15.7	2,258.6	2,258.6	—	2,258.6
1987	—	—	6.4	510.9	95.2	1.8	37.7	1,622.0	18.0	2,491.0	2,491.0	—	2,491.0
1988	—	—	5.9	546.8	92.2	1.8	41.6	1,800.4	38.7	2,476.3	2,476.3	—	2,476.3
1989	—	—	5.5	742.6	52.7	2.4	42.5	2,037.0	36.1	2,920.9	2,920.9	—	2,920.9
1990	—	(8)	5.4	823.6	63.1	3.8	44.0	2,270.4	36.9	3,245.7	3,245.7	—	3,245.7
1991	—	—	4.8	763.6	83.6	3.2	48.3	2,234.6	34.7	3,149.9	3,149.9	—	3,149.9
1992	—	(6)	4.6	609.2	55.4	2.8	53.5	2,286.8	38.6	3,243.0	3,243.0	—	3,243.0
1993	—	(3)	4.3	764.2	45.5	3.9	53.1	^A 2,322.9	32.7	^A 3,249.5	^A 3,249.5	—	^A 3,249.5
1994	—	(6)	4.4	843.4	60.6	3.8	56.2	2,362.5	22.8	3,375.6	3,375.6	—	3,375.6

* Liquefied petroleum gases.

R- Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(8)-Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 16. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Alabama

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Hydro	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Price in Realized Dollars per Million Btu									
1970	0.26	0.26	—	0.01	0.17	0.28	—	—	0.28
1971	0.35	0.31	—	0.02	0.16	0.27	—	—	0.34
1972	0.38	0.34	—	0.03	0.16	0.40	—	—	0.39
1973	0.42	0.36	—	0.09	0.26	0.57	0.11	—	0.42
1974	0.75	0.85	—	2.04	0.34	0.86	0.12	—	0.86
1975	4.92	1.88	1.88	2.46	—	2.88	0.14	—	6.88
1976	1.01	1.85	1.88	2.38	—	2.23	0.15	—	6.04
1977	1.13	1.75	1.78	2.67	—	2.80	0.16	—	6.84
1978	1.38	2.08	1.76	2.73	—	2.85	0.27	—	6.95
1979	1.48	2.28	2.18	4.14	—	3.80	0.24	—	1.07
1980	1.61	2.82	—	6.36	—	6.36	0.33	—	1.17
1981	1.89	2.90	—	7.80	—	7.80	0.43	—	1.37
1982	2.03	3.00	—	7.12	—	7.12	0.42	—	1.31
1983	2.02	3.13	—	6.28	—	6.28	0.45	—	1.40
1984	2.04	3.28	—	6.15	—	6.15	0.84	—	1.51
1985	2.02	3.17	—	6.88	—	6.88	0.77	—	1.74
1986	1.91	2.47	—	5.40	—	5.40	0.70	—	1.68
1987	1.92	2.10	—	4.83	—	4.83	0.89	—	1.68
1988	1.95	2.07	—	3.67	—	3.67	0.85	—	1.68
1989	1.87	2.21	—	4.14	—	4.14	0.89	—	1.83
1990	1.84	2.18	—	5.57	—	5.57	0.88	—	1.80
1991	1.81	1.87	—	5.12	—	5.12	0.71	—	1.56
1992	1.73	2.23	—	4.80	—	4.80	0.75	—	1.48
1993	1.70	2.80	—	4.25	—	4.25	0.67	—	1.53
1994	1.67	2.34	—	4.02	—	4.02	0.70	—	1.43
Expenditure in Million Realized Dollars									
1970	98.6	4.2	—	8.1	0.4	6.8	—	—	109.4
1971	123.7	3.2	—	8.5	0.6	1.1	—	—	128.1
1972	147.3	1.0	—	2.7	0.8	3.5	—	—	152.3
1973	180.9	1.8	—	4.1	0.8	5.0	0.4	—	187.4
1974	306.8	4.4	—	7.5	2.8	10.3	0.5	—	339.6
1975	367.5	6.7	1.9	6.5	—	7.8	4.2	—	385.8
1976	415.0	7.5	1.5	8.7	—	10.2	7.0	—	438.7
1977	493.3	7.7	2.1	13.0	—	15.2	37.3	—	553.5
1978	529.4	10.6	1.0	17.1	—	18.1	68.8	—	623.4
1979	601.8	17.7	0.4	2.8	—	3.0	88.2	—	748.7
1980	735.2	4.1	—	4.8	—	4.8	88.2	—	893.4
1981	882.7	5.8	—	4.4	—	4.4	112.4	—	1,005.3
1982	760.8	4.5	—	2.8	—	2.6	128.1	—	898.2
1983	631.5	1.9	—	4.7	—	4.7	183.4	—	861.8
1984	672.1	1.3	—	2.0	—	2.8	186.3	—	1,044.3
1985	1,048.4	3.8	—	3.1	—	3.1	118.7	—	1,174.9
1986	906.8	2.0	—	1.4	—	1.4	87.5	—	1,008.6
1987	975.7	3.3	—	1.4	—	1.4	88.3	—	1,063.7
1988	947.4	5.5	—	3.7	—	3.7	80.1	—	1,048.7
1989	981.4	4.0	—	5.2	—	5.2	74.4	—	1,065.0
1990	984.2	9.1	—	4.8	—	4.3	71.7	—	1,068.2
1991	1,036.7	7.8	—	4.9	—	4.9	128.9	—	1,172.2
1992	1,041.8	7.7	—	3.8	—	3.8	154.4	—	1,208.8
1993	1,171.8	12.3	—	3.2	—	3.2	127.7	—	1,315.1
1994	1,043.5	9.1	—	5.1	—	5.1	153.2	—	1,211.8

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
 —No consumption.

Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and interruptions are described in Appendix A.

Table 17. Energy Price and Expenditure Estimates by Source, 1970-1994, Alaska

Year	Primary Energy													Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy *	
	Coal			Natural Gas	Petroleum						Nuclear Fuel	Distillate	Total ^c				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b							Total
Prices in Nominal Dollars per Million Btu																	
1970	—	8.92	8.92	8.67	1.16	8.73	2.88	3.19	1.37	R1.88	1.33	—	—	1.12	8.88	9.82	1.39
1971	—	8.86	8.86	8.77	1.22	8.77	2.98	3.28	1.28	R1.66	1.36	—	—	1.18	8.88	9.18	1.47
1972	—	8.67	8.67	8.61	1.28	8.76	2.43	3.21	1.17	R1.87	1.42	—	—	1.22	8.83	8.93	1.55
1973	—	1.02	1.02	0.74	R1.52	0.91	3.85	3.46	0.97	R1.86	R1.68	—	—	R1.31	R0.72	9.43	1.80
1974	—	1.05	1.05	0.76	2.08	1.57	4.00	4.78	2.23	R2.92	2.88	—	—	2.01	0.82	9.61	2.48
1975	—	1.48	1.48	0.88	2.28	2.44	3.88	6.15	2.94	R3.38	3.08	—	—	2.21	0.86	9.61	2.71
1976	—	1.31	1.31	0.98	3.11	2.32	3.80	6.38	2.59	R3.29	3.26	—	—	2.42	1.45	10.09	2.85
1977	—	1.38	1.38	1.08	3.49	2.82	3.73	6.88	2.88	R3.24	3.82	—	—	2.85	1.21	11.71	3.09
1978	—	1.29	1.29	1.07	3.71	2.58	6.85	6.08	2.47	R3.63	3.72	—	—	2.88	1.35	12.34	3.09
1979	—	1.31	1.31	1.04	5.13	3.78	6.74	7.59	3.40	R5.35	5.10	—	—	2.98	1.57	12.94	3.60
1980	—	1.91	1.91	0.62	6.82	6.21	6.88	18.28	4.87	R7.24	7.08	—	—	4.08	1.25	15.08	5.08
1981	—	4.11	4.11	0.78	8.40	7.58	7.88	11.58	8.37	R9.16	8.80	—	—	6.21	1.94	18.48	8.44
1982	—	4.88	4.88	0.92	7.38	7.37	8.88	11.35	6.15	R7.48	8.11	—	—	4.79	1.54	21.01	8.05
1983	—	3.59	3.59	1.19	R7.56	R6.72	10.84	10.48	4.38	R7.91	R7.67	—	—	R4.72	2.04	22.35	6.08
1984	—	3.57	3.57	1.24	R7.48	R6.47	11.05	10.07	6.88	R7.58	R7.38	—	—	R4.82	1.95	24.07	R5.16
1985	—	3.85	3.85	1.28	R7.62	6.87	13.82	9.83	R4.88	R6.91	R7.01	—	—	R4.78	1.71	24.52	R6.97
1986	—	3.28	3.28	1.48	R6.35	4.18	11.59	7.88	R2.80	R5.60	R4.94	—	—	R5.83	1.48	24.90	R6.01
1987	—	2.00	2.00	1.42	R6.28	4.13	11.58	7.90	R3.15	R5.64	R5.26	—	—	R5.88	1.87	26.84	R6.16
1988	—	2.64	2.64	1.78	R6.84	4.14	11.37	8.14	R4.39	R5.87	R5.82	—	—	R4.88	2.13	28.26	R6.47
1989	—	1.86	1.86	1.82	R7.54	4.88	14.88	8.65	3.80	R7.28	R6.21	—	—	R4.88	1.88	27.06	R6.22
1990	—	3.78	3.78	1.86	R8.38	6.17	16.58	18.08	R6.38	R7.88	R7.88	—	—	R4.88	2.37	27.88	R6.88
1991	—	4.02	4.02	1.88	R7.52	5.50	15.88	8.58	R3.17	R7.95	R4.70	—	—	R4.80	1.61	28.75	R6.38
1992	—	4.16	4.16	1.75	R7.51	5.15	14.88	8.85	R3.18	R7.81	R4.78	—	—	R4.74	1.91	29.22	R6.31
1993	—	4.77	4.77	1.87	R7.44	4.88	R14.35	R9.88	R3.08	R10.85	R5.78	—	—	R4.78	1.89	29.72	R6.48
1994	—	2.85	2.85	1.85	6.97	4.53	13.94	10.48	3.77	10.85	8.58	—	—	4.83	1.76	30.03	6.45
Expenditures in Million Nominal Dollars																	
1970	—	12.1	12.1	28.2	33.3	37.5	1.1	48.8	8.7	R8.9	122.7	—	—	161.0	-8.8	33.9	198.9
1971	—	12.0	12.0	38.3	44.8	32.5	1.4	48.5	8.5	R7.8	143.3	—	—	165.5	-12.0	46.5	214.0
1972	—	11.1	11.1	57.3	45.3	34.4	1.5	62.2	8.5	R8.2	161.0	—	—	200.4	-12.6	45.4	242.8
1973	—	13.8	13.8	81.9	R68.4	37.8	2.9	88.2	8.2	R8.1	R168.5	—	—	R214.8	R-16.4	48.0	248.5
1974	—	13.2	13.2	33.8	105.1	65.8	2.3	88.6	14.3	R14.9	294.8	—	—	338.3	-20.2	52.7	370.7
1975	—	21.4	21.4	54.5	195.6	85.0	2.8	113.8	18.7	R21.2	384.8	—	—	428.9	R-28.9	85.8	468.9
1976	—	18.0	18.0	64.7	170.4	98.7	4.2	132.4	21.2	R19.0	445.8	—	—	608.5	-35.3	80.3	570.5
1977	—	13.8	13.8	96.7	205.8	118.4	4.6	144.5	31.3	R20.4	821.3	—	—	830.9	-43.6	87.0	684.3
1978	—	6.1	6.1	120.9	232.4	130.0	8.7	145.1	38.0	R22.8	577.2	—	—	704.1	R-48.6	106.0	784.5
1979	—	5.5	5.5	132.8	171.5	180.7	4.4	185.8	8.8	R57.8	608.0	—	—	746.3	-58.6	108.3	794.9
1980	—	8.2	8.2	84.8	284.8	236.7	4.2	185.8	8.4	R43.4	893.7	—	—	828.4	-48.8	128.5	1,007.2
1981	—	81.4	81.4	88.1	318.8	482.7	3.7	271.7	12.7	R50.8	1,121.3	—	—	1,241.8	-78.5	178.8	1,546.0
1982	—	83.9	83.9	111.2	289.8	478.5	5.8	383.4	9.8	R65.8	1,162.3	—	—	1,320.5	-64.3	228.8	1,480.8
1983	—	43.4	43.4	138.7	R321.4	R461.8	7.4	281.2	15.7	R42.8	R1,170.1	—	—	R1,292.1	-85.0	289.5	R1,486.5
1984	—	46.0	46.0	148.0	R346.3	R663.3	10.1	281.7	18.8	R48.8	R1,257.1	—	—	R1,449.2	-88.9	288.0	R1,884.3
1985	—	42.3	42.3	182.4	R488.1	528.3	15.2	281.2	18.2	R65.1	R1,222.8	—	—	R1,887.5	-77.0	334.5	R1,881.5
1986	—	41.1	41.1	185.8	R277.5	378.8	10.3	284.1	R182.3	R180.4	R1,183.8	—	—	R1,300.1	-68.3	338.5	R1,863.2
1987	—	8.7	8.7	158.4	R201.8	345.8	10.4	215.4	R172.6	R172.6	R1,108.7	—	—	R1,287.7	-73.6	351.4	R1,847.3
1988	—	11.5	11.5	487.1	R338.2	384.0	10.8	227.7	R184	R48.4	R1,091.5	—	—	R1,230.2	-84.0	368.8	R1,504.8
1989	—	9.2	9.2	487.4	R485.3	491.0	14.7	230.7	8.5	R38.4	R1,288.8	—	—	R1,463.2	-78.4	380.1	R1,764.8
1990	—	47.8	47.8	223.7	R585.5	684.3	28.5	268.8	13.0	R38.2	R1,548.4	—	—	R1,855.4	-182.1	488.8	R2,128.2
1991	—	51.0	51.0	212.4	R429.1	529.3	22.3	238.4	R10.0	R43.8	R1,272.0	—	—	R1,541.2	-73.5	414.8	R1,982.4
1992	—	52.1	52.1	210.8	R442.8	458.8	28.8	357.3	R13.3	R37.4	R1,288.1	—	—	R1,515.9	-72.1	428.9	R1,874.7
1993	—	85.0	85.0	213.5	R404.3	412.5	R12.1	R312.3	R11.7	R31.8	R1,184.8	—	—	R1,448.1	-71.2	440.7	R1,837.8
1994	—	38.4	38.4	182.5	322.3	413.2	11.3	389.5	12.1	22.0	1,140.4	—	—	1,370.8	-87.7	461.8	1,784.3

^a Liquefied petroleum gases.^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (fuel oil) and used oil electric utilities, and the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of distillate beginning in 1990.

R-Rounded data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 18. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Alaska

Year	Primary Energy							Electricity	Total Energy ^c	
	Coal	Natural Gas	Petroleum				Biofuels ^b			Total ^c
			Distillate Fuel	Kerosene	LPG ^a	Total				
Prices in Nominal Dollars per Million Btu										
1970	2.47	1.81	1.48	1.81	2.93	1.46	—	1.46	9.29	2.34
1971	2.40	1.52	1.48	1.67	3.17	1.54	—	1.54	9.31	2.37
1972	2.28	1.55	1.49	1.87	3.35	1.67	—	1.66	10.29	2.69
1973	2.44	1.66	1.71	1.84	5.25	1.87	—	1.77	9.53	2.78
1974	2.54	1.57	2.69	2.97	5.49	2.73	—	2.41	9.83	3.49
1975	3.87	1.82	2.99	3.29	8.07	2.90	—	2.28	16.16	3.27
1976	2.79	1.85	3.11	3.53	6.35	3.21	—	2.47	10.89	3.53
1977	2.86	1.70	3.34	3.80	7.08	3.41	—	2.83	12.25	3.66
1978	—	1.79	3.94	4.38	7.04	3.93	—	2.99	13.12	4.19
1979	—	1.71	4.82	5.39	8.39	5.27	—	3.78	13.51	5.46
1980	—	1.73	7.06	—	12.23	7.21	—	4.31	16.18	6.87
1981	9.82	1.95	8.51	—	12.99	8.83	—	5.48	17.85	6.00
1982	10.15	1.80	8.48	—	13.97	8.67	—	5.27	21.01	8.30
1983	7.90	2.33	7.84	0.40	14.54	8.20	—	5.15	24.54	9.85
1984	7.93	2.48	7.71	8.87	14.33	6.16	—	5.21	24.78	8.95
1985	7.75	3.79	7.81	8.99	13.97	8.32	—	5.28	28.86	9.16
1986	7.69	3.22	6.84	7.88	13.14	7.36	—	5.11	28.46	9.46
1987	—	3.15	6.24	7.18	13.02	6.63	—	4.72	28.78	9.31
1988	—	3.45	6.27	7.21	12.88	6.78	—	4.75	28.39	9.68
1989	—	3.84	6.95	8.00	15.88	7.63	—	5.29	28.72	9.88
1990	7.98	4.08	7.94	9.34	16.85	8.78	4.75	6.31	29.64	9.88
1991	10.99	4.17	7.67	8.71	17.04	8.83	4.75	6.56	31.28	10.28
1992	7.92	3.78	6.78	7.80	16.84	7.77	4.76	6.69	31.81	9.80
1993	7.98	3.99	6.83	7.99	16.45	7.66	4.76	6.65	32.74	10.12
1994	2.95	3.80	6.24	7.18	16.76	6.91	4.75	6.65	33.18	9.37

Expenditures in \$1989 Nominal Dollars										
1970	0.4	9.4	11.1	0.2	0.8	12.1	—	21.9	16.7	38.6
1971	0.3	10.6	15.6	0.2	1.1	16.7	—	27.8	20.1	47.6
1972	0.4	13.0	12.2	0.1	1.2	13.8	—	26.9	22.0	49.0
1973	0.2	7.9	17.1	0.1	2.8	19.8	—	27.0	22.3	50.2
1974	0.3	8.6	26.4	1.3	1.7	29.4	—	36.3	25.3	61.6
1975	0.3	16.9	26.4	1.7	1.8	29.6	—	46.8	31.1	77.9
1976	0.2	18.0	36.2	0.6	2.3	39.1	—	57.4	36.6	94.0
1977	0.2	19.3	43.9	0.9	1.6	46.3	—	65.9	44.8	110.6
1978	—	21.4	59.3	1.0	2.9	63.2	—	64.8	49.7	134.3
1979	—	12.5	27.0	23.3	3.2	63.4	—	85.9	49.2	115.1
1980	—	13.8	48.2	—	2.8	60.8	—	84.8	60.3	124.8
1981	25.1	15.4	48.1	—	1.9	47.0	—	87.6	73.9	161.5
1982	28.0	19.0	55.5	—	3.5	58.9	—	108.8	100.9	208.8
1983	20.3	24.4	54.6	0.1	5.6	60.3	—	105.0	119.2	224.2
1984	22.0	29.4	60.6	0.2	5.0	68.7	—	120.1	135.1	255.2
1985	18.7	37.8	58.6	0.1	8.6	86.3	—	125.3	148.3	273.8
1986	21.9	39.3	42.4	(e)	7.3	49.7	—	111.0	146.8	257.8
1987	—	39.3	58.6	(e)	7.5	66.2	—	105.5	151.9	257.4
1988	—	43.4	45.9	0.1	7.9	64.8	—	98.3	154.0	252.3
1989	—	49.3	61.5	(e)	11.8	73.0	—	122.4	181.0	283.4
1990	21.7	63.7	68.7	0.1	18.1	86.8	4.9	178.3	188.8	346.3
1991	30.6	56.7	70.4	0.4	19.9	90.7	4.1	182.1	171.0	363.1
1992	22.5	54.4	63.4	(e)	18.3	81.7	4.3	143.0	178.0	341.0
1993	24.8	54.9	51.6	(e)	10.7	82.9	3.6	145.6	182.0	327.6
1994	8.5	53.6	45.6	0.4	9.7	64.6	3.5	120.3	191.0	311.9

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.^e Revised data.

—No consumption.

(s)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 19. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Alaska

Year	Primary Energy								Electricity	Total Energy ²	
	Coal	Natural Gas	Petroleum					Total			
			Diesel Fuel	Kerosene	LPG ¹	Motor Gasoline	Residential Fuel				
Prices in Nominal Dollars per Million Btu											
1970	1.01	0.88	1.21	—	1.10	3.18	1.49	1.88	1.06	9.48	1.67
1971	0.89	0.73	1.28	—	1.17	3.26	1.36	1.48	1.01	9.69	1.58
1972	0.94	0.81	1.28	—	1.18	3.21	1.26	1.71	1.16	10.38	1.81
1973	1.10	0.77	1.51	—	1.28	3.48	1.04	1.74	1.18	9.86	2.03
1974	1.19	0.87	2.47	—	2.30	4.78	2.40	2.90	1.75	9.96	2.55
1975	1.57	0.97	2.40	—	2.82	6.15	2.82	2.21	1.81	10.83	2.88
1976	1.48	1.03	2.90	—	2.53	5.38	2.80	3.36	1.87	10.62	2.77
1977	1.54	1.34	3.12	—	3.00	5.89	3.27	3.80	2.35	12.06	3.32
1978	—	1.33	3.47	—	3.38	6.09	2.80	3.80	2.30	12.64	3.40
1979	—	1.09	4.66	—	3.95	7.69	4.12	6.02	1.98	13.48	3.83
1980	—	1.08	6.78	—	3.96	10.28	4.31	7.89	2.84	18.92	4.18
1981	3.44	1.40	8.08	—	5.46	11.58	—	9.69	3.13	19.64	4.92
1982	3.52	1.56	8.01	7.57	5.54	11.35	5.06	9.33	2.88	21.98	4.92
1983	2.99	1.94	R 7.23	7.85	6.05	10.46	6.46	R 7.81	R 3.27	24.10	R 4.77
1984	2.93	2.06	R 6.91	7.89	5.99	10.07	R 5.12	R 7.35	R 3.32	24.12	R 5.11
1985	2.37	2.38	R 6.93	R 7.68	13.07	9.83	—	R 7.63	R 3.44	24.98	R 7.14
1986	2.22	2.60	R 4.88	R 5.05	9.08	7.66	R 2.83	R 4.57	R 3.78	24.90	R 5.80
1987	—	2.38	R 6.34	R 5.47	8.52	7.90	R 3.28	R 4.86	R 4.11	25.78	R 6.04
1988	—	2.53	R 5.66	R 5.75	8.56	8.14	R 3.04	R 5.30	R 3.37	25.88	R 7.48
1989	—	2.57	R 5.83	R 6.81	12.13	8.85	—	R 6.14	R 3.26	26.62	R 8.08
1990	2.76	2.77	R 6.81	R 7.69	9.88	10.83	—	R 6.99	R 3.71	27.34	R 7.98
1991	2.17	2.88	R 6.78	R 6.78	9.29	8.89	—	R 8.98	R 3.57	27.87	R 8.11
1992	3.94	2.63	R 6.03	R 6.57	9.26	9.95	—	R 6.24	R 3.71	28.71	R 9.10
1993	5.21	2.80	R 7.00	R 6.30	9.21	R 9.88	—	R 6.37	R 4.01	29.73	R 9.96
1994	2.86	2.48	6.65	6.51	10.10	10.46	—	5.74	3.25	29.86	8.22
Expenditures in Million Nominal Dollars											
1970	0.3	8.6	3.0	—	0.1	4.1	7.5	14.7	25.5	18.4	38.0
1971	0.2	10.4	4.1	—	0.1	1.9	8.9	13.0	23.6	18.6	42.2
1972	0.3	13.1	3.8	—	0.1	7.5	8.7	17.6	31.0	21.1	52.1
1973	0.2	9.5	4.7	—	0.1	7.2	4.2	16.2	26.9	23.3	49.2
1974	0.2	11.5	7.7	—	0.1	10.3	10.3	26.4	40.1	24.8	64.9
1975	0.3	14.8	7.4	—	0.1	11.2	8.9	27.8	42.1	24.3	68.4
1976	0.2	14.7	10.5	—	0.2	8.2	8.4	27.2	42.2	27.3	69.5
1977	0.2	19.6	12.7	—	0.1	14.2	11.7	38.8	58.8	33.5	92.2
1978	—	20.2	18.6	—	0.4	11.3	8.9	37.3	67.4	37.3	94.7
1979	—	18.4	7.9	—	0.2	12.5	0.3	20.9	37.3	45.1	82.3
1980	—	17.5	22.7	—	0.1	13.8	8.1	36.2	54.2	44.8	98.0
1981	16.7	22.7	25.0	—	0.1	13.2	—	40.3	79.7	48.3	128.0
1982	18.0	38.8	22.4	1.0	0.2	20.8	0.1	44.6	101.2	37.8	159.0
1983	14.2	47.9	R 43.8	0.2	0.4	14.3	(8)	R 68.8	R 121.0	66.4	R 190.3
1984	15.1	50.9	R 47.5	0.3	0.6	11.7	(8)	R 59.9	R 125.9	142.2	R 288.1
1985	18.1	46.1	R 37.4	8.1	1.6	13.8	—	R 82.9	R 198.3	187.7	R 373.9
1986	11.3	52.7	R 22.8	R 142.5	0.8	8.8	R 29.4	R 203.8	R 257.8	186.3	R 434.2
1987	—	48.7	R 32.8	R 148.5	0.9	2.1	R 40.2	R 224.5	R 273.3	189.8	R 438.9
1988	—	54.2	R 29.8	R 6.1	0.9	2.2	R 5.9	R 45.0	R 98.1	168.9	R 258.1
1989	—	55.9	R 28.0	(8)	1.6	2.4	—	R 82.0	R 87.8	185.0	R 273.8
1990	14.0	68.8	R 48.7	(8)	1.7	2.7	—	R 51.1	R 122.8	189.0	R 321.8
1991	11.2	60.4	R 38.2	(8)	1.9	4.1	—	R 44.3	R 115.9	208.0	R 323.6
1992	20.8	56.2	R 46.3	(8)	1.8	3.0	—	R 53.2	R 130.3	215.0	R 345.2
1993	30.1	56.6	R 44.5	(8)	1.1	0.4	—	R 49.0	R 131.7	220.1	R 351.8
1994	15.7	51.3	35.9	(8)	1.0	0.6	—	40.5	107.5	230.0	337.8

¹ Liquefied petroleum gases.² There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R-Revised data.

—No consumption.

(8)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 20. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Alaska

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Biomass ^e	Total ^f		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^d	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	1.01	1.01	0.43	0.87	0.60	0.78	1.18	5.08	3.18	0.96	0.43	4.75	—	0.78	5.36	0.75
1971	—	0.86	0.86	0.63	0.81	0.68	0.76	1.17	5.27	3.25	0.58	0.48	4.67	—	0.82	5.40	0.87
1972	—	0.84	0.84	0.68	0.82	0.69	0.60	1.18	5.58	3.21	0.58	0.48	1.36	—	1.08	5.71	1.15
1973	—	1.10	1.10	0.72	0.85	0.92	1.05	1.28	6.33	3.44	0.78	0.63	1.02	—	0.96	6.20	1.01
1974	—	1.18	1.18	0.78	1.74	2.44	2.80	2.30	7.22	4.79	1.51	1.15	2.39	—	1.55	6.47	1.82
1975	—	1.57	1.57	0.81	1.80	2.88	3.82	2.32	7.48	6.15	1.88	1.31	2.65	—	1.65	6.79	1.84
1976	—	1.48	1.46	0.86	1.82	2.63	3.29	2.53	7.06	6.36	1.92	1.38	2.79	—	1.80	10.37	2.06
1977	—	1.54	1.54	1.01	1.74	3.19	3.65	3.00	6.97	6.89	1.89	1.66	3.10	—	1.81	10.14	2.02
1978	—	—	—	0.96	1.83	3.51	4.11	5.38	7.60	6.08	1.91	1.19	3.49	—	1.71	10.10	1.90
1979	—	—	—	1.05	2.44	4.08	5.84	3.85	10.21	7.60	—	2.88	4.89	—	1.89	10.18	1.82
1980	—	—	—	0.98	3.82	6.27	7.29	3.86	14.35	10.30	3.59	4.04	8.96	—	1.81	10.22	1.91
1981	—	—	—	0.98	4.44	6.98	7.31	5.46	18.00	11.59	4.29	4.48	8.69	—	2.01	18.75	2.90
1982	—	—	—	0.58	4.00	5.61	7.57	5.54	17.25	11.35	—	2.72	6.03	—	2.27	20.27	3.02
1983	—	—	—	0.67	4.19	^R 7.09	7.85	6.05	18.86	10.46	—	3.67	^R 6.26	—	^R 1.49	18.70	^R 2.54
1984	—	—	—	0.68	4.30	^R 6.90	7.89	5.99	17.63	10.07	—	3.62	^R 6.04	—	^R 1.56	20.21	^R 1.80
1985	—	—	—	0.71	4.47	^R 6.72	^R 7.89	13.07	17.81	8.89	^R 4.48	2.79	^R 6.83	—	^R 2.23	18.13	^R 1.66
1986	—	—	—	0.80	4.46	^R 4.41	^R 5.05	9.08	15.60	7.88	^R 2.34	—	^R 3.20	—	^R 1.82	18.53	^R 2.20
1987	—	—	—	0.73	4.25	^R 4.78	^R 5.47	8.62	12.70	7.90	^R 2.70	—	^R 4.51	—	^R 1.65	22.97	^R 2.44
1988	—	—	—	1.07	3.95	^R 5.00	^R 5.75	9.58	14.81	8.14	—	—	^R 4.80	—	^R 2.10	21.63	^R 2.81
1989	—	—	—	1.08	3.79	^R 5.78	^R 6.81	12.13	14.48	8.85	—	—	^R 5.92	—	^R 2.32	22.80	^R 2.92
1990	—	—	—	1.28	3.14	^R 6.72	^R 7.89	9.93	14.68	10.88	^R 3.46	—	^R 8.22	^d 1.88	^d 2.27	22.88	^d 2.77
1991	—	—	—	1.18	3.28	^R 5.91	^R 6.76	9.29	16.76	9.98	^R 2.53	—	^R 5.48	1.21	^R 2.15	23.90	^R 2.61
1992	—	—	—	1.18	2.80	^R 6.75	^R 6.67	9.26	19.43	9.95	^R 2.45	—	^R 5.31	1.21	^R 2.03	22.86	^R 2.48
1993	—	5.21	5.21	1.30	2.95	^R 6.12	^R 7.00	8.21	18.94	^R 6.98	^R 2.28	—	^R 5.82	1.23	^R 2.07	23.86	^R 2.80
1994	—	2.10	2.10	1.42	3.13	5.75	6.50	10.13	19.18	10.46	2.71	—	5.80	1.34	2.34	24.88	3.04
Expenditures in Million Nominal Dollars																	
1970	—	8.8	8.8	5.1	1.8	8.9	0.1	0.2	(8)	1.8	0.1	0.1	10.2	—	23.9	1.7	25.7
1971	—	8.1	8.1	4.9	1.6	8.1	0.1	0.3	(6)	3.3	0.1	0.2	13.6	—	26.5	1.8	28.4
1972	—	7.5	7.5	5.5	1.8	6.5	(8)	0.2	(6)	14.0	0.2	0.2	25.0	—	38.0	2.3	38.3
1973	—	9.7	9.7	7.1	1.4	9.1	(6)	0.2	(4)	2.1	0.2	0.2	13.3	—	30.1	2.4	32.5
1974	—	8.9	8.9	7.0	2.9	22.4	0.4	0.5	(8)	2.4	0.8	0.4	29.6	—	45.5	2.8	48.0
1975	—	18.6	18.5	13.8	3.8	28.8	0.5	0.8	1.1	2.8	0.3	0.8	40.7	—	79.7	18.6	81.2
1976	—	13.2	13.2	17.2	3.4	50.6	0.6	1.7	1.2	3.4	0.1	0.5	61.6	—	92.0	16.5	108.6
1977	—	8.7	8.7	39.0	4.2	64.9	0.9	2.9	0.9	0.9	0.9	0.9	76.4	—	126.0	18.7	144.7
1978	—	—	—	59.0	4.0	74.6	1.0	5.4	1.0	3.7	0.6	0.9	91.2	—	150.2	19.8	170.1
1979	—	—	—	79.5	3.4	53.2	9.3	1.0	1.4	4.8	—	1.5	74.5	—	154.0	14.1	168.1
1980	—	—	—	19.5	7.4	64.0	8.8	1.3	1.8	6.8	8.3	2.5	84.0	—	102.6	24.5	127.0
1981	—	—	—	15.0	7.8	83.3	1.6	1.6	2.2	0.7	0.4	1.5	99.2	—	114.2	59.8	173.8
1982	—	—	—	31.7	8.8	78.7	53.1	2.1	1.9	0.8	—	1.1	147.4	—	178.1	69.8	248.0
1983	—	—	—	39.5	9.6	^R 37.7	0.4	1.3	1.9	0.8	—	1.9	^R 53.5	—	^R 88.9	70.9	^R 187.8
1984	—	—	—	32.5	12.5	^R 41.1	0.5	1.2	2.2	0.3	—	2.4	^R 59.9	—	^R 92.4	21.8	^R 114.2
1985	—	—	—	48.2	14.4	^R 68.4	0.2	2.3	2.8	21.0	^R 65.9	4.5	^R 178.8	—	^R 225.8	23.5	^R 250.8
1986	—	—	—	34.9	11.7	^R 28.1	0.1	1.9	1.7	15.9	^R 61.8	—	^R 120.7	—	^R 155.7	28.2	^R 181.9
1987	—	—	—	38.5	7.2	^R 27.3	(5)	1.8	1.6	18.6	^R 16.1	—	^R 69.8	—	^R 106.3	34.9	^R 140.2
1988	—	—	—	48.3	18.2	^R 57.8	(5)	1.6	1.8	2.7	—	—	^R 82.2	—	^R 130.5	35.8	^R 166.3
1989	—	—	—	37.7	5.8	^R 61.4	(1)	1.2	1.8	2.9	—	—	^R 73.2	—	^R 110.9	33.0	^R 143.9
1990	—	—	—	58.5	8.8	^R 61.7	(8)	8.6	3.9	2.9	^R 1.8	—	^R 74.4	^d 1.5	^d 134.3	33.9	^d 186.2
1991	—	—	—	68.1	5.6	^R 66.9	(5)	0.9	1.9	2.7	^R 3.0	—	^R 80.5	1.7	^R 141.3	35.8	^R 177.1
1992	—	—	—	65.9	4.9	^R 65.5	(6)	0.9	2.3	3.0	^R 3.2	—	^R 70.1	1.8	^R 140.8	38.9	^R 183.7
1993	—	0.2	0.2	87.9	0.6	^R 65.3	0.2	0.2	2.9	^R 2.1	^R 2.9	—	^R 63.7	1.4	^R 133.1	38.7	^R 171.8
1994	—	0.2	0.2	64.8	1.4	60.6	(9)	1.5	2.4	3.1	3.9	—	82.2	1.0	116.1	40.6	158.8

* Liquefied petroleum gases.

* "Other" is the "other petroleum products" category described in Appendix A.

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

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

R-Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(x)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 21. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Alaska

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG *	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	1.01	—	2.17	1.46	0.73	1.10	5.88	3.18	1.11	1.39	1.38	—	1.38
1971	0.89	—	2.21	1.53	0.77	1.17	5.27	3.25	1.05	1.41	1.41	—	1.41
1972	0.94	—	2.19	1.52	0.78	—	5.58	3.21	1.00	1.38	1.38	—	1.38
1973	1.10	—	2.38	1.78	0.91	—	5.33	3.46	0.85	1.61	1.61	—	1.61
1974	1.16	—	3.23	2.80	1.57	—	7.22	4.78	1.99	2.58	2.58	—	2.58
1975	1.57	—	3.45	3.13	2.64	—	7.48	5.18	2.14	3.86	3.86	—	3.86
1976	1.48	—	3.59	3.30	2.32	—	7.05	5.56	2.42	3.88	3.88	—	3.88
1977	1.54	—	3.67	3.60	2.62	—	6.97	5.69	2.71	3.59	3.59	—	3.59
1978	—	—	4.29	3.88	2.88	—	7.80	6.00	2.37	3.74	3.74	—	3.74
1979	—	—	5.73	5.28	3.79	3.85	10.21	7.58	3.87	5.05	5.05	—	5.05
1980	—	—	9.82	7.38	6.21	3.86	14.36	18.28	—	7.31	7.31	—	7.31
1981	—	—	10.84	8.86	7.56	—	18.00	11.58	8.13	8.78	8.78	—	8.78
1982	—	—	10.82	8.77	7.37	5.54	17.25	11.35	—	8.59	8.59	—	8.59
1983	—	—	10.44	7.60	^R 6.72	6.06	16.98	10.46	5.29	^R 7.72	^R 7.72	—	^R 7.72
1984	—	—	10.27	7.70	^R 6.47	5.39	17.63	10.07	4.80	^R 7.47	^R 7.47	—	^R 7.47
1985	—	—	9.38	6.08	6.07	13.87	17.61	9.83	4.55	7.27	7.27	—	7.27
1986	—	—	8.41	7.33	4.76	9.08	15.58	7.88	2.42	5.45	5.45	—	5.45
1987	—	—	7.86	6.58	4.13	8.82	12.70	7.90	3.93	5.31	5.31	—	5.31
1988	—	—	7.41	7.50	4.14	8.58	14.61	8.14	4.61	5.48	5.48	—	5.48
1989	—	—	8.28	8.61	4.89	12.13	14.48	8.63	3.34	6.20	6.20	—	6.20
1990	—	—	9.32	9.83	6.17	9.89	14.80	10.09	5.08	7.58	7.58	—	7.58
1991	—	—	8.71	9.28	5.50	9.29	16.79	8.99	2.96	6.69	6.69	—	6.69
1992	—	—	8.54	8.49	5.15	9.26	19.43	9.95	3.24	6.87	6.87	—	6.87
1993	—	—	8.24	8.43	4.98	9.21	18.04	^R 9.98	2.88	^R 6.78	^R 6.78	—	^R 6.78
1994	—	—	7.98	8.23	4.53	9.28	19.18	10.46	3.18	6.48	6.48	—	6.48

Expenditures in Million Nominal Dollars													
1970	(a)	—	5.1	6.5	27.5	(a)	1.8	37.3	6.8	81.7	81.8	—	81.8
1971	(a)	—	4.2	12.7	32.5	(a)	1.5	43.3	1.8	95.8	95.8	—	95.8
1972	(a)	—	4.3	20.0	34.4	—	1.7	48.7	1.5	102.7	102.7	—	102.7
1973	(a)	—	4.7	19.9	37.8	—	1.6	48.9	1.9	114.5	114.5	—	114.5
1974	(a)	—	7.8	40.7	65.6	—	2.1	75.9	4.2	190.3	190.3	—	190.3
1975	(a)	—	8.1	38.3	86.8	—	5.8	98.9	6.8	243.2	243.2	—	243.2
1976	(a)	—	6.9	58.0	98.7	—	5.7	120.8	12.4	298.5	298.5	—	298.5
1977	(a)	—	8.6	61.6	118.4	—	4.0	126.8	19.4	336.8	336.8	—	336.8
1978	—	—	9.5	91.8	133.0	—	4.7	130.1	28.4	385.4	385.4	—	385.4
1979	—	—	12.5	53.8	180.7	(a)	6.5	189.4	5.5	429.4	429.4	—	429.4
1980	—	—	22.7	112.1	385.7	0.1	8.2	177.1	—	555.9	555.9	—	555.9
1981	—	—	27.6	125.4	462.7	—	9.9	208.7	2.4	694.7	694.7	—	694.7
1982	—	—	20.3	86.9	478.5	0.1	8.6	281.7	—	876.1	876.1	—	876.1
1983	—	—	19.8	155.0	461.6	0.1	8.9	246.1	1.8	^R 883.3	^R 883.3	—	^R 883.3
1984	—	—	20.3	171.8	553.3	0.4	9.8	288.7	1.7	^R 1,028.8	^R 1,028.8	—	^R 1,028.8
1985	—	—	24.7	272.3	328.3	0.7	9.1	288.4	8.5	1,044.0	1,044.0	—	1,044.0
1986	—	—	26.2	173.5	379.8	0.3	7.9	198.9	1.7	789.3	789.3	—	789.3
1987	—	—	7.9	149.8	345.8	0.2	7.3	198.6	2.4	709.8	709.8	—	709.8
1988	—	—	15.2	173.9	394.0	0.3	8.1	222.8	4.1	818.3	818.3	—	818.3
1989	—	—	20.5	515.8	491.0	0.3	8.2	225.4	2.5	1,063.8	1,063.8	—	1,063.8
1990	—	—	23.1	347.1	604.3	0.2	8.5	301.8	4.8	1,288.7	1,288.7	—	1,288.7
1991	—	—	27.2	231.0	528.3	0.1	8.5	231.6	1.4	1,028.3	1,028.3	—	1,028.3
1992	—	—	19.8	239.7	458.8	0.1	10.4	901.3	0.4	1,004.7	1,004.7	—	1,004.7
1993	—	—	17.1	235.6	412.5	0.1	10.3	^R 910.8	2.2	^R 986.5	^R 986.5	—	^R 986.5
1994	—	—	6.9	188.2	413.3	0.1	10.8	355.9	2.0	957.2	957.2	—	957.2

* Liquefied petroleum gases.

(a) Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a) Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 22. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Alaska

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.68	0.37	1.35	1.68	—	1.68	—	—	0.68
1971	0.71	0.42	1.29	1.60	—	1.59	—	—	0.68
1972	0.68	0.43	1.23	1.52	—	1.51	—	—	0.63
1973	0.82	0.46	^a 1.34	^a 1.87	—	^a 1.87	—	—	^a 0.72
1974	0.82	0.50	2.47	2.81	—	2.81	—	—	0.82
1975	0.86	0.51	^a 2.86	^a 3.10	—	3.10	—	—	0.86
1976	0.95	0.68	3.01	3.65	—	3.64	—	—	1.15
1977	1.08	0.76	3.28	3.97	—	3.98	—	—	1.31
1978	1.29	0.83	^a 3.02	3.89	—	3.89	—	—	1.38
1979	1.31	0.86	4.10	5.53	—	5.53	—	—	1.57
1980	1.91	0.48	4.08	5.48	—	4.98	—	—	1.36
1981	1.90	0.55	8.69	11.74	—	10.63	—	—	1.64
1982	1.33	0.71	5.15	7.49	—	6.68	—	—	1.54
1983	1.75	1.04	6.55	8.72	—	7.80	—	—	2.04
1984	1.80	1.04	5.01	7.64	—	6.88	—	—	1.95
1985	1.80	0.92	5.19	7.08	—	6.72	—	—	1.71
1986	1.62	1.11	2.82	4.15	—	3.40	—	—	1.48
1987	2.00	1.13	3.89	8.50	—	6.94	—	—	1.87
1988	2.64	1.33	5.70	8.81	—	7.56	—	—	2.13
1989	1.85	1.35	4.19	6.31	—	5.61	—	—	1.86
1990	2.46	1.58	6.36	10.36	—	9.27	—	—	2.37
1991	1.94	1.15	3.73	7.31	—	6.14	—	—	1.91
1992	1.99	1.18	3.97	7.25	—	6.57	—	—	1.91
1993	2.11	1.25	3.48	6.22	—	6.18	—	—	1.89
1994	2.10	1.13	3.55	5.88	—	5.06	—	—	1.78
Expenditures in Million Nominal Dollars									
1970	2.8	3.1	(a)	3.9	—	3.8	—	—	9.9
1971	3.4	4.4	(a)	4.2	—	4.2	—	—	12.0
1972	2.9	5.7	(a)	4.2	—	4.2	—	—	12.8
1973	3.4	7.4	(a)	^a 5.8	—	^a 5.8	—	—	^a 15.4
1974	3.8	6.6	(a)	7.8	—	7.8	—	—	20.2
1975	4.3	18.1	(a)	^a 12.5	—	12.6	—	—	^a 25.9
1976	4.9	14.7	0.3	17.1	—	17.4	—	—	36.3
1977	4.7	17.9	0.1	20.9	—	21.0	—	—	43.6
1978	6.1	20.3	(a)	20.2	—	20.2	—	—	^a 46.6
1979	5.8	24.3	(a)	29.6	—	29.7	—	—	59.4
1980	6.2	13.8	8.1	17.2	—	26.3	—	—	48.3
1981	9.6	18.0	11.9	36.1	—	50.0	—	—	75.6
1982	7.0	22.0	8.7	25.6	—	35.2	—	—	64.3
1983	8.9	32.9	13.9	30.3	—	44.2	—	—	86.0
1984	8.9	33.2	17.1	24.8	—	41.6	—	—	83.9
1985	8.4	31.8	16.5	21.3	—	36.8	—	—	77.8
1986	7.8	36.5	9.4	10.8	—	19.9	—	—	68.3
1987	8.7	34.8	7.1	23.3	—	30.4	—	—	73.8
1988	11.5	41.3	9.4	21.7	—	31.2	—	—	84.0
1989	9.2	44.5	6.1	18.8	—	24.6	—	—	78.4
1990	11.3	54.8	8.9	28.4	—	36.2	—	—	102.1
1991	9.1	35.3	5.8	22.6	—	28.2	—	—	73.6
1992	8.7	34.0	3.7	25.7	—	29.3	—	—	72.1
1993	9.6	35.1	6.7	19.5	—	26.2	—	—	71.2
1994	9.0	32.6	6.3	19.6	—	25.5	—	—	67.7

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

Revised data.

—No consumption.

(a)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 23. Energy Price and Expenditure Estimates by Source, 1970-1994, Arizona

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biomass	Total ^d			
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																	
1970	—	0.21	0.21	0.54	1.10	5.75	2.88	2.80	0.48	\$1.88	1.95	—	—	1.29	0.38	5.32	1.97
1971	—	0.25	0.25	0.58	1.11	0.80	2.03	2.87	0.87	\$1.32	2.05	—	—	1.35	0.38	5.41	2.07
1972	—	0.33	0.33	0.58	1.12	0.82	2.21	2.83	0.82	\$1.29	1.99	—	—	1.34	0.44	5.79	2.14
1973	—	0.33	0.33	0.65	1.29	0.95	2.57	3.06	1.01	\$1.50	2.05	—	—	1.49	0.65	6.32	2.34
1974	—	0.17	0.17	0.75	2.18	1.64	3.38	4.12	1.76	\$2.40	2.93	—	—	1.88	0.87	7.63	3.12
1975	—	0.23	0.23	1.01	2.48	2.19	4.86	4.82	2.08	\$2.63	3.45	—	—	2.25	0.84	8.88	3.87
1976	—	0.27	0.27	1.27	2.65	2.32	4.26	4.94	2.30	\$2.69	3.67	—	—	2.25	0.70	10.33	4.12
1977	—	0.54	0.54	1.81	2.92	2.71	5.24	5.09	2.23	\$3.02	3.83	—	—	2.46	0.93	11.83	4.59
1978	—	0.53	0.53	1.82	3.03	2.82	5.05	5.42	2.07	\$3.13	4.10	—	—	2.70	0.93	12.89	5.06
1979	—	0.91	0.91	2.40	4.27	4.08	5.34	6.96	2.79	\$3.99	5.44	—	—	3.31	1.27	14.16	6.19
1980	—	1.01	1.01	2.89	5.57	5.89	6.85	9.58	3.92	\$5.13	8.14	—	—	4.48	1.35	18.98	8.42
1981	—	1.09	1.09	3.18	7.75	7.67	8.78	10.89	4.97	\$7.00	9.51	—	—	4.65	1.37	18.88	9.38
1982	—	1.27	1.27	4.43	7.50	7.38	9.88	10.34	5.13	\$7.55	9.20	—	—	4.79	1.46	19.84	9.95
1983	—	1.31	1.31	4.90	\$6.93	\$6.71	10.00	8.97	5.28	\$7.98	\$9.13	—	—	4.73	1.48	20.16	\$9.58
1984	—	1.29	1.29	5.10	\$6.77	\$6.41	9.13	8.94	4.68	\$7.09	\$9.01	—	—	\$4.67	1.60	20.58	\$9.69
1985	—	1.36	1.36	4.92	\$6.96	\$6.20	8.98	9.08	4.79	\$7.82	\$9.16	0.65	—	\$4.82	1.80	21.13	\$10.08
1986	—	1.49	1.49	4.12	\$5.83	4.25	9.55	7.24	2.96	\$6.27	\$9.52	0.65	—	\$3.70	1.26	21.87	\$9.21
1987	—	1.33	1.33	4.10	\$5.49	4.35	8.81	7.77	2.93	\$5.06	\$9.94	0.82	—	\$3.78	1.21	21.31	\$9.77
1988	—	1.42	1.42	4.45	\$5.44	4.15	8.06	7.31	2.37	\$5.27	\$4.56	0.77	—	\$3.96	1.18	21.73	\$9.76
1989	—	1.39	1.38	3.92	\$6.76	4.80	11.56	8.19	2.78	\$5.21	\$7.34	0.85	—	\$3.97	1.38	22.10	\$10.41
1990	—	1.46	1.45	4.32	\$7.88	6.84	13.74	8.22	3.51	\$5.24	\$8.30	0.72	\$0.22	\$3.95	1.31	22.82	\$11.36
1991	—	1.43	1.43	4.88	\$7.48	5.03	12.23	8.87	2.88	\$5.23	\$7.75	0.70	\$0.21	\$3.65	1.13	23.08	\$10.90
1992	—	1.40	1.40	4.57	\$7.53	4.72	10.49	9.23	2.63	\$5.83	\$8.12	0.66	\$0.28	\$3.68	1.05	23.94	\$11.46
1993	—	1.38	1.38	4.96	\$6.41	4.69	10.34	\$9.58	2.43	\$6.27	\$8.57	0.66	\$0.31	\$3.98	1.12	24.05	\$11.72
1994	—	1.40	1.40	4.89	\$5.12	4.24	10.95	9.54	3.06	\$5.23	\$8.50	0.57	\$0.24	\$3.92	1.11	23.23	11.63
Expenditures in Billion Nominal Dollars																	
1970	—	1.8	1.8	\$6.8	31.3	27.5	10.2	346.8	8.3	\$31.4	412.7	—	—	\$58.4	23.5	250.1	743.0
1971	—	2.2	2.2	114.4	34.0	29.5	10.1	346.0	1.9	\$32.2	453.7	—	—	\$70.3	32.2	281.2	813.3
1972	—	2.5	2.5	124.7	49.6	31.4	11.9	379.6	8.3	\$36.7	517.2	—	—	\$84.4	43.8	343.6	944.2
1973	—	3.2	3.2	131.3	77.4	38.3	13.0	447.4	46.5	\$42.7	688.0	—	—	\$90.8	78.3	412.3	1,199.5
1974	—	8.4	8.4	136.1	121.3	85.3	18.6	578.2	90.7	\$76.7	852.6	—	—	1,097.3	128.0	527.8	1,489.1
1975	—	21.1	21.1	148.4	147.1	92.9	16.8	671.9	77.7	\$90.4	1,058.9	—	—	1,228.3	128.6	687.1	1,793.8
1976	—	39.3	39.3	209.1	158.1	85.3	14.6	735.0	78.4	\$97.7	1,127.1	—	—	1,374.6	139.0	779.8	2,015.2
1977	—	97.4	97.4	259.6	215.7	107.3	18.2	822.8	109.3	\$70.2	1,343.5	—	—	1,700.4	225.9	941.3	2,414.8
1978	—	85.2	85.2	309.0	253.5	119.6	21.1	922.8	84.8	\$80.6	1,464.4	—	—	1,858.5	226.5	1,040.2	2,672.3
1979	—	224.9	224.9	383.2	287.5	177.0	34.2	1,177.4	88.4	\$104.8	1,877.3	—	—	2,465.5	374.8	1,257.7	3,399.4
1980	—	247.8	247.8	484.8	412.3	288.7	40.8	1,685.4	33.0	\$185.6	2,446.1	—	—	3,129.9	388.7	1,431.8	4,981.9
1981	—	348.3	348.3	502.6	450.4	319.0	37.9	1,783.0	8.0	\$125.0	2,887.3	—	—	3,548.1	486.4	1,822.3	4,881.0
1982	—	425.0	425.0	525.9	580.6	314.1	63.1	1,707.6	19.2	\$107.6	2,853.1	—	—	3,508.0	496.4	1,782.4	4,791.9
1983	—	398.4	398.4	536.5	\$381.0	\$282.6	59.8	1,637.5	17.8	\$111.7	\$2,380.2	—	—	\$3,275.0	429.6	1,917.9	\$4,793.9
1984	—	417.8	417.8	573.4	\$398.0	\$293.6	49.7	1,824.3	16.0	\$149.8	\$2,618.1	—	—	\$3,510.4	477.7	2,086.4	\$5,119.1
1985	—	468.2	468.2	590.8	\$489.3	\$444.4	81.9	1,719.7	4.2	\$180.3	\$2,898.5	8.9	—	\$3,644.3	886.6	2,381.4	\$5,445.3
1986	—	440.9	440.9	579.7	\$371.0	\$181.0	59.2	1,438.6	0.6	\$135.1	\$2,185.4	69.8	—	\$3,075.7	490.6	2,536.2	\$5,121.3
1987	—	375.0	375.0	426.6	\$402.2	\$202.5	69.8	1,599.5	1.8	\$109.7	\$2,385.4	116.4	—	\$3,305.5	639.1	2,564.5	\$5,431.6
1988	—	438.6	438.6	487.0	\$386.3	\$195.0	66.8	1,548.4	0.8	\$119.4	\$2,296.7	190.6	—	\$3,404.8	671.5	2,896.0	\$5,619.4
1989	—	493.8	493.8	510.6	\$418.0	\$217.4	81.8	1,747.4	2.8	\$108.7	\$2,885.6	71.8	—	\$3,662.8	684.3	3,030.3	\$5,628.8
1990	—	498.5	498.5	484.2	\$448.4	\$285.9	67.8	1,882.9	0.8	\$187.8	\$3,891.4	158.1	\$0.25	\$4,633.7	696.2	3,181.4	\$5,817.8
1991	—	497.6	497.6	486.8	\$451.3	\$270.2	83.5	1,827.1	1.4	\$122.4	\$3,738.9	168.9	22.1	\$3,914.4	711.4	3,249.2	\$5,452.2
1992	—	515.3	515.3	\$482.8	\$494.6	\$219.1	83.5	2,014.6	1.2	\$144.3	\$4,937.4	148.6	22.7	\$4,117.6	719.0	3,518.7	\$5,321.5
1993	—	536.1	536.1	\$498.5	\$498.7	\$257.4	88.7	\$2,163.8	2.9	\$127.5	\$3,234.0	136.0	21.6	\$4,414.2	705.9	3,644.0	\$5,261.3
1994	—	562.7	562.7	523.0	621.3	177.7	74.3	2,285.3	3.9	\$137.8	\$3,280.3	141.1	21.5	\$4,528.6	731.4	3,748.0	7,545.2

^a Liquefied petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1988 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

Revised data

—No consumption, including cases where adjustments were made See explanation of adjustments in Section 7 of Appendix A

(\$)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 24. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Arizona

Year	Primary Energy								Electricity	Total Energy ^d
	Coal	Natural Gas	Petroleum				Distillate ^b	Total ^c		
			Distillate Fuel	Kerosene	LPG ^a	Total				
Prices in Nominal Dollars per Million Btu										
1970	—	1.13	1.37	2.08	2.85	2.48	—	1.29	6.96	2.96
1971	—	1.16	1.34	2.09	2.51	2.34	—	1.26	6.92	2.80
1972	—	1.18	1.35	2.45	2.94	2.60	—	1.33	7.34	3.30
1973	—	1.30	1.57	2.56	3.53	2.94	—	1.46	7.78	3.67
1974	—	1.41	2.49	3.96	4.26	3.77	—	1.70	9.30	4.81
1975	—	1.48	2.63	4.65	5.86	4.63	—	1.73	11.67	6.29
1976	—	2.02	3.09	4.60	6.94	4.63	—	2.23	12.32	6.77
1977	—	2.49	3.14	5.21	7.19	5.19	—	2.75	14.06	8.96
1978	—	2.88	3.41	6.34	8.54	4.72	—	3.12	14.91	11.27
1979	—	3.37	4.42	7.55	6.80	6.30	—	3.78	18.53	8.76
1980	—	3.89	7.27	—	6.46	6.40	—	4.21	18.38	11.28
1981	—	4.39	7.86	—	10.43	10.42	—	4.88	20.21	12.64
1982	4.59	5.62	—	—	11.84	11.84	—	6.15	22.63	14.29
1983	—	6.35	7.37	18.29	11.74	11.74	—	6.96	22.82	16.04
1984	4.21	6.55	6.81	13.26	10.67	10.68	—	7.17	23.47	16.07
1985	3.89	6.89	4.90	8.02	10.23	10.12	—	7.05	24.18	16.96
1986	—	6.06	4.74	9.52	9.97	9.87	—	6.50	25.37	17.63
1987	2.62	5.69	3.74	7.61	10.81	10.60	—	6.48	25.09	17.34
1988	2.63	6.76	4.96	10.00	9.82	9.47	—	7.05	25.65	18.35
1989	—	6.86	4.96	9.98	14.80	14.07	—	7.38	25.39	18.96
1990	3.62	6.64	1.57	16.18	13.78	16.66	^d 4.75	^d 7.80	26.49	^d 16.37
1991	3.09	6.52	7.36	14.77	14.19	14.07	4.75	^d 7.22	26.80	^d 17.52
1992	2.60	7.02	6.97	13.99	11.46	11.43	4.75	^d 7.20	26.06	^d 16.09
1993	2.47	7.00	7.33	14.70	11.72	11.66	4.75	^d 7.17	26.26	^d 16.47
1994	2.29	7.34	8.85	13.61	12.04	12.01	4.75	7.48	27.26	16.39
Expenditures in Billion Nominal Dollars										
1970	—	55.6	0.7	1.1	6.4	68.2	—	46.8	109.3	198.1
1971	—	40.0	0.9	0.8	8.1	9.8	—	49.8	116.4	186.2
1972	—	42.6	1.4	0.6	9.7	11.8	—	54.2	145.7	199.9
1973	—	48.6	2.0	0.6	11.1	13.7	—	63.3	178.3	241.5
1974	—	48.5	3.1	2.0	13.1	18.2	—	68.7	225.2	291.9
1975	—	58.2	3.6	2.9	11.2	16.9	—	75.0	284.3	388.3
1976	—	85.2	3.8	4.2	9.2	17.1	—	102.4	306.8	409.2
1977	—	100.0	5.2	5.9	12.0	23.1	—	129.1	376.2	499.6
1978	—	92.4	6.4	5.4	11.3	23.0	—	135.9	426.8	542.4
1979	—	109.5	5.2	2.7	23.9	31.2	—	134.7	524.7	669.4
1980	—	199.8	0.1	—	26.4	20.5	—	140.1	691.2	741.3
1981	—	121.8	(8)	—	24.1	24.1	—	145.9	657.2	603.2
1982	(4)	174.5	—	—	34.3	34.3	—	206.8	733.9	842.7
1983	—	194.2	(5)	0.2	39.0	38.2	—	239.4	812.0	1,045.4
1984	(4)	197.7	(4)	0.2	28.0	28.2	—	236.9	889.6	1,115.4
1985	(4)	280.6	8.9	8.1	35.3	35.7	—	336.2	1,018.5	1,246.7
1986	—	159.9	0.3	0.2	33.3	33.7	—	198.3	1,065.5	1,278.6
1987	(8)	173.7	0.4	0.1	43.6	44.1	—	217.8	1,163.1	1,400.9
1988	(8)	197.2	0.2	0.2	29.8	30.1	—	227.3	1,289.0	1,516.3
1989	—	185.0	0.2	(8)	43.0	43.3	—	231.2	1,349.0	1,580.3
1990	(4)	297.7	0.8	(8)	38.9	39.1	^d 4.75	^d 263.2	1,380.6	^d 1,653.2
1991	(4)	219.2	0.2	0.1	44.5	44.6	17.3	^d 281.3	1,430.6	^d 1,711.3
1992	0.1	201.6	0.2	0.2	36.0	36.3	18.2	^d 269.1	1,555.0	^d 1,816.2
1993	(6)	202.9	0.2	0.1	34.8	35.2	17.4	^d 255.4	1,611.0	^d 1,886.4
1994	(6)	223.8	0.1	0.1	36.9	37.2	17.0	278.1	1,694.0	1,972.1

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.

NA/Revised data.

—No consumption.

(4)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 25. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Arizona

Year	Primary Energy								Electricity	Total Energy ^b	
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	—	0.60	1.12	0.77	1.00	2.00	0.63	1.51	0.60	5.57	2.51
1971	—	0.65	1.10	0.79	1.13	2.07	0.56	1.53	0.74	5.06	2.50
1972	—	0.60	1.18	0.80	1.13	2.03	0.66	1.49	0.79	6.20	2.86
1973	—	0.73	1.41	1.07	1.29	3.06	1.02	1.50	0.85	8.55	2.91
1974	—	0.79	2.37	1.71	2.30	4.12	1.79	2.82	1.02	7.76	3.46
1975	—	1.00	2.62	2.35	2.87	4.62	2.00	2.95	1.30	10.83	4.68
1976	—	1.26	2.64	2.54	2.86	4.64	2.16	3.03	1.57	10.90	5.03
1977	—	1.67	2.94	2.84	3.44	5.08	2.27	3.01	1.90	12.49	6.04
1978	—	2.07	3.17	2.85	4.86	5.42	2.04	3.10	2.28	13.72	7.06
1979	—	2.54	4.33	3.41	3.67	6.98	2.90	4.00	2.64	15.42	8.81
1980	—	3.80	6.04	—	5.72	8.80	—	7.63	3.44	18.89	10.00
1981	—	3.06	7.50	6.65	6.85	10.93	5.04	8.65	3.71	19.09	11.05
1982	2.14	4.84	7.73	6.60	7.06	10.34	6.09	8.07	5.01	20.71	12.97
1983	—	5.31	R 6.28	7.23	7.82	8.67	5.12	R 7.45	R 5.52	21.15	R 13.98
1984	1.68	5.36	R 6.02	6.50	7.70	8.94	4.72	R 7.17	R 5.52	21.26	R 14.43
1985	1.61	5.33	R 6.04	R 6.39	9.03	9.08	4.13	R 7.04	R 5.56	22.33	R 15.25
1986	—	4.47	R 3.55	R 3.67	9.06	7.24	—	R 5.25	4.67	22.67	15.70
1987	1.94	4.30	R 4.16	R 4.67	8.52	7.77	—	R 5.67	R 4.63	21.20	R 14.34
1988	1.04	4.61	R 3.83	R 4.21	8.60	7.31	2.30	R 5.06	R 4.64	21.80	R 15.08
1989	—	4.57	R 4.79	R 5.15	8.09	8.19	—	R 5.98	R 4.71	22.05	R 15.43
1990	1.87	4.84	R 5.63	R 5.87	9.85	8.23	—	R 6.87	R 4.87	23.89	R 16.14
1991	2.01	4.85	R 5.24	R 5.54	9.29	8.57	2.53	R 7.21	R 5.25	23.61	R 16.89
1992	2.02	5.04	R 4.98	R 5.56	9.26	9.23	—	R 7.64	R 5.33	24.34	R 17.46
1993	2.03	4.92	R 5.19	R 5.60	9.21	R 9.38	—	R 7.75	R 5.15	24.46	R 17.58
1994	2.05	5.13	4.70	6.96	10.10	9.54	—	6.47	6.22	23.39	17.09
Expenditures in Million Nominal Dollars											
1970	—	14.3	1.0	0.1	0.6	2.2	6.1	4.3	18.7	88.1	107.8
1971	—	17.5	1.7	(a)	0.6	2.3	0.2	4.8	22.4	102.9	125.2
1972	—	19.6	2.7	(a)	0.7	2.3	0.2	5.9	25.4	126.5	151.9
1973	—	24.4	4.1	(a)	0.7	2.6	0.0	8.4	32.6	143.9	176.7
1974	—	27.2	6.7	0.2	1.2	3.7	1.0	13.7	40.9	160.6	221.4
1975	—	37.8	7.4	0.2	0.9	4.3	1.1	13.9	51.7	245.1	296.8
1976	—	52.5	7.9	0.4	0.9	4.6	2.9	16.7	68.2	283.6	352.7
1977	—	60.0	10.9	0.5	1.0	5.0	5.8	23.2	83.0	349.6	432.6
1978	—	65.1	13.3	0.6	1.6	4.8	3.0	23.9	88.1	384.2	473.2
1979	—	71.3	11.6	0.2	2.2	6.4	1.4	21.7	80.0	436.9	549.9
1980	—	85.2	11.8	—	2.4	6.1	—	22.9	104.1	519.3	629.4
1981	—	84.5	2.6	0.7	2.6	10.5	1.1	17.8	112.3	571.6	683.8
1982	(a)	127.8	1.0	0.4	3.6	16.6	5.1	28.7	154.5	658.4	810.8
1983	—	136.6	R 7.9	0.1	4.6	7.8	(a)	R 20.4	R 187.0	686.8	R 845.9
1984	(a)	141.8	R 6.5	0.1	3.6	7.1	0.1	R 19.4	R 181.2	810.2	R 971.4
1985	(a)	141.3	R 6.5	0.1	3.9	6.7	(a)	R 28.1	R 178.4	936.7	R 1,107.1
1986	—	111.6	R 7.6	R 0.4	5.3	8.3	—	R 19.9	R 131.6	1,021.0	R 1,152.5
1987	(a)	125.6	R 12.8	R 0.6	6.1	14.0	—	R 34.0	R 159.6	1,094.0	R 1,195.5
1988	(a)	140.6	R 10.6	(a)	4.7	5.3	(a)	R 20.9	R 161.6	1,110.0	R 1,271.5
1989	—	136.1	R 10.4	0.1	4.3	5.5	—	R 20.4	R 156.5	1,187.0	R 1,343.5
1990	(a)	136.0	R 16.7	0.1	4.5	12.4	—	R 33.7	R 160.7	1,285.8	R 1,434.7
1991	(a)	R 139.0	R 9.3	0.1	5.2	16.7	0.2	R 31.4	R 171.9	1,273.0	R 1,444.3
1992	0.1	R 140.6	R 8.5	(a)	5.6	14.9	—	R 27.0	R 169.0	1,356.0	R 1,527.0
1993	(a)	R 139.6	R 6.1	(a)	4.8	R 9.6	—	R 19.6	R 109.1	1,395.0	R 1,554.1
1994	(a)	153.6	7.0	(a)	5.5	1.7	—	14.2	168.0	1,416.0	1,586.0

^a Liquefied petroleum gases^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R-Revised data

—No consumption

(a)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 26. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Arizona

Year	Primary Energy															Electricity	Total Energy ^d
	Coal			Natural Gas	Petroleum									Biofuels ^c	Total ^c		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	0.63	0.63	0.41	0.68	0.72	0.77	1.05	5.08	2.80	0.36	—	0.86	—	0.88	3.88	1.00
1971	—	0.66	0.66	0.44	0.81	0.74	0.79	1.13	6.27	2.87	0.58	0.48	1.02	—	0.64	3.63	1.08
1972	—	0.74	0.74	0.46	0.82	0.74	0.80	1.13	6.58	2.83	0.68	0.48	0.96	—	0.68	3.74	1.11
1973	—	0.74	0.74	0.47	0.85	0.89	1.07	1.29	6.33	3.06	0.78	0.53	1.19	—	0.78	4.42	1.23
1974	—	1.05	1.06	0.85	1.72	1.59	1.71	2.28	7.23	4.12	1.32	1.15	1.95	—	1.18	5.02	1.83
1975	—	0.88	0.88	0.72	1.87	2.19	2.35	2.67	7.48	4.62	1.57	1.21	2.38	—	1.42	7.18	2.55
1976	—	1.18	1.18	0.68	1.65	2.38	2.54	2.98	7.05	4.84	1.92	1.38	2.42	—	1.49	7.71	2.67
1977	—	1.27	1.27	1.24	1.77	2.48	2.64	3.44	8.87	5.09	1.89	1.86	2.52	—	1.78	8.69	2.95
1978	—	1.37	1.37	1.62	1.92	2.61	2.83	4.58	7.80	5.42	2.15	1.19	2.68	—	2.10	9.04	3.33
1979	—	1.61	1.61	2.07	2.45	3.32	3.41	3.67	10.21	6.98	2.38	2.88	3.36	—	2.42	10.03	3.72
1980	—	1.86	1.86	2.57	3.84	5.15	5.48	5.72	14.30	8.88	3.95	4.04	5.19	—	3.58	11.38	4.34
1981	—	1.61	1.61	3.01	4.48	6.22	6.55	6.85	18.00	10.83	3.86	4.46	6.41	—	3.79	12.31	5.07
1982	—	2.14	2.14	3.83	4.19	6.14	6.59	7.08	17.25	10.34	4.76	2.72	6.22	—	3.98	15.24	6.59
1983	—	2.20	2.20	3.96	4.16	R 6.49	7.23	7.82	16.88	8.87	4.78	—	R 6.29	—	R 4.09	15.45	R 6.73
1984	—	1.88	1.88	4.17	4.58	R 6.31	6.50	7.70	17.63	8.94	4.72	—	R 6.18	—	R 4.06	15.18	R 6.25
1985	—	1.81	1.81	4.25	4.76	R 6.20	R 6.39	8.83	17.51	8.05	4.13	—	R 6.32	—	R 3.97	15.05	R 6.67
1986	—	2.17	2.17	3.77	4.33	R 3.85	3.67	9.06	18.59	7.24	2.29	—	R 4.93	—	R 3.46	15.07	R 6.15
1987	—	1.94	1.94	3.82	3.21	R 4.43	R 4.57	8.52	12.70	7.77	2.88	—	R 4.67	—	R 3.86	15.37	R 7.29
1988	—	1.94	1.94	3.68	3.28	R 4.08	R 4.21	8.58	14.61	7.31	2.30	—	R 4.62	—	R 3.83	15.41	R 7.31
1989	—	1.92	1.92	3.52	2.84	R 4.89	R 5.15	8.08	14.48	8.19	2.51	—	R 4.81	—	R 3.90	15.80	R 7.47
1990	—	1.97	1.97	3.80	2.71	R 5.89	R 6.87	9.03	14.80	3.22	3.18	—	R 5.23	d 1.48	d 4.10	16.36	d 7.86
1991	—	2.01	2.01	3.43	3.34	R 5.38	R 5.54	9.29	19.79	8.57	2.53	R 12.63	R 5.40	1.49	R 4.06	16.34	R 8.00
1992	—	2.02	2.02	4.03	2.98	R 5.39	R 5.56	9.26	19.43	8.23	2.41	R 15.81	R 5.23	1.48	R 4.22	16.88	R 8.32
1993	—	2.03	2.03	3.81	2.85	R 5.43	R 5.80	9.21	18.94	R 9.68	2.33	R 13.75	R 5.58	1.49	R 4.24	17.02	R 8.83
1994	—	2.05	2.05	3.47	2.86	5.24	5.40	10.13	19.18	9.54	2.80	17.18	5.59	1.48	4.06	16.49	8.14
Expenditures in Million Nominal Dollars																	
1970	—	0.1	0.1	25.2	14.8	5.8	8.4	1.0	3.4	8.7	8.1	—	32.1	—	67.4	57.8	118.2
1971	—	0.1	0.1	29.3	15.8	7.3	9.4	1.0	3.9	8.9	9.3	(8)	38.1	—	83.4	82.0	125.4
1972	—	0.2	0.2	30.0	19.5	11.4	9.3	1.2	3.7	7.0	9.8	(8)	43.7	—	73.8	71.4	145.3
1973	—	0.2	0.2	32.2	19.2	20.7	9.3	1.5	8.6	7.3	1.2	(8)	58.7	—	91.1	90.1	181.2
1974	—	0.2	0.2	37.6	44.8	29.9	1.2	3.8	11.2	10.3	2.1	(8)	103.3	—	141.1	122.1	263.2
1975	—	2.4	2.4	38.5	28.9	39.8	1.8	4.3	9.3	18.7	1.2	(9)	95.6	—	136.7	167.7	304.3
1976	—	8.8	8.8	50.1	22.3	45.2	2.3	3.8	9.8	8.5	3.2	(9)	96.1	—	154.8	189.4	344.3
1977	—	21.7	21.7	65.7	25.5	68.5	4.9	4.5	11.2	10.0	4.6	0.1	128.6	—	213.8	215.2	429.1
1978	—	12.5	12.6	74.3	34.3	88.9	4.8	6.4	13.1	10.5	3.0	(9)	159.0	—	244.9	229.1	474.0
1979	—	61.3	61.3	95.9	48.1	78.0	0.5	8.6	18.4	12.6	1.7	0.1	168.9	—	323.1	276.1	599.2
1980	—	30.5	30.5	101.5	48.5	107.1	2.3	15.5	23.8	18.7	3.8	0.1	217.4	—	388.3	311.3	699.6
1981	—	39.7	39.7	124.4	48.7	107.9	3.3	7.4	27.7	15.4	0.4	(8)	210.8	—	374.9	393.5	768.4
1982	—	65.9	65.9	109.9	42.3	77.4	0.2	12.3	24.2	11.6	0.4	(5)	188.4	—	338.2	382.0	730.2
1983	—	65.8	65.8	123.1	46.5	R 83.9	0.1	12.4	24.9	8.8	0.2	—	R 175.8	—	R 385.5	417.0	R 782.6
1984	—	68.8	68.8	127.2	75.6	R 92.2	0.1	14.5	27.6	11.7	0.4	—	R 222.1	—	R 418.1	386.7	R 804.8
1985	—	78.2	78.2	73.4	81.0	R 84.8	R 84.4	17.8	26.7	19.2	0.8	—	R 211.5	—	R 388.1	434.2	R 788.3
1986	—	100.4	100.4	33.2	72.7	R 82.4	R 87.7	17.9	22.2	15.9	0.5	—	R 192.4	—	R 328.6	429.7	R 756.7
1987	—	25.8	25.8	66.8	53.1	R 82.9	R 87.7	18.9	20.5	16.5	0.3	—	R 172.3	—	R 284.7	445.3	R 710.1
1988	—	22.7	22.7	81.4	58.4	R 48.3	1.2	20.3	22.7	15.8	0.5	—	R 197.0	—	R 281.1	487.0	R 768.1
1989	—	27.4	27.4	68.5	45.0	R 89.0	R 1.4	12.4	23.1	18.0	0.1	—	R 189.0	—	R 265.0	494.3	R 779.2
1990	—	28.1	28.1	81.0	42.4	R 102.3	R 8.6	12.9	24.0	24.2	0.3	—	R 208.9	d 4.1	d 208.1	828.4	d 824.5
1991	—	27.6	27.6	81.6	48.3	R 91.4	R 1.1	11.9	24.7	16.6	1.9	R 7.6	R 193.4	4.8	R 287.5	545.2	R 833.7
1992	—	25.9	25.9	75.7	50.1	R 74.8	(6)	17.2	29.1	16.9	1.0	R 10.8	R 208.8	4.5	R 314.9	882.7	R 917.6
1993	—	27.3	27.3	85.1	45.5	R 65.9	(6)	27.0	28.9	R 17.0	2.6	R 9.7	R 188.6	4.3	R 303.3	838.0	R 941.3
1994	—	30.1	30.1	82.4	50.8	54.5	(6)	29.1	30.8	18.4	0.7	10.6	194.4	4.5	321.4	838.0	957.4

* Liquefied petroleum gases

b "Other" is the "other petroleum products" category described in Appendix A

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

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

Revised data

—No consumption, including cases where adjustments were made See explanation of adjustments in Section 7 of

Appendix A

(8)=Value less than 0.05 million nominal dollars

Note Expenditure totals may not equal sum of components due to independent rounding

Sources Data sources, estimation procedures, and assumptions are described in Appendix A

Table 27. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Arizona

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
													Total
Prices in Nominal Dollars per Million Btu													
1970	0.83	—	2.17	1.26	0.76	1.05	5.88	3.80	—	2.20	2.20	—	2.20
1971	0.56	—	2.21	1.31	0.80	1.13	5.27	2.87	—	2.28	2.28	—	2.28
1972	0.74	—	2.19	1.32	0.79	1.13	5.58	2.83	—	2.26	2.26	—	2.26
1973	0.74	—	2.36	1.48	0.84	1.29	5.33	3.06	—	2.46	2.46	—	2.46
1974	1.05	—	3.23	2.54	1.62	2.28	7.22	4.12	—	3.45	3.45	—	3.45
1975	0.88	—	3.45	2.74	2.32	2.87	7.48	4.82	—	3.83	3.83	—	3.83
1976	1.18	—	3.59	2.84	2.32	2.96	7.05	4.84	—	4.15	4.15	—	4.15
1977	1.27	—	3.97	3.29	2.71	3.44	8.97	5.09	—	4.44	4.44	—	4.44
1978	—	—	4.29	3.40	2.89	4.58	7.60	5.42	—	4.71	4.71	—	4.71
1979	—	—	5.73	4.79	4.06	3.67	10.21	6.66	—	6.16	6.16	—	6.16
1980	—	—	9.02	7.34	6.59	5.72	14.36	9.86	—	8.79	8.79	—	8.79
1981	—	—	10.84	8.46	7.87	6.85	18.00	10.83	—	9.96	9.96	—	9.96
1982	—	—	10.82	8.02	7.38	7.08	17.25	10.34	—	9.54	9.54	—	9.54
1983	—	—	10.44	7.14	^R 6.71	7.82	16.88	8.87	—	^R 8.35	^R 8.35	—	^R 8.35
1984	—	—	10.27	6.89	^R 6.41	7.70	17.89	8.84	—	8.29	8.29	—	8.29
1985	—	—	9.99	7.15	6.20	9.83	17.41	9.86	—	8.40	8.40	—	8.40
1986	—	—	8.41	6.42	4.25	9.08	15.59	7.24	—	6.73	6.73	—	6.73
1987	—	—	7.55	7.44	4.36	8.52	12.70	7.77	—	7.22	7.22	—	7.22
1988	—	—	7.41	8.74	4.15	8.58	14.81	7.31	—	6.79	6.79	—	6.79
1989	—	—	6.28	7.62	4.80	8.09	14.48	8.19	—	7.64	7.64	—	7.64
1990	—	—	6.32	8.79	6.04	9.88	14.80	8.22	—	8.69	8.69	—	8.69
1991	—	3.73	8.71	8.89	5.09	9.29	16.79	8.67	—	7.98	7.98	—	7.98
1992	—	3.62	8.54	8.23	4.72	8.28	19.43	8.23	—	8.46	8.46	—	8.46
1993	—	3.47	8.24	8.89	4.69	9.21	16.84	^R 9.85	—	^R 8.85	^R 8.85	—	^R 8.85
1994	—	3.82	7.96	8.59	4.24	9.28	19.18	9.54	—	8.79	8.79	—	8.79
Expenditures in Million Nominal Dollars													
1970	(a)	—	4.7	23.4	27.5	0.2	7.1	388.1	—	370.8	370.8	—	370.8
1971	(a)	—	4.7	24.1	29.5	0.3	7.1	336.9	—	402.5	402.5	—	402.5
1972	(a)	—	4.5	34.6	29.3	0.3	8.1	370.8	—	447.2	447.2	—	447.2
1973	(a)	—	4.3	46.5	39.7	0.3	9.9	437.5	—	537.1	537.1	—	537.1
1974	(a)	—	6.8	75.0	83.8	0.5	12.8	564.2	—	722.6	722.6	—	722.6
1975	(a)	—	6.2	75.8	81.7	0.5	12.1	656.9	—	833.4	833.4	—	833.4
1976	(a)	—	5.1	83.5	86.3	0.6	12.7	720.9	—	909.0	909.0	—	909.0
1977	(a)	—	7.5	115.5	107.3	0.7	14.7	807.8	—	1,053.5	1,053.5	—	1,053.5
1978	—	—	7.4	129.0	119.8	1.8	17.2	907.7	—	1,182.7	1,182.7	—	1,182.7
1979	—	—	10.7	169.5	177.0	0.1	24.1	1,156.5	—	1,559.8	1,559.8	—	1,559.8
1980	—	—	12.8	277.9	289.7	1.8	30.2	1,530.5	—	2,141.9	2,141.9	—	2,141.9
1981	—	—	12.3	327.1	319.0	2.6	36.3	1,727.1	—	2,425.8	2,425.8	—	2,425.8
1982	—	—	8.6	271.2	314.1	2.9	31.7	1,679.5	—	2,308.1	2,308.1	—	2,308.1
1983	—	—	8.2	281.2	^R 262.5	3.8	32.7	1,821.1	—	^R 2,089.8	^R 2,089.8	—	^R 2,089.8
1984	—	—	9.8	288.6	^R 283.6	3.6	36.2	1,805.4	—	^R 2,227.5	^R 2,227.5	—	^R 2,227.5
1985	—	—	9.3	317.7	244.4	3.2	33.7	1,883.8	—	2,382.2	2,382.2	—	2,382.2
1986	—	—	8.6	296.3	181.0	2.6	29.2	1,416.2	—	1,934.2	1,934.2	—	1,934.2
1987	—	—	7.9	317.7	202.8	1.9	26.9	1,586.4	—	2,125.3	2,125.3	—	2,125.3
1988	—	—	7.0	304.1	195.0	2.0	29.8	1,525.5	—	2,063.5	2,063.5	—	2,063.5
1989	—	—	8.8	343.7	217.4	1.9	30.3	1,703.9	—	2,325.8	2,325.8	—	2,325.8
1990	—	—	8.1	430.8	285.9	1.8	31.4	1,888.3	—	2,805.5	2,805.5	—	2,805.5
1991	—	0.1	9.3	388.2	270.2	1.8	32.4	1,793.8	—	2,462.9	^R 2,462.9	—	^R 2,462.9
1992	—	0.2	8.6	409.7	219.1	1.9	36.2	1,862.9	—	2,858.7	^R 2,858.7	—	^R 2,858.7
1993	—	0.2	8.3	589.7	207.4	1.9	37.9	^R 2,137.2	—	^R 2,989.4	^R 2,989.4	—	^R 2,989.4
1994	—	0.2	5.7	558.0	177.7	2.8	40.1	2,245.2	—	3,029.5	3,029.5	—	3,029.5

^a Liquefied petroleum gases

R=Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)Value less than 0.06 million nominal dollars

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 28. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Arizona

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Others	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.21	0.35	0.80	0.88	—	0.81	—	—	0.33
1971	0.24	0.39	0.98	0.63	—	0.56	—	—	0.30
1972	0.32	0.39	0.85	2.22	—	0.94	—	—	0.44
1973	0.32	0.42	1.02	1.25	—	1.03	—	—	0.46
1974	0.17	0.53	1.77	2.15	—	1.08	—	—	0.67
1975	0.21	0.73	2.08	2.27	—	2.12	—	—	0.84
1976	0.22	0.82	2.22	2.44	—	2.26	—	—	0.70
1977	0.47	1.08	2.25	2.67	—	2.38	—	—	0.93
1978	0.46	1.33	2.07	2.75	—	2.21	—	—	0.93
1979	0.73	2.06	2.80	4.38	—	2.97	—	—	1.27
1980	0.98	2.41	3.82	6.48	—	4.87	—	—	1.36
1981	1.05	2.66	5.05	7.32	—	6.38	—	—	1.57
1982	1.16	3.64	8.21	7.31	—	6.51	—	—	1.46
1983	1.21	4.12	5.28	6.34	—	5.54	—	—	1.46
1984	1.21	4.61	4.66	6.08	—	5.00	—	—	1.59
1985	1.31	3.74	3.71	6.32	—	5.15	0.48	—	1.68
1986	1.38	2.35	3.51	3.64	—	3.64	0.65	—	1.28
1987	1.30	2.20	2.94	4.34	—	3.80	0.82	—	1.21
1988	1.41	2.24	2.47	4.27	—	4.07	0.77	—	1.18
1989	1.36	2.24	2.77	4.50	—	3.75	0.85	—	1.28
1990	1.43	2.37	3.48	5.11	—	5.88	0.72	—	1.21
1991	1.41	2.01	3.86	4.98	—	4.89	0.70	—	1.13
1992	1.37	2.21	3.23	4.87	—	4.53	0.55	—	1.08
1993	1.35	3.81	3.55	5.11	—	4.87	0.58	—	1.12
1994	1.37	2.16	3.22	4.25	—	3.53	0.57	—	1.11
Expenditures in Million Nominal Dollars									
1970	1.8	21.7	0.1	(a)	—	0.1	—	—	23.5
1971	2.1	28.8	1.4	(a)	—	1.5	—	—	32.2
1972	2.3	32.8	7.5	1.5	—	8.9	—	—	43.8
1973	3.1	25.2	44.4	3.6	—	48.1	—	—	76.3
1974	8.2	22.8	86.7	0.3	—	95.0	—	—	126.0
1975	18.6	15.8	76.4	21.6	—	97.2	—	—	128.8
1976	29.7	21.3	72.4	15.7	—	88.1	—	—	138.8
1977	75.7	33.8	98.6	16.7	—	117.3	—	—	226.8
1978	72.7	77.1	57.8	18.1	—	76.8	—	—	226.5
1979	163.7	112.5	89.3	15.3	—	88.8	—	—	374.8
1980	226.5	126.7	28.1	16.8	—	45.7	—	—	388.7
1981	308.6	161.7	6.4	12.8	—	18.1	—	—	489.4
1982	351.0	118.8	4.7	10.9	—	15.8	—	—	480.4
1983	321.6	82.5	17.8	7.9	—	29.5	—	—	429.6
1984	348.0	108.8	15.5	6.4	—	21.9	—	—	477.7
1985	386.0	105.5	3.4	7.7	—	11.8	8.4	—	506.5
1986	340.5	75.2	0.1	5.1	—	6.1	89.8	—	400.6
1987	350.2	80.7	1.5	8.3	—	9.8	118.4	—	530.1
1988	416.3	58.7	0.3	4.9	—	5.2	190.6	—	671.5
1989	488.4	118.0	2.0	5.8	—	8.2	71.8	—	684.3
1990	472.4	88.5	0.2	4.8	—	8.2	158.1	—	688.2
1991	470.0	47.9	0.3	4.2	—	4.5	185.9	—	711.4
1992	488.2	70.8	0.2	3.3	—	3.6	149.6	—	713.0
1993	508.7	50.0	0.4	2.8	—	3.2	136.0	—	706.9
1994	532.4	52.8	3.2	1.7	—	4.9	141.1	—	731.4

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

—No consumption.

(a)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 28. Energy Price and Expenditure Estimates by Source, 1970-1994, Arkansas

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum						Nuclear Fuel	Biomass	Total ^c				
	Caking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b				Total			
Prices in Nominal Dollars per Million Btu																	
1970	—	—	—	0.38	0.96	0.72	1.03	2.74	0.49	\$1.26	1.07	—	—	1.08	0.28	1.32	1.52
1971	—	0.42	0.42	0.40	1.04	0.75	1.73	2.84	0.59	\$1.26	1.06	—	—	1.13	0.33	1.45	1.65
1972	—	0.46	0.46	0.44	1.05	0.75	1.83	2.77	0.63	\$1.34	1.06	—	—	1.17	0.40	1.57	1.70
1973	—	0.64	0.64	0.49	1.27	0.89	2.59	2.96	0.72	\$1.41	2.01	—	—	1.31	0.52	1.83	2.01
1974	—	0.91	0.91	0.60	2.18	1.54	2.93	4.08	1.61	\$2.22	2.00	0.28	—	1.99	1.00	2.99	3.26
1975	—	1.22	1.22	0.79	2.39	2.01	3.12	4.69	1.72	\$2.67	3.31	0.34	—	2.91	0.73	3.64	3.98
1976	—	1.47	1.47	0.93	2.49	2.12	3.72	4.82	1.05	\$2.77	3.42	0.22	—	2.33	1.12	3.45	3.71
1977	—	1.34	1.34	1.42	2.69	2.49	4.04	5.15	1.87	\$2.98	3.57	0.22	—	2.63	1.30	3.93	4.23
1978	—	1.22	1.22	1.43	2.95	2.89	3.63	5.20	1.91	\$3.22	3.95	0.24	—	2.65	1.23	4.05	4.37
1979	—	1.24	1.24	1.95	4.19	3.95	5.40	7.08	2.46	\$4.09	4.92	0.51	—	3.29	1.49	5.78	6.27
1980	—	1.44	1.44	2.27	5.64	5.34	6.87	9.88	3.23	\$5.92	7.57	0.64	—	4.38	1.48	6.86	7.34
1981	—	1.59	1.59	2.81	7.29	7.47	6.58	11.94	4.25	\$8.08	9.00	0.65	—	4.79	1.48	7.27	7.75
1982	—	1.77	1.77	3.40	7.50	7.08	7.46	19.39	3.69	\$7.16	8.77	0.67	—	4.95	1.56	6.51	6.97
1983	—	1.74	1.74	3.75	\$6.56	\$6.52	7.85	8.82	3.68	\$7.47	\$7.82	0.76	—	\$4.80	1.62	\$7.42	\$7.93
1984	—	1.92	1.92	3.92	\$6.57	\$6.25	7.87	8.85	4.08	\$8.59	\$7.84	0.78	—	\$4.46	1.64	\$7.10	\$7.61
1985	—	1.99	1.99	3.89	\$6.53	\$6.08	8.84	8.89	4.81	\$8.23	\$7.79	0.77	—	\$4.29	1.66	\$6.95	\$7.46
1986	—	1.69	1.69	3.53	\$5.19	3.83	7.54	6.84	2.37	\$6.47	\$6.28	0.71	—	\$3.57	1.32	\$4.89	\$5.40
1987	—	1.67	1.67	3.34	\$5.73	4.07	7.29	7.28	2.74	\$7.46	\$6.98	0.76	—	3.82	1.28	\$5.10	\$5.61
1988	—	1.80	1.80	3.43	\$5.31	3.89	7.79	7.13	3.08	\$7.04	\$6.45	0.74	—	\$3.88	1.34	\$5.22	\$5.73
1989	—	1.69	1.69	3.29	\$5.00	4.27	7.17	7.49	2.05	\$6.38	\$7.05	0.76	—	\$3.92	1.39	\$5.31	\$5.82
1990	—	1.62	1.62	3.27	\$7.34	5.89	10.75	8.99	2.85	\$8.23	\$8.31	0.73	\$1.48	\$4.87	1.33	\$6.20	\$6.71
1991	—	1.61	1.61	3.36	\$7.04	5.01	11.20	8.81	2.39	\$8.20	\$8.26	0.70	1.55	\$3.86	1.27	\$6.13	\$6.64
1992	—	1.68	1.68	3.44	\$6.77	4.52	10.13	8.69	2.08	\$8.17	\$8.00	0.64	1.55	\$3.82	1.31	\$6.13	\$6.64
1993	—	1.71	1.71	3.76	\$6.82	4.46	9.58	8.58	2.08	\$7.52	\$7.89	0.58	1.49	\$4.07	1.29	\$6.36	\$6.87
1994	—	1.61	1.61	3.66	6.99	4.30	7.47	8.98	2.87	8.67	7.90	0.48	1.50	3.96	1.19	8.15	8.66
Expenditures in Million Nominal Dollars																	
1970	—	—	—	133.8	31.1	8.5	62.4	329.7	2.4	\$44.2	489.3	—	—	489.3	-39.3	450.0	489.3
1971	—	(6)	(6)	129.9	38.1	9.2	68.4	354.8	10.6	\$48.2	525.3	—	—	525.3	-34.7	490.6	555.1
1972	—	(4)	(4)	128.4	47.8	8.8	72.6	374.7	21.9	\$61.4	577.3	—	—	577.3	-40.8	536.5	617.3
1973	—	1.4	1.4	149.0	72.7	8.7	104.2	418.9	42.4	\$81.6	708.4	—	—	708.4	-49.3	659.1	758.5
1974	—	2.4	2.4	168.1	130.4	16.9	107.9	599.2	105.3	\$87.6	1,028.5	1.0	—	1,029.5	-87.0	942.5	1,039.5
1975	—	1.1	1.1	185.8	189.8	21.7	108.4	999.5	97.8	\$102.4	1,139.6	12.7	—	1,152.3	-82.2	1,070.1	1,162.3
1976	—	5.3	5.3	214.5	145.4	21.9	134.9	737.4	153.1	\$112.8	1,305.5	9.8	—	1,315.3	-125.6	1,189.7	1,315.3
1977	—	7.1	7.1	307.1	199.9	27.2	133.7	806.2	220.0	\$138.8	1,529.0	12.3	—	1,541.3	-195.2	1,346.1	1,553.4
1978	—	27.8	27.8	267.4	209.9	29.8	80.3	852.6	286.0	\$166.9	1,544.4	14.9	—	1,559.3	-205.7	1,353.6	1,568.5
1979	—	38.4	38.4	345.8	354.1	41.9	191.1	921.2	177.3	\$187.9	1,793.1	13.2	—	1,806.3	-216.7	1,589.6	1,806.3
1980	—	82.8	82.8	581.7	376.2	79.8	123.7	1,391.9	199.3	\$266.8	2,418.9	48.8	—	2,467.7	-286.3	2,181.4	2,467.7
1981	—	161.7	161.7	672.1	354.7	79.7	80.1	1,525.6	94.1	\$286.5	2,599.4	65.5	—	2,664.9	-379.5	2,285.4	2,664.9
1982	—	221.2	221.2	678.9	371.7	77.6	189.3	1,418.4	46.0	\$294.4	2,448.7	55.7	—	2,504.4	-368.4	2,136.0	2,504.4
1983	—	309.4	309.4	697.9	\$501.4	\$56.5	117.7	1,204.7	11.2	\$321.8	2,246.5	62.6	—	\$3,298.4	-455.2	\$2,843.2	\$3,298.4
1984	—	293.9	293.9	738.4	\$532.7	\$68.5	90.9	1,227.2	12.7	\$305.0	\$2,339.0	91.7	—	\$3,365.9	-480.8	\$2,885.1	\$3,365.9
1985	—	351.3	351.3	536.9	\$589.9	\$6.7	112.9	1,235.5	97.8	\$181.2	\$2,162.4	82.8	—	\$3,238.1	-451.4	\$2,786.7	\$3,238.1
1986	—	354.7	354.7	613.9	\$583.8	41.1	184.3	1,201.9	11.1	\$134.1	\$1,686.2	66.0	—	\$2,721.9	-454.4	\$2,267.5	\$2,721.9
1987	—	330.7	330.7	495.4	\$448.4	45.8	93.4	1,089.8	3.4	\$134.2	\$1,604.8	91.8	—	\$2,715.7	-459.1	\$2,256.6	\$2,715.7
1988	—	349.4	349.4	632.7	\$438.6	44.5	99.9	1,108.1	5.9	\$139.8	\$1,827.8	70.4	—	\$2,898.3	-445.0	\$2,453.3	\$2,898.3
1989	—	332.9	332.9	794.6	\$512.6	48.2	98.9	1,167.7	6.6	\$122.2	\$1,873.0	71.4	—	\$3,101.7	-446.2	\$2,655.5	\$3,101.7
1990	—	944.9	944.9	686.9	\$683.3	64.5	127.3	1,344.4	2.7	\$121.3	\$2,948.9	89.3	\$32.8	\$3,389.1	-479.2	\$2,909.9	\$3,389.1
1991	—	385.9	385.9	635.2	\$552.5	48.6	133.8	1,342.2	1.1	\$111.1	\$2,169.5	96.4	38.6	\$3,303.5	-473.8	\$2,829.7	\$3,303.5
1992	—	385.3	385.3	675.5	\$594.6	38.0	110.5	1,342.8	0.2	\$134.8	\$2,220.5	77.7	38.7	\$3,376.7	-475.9	\$2,900.8	\$3,376.7
1993	—	342.5	342.5	\$702.8	\$621.8	25.2	119.7	\$1,369.9	\$2.0	\$137.5	\$2,276.1	81.5	37.8	\$3,590.7	-480.9	\$3,109.8	\$3,590.7
1994	—	357.3	357.3	700.9	679.8	30.0	96.8	1,301.9	3.9	139.4	2,350.6	72.0	37.3	3,808.1	-484.3	3,323.8	3,808.1

^a Liquefied petroleum gases.^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

R-Revised data.

—No comparison, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(\$)-Value less than \$0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are detailed in Appendix A.

Table 30. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Arkansas

Year	Primary Energy							Electricity	Total Energy ^c	
	Coal	Natural Gas	Petroleum				Biofuels ^d			Total ^e
			Distillate Fuel	Kerosene	LPG ^a	Total				
Prices in Nominal Dollars per Million Btu										
1970	—	0.75	0.89	1.40	1.84	1.81	—	1.07	6.82	1.91
1971	—	0.79	1.01	1.41	1.95	1.92	—	1.19	6.92	2.19
1972	—	0.83	1.02	1.48	1.79	1.76	—	1.19	7.06	2.34
1973	—	0.87	1.32	1.67	3.27	3.12	—	1.69	7.03	2.84
1974	—	1.06	2.28	2.74	3.09	3.02	—	1.79	8.46	3.32
1975	—	1.12	2.46	2.86	3.51	3.44	—	1.82	8.16	3.99
1976	—	1.23	2.54	2.90	4.39	4.25	—	2.17	10.72	4.48
1977	2.01	1.94	2.91	3.43	4.58	4.42	—	2.89	11.91	5.41
1978	2.91	1.96	2.97	3.90	3.77	3.69	—	2.40	12.42	5.72
1979	—	1.54	4.57	5.13	4.62	6.35	—	2.53	12.69	5.86
1980	2.97	2.48	6.54	—	8.77	8.54	—	3.48	15.59	6.14
1981	2.74	3.06	8.06	9.39	7.17	7.28	—	3.83	16.55	8.39
1982	3.30	3.84	7.61	9.33	8.75	8.78	—	4.46	19.15	9.83
1983	2.54	4.32	5.07	8.28	8.94	8.87	—	5.28	21.20	10.84
1984	3.27	4.29	7.55	8.09	8.61	8.40	—	5.07	21.12	10.65
1985	3.19	4.38	18.33	11.07	8.46	8.82	—	8.81	21.81	11.83
1986	—	4.77	4.38	4.70	7.38	7.31	—	5.22	22.66	12.19
1987	2.88	4.57	5.30	6.66	7.42	7.39	—	4.99	22.46	12.15
1988	2.62	4.78	4.71	5.06	7.93	7.88	—	5.21	22.31	12.11
1989	2.54	4.83	4.98	5.30	6.87	6.83	—	5.15	22.78	12.27
1990	2.70	5.06	7.89	8.24	10.79	10.74	^d 9.59	^d 9.59	23.45	^d 13.81
1991	2.81	4.90	7.11	7.82	12.16	12.09	^e 3.83	^e 5.73	23.76	^e 12.88
1992	2.69	5.07	4.89	5.34	10.98	10.54	^e 3.50	^e 5.94	24.26	^e 12.94
1993	2.73	5.31	5.89	6.09	9.81	9.87	^e 3.50	^e 5.77	24.25	^e 13.07
1994	2.83	5.59	5.38	5.76	10.13	10.10	^e 3.50	^e 6.06	23.96	13.23
Expenditures in Million Nominal Dollars										
1970	—	45.1	0.4	1.2	46.8	47.2	—	92.3	990.5	192.8
1971	—	38.4	0.4	0.9	51.2	52.4	—	90.8	111.8	202.9
1972	—	39.2	0.9	0.7	50.8	52.4	—	91.9	132.5	224.1
1973	—	42.6	1.2	2.2	55.0	55.4	—	129.1	147.3	278.4
1974	—	45.6	2.9	2.5	56.6	73.9	—	120.6	175.9	290.2
1975	—	54.2	3.2	2.9	67.4	71.7	—	128.8	247.4	373.2
1976	—	60.5	2.9	2.0	69.0	83.9	—	154.3	289.3	437.7
1977	(a)	97.1	3.9	3.6	99.0	96.3	—	193.5	358.1	581.8
1978	0.1	94.0	3.9	4.7	51.2	69.9	—	153.9	396.1	648.9
1979	—	79.3	11.1	2.1	70.3	83.5	—	161.7	389.7	681.4
1980	0.1	119.9	5.9	—	96.9	74.8	—	198.8	548.7	734.6
1981	(a)	130.2	0.9	2.2	45.4	46.8	—	178.8	478.9	654.7
1982	0.1	171.7	0.9	2.7	32.3	55.5	—	227.4	569.1	790.3
1983	(a)	188.6	(a)	41.5	83.5	105.0	—	293.6	636.5	930.1
1984	0.1	200.7	(a)	38.8	56.1	91.8	—	292.8	631.8	924.2
1985	(a)	177.9	(a)	1.8	63.8	68.5	—	343.5	667.9	871.3
1986	—	186.2	(a)	0.7	61.6	62.3	—	248.5	716.2	984.7
1987	(a)	185.5	(a)	0.7	52.1	52.8	—	238.5	743.8	992.1
1988	(a)	206.2	(a)	0.7	54.3	55.1	—	251.3	757.0	1,018.3
1989	0.1	205.2	(a)	0.9	32.4	53.3	—	258.6	774.0	1,032.0
1990	(a)	189.9	(a)	8.9	72.3	72.3	^d 6.8	^d 279.9	882.8	^d 1,131.9
1991	(a)	202.4	(a)	0.6	73.5	74.1	7.1	^e 283.7	892.0	^e 1,175.0
1992	0.1	201.3	5.4	0.2	57.9	58.5	7.5	^e 287.4	865.0	^e 1,132.4
1993	(a)	245.0	(a)	0.3	61.0	61.4	6.7	^e 319.1	973.0	^e 1,298.1
1994	(a)	237.1	(a)	0.2	61.4	61.7	6.6	^e 305.9	940.9	1,245.4

^a Liquefied petroleum gases.
^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.
^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.

Revised data.
 —No consumption.
 (a) Value less than 0.05 million nominal dollars.
 Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 31. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Arkansas

Year	Primary Energy								Electricity	Total Energy ^b		
	Coal	Natural Gas	Petroleum					Total				
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel					
Prices in Nominal Dollars per Million Btu												
1970	—	0.52	0.86	0.77	1.23	2.74	0.42	1.37	0.64	1.68		
1971	—	0.55	0.92	0.82	1.32	2.84	0.60	1.41	0.69	1.89		
1972	—	0.57	0.93	0.82	1.35	2.77	0.66	1.31	0.71	1.95		
1973	—	0.62	1.21	1.08	1.43	2.96	0.72	1.28	0.76	2.02		
1974	—	0.73	2.14	2.09	2.71	4.09	1.68	2.23	1.15	2.61		
1975	—	0.80	2.29	2.32	2.64	4.68	1.78	2.23	1.26	3.00		
1976	—	1.02	2.42	2.38	2.65	4.82	1.90	2.40	1.39	3.53		
1977	1.34	1.68	2.79	3.03	3.27	5.16	2.03	2.70	1.66	4.38		
1978	1.71	1.63	2.84	3.11	3.48	5.30	1.91	2.72	1.68	4.60		
1979	—	2.22	4.37	3.92	3.80	7.06	2.57	3.47	2.51	5.21		
1980	1.83	2.29	6.25	5.51	5.54	8.93	3.33	5.24	2.88	8.73		
1981	2.07	2.63	7.71	6.53	6.08	11.04	3.58	7.00	3.36	9.92		
1982	2.13	3.64	7.28	8.18	8.57	10.39	3.96	7.14	4.06	10.23		
1983	2.18	4.00	R 6.07	6.98	7.09	9.62	3.74	R 6.51	R 5.13	R 9.51		
1984	2.06	4.10	R 6.14	8.38	7.12	8.55	4.61	R 7.33	5.45	R 9.08		
1985	2.12	4.05	R 6.13	R 7.95	8.65	8.68	—	R 6.78	18.86	R 9.81		
1986	—	4.33	R 3.69	R 4.80	7.83	6.64	2.42	R 5.15	R 4.64	R 10.82		
1987	2.02	4.21	R 4.04	R 5.80	7.13	7.28	—	R 5.64	R 4.39	R 10.55		
1988	2.04	4.31	R 3.63	R 4.98	7.45	7.13	—	R 5.68	R 4.48	R 10.51		
1989	1.98	4.38	R 4.15	R 5.90	7.40	7.69	—	R 5.67	R 4.53	R 10.78		
1990	1.98	4.43	R 6.47	R 7.58	8.43	8.88	—	R 7.07	R 4.83	R 11.87		
1991	1.88	4.28	R 4.79	R 6.80	10.22	8.61	—	R 6.94	R 4.58	R 11.53		
1992	1.85	4.36	R 4.45	R 6.28	9.62	8.69	2.00	R 6.27	R 4.58	R 11.72		
1993	1.88	4.37	R 4.32	R 6.13	9.21	R 8.56	2.08	R 5.92	R 4.54	R 11.42		
1994	1.73	4.48	4.00	5.16	8.28	8.88	—	5.40	4.58	11.48		
Expenditures in Million Nominal Dollars												
1970	—	28.8	0.2	0.4	6.4	2.8	0.1	8.7	28.3	57.1		
1971	—	18.9	0.2	0.3	6.1	2.0	0.2	8.8	25.7	58.4		
1972	—	18.5	0.5	0.2	6.8	1.8	0.9	10.2	28.7	59.7		
1973	—	20.9	0.8	0.9	6.4	2.0	2.2	12.2	33.0	111.0		
1974	—	23.5	1.5	1.2	10.7	2.7	8.8	24.8	48.3	140.7		
1975	—	29.7	1.3	1.0	8.9	3.6	11.9	26.5	54.2	184.7		
1976	—	34.8	1.5	1.0	10.2	3.7	13.5	29.9	64.6	218.0		
1977	(s)	54.7	2.1	1.9	11.2	3.9	12.5	31.6	88.4	272.1		
1978	0.1	56.2	2.1	2.5	8.3	5.0	10.7	28.6	84.9	287.0		
1979	—	75.5	6.0	1.0	6.8	8.7	15.2	35.8	111.4	319.5		
1980	8.2	69.9	4.1	4.1	7.7	8.8	9.2	33.8	103.5	371.3		
1981	(s)	79.0	7.9	2.1	8.6	10.0	9.3	30.1	109.7	398.2		
1982	0.1	109.9	5.9	3.5	6.9	9.1	9.5	29.9	135.6	416.4		
1983	(s)	115.8	R 53.6	67.1	8.8	6.1	2.7	R 138.2	R 254.0	R 669.8		
1984	0.1	121.1	R 53.3	89.8	8.2	4.1	2.2	R 157.3	R 278.6	R 637.0		
1985	(s)	110.5	R 41.8	R 5.8	11.5	6.5	—	R 82.8	R 173.1	R 553.5		
1986	—	109.5	R 3.9	R 0.2	11.6	4.2	0.1	R 19.9	R 129.4	R 526.9		
1987	(s)	104.8	R 8.5	R 0.2	8.8	5.0	—	R 22.4	R 127.2	R 526.0		
1988	(s)	112.2	R 5.4	R 0.3	9.0	4.6	—	R 19.3	R 138.5	R 546.6		
1989	0.1	119.4	R 10.6	0.1	8.8	4.4	—	R 24.9	R 144.4	R 584.4		
1990	(s)	112.1	R 44.0	8.1	11.2	8.6	—	R 31.8	R 143.8	R 608.8		
1991	(s)	113.0	R 9.5	0.1	10.9	3.7	—	R 24.3	R 137.3	R 617.3		
1992	(s)	110.9	R 9.8	R 0.2	9.2	3.3	0.1	R 22.5	R 133.4	R 611.4		
1993	(s)	126.2	R 10.7	0.2	10.0	1.3	(s)	R 22.2	R 150.4	R 682.4		
1994	(s)	125.5	10.1	0.1	8.9	1.3	—	20.4	145.9	686.0		

^a Liquefied petroleum gases^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R=Revised data

—No consumption

(s)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 32. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Arkansas

Year	Primary Energy															Electricity	Total Energy ^c			
	Coal			Natural Gas	Petroleum										Biomass ^d					
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total	Biomass ^d	Total ^d					
Prices in Nominal Dollars per Million Btu																				
1970	—	—	—	0.28	8.85	6.67	6.77	1.23	6.69	2.74	8.46	8.88	8.90	—	8.85	2.75	6.80			
1971	—	0.42	0.42	0.31	0.73	6.71	0.82	1.32	8.27	2.94	0.58	0.96	1.04	—	0.51	2.92	0.75			
1972	—	0.46	0.46	0.35	0.77	6.73	0.82	1.35	5.58	2.77	0.58	0.99	1.01	—	0.56	3.14	0.82			
1973	—	0.84	0.84	0.40	0.82	0.94	1.09	1.43	5.33	2.95	0.76	1.15	1.11	—	0.81	3.58	0.88			
1974	—	0.91	0.91	0.48	1.38	1.82	2.09	2.71	7.22	4.09	1.52	1.84	1.90	—	0.87	4.08	1.35			
1975	—	1.32	1.32	0.68	1.81	2.08	2.32	2.84	7.48	4.80	1.88	2.32	2.18	—	1.29	5.18	1.83			
1976	—	1.47	1.47	0.82	1.85	2.05	2.30	2.85	7.05	4.82	1.86	2.60	2.25	—	1.29	6.74	1.98			
1977	—	1.34	1.34	1.18	2.01	2.59	3.00	3.27	6.97	5.15	1.81	2.65	2.53	—	1.76	7.33	2.45			
1978	—	1.71	1.71	1.16	2.21	2.65	3.11	3.46	7.80	—	1.84	3.02	2.68	—	1.83	7.47	2.58			
1979	—	1.55	1.55	1.21	2.58	3.64	3.92	3.80	10.21	7.06	2.29	4.13	3.98	—	2.23	7.64	3.01			
1980	—	1.89	1.89	2.94	3.88	4.87	5.81	6.84	14.38	9.83	2.85	8.85	4.88	—	2.38	9.15	4.17			
1981	—	2.07	2.07	2.78	4.77	5.83	6.63	6.08	16.00	11.04	4.63	8.44	6.29	—	4.08	11.14	5.06			
1982	—	2.13	2.13	3.25	4.42	7.14	8.19	6.67	17.28	10.30	3.87	7.86	6.47	—	4.52	11.86	5.52			
1983	—	2.18	2.18	3.86	4.28	8.34	9.68	7.03	18.08	8.82	3.82	7.82	6.33	—	4.82	12.04	6.82			
1984	—	2.08	2.08	3.81	4.23	8.41	9.38	7.12	17.65	8.55	4.81	7.36	6.82	—	4.82	12.42	6.19			
1985	—	2.12	2.12	3.88	4.21	8.88	9.78	6.85	17.81	8.80	4.81	7.81	6.48	—	4.73	13.74	6.19			
1986	—	2.04	2.04	3.40	4.62	8.87	9.40	7.93	15.58	8.84	2.42	8.34	6.84	—	4.38	15.53	6.88			
1987	—	2.02	2.02	3.10	3.33	8.29	8.50	7.13	12.70	7.28	2.74	8.74	6.25	—	4.05	14.66	6.18			
1988	—	2.04	2.04	3.04	3.27	8.81	8.98	7.45	14.81	7.13	2.49	7.82	6.84	—	3.83	14.14	6.30			
1989	—	1.98	1.98	3.08	2.80	8.61	8.50	7.40	14.48	7.80	2.86	8.16	5.67	—	3.89	14.34	6.37			
1990	—	1.88	1.88	2.88	3.81	8.78	8.55	8.42	14.48	8.86	2.54	8.86	6.79	0.27	3.53	14.82	6.31			
1991	—	1.86	1.86	3.01	3.22	8.68	8.60	10.22	16.78	8.81	2.30	7.16	6.63	1.39	3.48	14.80	6.48			
1992	—	1.88	1.88	3.11	2.83	8.61	8.35	8.82	16.43	8.89	2.00	8.59	5.82	1.39	3.54	14.72	6.40			
1993	—	1.88	1.88	3.27	2.70	8.68	8.13	9.21	16.84	8.88	2.08	7.59	5.88	1.39	3.55	14.20	6.44			
1994	—	1.78	1.78	3.21	2.72	4.43	8.79	4.84	18.18	8.88	2.31	8.36	5.28	1.34	3.37	13.48	5.15			
Expenditures in Million Nominal Dollars																				
1970	—	—	—	46.7	9.4	7.7	2.6	8.3	7.1	4.2	6.5	8.9	47.7	—	88.3	59.1	147.4			
1971	—	(6)	(6)	43.3	11.8	7.8	2.5	8.1	7.3	3.9	6.3	14.2	54.9	—	98.2	63.9	162.2			
1972	—	(6)	(6)	48.6	12.4	11.8	1.9	10.3	8.3	3.8	2.7	14.5	65.6	—	114.1	73.8	187.7			
1973	—	1.4	1.4	68.2	14.1	17.0	4.2	10.7	8.6	3.0	8.4	17.5	83.6	—	153.2	87.3	240.6			
1974	—	2.4	2.4	72.8	22.5	34.1	5.8	21.9	11.2	2.7	28.8	28.1	151.1	—	228.4	124.1	350.4			
1975	—	3.1	3.1	82.3	27.4	34.5	8.3	28.4	14.8	4.1	28.7	33.3	182.8	—	288.8	194.4	370.4			
1976	—	5.3	5.3	108.5	30.0	37.7	5.8	26.4	14.8	2.9	38.2	40.1	193.8	—	305.6	189.5	495.1			
1977	—	8.9	8.9	148.3	33.4	66.3	11.1	24.2	11.3	0.3	34.1	64.2	234.9	—	380.1	231.0	611.1			
1978	—	11.3	11.3	128.1	36.0	70.4	14.0	20.4	19.3	—	31.9	58.2	245.1	—	385.8	242.3	627.8			
1979	—	11.7	11.7	138.7	56.0	131.2	8.2	23.3	18.8	0.3	40.9	75.8	353.1	—	503.5	297.4	798.8			
1980	—	12.8	12.8	268.8	65.9	188.5	18.7	68.8	23.3	2.7	25.9	188.8	384.4	—	662.1	326.3	1,000.4			
1981	—	15.9	15.9	311.4	86.8	185.0	9.5	33.1	28.1	2.2	44.6	120.8	480.2	—	787.5	348.7	1,136.2			
1982	—	15.9	15.9	297.1	82.3	187.8	17.7	42.3	24.8	1.4	38.6	83.4	443.1	—	758.1	315.7	1,073.8			
1983	—	28.4	28.4	282.9	82.1	184.1	10.6	35.5	25.3	0.7	13.4	73.2	384.9	—	689.2	354.2	1,043.4			
1984	—	17.5	17.5	319.2	21.3	182.9	11.2	21.7	28.0	21.8	10.4	69.4	386.7	—	703.3	388.6	1,101.9			
1985	—	17.8	17.8	314.5	35.3	214.2	11.9	23.4	28.0	28.1	18.8	65.9	422.6	—	754.1	391.6	1,145.9			
1986	—	15.8	15.8	270.8	30.1	112.4	10.5	28.6	22.5	17.3	10.5	38.9	261.0	—	647.4	378.8	1,026.1			
1987	—	13.6	13.6	146.0	28.5	118.3	10.6	30.6	20.8	17.9	3.4	42.5	254.4	—	641.1	379.1	1,020.2			
1988	—	11.7	11.7	276.7	29.8	110.3	10.4	34.6	23.0	16.9	2.8	35.7	253.3	—	641.7	388.7	1,030.3			
1989	—	11.8	11.8	350.3	16.9	105.1	10.6	36.6	23.4	14.6	2.7	40.3	227.1	—	649.3	430.7	1,079.9			
1990	—	11.8	11.8	383.9	8.9	109.8	10.7	48.8	34.3	18.3	2.8	48.3	257.9	25.9	684.4	472.8	1,157.2			
1991	—	12.8	12.8	279.7	11.4	78.7	10.7	45.6	28.0	21.0	1.1	28.8	211.1	29.4	632.9	487.8	1,120.8			
1992	—	13.2	13.2	320.8	17.4	123.0	10.3	41.3	29.8	20.0	0.2	32.8	264.5	29.2	627.7	520.5	1,148.2			
1993	—	14.8	14.8	341.5	26.1	103.8	10.6	48.4	29.3	17.7	1.9	28.3	254.0	31.2	641.2	555.8	1,197.0			
1994	—	15.3	15.3	381.8	19.2	92.7	0.6	22.8	31.0	19.2	3.0	32.0	220.3	30.8	648.0	558.1	1,206.2			

^a Liquefied petroleum gases.

^b "Other" is the "other petroleum products" category described in Appendix A.

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

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

A=Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(x)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 33. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Arkansas

Year	Primary Energy										Electricity	Total Energy		
	Coal	Natural Gas	Petroleum							Total				
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel					
Prices in Nominal Dollars per Million Btu														
1970	—	—	2.17	1.16	0.72	1.23	6.08	2.70	6.46	2.36	—	2.36		
1971	0.42	—	2.21	1.22	0.75	1.32	5.27	2.84	—	2.47	—	2.47		
1972	0.49	—	2.19	1.23	0.75	1.35	5.59	2.77	—	2.39	—	2.39		
1973	0.64	—	2.36	1.44	0.89	1.43	5.33	2.86	0.70	2.55	—	2.55		
1974	0.91	—	3.23	2.35	1.64	2.71	7.22	4.09	1.66	3.61	—	3.61		
1975	1.22	—	3.45	2.53	2.81	2.84	7.48	4.68	1.57	4.86	—	4.86		
1976	1.47	—	3.59	2.89	2.12	2.85	7.06	4.82	—	4.28	—	4.28		
1977	1.34	—	3.67	3.09	2.48	3.27	6.97	5.15	1.89	4.82	—	4.82		
1978	—	—	4.29	3.16	2.86	3.40	7.40	5.30	1.77	4.78	—	4.78		
1979	—	—	5.73	4.73	3.96	3.80	10.21	7.99	—	6.39	—	6.39		
1980	—	—	9.82	8.70	8.34	5.54	14.36	9.85	—	8.11	—	8.11		
1981	—	—	10.84	8.10	7.47	6.08	19.00	11.04	—	10.23	—	10.23		
1982	—	—	10.92	7.70	7.09	6.57	17.25	10.30	—	9.81	—	9.81		
1983	—	—	10.44	6.93	R 6.52	7.08	16.99	9.82	—	R 6.41	—	R 6.41		
1984	—	—	10.67	6.75	R 6.25	7.12	17.63	9.55	—	6.14	—	6.14		
1985	—	—	8.89	6.38	5.38	5.85	17.81	8.38	—	5.26	—	5.26		
1986	—	—	8.41	6.08	3.83	7.35	15.09	6.84	—	5.63	—	5.63		
1987	—	—	7.65	6.59	4.07	7.13	12.70	7.28	—	7.01	—	7.01		
1988	—	—	7.41	6.21	3.66	7.45	14.81	7.13	—	6.81	—	6.81		
1989	—	—	6.28	6.71	4.27	7.40	14.48	7.69	—	7.35	—	7.35		
1990	—	—	8.32	7.87	6.80	8.42	14.88	8.88	—	8.54	—	8.54		
1991	—	—	8.71	7.54	6.81	10.22	16.78	8.61	—	8.42	—	8.42		
1992	—	—	8.54	7.69	4.92	9.62	19.43	8.89	—	8.42	—	8.42		
1993	—	—	8.24	7.85	4.45	9.21	18.94	R 8.59	—	R 8.31	—	R 8.31		
1994	—	—	7.96	7.59	4.30	8.04	19.18	8.58	—	8.23	—	8.23		
Expenditures in Million Nominal Dollars														
1970	—	—	3.2	22.8	8.5	3.2	8.2	318.9	(a)	363.9	—	363.9		
1971	(a)	—	3.2	24.6	8.3	4.1	8.9	348.9	—	389.0	—	389.0		
1972	(a)	—	3.5	34.5	8.8	4.7	10.0	368.2	—	430.7	—	430.7		
1973	(a)	—	3.5	53.7	9.7	4.1	10.5	413.7	(a)	495.3	—	495.3		
1974	(a)	—	4.8	91.7	16.9	6.8	13.7	574.7	0.1	708.8	—	708.8		
1975	(a)	—	4.4	94.4	21.7	8.7	14.0	698.9	0.1	808.2	—	808.2		
1976	(a)	—	4.4	103.7	21.9	8.4	14.7	730.9	—	863.9	—	863.9		
1977	(a)	—	5.2	123.1	27.2	8.4	18.3	802.0	(a)	985.3	—	985.3		
1978	—	—	5.9	129.3	29.8	8.5	21.4	847.7	0.1	1,043.6	—	1,043.6		
1979	—	—	7.3	204.4	41.3	9.7	30.0	914.5	—	1,198.0	—	1,198.0		
1980	—	—	12.5	261.8	78.0	4.2	37.6	1,379.7	—	1,758.4	—	1,758.4		
1981	—	—	13.6	388.6	70.7	4.8	45.2	1,513.2	—	2,037.2	—	2,037.2		
1982	—	—	10.6	378.3	77.6	7.7	39.5	1,405.1	—	1,918.9	—	1,918.9		
1983	—	—	10.8	261.8	R 56.5	8.8	40.8	1,197.8	—	R 1,577.4	—	R 1,577.4		
1984	—	—	5.8	296.0	R 68.6	4.8	48.1	1,201.3	—	R 1,621.8	—	R 1,621.8		
1985	—	—	4.4	293.5	65.7	4.8	42.8	1,208.9	—	1,611.1	—	1,611.1		
1986	—	—	4.7	277.1	41.1	2.6	38.4	980.4	—	1,342.3	—	1,342.3		
1987	—	—	3.5	323.4	48.8	2.8	33.5	1,088.7	—	1,474.9	—	1,474.9		
1988	—	—	3.7	319.1	44.5	2.0	37.1	1,085.5	—	1,483.0	—	1,483.0		
1989	—	—	4.3	403.2	45.2	1.9	37.8	1,169.9	—	1,601.3	—	1,601.3		
1990	—	—	6.9	463.2	84.8	2.9	38.2	1,316.9	—	1,881.6	—	1,881.6		
1991	—	—	6.9	480.0	48.8	2.8	40.3	1,317.5	—	1,875.9	—	1,875.9		
1992	—	—	6.8	469.8	29.0	2.2	47.8	1,319.3	—	1,872.3	—	1,872.3		
1993	—	—	6.6	503.9	25.2	2.3	47.2	R 1,351.0	—	R 1,835.1	—	R 1,835.1		
1994	—	—	6.3	574.1	38.0	3.8	55.0	1,371.4	—	2,044.4	—	2,044.4		

^a Liquefied petroleum gases.

R-Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)-Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 34. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Arkansas

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biofuels	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
	Prices in Nominal Dollars per Million Btu								
1970	—	0.25	0.42	0.40	—	0.42	—	—	0.26
1971	—	0.26	0.50	0.67	—	0.50	—	—	0.33
1972	—	0.30	0.64	0.73	—	0.64	—	—	0.40
1973	—	0.35	0.71	1.07	—	0.71	—	—	0.52
1974	—	0.40	1.04	2.02	—	1.04	0.25	—	1.00
1975	—	0.45	1.79	2.22	—	1.79	0.24	—	0.72
1976	—	0.70	1.92	2.47	—	1.92	0.22	—	1.12
1977	—	0.97	2.00	2.62	—	2.01	0.22	—	1.30
1978	1.01	1.10	1.92	2.59	—	1.94	0.24	—	1.23
1979	1.14	1.71	2.50	2.89	—	2.50	0.31	—	1.46
1980	1.34	2.16	3.34	4.34	—	3.39	0.64	—	1.46
1981	1.55	2.69	3.58	4.16	—	3.67	0.65	—	1.49
1982	1.75	2.99	3.68	4.74	—	4.53	0.67	—	1.56
1983	1.72	3.21	3.75	5.96	—	5.12	0.75	—	1.82
1984	1.81	3.37	3.79	6.44	—	5.93	0.76	—	1.54
1985	1.59	2.82	3.84	5.86	—	4.99	0.77	—	1.36
1986	1.56	1.98	1.65	4.43	—	2.20	0.71	—	1.32
1987	1.55	1.52	2.76	3.85	—	3.66	0.75	—	1.25
1988	1.89	1.35	3.81	5.12	—	4.43	0.74	—	1.39
1989	1.63	1.65	3.28	4.35	—	3.81	0.75	—	1.38
1990	1.61	1.64	2.75	4.94	—	4.72	0.73	—	1.32
1991	1.60	1.41	2.72	5.64	—	5.61	0.70	—	1.27
1992	1.65	1.53	2.16	4.81	—	4.81	0.64	—	1.31
1993	1.70	2.21	2.07	4.58	—	4.47	0.59	—	1.29
1994	1.60	1.82	2.62	4.04	—	3.58	0.48	—	1.19
Expenditures in Million Nominal Dollars									
1970	—	27.4	1.8	(b)	—	1.9	—	—	29.3
1971	—	24.5	10.1	0.1	—	10.2	—	—	34.7
1972	—	22.2	16.3	0.1	—	16.5	—	—	40.6
1973	—	17.4	31.8	0.1	—	31.9	—	—	49.3
1974	—	16.1	69.6	0.3	—	69.9	1.0	—	87.0
1975	—	19.7	49.0	0.6	—	49.6	12.7	—	82.2
1976	—	12.8	103.4	0.7	—	104.1	9.8	—	126.5
1977	—	7.0	173.4	2.5	—	175.0	12.9	—	195.2
1978	16.2	8.1	163.3	4.1	—	187.4	14.0	—	205.7
1979	27.7	53.1	121.2	1.4	—	122.6	13.2	—	216.7
1980	40.3	130.1	95.9	4.5	—	99.8	46.8	—	286.3
1981	145.6	150.9	16.1	1.2	—	17.3	65.6	—	379.6
1982	205.3	163.3	2.9	1.2	—	4.1	55.7	—	368.4
1983	289.0	110.8	1.2	1.8	—	3.0	62.6	—	465.2
1984	281.2	87.3	0.1	0.5	—	0.6	91.7	—	460.8
1985	334.8	34.8	0.2	0.4	—	0.6	82.3	—	451.4
1986	336.9	46.7	0.5	0.3	—	0.8	88.0	—	454.4
1987	317.0	50.3	(b)	0.2	—	0.2	91.6	—	459.1
1988	337.7	90.7	3.2	3.9	—	7.1	70.4	—	445.9
1989	320.8	49.7	2.8	3.6	—	6.4	71.4	—	445.2
1990	333.3	50.3	0.3	4.0	—	4.3	69.3	—	478.2
1991	334.2	40.1	(b)	4.2	—	4.2	95.4	—	473.8
1992	353.1	42.4	(a)	2.7	—	2.7	77.7	—	475.8
1993	327.9	46.1	0.1	3.4	—	3.4	81.5	—	460.9
1994	341.9	46.6	0.9	2.9	—	3.8	72.0	—	464.3

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

—No consumption.

(a) Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 35. Energy Price and Expenditure Estimates by Source, 1970-1994, California

Year	Primary Energy															Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^d								
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biomass	Total ^e												
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total															
Prices in Nominal Dollars per Million Btu																										
1970	8.43	8.83	0.45	9.56	1.26	8.73	1.84	2.86	0.38	11.37	1.78	8.19	8.85	1.20	0.34	4.78	1.73									
1971	8.47	8.54	0.47	9.62	1.37	8.77	1.89	2.84	0.50	11.48	1.83	8.19	8.69	1.27	0.41	5.01	1.81									
1972	8.52	8.63	0.52	9.85	1.28	8.77	1.96	2.79	0.74	11.64	1.86	8.19	8.72	1.30	0.49	5.38	1.91									
1973	8.61	8.89	0.61	9.72	1.55	8.91	2.21	3.08	0.91	11.81	2.01	8.18	8.77	1.47	0.67	5.88	2.12									
1974	1.28	1.03	1.29	0.92	2.80	1.57	2.64	4.47	1.93	12.49	3.18	8.12	8.64	2.27	1.33	7.04	2.03									
1975	1.38	0.82	1.32	1.28	2.97	2.84	3.89	4.84	2.38	12.81	3.83	8.21	8.82	2.81	1.82	8.71	3.47									
1976	1.51	1.15	1.43	1.55	3.10	2.33	3.27	5.04	2.35	12.66	3.59	8.26	8.96	2.83	1.96	9.48	3.91									
1977	1.58	1.29	1.47	1.91	3.12	2.62	3.85	5.33	2.29	12.68	3.71	8.26	1.04	3.05	2.15	11.36	4.27									
1978	1.70	1.40	1.59	2.09	3.13	2.98	4.37	6.48	2.43	13.04	3.91	8.29	1.12	3.28	2.29	12.39	4.58									
1979	1.74	1.61	1.69	2.47	4.83	3.78	4.81	7.47	3.01	14.12	5.16	8.37	1.56	4.19	2.65	12.49	5.55									
1980	1.87	1.82	1.91	3.84	6.82	6.21	6.09	10.18	4.48	16.86	7.37	8.48	1.74	5.95	3.98	17.18	7.71									
1981	2.26	2.05	2.16	3.88	7.54	7.58	6.53	11.33	5.94	16.68	8.80	8.85	1.24	6.87	4.64	18.88	8.88									
1982	2.07	2.31	2.19	4.70	7.41	7.37	7.04	10.82	6.08	17.75	8.92	8.77	1.28	7.12	5.02	21.85	9.32									
1983	—	2.37	2.37	5.31	8.88	8.91	8.68	9.96	5.58	17.82	9.78	1.07	1.12	8.78	4.79	20.79	9.88									
1984	—	2.41	2.41	5.42	8.88	8.28	7.78	9.74	5.31	17.57	9.47	1.11	1.29	8.53	4.34	20.94	9.78									
1985	—	2.38	2.38	5.81	8.67	8.81	9.35	8.88	4.79	17.67	9.65	0.95	0.79	8.20	3.70	22.90	9.83									
1986	—	2.28	2.28	4.02	8.34	8.88	9.52	6.58	2.71	16.99	8.69	0.92	0.32	8.05	2.16	23.21	9.77									
1987	—	2.09	2.09	3.77	8.69	4.04	9.57	6.95	2.51	16.89	8.95	0.99	0.96	8.79	2.02	22.70	9.80									
1988	—	1.95	1.95	4.05	8.82	3.84	9.43	7.06	2.31	16.30	8.80	0.90	0.87	8.89	2.17	23.42	9.94									
1989	—	1.93	1.93	4.10	8.57	4.50	8.86	7.65	2.58	15.80	8.30	0.85	(*)	8.10	2.20	24.91	9.84									
1990	—	2.01	2.01	4.31	7.87	5.78	10.21	8.87	3.68	15.33	7.21	0.72	2.37	8.54	2.17	25.88	9.96									
1991	—	1.99	1.99	4.49	7.36	4.90	10.95	8.18	2.57	16.23	8.90	0.87	2.44	8.56	1.95	27.70	9.05									
1992	—	1.83	1.83	4.11	7.84	4.53	10.84	9.19	1.88	16.44	7.56	0.85	2.48	8.70	1.87	28.99	9.55									
1993	—	1.80	1.80	4.11	7.96	4.50	11.38	9.09	2.03	16.26	7.46	0.44	2.34	8.67	1.93	28.61	9.42									
1994	—	1.80	1.80	4.27	7.78	4.03	11.58	9.07	2.08	16.44	7.27	0.47	2.24	8.60	1.75	28.78	9.46									
Expenditure in Million Nominal Dollars																										
1970	26.6	2.3	27.9	1,185.7	283.8	842.7	98.5	3,149.1	181.1	8,276.4	4,218.9	8.7	8.3	5,373.4	-352.1	1,896.7	6,977.0									
1971	23.6	0.3	23.9	1,264.9	374.0	268.5	103.2	3,274.0	254.8	8,306.7	4,821.9	7.4	0.3	5,918.2	-347.4	2,104.6	7,875.3									
1972	24.3	0.2	24.5	1,362.5	340.8	273.2	97.2	3,406.5	358.5	8,330.4	4,806.4	6.4	0.2	6,200.1	-489.3	2,418.6	8,199.4									
1973	40.4	0.2	40.6	1,399.7	460.7	320.8	129.5	3,800.1	620.2	8,362.8	5,803.1	5.1	0.2	7,248.7	-681.6	2,739.0	9,328.1									
1974	77.3	0.9	78.2	1,572.6	873.1	629.2	168.2	5,529.9	1,176.9	8,549.6	8,644.2	5.0	0.2	10,300.1	-1,010.8	3,473.7	12,763.0									
1975	67.7	6.8	74.6	2,143.2	719.4	718.0	168.8	6,157.9	1,838.1	8,688.1	9,508.3	14.4	8.2	12,178.8	-1,553.7	4,829.8	14,951.5									
1976	75.9	18.3	95.2	2,582.7	816.3	795.8	180.9	6,882.1	1,898.8	8,112.3	10,999.9	15.0	0.2	13,082.0	-1,895.4	4,822.6	18,949.1									
1977	78.2	32.2	110.4	3,184.1	929.7	927.5	206.7	7,452.0	2,448.8	8,731.2	12,883.7	24.4	0.3	15,994.9	-2,712.3	5,989.6	21,269.3									
1978	71.1	36.5	107.7	2,584.0	1,099.9	1,037.8	239.0	8,005.2	2,942.0	8,118.2	13,552.8	24.3	0.2	18,688.0	-2,365.9	5,727.8	24,030.8									
1979	75.9	39.2	115.1	4,276.5	1,743.5	1,399.8	380.1	10,570.0	2,818.4	11,278.9	19,267.7	36.5	0.1	22,896.9	-3,188.1	7,031.1	28,838.9									
1980	79.6	48.8	128.4	8,953.2	2,390.8	2,199.3	955.8	13,579.1	4,121.7	11,864.7	24,521.3	28.1	0.4	30,537.6	-4,018.4	9,590.8	36,978.3									
1981	87.4	51.9	139.3	6,989.3	3,003.0	2,503.6	345.8	18,046.4	4,804.6	11,892.2	27,196.6	30.2	0.3	34,368.9	-4,709.7	10,774.7	40,430.9									
1982	72.0	80.1	152.1	7,888.9	2,888.2	2,335.6	409.5	14,207.9	3,048.3	11,288.9	24,158.4	31.6	0.2	32,257.2	-3,541.3	12,131.1	40,847.0									
1983	—	75.8	75.8	8,039.1	2,720.9	2,124.1	432.7	12,064.2	2,298.5	11,368.8	20,999.2	65.3	0.1	29,179.5	-2,588.4	11,482.8	37,706.8									
1984	—	99.5	99.5	8,931.0	2,955.9	2,345.1	485.0	12,173.7	2,474.7	11,654.6	22,089.9	170.4	(*)	31,280.6	-3,408.1	12,568.7	40,436.5									
1985	—	104.1	104.1	9,251.8	2,809.8	2,267.8	645.7	12,182.3	1,652.8	11,517.8	21,215.5	204.8	(*)	30,875.4	-3,498.0	14,143.4	44,528.2									
1986	—	96.0	96.0	6,011.6	1,688.3	1,588.3	550.7	9,816.4	967.7	11,336.1	16,863.3	273.7	0.1	23,044.7	-1,894.0	14,220.3	35,571.0									
1987	—	94.0	94.0	7,109.8	2,528.4	1,811.7	854.8	10,685.9	1,084.4	11,404.7	18,129.7	332.8	0.2	25,858.5	-2,080.3	14,334.2	37,932.4									
1988	—	99.5	99.5	7,140.3	2,581.3	1,784.5	837.4	11,300.4	884.3	11,881.8	18,819.7	287.0	0.1	26,361.5	-2,131.0	15,574.0	38,904.5									
1989	—	111.6	111.6	7,428.4	3,126.0	2,268.8	659.1	12,504.1	1,123.1	11,550.5	20,848.6	295.8	(*)	28,682.4	-2,108.0	17,063.2	43,599.6									
1990	—	131.1	131.1	7,830.2	3,588.6	3,881.3	815.7	13,888.5	1,878.4	11,288.8	23,871.1	281.9	(*)	32,876.3	-1,882.8	18,417.8	48,812.3									
1991	—	127.4	127.4	8,242.8	3,227.9	2,438.9	673.4	12,829.8	727.3	11,138.2	20,802.5	226.9	(*)	28,710.4	-1,572.2	19,412.5	47,550.7									
1992	—	118.8	118.8	7,987.5	2,987.8	2,219.3	558.0	15,248.9	398.9	11,188.8	22,599.4	257.7	214.9	31,038.3	-1,802.4	20,977.5	48,813.4									
1993	—	108.0	108.0	7,758.5	2,752.1	2,273.1	478.3	14,752.1	473.4	11,110.8	21,765.8	147.9	182.8	29,994.9	-1,520.3	20,185.2	48,541.7									
1994	—	110.2	110.2	8,707.9	2,928.0	2,257.2	561.7	14,859.1	537.4	11,682.2	22,117.6	187.8	185.2	31,298.7	-1,744.0	20,862.0	50,215.8									

^a Liquefied petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used in electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990^e Utilities used biomass fuels at no charge or received a fee for accepting them

R=Revised data

—No consumption, including cases where adjustments were made See explanation of adjustments in Section 7 of Appendix A

(*)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 36. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, California

Year	Primary Energy							Electricity	Total Energy ^c		
	Coal	Natural Gas	Petroleum				Biomass ^b				
			Distillate Fuel	Kerosene	LPG ^d	Total					
Prices in Nominal Dollars per Million Btu											
1970	1.21	0.93	1.27	2.87	2.67	2.49	—	0.09	1.92		
1971	0.85	0.98	1.34	2.75	2.61	2.44	—	1.03	1.98		
1972	0.90	1.03	1.35	3.60	2.79	2.55	—	1.08	2.12		
1973	—	1.11	1.57	3.55	3.73	3.27	—	1.17	2.36		
1974	1.52	1.31	2.49	5.34	4.39	4.14	—	1.40	2.90		
1975	—	1.49	2.88	5.88	4.45	4.17	—	1.55	3.28		
1976	—	1.69	3.11	5.19	4.62	4.27	—	1.74	3.68		
1977	—	1.80	3.21	5.74	5.40	4.93	—	1.87	4.18		
1978	3.42	1.99	3.27	6.05	6.07	4.78	—	1.99	4.47		
1979	4.67	2.35	4.49	8.64	6.73	6.29	—	2.51	4.81		
1980	5.78	3.37	6.97	13.94	8.15	8.14	—	3.53	6.76		
1981	5.43	3.58	7.90	15.34	7.53	7.73	—	3.71	7.63		
1982	5.68	4.24	7.85	15.22	10.00	9.89	—	4.40	8.63		
1983	4.62	5.20	7.81	14.14	11.00	10.90	—	5.41	9.35		
1984	4.83	6.62	7.57	13.41	9.84	9.97	—	6.78	9.85		
1985	4.84	5.31	5.35	8.99	8.88	8.53	—	5.81	9.62		
1986	—	4.95	7.59	13.25	10.95	10.82	—	5.15	10.27		
1987	3.76	5.13	8.85	10.57	12.37	11.84	—	5.39	10.42		
1988	3.37	5.46	5.84	10.22	11.39	11.94	—	5.72	11.38		
1989	3.68	5.40	7.83	13.34	11.65	11.46	—	5.67	11.89		
1990	3.77	5.69	5.79	9.88	13.49	12.89	^d 4.75	^d 6.83	^d 11.65		
1991	5.21	6.11	5.80	9.79	12.75	12.39	^d 4.75	^d 6.33	^d 12.56		
1992	3.78	5.81	7.04	12.31	13.39	12.99	^d 4.75	^d 6.00	^d 12.98		
1993	3.77	6.00	7.40	12.94	14.24	13.69	^d 4.75	^d 6.21	^d 13.12		
1994	3.74	6.26	8.95	12.15	14.24	13.97	^d 4.75	^d 6.44	^d 13.42		
Expenditures in Million Nominal Dollars											
1970	1.1	544.8	9.7	2.4	52.1	58.2	—	608.5	1,094.1		
1971	(a)	652.4	4.8	2.7	53.1	60.6	—	712.9	1,616.7		
1972	(a)	657.8	5.1	3.5	46.5	57.1	—	744.7	1,791.9		
1973	—	714.5	7.9	2.7	40.2	49.9	—	794.7	1,930.9		
1974	(a)	800.4	7.9	6.8	45.7	60.2	—	880.8	2,315.7		
1975	—	985.8	8.6	6.1	44.7	60.8	—	1,052.7	2,995.4		
1976	—	1,081.9	11.4	6.0	43.2	60.6	—	1,122.5	2,958.7		
1977	—	1,022.2	13.8	10.8	45.4	70.2	—	1,082.4	3,063.8		
1978	0.1	1,069.8	15.0	11.7	71.8	99.3	—	1,185.2	3,374.0		
1979	0.1	1,459.5	28.1	9.9	129.9	168.7	—	1,614.4	3,967.2		
1980	0.2	1,881.8	8.8	1.9	147.2	158.4	—	2,014.1	5,083.8		
1981	0.1	1,824.2	3.3	6.2	120.5	130.0	—	1,964.2	5,392.5		
1982	0.1	2,364.7	3.3	7.8	160.4	165.2	—	2,550.0	6,956.5		
1983	0.1	2,688.7	5.9	4.3	208.4	218.8	—	2,917.4	6,758.5		
1984	1.3	2,755.4	6.4	5.0	153.1	167.5	—	2,924.2	6,922.9		
1985	2.9	3,945.1	4.5	3.8	187.9	175.3	—	3,483.4	7,888.2		
1986	—	2,364.7	10.8	13.8	184.0	189.4	—	2,573.1	7,138.8		
1987	(a)	2,649.3	10.0	4.8	257.7	262.7	—	2,901.0	7,751.8		
1988	0.2	2,803.9	7.8	8.9	241.2	254.8	—	3,058.9	8,576.9		
1989	0.5	2,874.8	10.7	8.2	285.9	287.7	—	3,162.9	8,242.9		
1990	0.8	2,573.8	7.5	5.8	259.4	271.8	^d 125.9	^d 3,373.4	^d 10,813.4		
1991	1.8	3,189.5	6.6	4.4	320.4	331.3	133.7	^d 3,658.4	^d 10,776.4		
1992	(a)	2,862.8	8.2	2.3	233.1	243.8	140.7	^d 3,247.1	^d 10,791.1		
1993	4.4	3,121.9	8.7	4.9	258.5	270.1	119.3	^d 3,514.7	^d 11,127.7		
1994	5.1	3,328.9	6.0	4.5	296.5	287.9	116.0	^d 3,762.2	^d 11,597.2		

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

Revised data.

—No consumption.

(a)—Values less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 37. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, California

Year	Primary Energy								Electricity	Total Energy ^b		
	Coal	Natural Gas	Petroleum					Total				
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residential Fuel					
Prices in Nominal Dollars per Million Btu												
1970	0.63	0.69	1.12	0.78	1.37	2.80	0.48	0.76	0.71	2.08		
1971	0.53	0.72	1.16	0.80	1.46	2.94	0.63	0.92	0.77	2.70		
1972	0.61	0.77	1.98	0.81	1.51	2.79	0.79	1.13	0.84	2.51		
1973	—	0.91	1.41	1.09	1.63	3.08	0.63	1.29	0.91	3.34		
1974	1.02	0.94	2.37	2.26	2.49	4.47	1.97	2.96	1.24	3.54		
1975	—	1.22	2.60	2.59	2.77	4.84	2.45	2.85	1.48	4.36		
1976	—	1.51	2.90	2.84	3.01	5.04	2.29	3.08	1.76	5.13		
1977	—	1.97	3.00	2.97	3.06	5.33	2.35	3.29	2.21	6.30		
1978	1.40	2.13	5.04	3.11	4.35	5.46	2.51	3.58	2.41	6.91		
1979	1.60	2.61	4.59	4.31	4.19	7.47	3.15	4.55	2.92	8.97		
1980	1.82	3.82	6.60	6.38	6.21	10.19	4.08	6.02	4.28	10.68		
1981	2.66	4.19	7.54	7.97	6.10	11.33	6.50	7.89	6.07	10.68		
1982	2.31	5.08	7.49	8.89	7.01	10.82	6.82	7.99	5.90	12.51		
1983	2.37	6.08	R 6.27	6.37	7.25	8.96	5.97	R 6.75	R 6.22	R 12.89		
1984	2.39	6.70	R 6.00	7.19	7.12	8.74	4.49	R 6.21	R 6.57	R 13.97		
1985	2.29	6.39	R 6.83	R 7.87	8.86	8.86	3.83	R 7.86	R 6.87	R 15.87		
1986	—	6.65	R 5.52	R 4.39	9.02	6.65	2.18	R 4.22	R 6.34	R 15.04		
1987	2.09	5.28	R 4.16	R 4.85	8.47	6.95	2.80	R 4.83	R 6.16	R 14.05		
1988	1.86	4.55	R 5.82	R 4.66	9.59	7.06	2.09	R 4.50	R 4.95	R 13.76		
1989	1.92	4.71	R 4.78	R 5.69	7.63	7.66	2.30	R 5.96	R 4.81	R 14.00		
1990	2.86	4.86	R 5.63	R 6.51	9.89	8.57	3.88	R 6.32	R 6.13	R 16.07		
1991	1.67	5.36	R 5.29	R 6.20	9.29	8.16	2.24	R 5.33	R 6.42	R 15.95		
1992	1.83	5.01	R 6.01	R 6.22	9.86	9.19	2.25	R 6.88	R 6.16	R 16.80		
1993	1.86	5.81	R 6.34	6.49	9.21	R 9.08	2.14	R 6.50	R 5.81	R 17.94		
1994	1.86	6.98	4.61	6.86	10.10	9.07	2.41	6.48	6.91	18.75		
Expenditures in Million Nominal Dollars												
1970	1.8	182.8	4.3	2.8	4.7	21.8	21.8	54.8	286.7	686.3		
1971	(a)	181.6	5.3	2.5	5.3	22.1	37.1	72.2	283.8	774.3		
1972	(a)	186.1	5.4	2.9	4.8	21.9	31.0	68.2	284.3	812.1		
1973	—	196.0	8.3	2.5	4.8	25.3	40.7	61.4	279.4	1,004.4		
1974	(a)	227.2	9.9	6.6	6.6	37.7	91.3	154.0	301.2	1,301.5		
1975	—	398.6	9.8	9.3	4.9	41.2	97.4	132.8	493.1	1,722.8		
1976	—	340.1	13.9	10.1	5.0	54.0	53.0	136.0	486.1	1,888.0		
1977	—	471.7	18.9	15.9	5.5	71.5	60.3	170.1	641.8	2,498.8		
1978	0.1	497.6	18.3	18.3	10.3	86.4	60.8	198.4	693.5	2,741.5		
1979	0.1	706.4	36.1	9.9	13.6	98.1	79.9	233.6	940.1	3,741.5		
1980	0.1	1,027.9	124.9	6.8	16.8	96.1	288.9	484.6	1,482.7	5,377.5		
1981	0.1	1,037.2	164.0	22.6	17.2	92.8	486.1	762.9	1,806.2	6,285.6		
1982	0.1	1,256.1	191.7	12.7	19.6	82.4	228.5	335.1	1,791.3	6,728.0		
1983	0.1	1,367.2	R 250.1	4.4	24.3	81.8	20.2	R 380.5	R 1,747.3	R 6,347.1		
1984	1.2	1,333.9	R 270.6	10.9	20.0	68.3	28.2	R 409.1	R 1,744.0	R 7,111.8		
1985	1.6	1,368.7	R 121.3	R 14.1	32.9	80.3	4.9	R 346.4	R 1,816.8	R 7,540.9		
1986	—	1,070.4	R 115.9	R 2.8	23.9	61.6	13.0	R 217.2	R 1,287.5	R 7,457.9		
1987	(a)	1,105.9	R 106.2	R 4.8	28.7	91.8	15.5	R 307.1	R 1,461.1	R 7,692.8		
1988	0.2	1,162.5	R 140.6	R 2.3	31.9	68.0	10.8	R 251.8	R 1,414.3	R 8,071.4		
1989	0.3	1,284.5	R 128.5	R 1.3	31.1	71.7	10.9	R 243.5	R 1,508.3	R 8,795.0		
1990	0.6	1,458.7	R 198.8	R 0.7	33.2	88.3	18.9	R 287.4	R 1,747.9	R 9,680.5		
1991	1.3	R 1,581.8	R 137.1	R 0.8	41.2	70.7	10.7	R 290.5	R 1,843.7	R 10,109.7		
1992	(a)	R 1,487.8	R 58.2	0.7	38.4	71.8	0.6	R 1,627.5	R 1,715.7	R 10,343.2		
1993	4.0	R 1,509.2	R 48.5	0.7	29.6	R 12.3	0.2	R 21.5	R 1,604.6	R 10,265.0		
1994	4.7	1,695.4	62.1	0.4	32.1	10.6	0.1	69.6	1,953.6	10,723.7		

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R=Revised data.

—No consumption.

(a)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 38. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, California

Year	Primary Energy															Electricity	Total Energy ^c		
	Coal			Natural Gas	Petroleum										Biofuels ^d				
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total			Totals ^c			
Prices in Nominal Dollars per Million Btu																			
1970	\$4.43	0.83	0.83	0.38	8.48	0.88	8.78	1.37	8.88	2.88	0.35	1.04	0.82	—	0.57	2.90	0.57		
1971	0.47	0.50	0.47	0.42	0.64	0.70	0.80	1.46	5.27	2.84	0.57	1.11	1.03	—	0.63	3.03	0.65		
1972	0.52	0.51	0.52	0.45	0.64	0.71	0.81	1.51	5.58	2.79	0.57	1.11	1.04	—	0.67	3.30	1.03		
1973	0.61	0.58	0.61	0.51	0.69	0.94	1.09	1.83	5.38	3.08	0.76	1.22	1.22	—	0.78	3.75	1.16		
1974	1.29	1.02	1.29	0.85	1.47	1.05	2.28	2.49	7.22	4.47	1.65	1.82	2.10	—	1.21	5.74	1.77		
1975	1.39	0.98	1.39	1.08	1.82	2.29	2.58	3.37	7.48	4.84	1.88	2.87	2.36	—	1.52	6.70	2.24		
1976	1.51	1.18	1.43	1.38	1.60	2.45	2.84	3.01	7.05	5.04	1.89	2.44	2.89	—	1.79	7.62	2.68		
1977	1.58	1.28	1.47	1.08	1.70	2.60	2.97	3.86	6.97	5.33	1.87	2.69	2.94	—	2.14	9.48	3.23		
1978	1.70	1.40	1.59	2.04	1.81	2.88	3.11	4.15	7.60	5.48	1.79	2.89	2.75	—	2.95	10.75	3.78		
1979	1.74	1.50	1.69	2.51	2.72	3.81	4.31	4.16	10.21	7.47	2.28	3.81	3.71	—	3.12	10.96	4.35		
1980	1.87	1.83	1.81	3.54	3.79	5.49	6.38	5.21	14.38	10.49	3.18	6.28	5.23	—	4.34	16.84	6.20		
1981	2.28	2.05	2.18	3.89	4.59	6.42	7.27	6.10	18.00	11.33	4.02	6.51	6.62	—	4.94	18.11	7.17		
1982	2.07	2.31	2.10	4.68	3.98	5.27	6.99	7.01	17.26	10.82	4.25	7.46	6.30	—	5.21	21.24	8.00		
1983	—	2.37	2.37	5.28	4.45	5.47	6.77	7.26	16.85	8.88	4.27	7.12	5.37	—	5.68	19.83	8.42		
1984	—	2.39	2.38	5.01	4.55	5.29	7.19	7.12	17.63	8.74	4.40	7.82	5.07	—	5.48	19.59	8.71		
1985	—	2.28	2.28	4.84	4.78	5.19	7.87	8.88	17.61	8.88	3.83	7.48	5.28	—	5.27	22.08	8.80		
1986	—	2.25	2.25	3.45	5.08	5.84	7.39	9.02	15.58	8.58	2.16	6.15	5.08	—	4.19	21.63	8.73		
1987	—	2.09	2.09	3.39	5.36	5.42	8.05	8.47	12.70	8.88	2.60	6.10	5.31	—	4.19	20.38	8.50		
1988	—	1.85	1.85	3.55	4.53	4.07	8.85	8.59	14.81	7.08	2.09	5.18	5.07	—	4.18	20.15	8.41		
1989	—	1.92	1.92	3.62	3.10	4.06	8.68	7.83	14.48	7.68	2.30	5.67	5.29	—	4.16	20.69	8.71		
1990	—	2.40	2.40	3.79	3.19	5.49	8.81	9.05	14.80	8.87	3.80	6.78	5.79	1.20	4.21	21.85	8.84		
1991	—	1.97	1.97	3.98	3.16	5.43	8.20	9.29	18.79	9.18	2.24	5.93	5.59	1.32	4.09	22.22	8.98		
1992	—	1.83	1.83	3.57	2.74	5.44	8.22	9.28	19.43	9.19	2.25	5.77	5.78	1.29	3.87	22.24	8.91		
1993	—	1.86	1.86	2.72	2.60	5.08	6.49	9.21	18.94	9.08	2.14	5.19	5.54	1.28	3.29	21.50	8.12		
1994	—	1.86	1.86	3.19	2.85	5.29	6.05	10.13	19.18	9.07	2.41	5.34	5.86	1.26	3.67	20.79	8.47		
Expenditures in Million Nominal Dollars																			
1970	25.6	4.2	35.8	208.3	38.9	91.3	1.5	41.1	46.8	28.6	21.3	84.0	298.2	—	528.3	392.2	998.6		
1971	23.6	0.2	23.8	225.9	61.9	39.1	1.5	42.6	50.7	23.0	31.2	93.8	334.1	—	583.7	425.9	1,009.6		
1972	24.3	0.1	24.4	244.4	62.3	47.0	1.5	41.7	57.5	20.9	27.8	99.2	347.9	—	618.7	488.7	1,106.4		
1973	40.4	0.2	40.6	283.6	60.5	73.8	2.3	82.3	75.5	23.8	33.2	112.7	444.1	—	768.3	555.6	1,324.1		
1974	77.3	0.8	78.1	381.8	115.9	112.7	14.7	110.3	98.0	30.6	78.9	169.4	725.4	—	1,185.3	775.2	1,960.5		
1975	97.7	4.9	102.6	438.6	144.8	126.2	18.5	116.1	58.8	34.8	82.4	262.0	784.7	—	1,868.8	988.8	2,857.6		
1976	78.9	18.3	97.2	654.4	149.8	162.4	18.5	137.8	58.2	39.8	54.0	227.2	839.3	—	1,587.9	1,182.0	2,769.9		
1977	70.2	32.2	102.4	672.6	169.1	193.9	26.2	148.4	68.9	31.7	60.6	289.5	965.6	—	1,889.0	1,512.8	3,401.8		
1978	71.1	36.4	107.5	721.6	184.8	230.8	31.4	168.2	104.0	31.0	56.4	291.1	1,087.7	—	1,826.6	1,771.2	3,597.8		
1979	78.9	38.9	117.8	962.9	387.1	444.7	75.9	210.7	145.2	43.9	63.7	414.3	1,789.4	—	2,895.2	1,880.8	4,776.0		
1980	79.8	46.6	126.4	1,248.7	482.2	499.1	67.9	191.9	183.1	98.9	204.4	874.9	2,384.5	—	3,739.8	2,807.3	6,547.4		
1981	87.4	81.7	169.2	1,347.9	299.5	656.9	19.1	165.1	220.2	63.4	224.9	623.7	2,315.8	—	3,832.6	2,860.2	6,692.8		
1982	72.0	79.8	151.9	1,422.6	250.4	751.9	7.5	204.4	182.4	71.6	185.6	482.8	2,185.7	—	3,740.1	3,201.8	6,941.9		
1983	—	75.8	75.8	1,489.2	324.9	837.3	4.8	169.6	188.4	60.8	159.6	506.4	2,061.3	—	3,828.1	3,043.4	6,871.5		
1984	—	87.1	87.1	1,781.3	481.7	894.3	21.8	267.9	219.6	86.0	553.7	655.5	2,680.4	—	4,759.8	3,169.1	7,928.9		
1985	—	106.3	106.3	1,748.8	438.0	868.8	18.7	343.2	294.4	138.8	426.8	996.9	2,788.8	—	4,572.9	3,723.4	8,296.3		
1986	—	95.0	95.0	1,252.1	517.9	321.4	4.9	332.3	178.8	111.5	179.2	327.1	1,971.2	—	3,319.3	3,469.7	6,789.0		
1987	—	94.0	94.0	1,537.5	585.1	459.2	12.5	362.2	163.0	118.6	208.4	375.7	2,284.6	—	4,016.3	3,241.7	7,257.9		
1988	—	99.1	99.1	1,557.2	461.6	396.2	1.0	335.2	180.8	110.8	99.2	320.0	1,807.8	—	3,554.2	3,387.0	6,941.2		
1989	—	111.0	111.0	1,712.6	308.2	469.3	1.4	333.3	183.8	130.0	25.5	349.2	1,709.8	—	3,623.3	3,736.1	7,359.4		
1990	—	126.8	126.8	1,867.7	388.8	631.3	1.4	292.8	180.8	141.8	24.1	385.8	1,986.4	0.88	4,143.2	3,828.8	7,972.0		
1991	—	124.2	124.2	2,147.0	301.0	450.1	1.3	168.3	186.2	140.5	18.9	282.0	1,584.1	77.2	3,832.6	4,011.5	7,844.0		
1992	—	118.8	118.8	1,881.8	246.7	348.0	0.8	272.8	231.5	159.3	18.4	362.4	1,630.5	74.2	3,905.4	4,098.5	7,994.0		
1993	—	89.8	89.8	1,704.7	214.7	288.1	1.6	188.6	229.7	127.1	13.6	318.8	1,350.2	73.6	3,338.1	3,885.2	7,223.3		
1994	—	100.5	100.5	1,873.9	239.3	274.9	1.4	239.0	243.1	131.4	13.4	320.3	1,462.7	78.3	3,615.5	4,009.1	7,624.6		

^a Liquefied petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990^e Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 39. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, California

Year	Primary Energy										Electricity	Total Energy		
	Coal	Natural Gas	Petroleum							Total				
			Aviation Gasoline	Diesel Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel					
Prices in Nominal Dollars per Million Btu														
1970	0.63	—	2.17	1.42	0.73	1.37	5.08	2.66	0.36	2.87	2.47	2.68		
1971	0.53	—	2.21	1.36	0.77	1.46	5.27	2.54	0.56	2.13	2.13	2.13		
1972	0.61	—	2.19	1.49	0.76	1.31	5.58	2.79	0.70	2.16	2.16	2.16		
1973	0.59	—	2.36	1.78	0.81	1.63	5.33	3.08	0.82	2.42	2.42	2.42		
1974	1.02	—	3.23	2.93	1.57	2.49	7.22	4.47	1.75	3.65	3.65	3.65		
1975	0.83	—	3.45	3.22	2.84	2.77	7.46	4.84	2.12	4.82	4.82	4.82		
1976	1.16	—	3.59	3.32	2.52	3.01	7.05	5.04	2.05	4.17	4.17	4.17		
1977	1.26	—	3.97	3.30	2.82	3.36	6.97	5.33	2.07	4.38	4.38	4.38		
1978	—	—	4.29	3.30	2.96	4.15	7.80	5.45	2.18	4.47	4.47	4.47		
1979	—	—	5.73	4.93	3.79	4.18	10.21	7.47	2.78	6.04	6.04	6.04		
1980	—	—	8.82	7.07	6.21	6.21	14.30	10.19	4.14	8.22	8.22	8.22		
1981	—	—	10.84	8.14	7.56	8.10	18.00	11.33	5.62	9.46	9.46	9.46		
1982	—	—	10.92	7.97	7.37	7.01	17.85	10.82	5.98	9.34	9.34	9.34		
1983	—	—	10.44	7.13	6.61	7.25	16.96	9.90	5.61	8.01	8.01	8.01		
1984	—	—	10.27	6.94	6.28	7.12	17.63	9.74	5.61	7.79	7.79	7.79		
1985	—	—	8.89	6.90	6.81	6.65	17.61	8.68	5.02	7.67	7.67	7.67		
1986	—	—	8.41	5.93	3.99	5.93	15.59	6.88	2.86	5.82	5.82	5.82		
1987	—	—	7.55	6.70	4.04	6.47	12.70	6.95	2.80	5.94	5.94	5.94		
1988	—	—	7.41	6.51	3.64	6.53	14.61	7.06	2.28	5.97	5.97	5.97		
1989	—	—	6.29	7.14	4.50	7.63	14.46	7.66	2.57	6.50	6.50	6.50		
1990	—	4.89	9.32	8.21	5.78	9.49	14.89	8.57	3.59	7.42	7.42	7.42		
1991	—	5.82	8.71	8.02	4.80	9.29	16.79	8.18	2.58	7.01	7.01	7.01		
1992	—	6.28	8.54	8.19	4.53	9.26	19.43	8.19	1.84	7.72	7.72	7.72		
1993	—	4.59	8.24	8.46	4.50	9.21	18.94	8.06	2.00	7.63	7.63	7.63		
1994	—	4.99	7.99	8.29	4.09	9.28	18.18	8.07	2.01	7.39	7.39	7.39		
Expenditures in Million Nominal Dollars														
1970	0.1	—	28.9	213.7	242.7	1.6	75.7	3,099.8	63.3	3,748.7	3,748.8	3,750.3		
1971	(s)	—	22.7	304.2	288.5	2.1	79.8	3,228.9	94.2	4,020.4	4,020.4	4,020.9		
1972	(s)	—	23.0	292.8	270.7	2.4	90.5	3,359.8	91.9	4,125.0	4,125.0	4,125.7		
1973	(s)	—	24.3	370.0	318.6	2.3	82.5	3,600.9	104.9	4,784.5	4,784.5	4,786.2		
1974	(s)	—	32.3	541.8	527.0	3.7	107.1	5,461.1	188.1	6,662.1	6,662.2	6,664.1		
1975	(s)	—	85.3	673.4	714.8	4.8	186.3	6,062.8	267.8	7,799.2	7,799.2	7,793.2		
1976	(s)	—	28.4	696.1	790.7	4.9	173.3	6,569.8	368.2	8,531.2	8,531.2	8,536.4		
1977	(s)	—	39.0	703.4	699.3	6.4	118.5	7,348.7	487.0	9,578.5	9,578.5	9,583.0		
1978	—	—	38.0	803.3	1,017.0	8.6	139.7	7,885.7	625.9	10,517.5	10,517.5	10,523.7		
1979	—	—	48.7	1,186.7	1,379.4	12.1	184.9	10,425.1	836.2	14,088.2	14,088.2	14,094.1		
1980	—	—	13.0	1,780.6	2,168.4	19.6	244.2	13,362.9	1,796.8	19,282.8	19,282.8	19,290.4		
1981	—	—	7.2	2,130.1	2,502.9	24.0	293.6	14,670.1	2,240.9	22,066.9	22,066.9	22,079.5		
1982	—	—	63.1	1,939.1	2,335.8	24.9	295.5	14,053.8	1,991.5	20,834.5	20,834.5	20,850.4		
1983	—	—	61.5	1,818.9	2,124.1	30.4	264.5	11,921.8	1,701.7	17,922.9	17,922.9	17,939.9		
1984	—	—	54.3	1,975.2	2,346.1	44.2	292.6	12,016.4	1,714.8	18,445.5	18,445.5	18,459.9		
1985	—	—	88.3	2,017.9	2,257.8	42.8	272.5	11,973.3	1,968.4	18,800.4	18,800.4	18,815.7		
1986	—	—	58.8	1,859.4	1,683.3	30.6	255.9	9,643.3	856.5	14,170.8	14,170.8	14,185.3		
1987	—	—	41.5	1,884.6	1,511.7	25.8	217.3	10,485.5	791.5	15,217.9	15,217.9	15,227.6		
1988	—	—	49.1	2,300.8	1,784.5	26.1	241.1	11,123.6	663.9	16,193.1	16,193.1	16,205.0		
1989	—	—	54.4	2,511.1	2,296.8	24.9	245.0	12,302.4	795.3	18,219.9	18,219.9	18,230.3		
1990	—	(s)	62.0	2,792.5	3,061.3	30.8	284.2	13,471.5	1,241.8	20,896.0	20,896.0	20,894.4		
1991	—	0.1	49.0	2,631.2	2,438.9	25.5	281.6	12,618.0	881.8	18,705.6	18,705.6	18,720.6		
1992	—	0.2	45.7	2,599.2	2,219.3	21.9	306.6	15,017.9	373.3	20,556.0	20,556.0	20,574.2		
1993	—	1.2	34.1	2,387.2	2,273.1	21.6	306.3	14,582.8	412.8	20,517.9	20,517.9	20,535.7		
1994	—	2.8	31.9	2,613.4	2,297.2	33.9	324.2	14,516.9	489.2	20,261.7	20,261.7	20,261.3		

^a Liquefied petroleum gases.

R=Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(s)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 40. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, California

Year		Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy *
				Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu										
1970	—	—	0.33	0.40	0.36	—	0.40	0.19	0.05	0.34
1971	—	—	0.35	0.63	0.59	—	0.63	0.10	0.09	0.41
1972	—	—	0.36	0.79	1.00	—	0.80	0.10	0.72	0.49
1973	—	—	0.42	0.94	1.50	—	0.94	0.18	0.77	0.87
1974	—	—	0.59	2.01	2.23	—	2.01	0.12	0.84	1.23
1975	—	—	1.00	2.80	2.43	—	2.50	0.21	0.92	1.62
1976	—	—	1.58	2.34	2.09	—	2.34	0.26	0.98	1.99
1977	—	—	2.10	2.37	2.83	—	2.37	0.28	1.04	2.15
1978	—	—	2.18	2.58	2.86	—	2.58	0.29	1.12	2.28
1979	—	—	2.45	3.14	3.68	—	3.16	0.37	1.56	2.66
1980	—	—	3.53	5.03	5.84	—	5.06	0.40	1.74	3.99
1981	—	—	3.99	6.62	7.46	—	6.64	0.45	1.24	4.84
1982	—	—	5.02	6.77	6.71	—	6.77	0.77	1.20	5.62
1983	—	—	5.08	6.06	6.57	—	6.07	1.07	1.12	4.78
1984	—	—	5.00	5.97	5.95	—	5.97	1.11	1.26	4.34
1985	—	—	4.47	5.31	6.08	—	5.32	0.98	0.79	3.79
1986	—	—	2.81	3.16	4.79	—	3.26	0.97	0.32	2.16
1987	—	—	2.80	2.82	4.10	—	2.83	0.80	0.96	2.02
1988	—	—	2.63	2.66	4.03	—	2.67	0.80	0.87	2.17
1989	—	—	2.82	3.06	3.84	—	3.09	0.85	(b)	2.26
1990	—	—	3.80	4.38	4.67	—	4.38	0.72	(b)	2.17
1991	—	—	2.87	3.06	4.90	—	3.23	0.67	(b)	1.85
1992	—	—	2.72	2.18	4.57	—	2.64	0.56	(b)	1.67
1993	—	—	2.46	2.31	5.39	—	2.40	0.44	(b)	1.93
1994	—	—	2.48	2.16	2.68	—	2.18	0.47	(b)	1.75
Expenditures in Million Nominal Dollars										
1970	—	—	220.1	54.7	0.2	—	54.9	6.7	0.3	282.1
1971	—	—	204.9	134.0	0.8	—	134.8	7.4	0.3	347.4
1972	—	—	202.3	207.9	2.8	—	210.3	6.4	0.2	468.3
1973	—	—	203.2	450.4	2.7	—	453.2	5.1	0.2	861.8
1974	—	—	183.3	810.6	2.9	—	822.4	5.0	0.2	1,010.8
1975	—	—	385.2	1,230.5	3.4	—	1,234.9	14.4	0.2	1,553.7
1976	—	—	487.3	1,423.4	9.4	—	1,432.9	15.9	0.2	1,935.4
1977	—	—	797.4	1,862.7	30.5	—	1,893.2	24.4	0.3	2,715.3
1978	—	—	698.6	1,598.9	44.1	—	1,642.9	24.3	0.2	2,365.9
1979	—	—	1,148.7	1,838.5	60.3	—	2,003.6	35.5	0.7	3,188.1
1980	—	—	1,825.0	1,908.8	86.2	—	2,867.9	28.1	0.4	4,018.4
1981	—	—	2,780.0	1,872.9	48.4	—	1,919.2	30.2	0.3	4,709.7
1982	—	—	2,823.6	673.8	12.2	—	685.9	31.6	0.2	3,541.3
1983	—	—	2,474.0	417.2	8.9	—	458.0	65.3	0.1	2,965.4
1984	—	—	3,000.6	168.0	9.1	—	177.1	170.4	(a)	3,408.1
1985	—	—	3,139.1	154.2	10.2	—	164.4	294.0	(a)	3,488.6
1986	—	—	1,304.4	108.1	9.7	—	115.8	273.7	0.1	1,694.0
1987	—	—	1,570.1	58.8	6.4	—	67.3	322.6	0.2	2,080.3
1988	—	—	1,621.7	208.3	3.9	—	212.2	297.0	0.1	2,131.8
1989	—	—	1,574.3	291.5	6.3	—	297.8	235.9	(b)	2,166.8
1990	—	—	1,629.8	168.4	5.9	—	284.4	251.9	(b)	1,882.4
1991	—	—	1,324.3	18.0	3.0	—	20.9	228.9	(b)	1,572.2
1992	—	—	1,564.6	6.6	3.3	—	9.9	207.7	(b)	1,802.4
1993	—	—	1,422.4	40.8	3.4	—	50.2	147.8	(b)	1,620.3
1994	—	—	1,536.9	28.7	1.8	—	40.4	167.6	(b)	1,744.9

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

b Utilities used biomass fuels at no charge or received a fee for accepting them.

—No consumption.

(a) Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 41. Energy Price and Expenditure Estimates by Source, 1970-1994, Colorado

Year	Primary Energy															Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c	
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Renewables	Total ^c					
	Colony Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total ^c								
Prices in Nominal Dollars per Million Btu																			
1970	0.43	0.39	0.41	0.48	1.04	0.78	1.88	2.72	0.44	R1.11	1.88	—	—	1.88	0.25	0.88	1.52		
1971	0.47	0.31	0.38	0.51	1.05	0.80	1.89	2.93	0.52	R1.47	2.04	—	—	1.13	0.28	0.13	1.67		
1972	0.52	0.34	0.38	0.54	1.06	0.79	1.85	2.81	0.52	R1.50	1.89	—	—	1.13	0.38	0.34	1.67		
1973	0.61	0.33	0.50	0.59	1.31	0.84	2.67	3.11	0.73	R1.48	2.25	—	—	1.26	0.33	0.49	1.85		
1974	1.20	0.42	0.62	0.72	2.19	1.62	3.75	4.20	1.02	R2.49	3.16	—	—	1.74	0.44	0.07	2.49		
1975	1.38	0.53	0.88	0.98	2.38	2.42	3.62	4.87	1.88	R2.74	3.64	—	—	2.82	0.60	0.25	3.67		
1976	1.51	0.54	0.79	1.15	2.48	2.32	3.42	4.90	1.79	R2.46	3.69	—	—	2.15	0.61	0.38	3.14		
1977	1.58	0.65	0.77	1.52	2.75	2.71	3.76	5.13	1.85	R2.80	3.97	0.19	—	2.37	0.70	0.74	3.51		
1978	1.70	0.71	0.61	1.88	2.90	2.92	4.17	5.05	1.92	R3.20	4.95	0.21	—	2.58	0.77	0.93	3.84		
1979	1.74	0.81	0.92	2.47	4.24	4.08	4.58	6.85	2.56	R3.98	5.90	0.23	—	3.32	0.87	1.04	4.95		
1980	1.87	0.88	1.08	2.88	6.45	6.58	5.88	9.38	3.88	R6.11	7.88	0.21	—	4.32	1.12	1.24	6.88		
1981	2.26	0.98	1.10	3.84	7.95	7.67	7.12	10.20	4.25	R7.81	9.16	0.18	—	4.86	1.08	1.13	7.88		
1982	2.07	1.12	1.15	4.86	8.75	7.38	7.70	10.15	4.44	R7.45	8.87	0.21	1.28	5.04	1.14	1.40	8.40		
1983	—	1.13	1.13	5.05	R8.68	R8.47	7.79	9.02	4.36	R7.27	R8.08	0.23	1.12	R4.03	1.16	1.75	R8.22		
1984	—	1.15	1.15	4.88	R8.75	R8.30	7.88	8.08	4.40	R8.79	R7.82	0.26	1.26	R4.78	1.19	1.73	R8.04		
1985	—	1.17	1.17	4.71	R8.88	5.94	8.39	8.28	3.88	R8.75	R8.85	—	0.79	R4.74	1.21	1.88	R8.23		
1986	—	1.18	1.18	4.54	R5.75	3.82	8.21	6.78	2.34	R6.97	R8.11	0.27	0.32	R3.86	1.21	1.89	R7.26		
1987	—	1.14	1.14	4.28	R8.13	4.05	4.88	7.99	2.68	R4.88	R6.52	0.28	0.95	R4.85	1.15	1.72	R7.37		
1988	—	1.08	1.08	3.95	R5.80	3.78	3.27	7.34	2.80	R4.82	R6.30	0.29	0.87	R3.79	1.08	1.73	R7.17		
1989	—	1.08	1.08	3.85	R4.83	4.20	5.97	8.13	1.85	R4.33	R7.15	0.28	0.80	R3.88	1.08	1.78	R7.00		
1990	—	1.07	1.07	3.82	R7.87	6.89	8.88	8.28	2.84	R4.81	R6.18	—	0.42	R4.40	0.86	1.73	R6.10		
1991	—	1.10	1.10	3.74	R7.31	4.87	7.01	8.23	3.88	R5.42	7.80	—	0.04	4.38	1.11	1.48	R7.91		
1992	—	1.11	1.11	3.88	R7.19	4.47	8.03	9.64	3.22	R5.13	R8.06	—	0.14	R4.40	1.11	1.48	R8.01		
1993	—	1.11	1.11	3.75	R7.52	4.25	6.94	R8.61	2.04	R5.27	R8.80	—	0.10	R4.46	1.12	1.78	R7.91		
1994	—	1.07	1.07	3.99	7.57	3.88	7.96	9.63	2.88	4.95	6.12	—	0.07	4.84	1.07	1.78	8.17		
Expenditures in Million Nominal Dollars																			
1970	62.0	24.3	38.3	128.2	38.9	32.0	27.8	572.8	3.8	R38.7	803.8	—	—	878.0	-38.8	222.3	861.7		
1971	11.6	25.0	36.6	136.8	37.3	34.8	30.5	425.9	4.8	R44.0	878.1	—	—	781.8	-36.9	243.0	984.6		
1972	14.6	30.8	45.4	157.7	41.6	34.8	30.1	442.9	9.1	R46.8	808.0	—	—	810.7	-44.2	276.5	1,043.0		
1973	19.9	35.7	54.6	177.7	59.9	41.1	57.3	514.7	9.7	R50.9	738.0	—	—	884.8	-43.7	309.0	1,284.2		
1974	38.9	45.2	84.1	210.8	111.3	87.5	61.9	676.9	29.9	R67.3	1,005.8	—	—	1,302.7	70.9	357.2	1,589.0		
1975	38.5	68.9	107.4	262.8	118.1	85.7	85.7	782.3	32.7	R65.4	1,088.9	—	—	1,511.2	-105.4	425.0	1,831.8		
1976	44.8	84.2	129.0	288.4	136.6	101.4	88.6	948.4	41.1	R68.2	1,264.2	—	—	1,691.6	-115.7	473.2	2,049.1		
1977	46.2	126.1	172.2	361.1	158.7	121.1	72.0	924.4	38.7	R82.3	1,385.8	0.5	—	1,929.0	153.1	528.7	2,304.6		
1978	38.0	140.1	178.1	485.5	173.0	136.9	80.3	978.9	48.0	R89.1	1,514.2	1.4	—	2,108.1	169.9	604.8	2,544.0		
1979	50.6	186.6	237.2	577.1	297.3	139.5	85.4	1,288.9	13.7	R123.4	1,988.1	0.5	—	2,704.9	-229.9	729.0	3,205.0		
1980	90.2	287.9	378.1	786.8	428.1	178.9	83.3	1,888.8	42.6	R168.4	2,577.8	1.6	—	3,528.4	-272.6	918.2	4,178.0		
1981	54.6	290.6	345.3	783.8	374.2	238.0	86.6	1,881.5	2.7	R164.1	2,736.2	1.5	—	3,776.9	-291.5	1,203.8	4,690.2		
1982	19.7	296.6	316.3	901.2	363.0	251.7	128.5	1,672.1	0.3	R143.7	2,739.3	1.3	(6)	3,900.2	298.1	1,414.6	5,075.7		
1983	—	288.1	288.1	976.3	R425.3	R234.2	131.8	1,582.9	6.3	R162.9	2,633.4	1.9	(6)	R3,799.6	-290.6	1,415.3	R4,924.3		
1984	—	330.6	330.6	1,040.2	R448.2	R302.9	82.8	1,586.8	2.6	R186.6	2,697.7	0.2	(6)	R3,898.8	-322.7	1,622.0	R5,197.9		
1985	—	348.9	348.9	831.2	R384.4	384.1	81.3	1,742.4	3.7	R188.2	2,815.3	—	(6)	R3,896.2	-342.8	1,688.3	R5,241.5		
1986	—	348.5	348.5	810.9	R338.9	178.6	47.3	1,287.1	1.1	R157.7	2,080.8	0.2	(6)	R3,181.5	340.8	1,621.9	R4,482.5		
1987	—	338.8	338.8	798.7	R362.2	182.0	39.6	1,439.3	(6)	R127.5	2,180.8	0.5	(6)	R3,281.8	-332.3	1,622.8	R4,572.2		
1988	—	337.3	337.3	817.3	R378.3	138.0	30.4	1,404.9	0.6	R144.7	2,086.8	2.1	(6)	R3,283.5	-337.3	1,718.9	R4,533.1		
1989	—	343.0	343.0	837.0	R406.7	129.8	78.8	1,512.7	0.1	R128.9	2,267.1	1.6	(6)	R3,444.7	-350.7	1,775.2	R4,969.1		
1990	—	363.3	363.3	880.8	R481.4	183.8	70.8	1,728.8	(6)	R136.2	2,888.8	—	0.18	R3,790.5	-344.7	1,888.4	R5,245.8		
1991	—	385.4	385.4	954.2	R502.9	179.6	86.1	1,730.1	1.1	R148.0	2,855.7	—	0.72	R3,982.4	-345.8	1,888.4	R5,386.0		
1992	—	369.0	369.0	828.3	R520.1	166.0	86.7	1,786.2	0.7	R154.1	2,786.0	—	1.76	R3,987.8	-357.3	1,888.3	R5,528.9		
1993	—	374.7	374.7	927.8	R565.8	215.6	86.0	R1,913.0	R(8)	R154.8	3,034.2	—	0.55	R4,253.2	-384.0	1,978.7	R5,887.9		
1994	—	374.3	374.3	843.1	569.2	178.6	86.8	2,035.4	(6)	170.7	3,050.8	—	18.3	4,384.7	360.1	2,075.8	6,100.2		

^a Liquefied petroleum gases.
^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.
^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
^d There is a discontinuity in this table between 1989 and 1990 due to the expanded coverage of non-electric utility use of fuels beginning in 1990.

^e Revised data.
 — No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.
 (p) - Value less than 0.05 million nominal dollars.
 Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 42. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Colorado

Year	Primary Energy							Electricity	Total Energy ^c	
	Coal	Natural Gas	Petroleum				Biomass ^b			
			Distillate Fuel	Kerosene	LPG ^a	Total				
Prices in Nominal Dollars per Million Btu										
1970	0.80	0.74	1.28	1.51	1.79	1.74	—	8.38	1.71	
1971	0.84	0.77	1.36	1.54	1.77	1.73	—	8.90	1.78	
1972	0.98	0.78	1.38	1.66	1.85	1.80	—	9.94	1.98	
1973	1.48	0.84	1.68	1.83	3.35	3.15	—	1.16	2.10	
1974	1.07	1.02	2.51	2.87	2.80	2.78	—	1.24	2.38	
1975	1.88	1.29	2.84	2.88	3.88	3.28	—	1.88	2.78	
1976	1.41	1.41	2.94	3.20	3.84	3.72	—	1.68	2.91	
1977	1.67	1.83	3.25	3.68	4.07	3.96	—	2.09	3.44	
1978	1.71	2.25	3.28	3.81	4.39	4.25	—	2.55	4.08	
1979	2.97	2.81	4.53	5.34	6.05	5.69	—	9.00	4.78	
1980	2.54	3.26	6.08	7.88	7.82	7.81	—	5.83	5.72	
1981	3.42	4.18	8.32	9.78	7.88	7.79	—	4.54	7.80	
1982	3.18	4.89	7.94	9.78	9.24	8.25	—	5.31	8.82	
1983	2.81	5.46	5.82	9.18	8.46	8.38	—	5.82	9.30	
1984	2.92	5.23	6.84	9.10	9.06	8.79	—	5.43	8.68	
1985	2.83	5.11	6.81	9.28	6.58	8.71	—	5.18	8.79	
1986	2.78	4.99	4.32	5.75	6.81	6.61	—	5.08	9.08	
1987	2.40	4.74	3.49	4.85	5.19	5.07	—	4.74	8.61	
1988	2.19	4.39	3.47	4.82	2.51	2.63	—	4.27	6.22	
1989	2.43	4.57	5.09	6.78	6.11	6.10	—	4.66	8.80	
1990	2.41	4.88	8.18	8.24	7.82	7.82	4.75	4.70	8.33	
1991	2.36	4.48	5.90	7.88	7.32	7.30	4.75	4.64	8.18	
1992	2.43	4.48	4.82	6.42	7.48	7.56	4.75	4.64	8.40	
1993	2.16	4.47	4.75	6.32	6.13	6.10	4.75	4.57	8.25	
1994	2.25	4.90	2.93	3.90	6.84	8.26	4.75	5.10	9.00	
Expenditures in Million Nominal Dollars										
1970	1.8	59.4	1.8	1.0	20.8	23.1	—	84.1	186.9	
1971	1.4	63.3	1.6	0.7	21.8	24.1	—	88.6	200.5	
1972	1.7	69.7	1.7	0.6	28.1	29.4	—	89.8	227.7	
1973	2.0	81.9	2.3	0.6	46.8	49.7	—	132.0	275.2	
1974	0.8	91.8	4.3	0.6	31.4	36.4	—	129.0	291.4	
1975	0.2	116.8	4.7	0.6	38.4	48.7	—	156.8	380.8	
1976	0.6	136.1	4.8	0.7	43.6	49.1	—	166.8	374.0	
1977	1.0	182.4	5.5	0.7	42.5	48.7	—	212.1	415.0	
1978	2.5	178.4	5.5	0.9	57.0	63.4	—	244.4	474.1	
1979	4.8	242.1	9.0	0.8	26.0	34.7	—	291.7	563.9	
1980	1.9	298.9	3.2	1.0	44.9	49.1	—	341.6	684.1	
1981	2.5	313.2	2.8	3.3	57.7	63.6	—	379.3	878.0	
1982	3.0	414.8	2.7	3.4	76.7	82.8	—	505.8	1,112.2	
1983	1.8	464.3	4.6	11.7	84.8	101.1	—	567.2	1,207.2	
1984	2.8	490.0	5.6	8.1	42.1	55.8	—	646.6	1,133.0	
1985	3.3	488.9	4.3	2.8	22.8	39.8	—	682.9	1,116.1	
1986	2.2	408.6	1.6	1.0	33.6	38.1	—	444.9	1,088.0	
1987	1.6	408.9	1.2	0.7	27.9	29.8	—	440.2	1,089.7	
1988	1.5	410.6	1.1	0.6	12.9	14.8	—	428.9	1,089.8	
1989	1.2	424.0	1.2	1.8	35.9	38.9	—	463.9	1,136.8	
1990	1.8	428.1	1.0	1.0	43.2	48.2	4.75	488.9	1,188.0	
1991	1.2	447.2	0.9	1.1	50.3	52.3	15.4	518.1	1,230.1	
1992	1.0	431.4	0.6	1.3	47.0	48.9	18.2	497.6	1,233.8	
1993	0.6	480.0	0.8	1.2	39.1	41.2	16.2	537.0	1,308.0	
1994	0.4	489.8	0.4	0.9	84.5	85.9	14.9	580.7	1,395.7	

^a Liquefied petroleum gases

^b Commercial sector prices and expenditures for wood and waste are included in the residential sector

^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy

^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

^e Revised data

—No consumption

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 43. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Colorado

Year	Primary Energy							Total Energy ^b			
	Coal	Natural Gas	Petroleum						Total	Electricity	
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.39	8.58	1.06	0.98	1.15	2.72	0.28	1.26	0.82	5.97	1.68
1971	0.40	0.61	1.09	0.87	1.25	2.63	0.55	1.41	0.83	6.03	1.72
1972	0.43	0.64	1.09	0.87	1.26	2.61	0.55	1.37	0.69	6.14	1.82
1973	0.42	0.70	1.33	1.15	1.47	3.11	0.84	1.83	0.75	6.20	1.90
1974	0.75	0.85	2.27	1.94	2.88	4.20	1.82	2.82	0.86	6.88	2.26
1975	0.81	1.16	2.48	2.11	2.99	4.67	1.99	3.75	1.20	7.95	2.73
1976	1.05	1.21	2.64	2.32	2.97	4.90	1.61	2.63	1.32	9.78	2.67
1977	1.05	1.56	2.91	2.34	3.39	5.13	1.93	3.24	1.68	9.33	3.42
1978	1.23	2.00	2.96	2.58	3.84	5.05	1.77	3.43	2.09	10.18	4.09
1979	1.33	2.80	4.35	2.90	3.58	6.85	2.50	4.89	2.64	11.56	4.83
1980	1.38	3.03	4.48	3.65	4.79	6.26	4.35	7.06	3.26	14.37	6.06
1981	1.17	3.58	7.82	6.11	6.40	10.23	4.37	8.16	4.12	18.38	7.87
1982	1.42	4.65	7.35	4.82	6.31	10.15	4.70	8.01	4.68	19.09	8.94
1983	1.26	5.01	6.48	7.19	6.78	9.02	4.51	7.00	4.16	17.64	8.26
1984	1.31	4.76	6.23	7.51	6.22	9.99	4.60	7.95	4.59	19.70	8.25
1985	1.31	4.61	6.03	7.24	6.12	9.28	4.67	7.51	4.86	18.38	8.34
1986	1.24	4.41	5.68	6.81	5.10	8.76	4.30	7.03	4.48	17.73	8.49
1987	1.39	4.15	4.13	4.97	4.09	7.59	4.48	6.49	4.15	17.06	8.93
1988	1.36	3.63	3.93	4.73	4.21	7.34	4.29	5.84	4.34	17.03	8.73
1989	1.34	4.00	4.55	5.64	5.36	8.13	1.90	5.44	4.08	17.17	8.20
1990	1.29	3.97	4.78	5.08	6.33	8.29	1.74	5.34	4.13	18.88	8.89
1991	1.39	3.92	5.03	5.16	6.86	9.23	1.75	5.67	4.14	17.07	8.17
1992	1.51	3.91	4.67	6.05	8.50	9.95	1.76	5.83	4.07	17.20	8.32
1993	1.37	4.00	4.68	6.11	7.82	9.61	2.04	5.83	4.10	17.56	8.38
1994	1.35	4.35	4.57	5.94	6.27	9.63	—	5.23	4.44	17.69	9.66

Expenditures in Million Nominal Dollars

Year	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel	Total	Efficiency	Total Energy ^b
1970	1.3	33.7	8.9	8.7	2.4	1.3	0.1	5.9	93.5	134.4
1971	1.3	37.2	1.0	0.5	2.7	2.4	0.1	6.7	102.8	146.1
1972	1.4	40.7	1.2	0.4	3.2	2.0	0.2	6.9	115.6	164.5
1973	1.1	47.7	1.6	0.5	3.8	2.5	0.3	8.4	126.6	189.8
1974	1.1	54.6	3.3	0.6	5.3	2.6	0.8	12.4	144.9	214.9
1975	0.2	75.5	3.4	0.6	4.9	2.7	0.9	12.4	170.3	238.5
1976	0.6	82.7	3.6	0.8	5.7	3.0	0.9	14.0	171.1	268.8
1977	1.2	101.8	4.1	0.8	6.2	3.2	1.1	15.3	183.0	311.8
1978	3.4	123.2	4.2	0.9	8.6	3.1	1.1	18.0	224.2	369.8
1979	4.1	171.3	7.0	0.6	2.9	4.9	0.2	19.0	270.9	461.9
1980	1.7	261.8	13.8	8.2	5.2	15.4	0.1	35.6	350.3	644.0
1981	1.5	228.1	14.2	8.2	6.5	15.5	0.1	36.3	427.2	733.3
1982	2.5	306.9	6.4	0.6	9.1	16.8	0.1	35.1	514.0	905.6
1983	1.6	325.9	6.7	1.1	12.0	13.4	0.2	36.4	539.5	1,083.8
1984	2.3	343.2	6.6	0.9	9.1	18.9	0.1	35.4	750.8	1,118.5
1985	2.8	317.8	23.5	6.6	5.4	8.8	0.1	36.3	772.2	1,131.0
1986	1.6	272.8	6.7	0.3	4.4	8.8	1.1	31.4	753.0	1,049.1
1987	1.6	287.1	6.3	0.6	3.9	7.6	0.0	30.9	735.1	1,098.0
1988	1.8	254.5	6.2	0.4	3.6	6.0	0.0	30.6	704.0	1,069.9
1989	1.2	273.3	14.3	5.0	6.1	7.0	0.1	32.4	827.0	1,133.9
1990	1.6	264.5	14.5	6.4	6.4	12.9	0.1	34.2	891.8	1,190.4
1991	1.3	278.5	17.3	4.4	10.5	16.3	0.4	44.5	934.2	1,175.2
1992	1.2	285.7	17.3	4.4	9.2	8.1	0.1	41.2	988.0	1,174.0
1993	0.7	289.6	21.6	0.2	8.6	1.8	0.0	32.4	935.0	1,127.6
1994	0.4	267.9	21.4	0.2	9.3	2.7	0.0	41.6	952.9	1,163.8

^a Liquid petroleum gases.

^b There are no direct fuel costs for photovoltaic and solar thermal energy sources independent of record and waste are included in the residential sector. Expenditures for record and waste are included in the residential sector.

Continental sector prices and

—No consumption.
(a) Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and adjustments are detailed in Appendix A.

Table 44. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Colorado

Year	Primary Energy														Electricity	Total Energy ^c						
	Coal			Naphtha Gas	Petroleum									Bakelite ^d								
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total									
Prices in Nominal Dollars per Million Btu																						
1970	0.43	0.38	0.42	0.29	0.59	0.65	0.39	1.19	5.08	2.72	8.47	1.09	0.97	—	0.53	3.59	0.65					
1971	0.47	0.40	0.45	0.31	1.04	0.82	0.58	1.23	5.27	2.99	0.52	1.07	1.16	—	0.64	3.47	0.78					
1972	0.52	0.43	0.48	0.33	1.03	0.82	0.67	1.28	5.58	2.91	0.62	1.08	1.14	—	0.64	3.72	0.78					
1973	0.61	0.42	0.55	0.38	1.08	1.07	1.15	1.47	5.33	3.11	0.65	1.02	1.24	—	0.72	4.00	0.87					
1974	1.29	0.75	1.16	0.49	1.39	1.80	1.84	2.68	7.22	4.20	1.58	1.53	2.08	—	1.23	4.83	1.41					
1975	1.38	0.61	1.17	0.72	2.81	1.88	2.11	2.89	7.88	4.67	1.43	1.58	2.18	—	1.40	5.55	1.74					
1976	1.51	1.05	1.30	0.88	1.66	2.17	2.32	2.67	7.06	4.90	1.80	2.49	2.26	—	1.81	6.03	2.06					
1977	1.58	1.08	1.42	1.24	1.76	2.20	2.34	3.39	6.97	6.13	1.83	2.68	2.47	—	1.83	6.25	2.33					
1978	1.76	1.23	1.53	1.53	1.89	2.38	2.58	3.64	7.80	5.05	1.85	2.97	2.61	—	2.03	6.91	2.63					
1979	1.74	1.33	1.82	2.10	2.36	2.82	2.90	3.98	10.21	6.86	2.42	4.11	3.41	—	2.51	8.01	3.25					
1980	1.87	1.26	1.86	2.85	2.49	5.33	5.85	4.79	14.36	8.36	3.82	7.89	5.17	—	3.44	9.40	4.30					
1981	2.28	1.17	1.84	3.42	4.21	5.81	6.11	6.40	18.00	10.23	4.34	8.77	6.30	—	3.89	10.79	4.91					
1982	2.07	1.42	1.85	3.89	4.12	4.80	4.82	6.31	17.25	10.15	4.14	6.95	5.68	—	4.07	12.87	5.16					
1983	—	1.38	1.20	4.26	4.13	R 6.51	7.19	6.76	18.98	8.02	4.26	7.06	R 6.32	—	R 4.75	12.33	R 5.60					
1984	—	1.31	1.51	4.25	4.46	R 6.57	7.51	6.32	17.63	8.99	4.80	7.31	R 6.18	—	R 4.67	12.44	R 5.75					
1985	—	1.31	1.51	4.81	4.73	R 6.38	R 7.24	6.12	17.81	8.89	4.07	6.79	R 6.14	—	R 4.58	12.67	R 5.79					
1986	—	1.24	1.24	5.82	4.38	R 4.03	R 4.81	5.10	15.89	6.76	5.34	5.24	R 4.80	—	R 3.81	12.95	R 5.93					
1987	—	1.38	1.39	3.89	3.08	R 4.34	R 4.87	4.98	12.70	7.50	2.68	6.01	R 4.22	—	R 3.51	12.78	R 5.28					
1988	—	1.38	1.35	3.43	3.19	R 4.14	R 4.73	4.21	14.61	7.34	1.82	4.35	R 4.16	—	R 3.52	13.22	R 5.11					
1989	—	1.34	1.34	2.90	2.73	R 4.93	R 5.84	5.85	14.48	8.13	1.80	4.04	R 4.59	—	R 3.57	13.32	R 4.96					
1990	—	1.88	1.29	2.77	2.98	R 6.19	R 7.88	8.93	14.98	9.29	2.48	3.98	R 4.81	1.89	R 3.42	13.17	R 5.85					
1991	—	1.38	1.39	2.27	3.24	R 5.40	R 6.18	8.88	18.79	9.23	2.28	R 6.25	6.29	1.71	R 3.44	13.98	R 5.00					
1992	—	1.51	1.51	2.16	2.89	R 5.20	R 6.85	8.50	18.43	9.56	1.75	R 6.87	6.20	1.68	R 3.44	13.44	R 4.95					
1993	—	1.37	1.37	2.32	2.87	R 5.34	R 6.11	7.83	18.94	R 9.81	2.04	R 6.01	R 5.08	1.64	R 3.32	13.27	R 4.77					
1994	—	1.35	1.35	2.37	2.73	5.22	5.87	7.83	19.18	9.89	2.20	7.57	4.81	1.63	3.21	13.41	5.08					
Expenditure in Million Nominal Dollars																						
1970	12.9	5.4	17.4	23.1	12.3	18.1	3.8	4.2	14.8	3.8	3.1	54.1	—	—	94.8	28.8	121.5					
1971	11.6	3.2	14.8	22.4	29.5	13.0	2.3	4.1	4.8	15.7	3.8	2.8	68.5	—	103.9	29.5	132.3					
1972	14.6	5.7	20.2	26.8	21.1	12.9	2.4	5.7	5.4	14.4	4.2	2.7	68.8	—	115.7	33.0	148.7					
1973	18.9	5.3	24.1	31.9	23.9	20.0	2.8	6.7	3.9	15.9	5.8	3.4	82.5	—	136.5	38.2	178.7					
1974	39.9	6.1	46.0	36.2	34.2	38.8	2.4	13.4	5.1	21.2	21.8	4.9	139.7	—	224.0	49.3	273.9					
1975	39.5	14.8	54.4	48.9	28.8	38.8	2.3	19.6	7.1	21.1	19.8	6.7	198.9	—	273.2	81.3	344.8					
1976	44.8	12.5	57.3	47.1	28.2	46.2	2.1	17.9	7.4	22.6	22.1	12.0	164.8	—	289.2	113.9	383.1					
1977	48.2	15.5	63.7	61.5	31.9	47.6	2.3	20.7	10.1	28.5	29.1	14.9	192.1	—	305.2	132.5	438.0					
1978	38.0	15.5	53.5	75.9	29.3	60.4	3.9	24.2	11.8	20.5	37.3	15.9	190.4	—	319.8	150.9	470.7					
1979	50.8	15.2	66.0	98.3	43.1	65.2	3.8	38.8	49.6	26.3	7.0	23.0	211.6	—	378.8	185.9	561.5					
1980	68.2	21.1	71.3	134.6	81.4	123.7	12.3	32.4	28.8	34.2	39.8	38.5	347.2	—	654.2	218.8	798.8					
1981	54.8	18.0	72.9	151.5	51.1	100.4	5.1	27.0	25.0	31.9	2.5	23.2	266.1	—	490.5	237.9	728.4					
1982	18.7	22.9	42.6	158.4	44.2	70.8	1.9	42.1	21.8	31.1	0.1	18.5	230.6	—	432.8	194.0	626.7					
1983	—	21.5	21.5	167.2	51.5	R 137.2	0.7	32.8	22.5	23.9	4.3	18.0	R 290.8	—	R 479.6	198.8	R 616.4					
1984	—	24.2	24.2	168.8	61.8	R 141.2	0.5	13.2	24.9	23.9	2.0	21.0	R 318.3	—	R 601.4	217.0	R 718.4					
1985	—	28.8	28.8	196.3	87.5	R 94.8	R 4.1	11.6	23.2	28.3	(8)	18.0	R 264.3	—	R 422.9	222.7	R 645.7					
1986	—	20.5	20.8	117.6	68.2	R 81.8	R 0.5	8.2	20.1	19.7	(8)	8.3	R 233.9	—	R 362.1	245.8	R 607.9					
1987	—	21.8	21.8	100.0	62.6	R 67.3	R 0.8	7.2	18.5	21.1	(8)	7.1	R 184.7	—	R 308.5	258.3	R 666.8					
1988	—	18.8	19.8	123.2	75.2	R 88.8	R 1.0	12.9	29.5	18.4	(8)	6.0	R 222.8	—	R 386.7	270.9	R 657.6					
1989	—	17.9	17.9	121.1	53.1	R 81.1	R 0.9	36.5	20.8	21.8	(8)	5.8	R 218.8	—	R 357.8	275.1	R 632.9					
1990	—	18.8	19.8	124.4	68.8	R 85.7	R 0.7	18.2	21.8	19.9	(4)	6.2	R 220.2	1.3	R 385.7	282.3	R 668.1					
1991	—	21.6	21.6	116.1	68.8	R 111.0	0.6	32.7	22.2	24.4	(8)	R 10.5	R 268.3	1.8	R 407.8	293.4	R 701.2					
1992	—	22.3	22.3	115.3	61.1	R 134.3	R 0.3	30.5	26.2	24.9	(8)	R 14.7	R 282.0	1.4	R 431.0	300.4	R 731.4					
1993	—	22.3	22.3	146.0	65.1	R 112.8	R 0.4	R 34.7	28.0	R 25.4	R (8)	R 12.7	R 277.2	1.4	R 447.0	302.7	R 749.7					
1994	—	24.9	24.9	154.7	75.8	95.1	0.1	28.2	27.8	30.1	(8)	14.5	272.4	1.4	453.4	419.6	873.0					

^a Liquefied petroleum gases.

^b "Other" is the "other petroleum products" category described in Appendix A.

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

^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of petroleum beginning in 1990.

R=Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of

Appendix A.

(8)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 45. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1984, Colorado

Year	Primary Energy										Electricity	Total Energy					
	Coal	Natural Gas	Petroleum							Total							
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel								
Prices in Nominal Dollars per Million Btu																	
1970	0.39	—	2.17	1.20	0.76	1.19	5.89	2.72	0.38	2.17	—	2.17					
1971	0.40	—	2.21	1.24	0.80	1.23	6.27	2.93	0.34	2.34	—	2.34					
1972	0.43	—	2.19	1.23	0.79	1.26	5.58	2.81	0.34	2.27	—	2.27					
1973	0.42	—	2.38	1.47	0.94	1.47	5.33	3.11	0.82	2.54	—	2.54					
1974	0.75	—	3.23	2.45	1.62	2.68	7.22	4.20	1.78	3.54	—	3.54					
1975	0.81	—	3.45	2.48	2.12	2.59	7.48	4.87	1.86	3.98	—	3.98					
1976	1.06	—	3.69	2.70	2.32	2.87	7.05	4.90	1.57	4.19	—	4.19					
1977	1.08	—	3.97	3.06	2.71	3.39	6.97	5.13	1.85	4.45	—	4.45					
1978	—	—	4.29	3.22	2.82	3.84	7.60	5.05	1.73	4.47	—	4.47					
1979	—	—	8.73	4.82	4.08	3.98	10.21	6.88	2.44	6.18	—	6.18					
1980	—	—	9.82	7.13	6.59	4.79	14.34	9.36	—	8.75	—	8.75					
1981	—	—	10.84	8.22	7.87	6.40	18.00	10.25	—	9.73	—	9.73					
1982	—	—	10.92	7.75	7.38	6.31	17.25	10.15	—	9.62	—	9.62					
1983	—	—	10.44	6.89	6.47	6.78	18.86	8.62	4.59	8.41	—	8.41					
1984	—	—	10.27	6.93	6.22	6.22	17.83	8.99	4.51	8.27	—	8.27					
1985	—	—	9.99	6.79	5.94	6.12	17.81	8.36	3.79	8.43	—	8.43					
1986	—	—	8.41	6.91	3.92	5.10	15.59	8.76	2.01	6.39	—	6.39					
1987	—	—	7.55	7.28	4.05	4.09	12.70	7.59	—	6.98	—	6.98					
1988	—	—	7.41	7.13	3.78	4.21	14.61	7.34	—	6.85	—	6.85					
1989	—	—	8.28	7.85	4.30	5.66	14.46	6.19	—	7.70	—	7.70					
1990	—	3.46	8.32	4.86	5.59	6.89	14.49	9.29	—	8.77	—	8.77					
1991	—	3.34	8.71	8.39	4.87	6.65	16.79	9.23	—	8.56	—	8.56					
1992	—	3.37	8.54	8.62	4.47	5.50	19.43	9.56	—	8.71	—	8.71					
1993	—	2.87	8.24	8.70	4.25	7.82	19.94	8.61	—	8.62	—	8.62					
1994	—	3.53	7.85	8.53	3.99	7.56	19.18	9.83	3.08	8.61	21.91	8.81					
Expenditures in Million Nominal Dollars																	
1970	(a)	—	3.7	18.6	32.9	9.4	8.8	396.0	0.2	416.3	—	416.3					
1971	(a)	—	3.5	21.6	34.6	9.8	9.1	407.9	0.2	477.8	—	477.8					
1972	(a)	—	3.6	28.6	34.8	1.1	10.4	426.5	0.1	502.1	—	502.1					
1973	(a)	—	4.0	34.8	41.1	1.2	19.8	498.3	0.3	586.4	—	586.4					
1974	(a)	—	5.3	68.7	67.5	1.9	14.1	655.2	1.2	806.3	—	806.3					
1975	(a)	—	4.6	62.2	65.7	1.8	13.7	788.6	1.2	927.8	—	927.8					
1976	(a)	—	4.8	76.6	101.4	2.2	14.4	822.7	1.4	1,083.5	—	1,083.5					
1977	(a)	—	5.8	97.8	121.1	2.8	17.0	994.7	1.2	1,140.2	—	1,140.2					
1978	—	—	6.4	107.3	136.9	3.3	19.9	955.3	1.2	1,230.4	—	1,230.4					
1979	—	—	7.9	214.0	139.5	0.7	28.0	1,237.8	(a)	1,627.7	—	1,627.7					
1980	—	—	12.1	272.1	175.9	6.8	38.1	1,838.1	—	2,131.9	—	2,131.9					
1981	—	—	14.1	248.8	238.0	2.4	42.1	1,814.1	—	2,359.5	—	2,359.5					
1982	—	—	10.4	276.5	231.7	1.7	34.6	1,824.2	—	2,361.3	—	2,361.3					
1983	—	—	9.4	247.6	224.2	2.2	38.0	1,555.7	0.4	2,077.5	—	2,077.5					
1984	—	—	7.4	265.9	302.9	2.3	42.0	1,548.1	0.3	2,167.0	—	2,167.0					
1985	—	—	7.1	248.2	284.1	1.5	39.1	1,796.6	3.5	2,296.2	—	2,296.2					
1986	—	—	7.5	245.7	178.8	1.1	33.9	1,370.6	(a)	1,737.6	—	1,737.6					
1987	—	—	5.9	256.6	192.0	0.8	31.2	1,410.6	—	1,896.7	—	1,896.7					
1988	—	—	6.2	284.4	138.0	0.9	34.8	1,379.7	—	1,823.7	—	1,823.7					
1989	—	—	7.6	307.5	129.6	1.3	35.2	1,464.1	—	1,965.4	—	1,965.4					
1990	—	(a)	7.8	367.7	193.0	1.6	36.5	1,693.2	—	2,298.6	—	2,298.6					
1991	—	0.1	6.8	372.6	179.5	2.6	37.6	1,689.4	—	2,298.5	—	2,298.5					
1992	—	0.1	5.9	380.2	185.0	2.1	44.2	1,765.9	—	2,363.9	—	2,363.9					
1993	—	(a)	5.1	429.7	215.6	2.4	44.0	1,885.8	—	2,582.6	—	2,582.6					
1994	—	0.2	5.1	440.6	179.8	3.8	46.5	2,002.8	(a)	2,677.1	0.1	2,677.1					

^a Liquefied petroleum gases.

R- Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)-Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 46. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Colorado

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Electricity	Total Energy *
			Heavy Oil	Light Oil	Petroleum Cokes	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.26	0.24	0.36	0.46	—	0.37	—	—	0.28
1971	0.28	0.27	0.53	0.68	—	0.54	—	—	0.29
1972	0.30	0.35	0.53	0.68	—	0.54	—	—	0.33
1973	0.29	0.33	0.94	1.59	—	0.96	—	—	0.33
1974	0.37	0.43	1.82	2.31	—	1.96	—	—	0.44
1975	0.48	0.59	1.84	2.58	—	2.19	—	—	0.60
1976	0.49	0.76	1.84	2.99	—	1.89	—	—	0.61
1977	0.81	1.04	7.93	2.69	—	2.78	0.19	—	0.70
1978	0.68	1.30	1.83	2.82	—	2.19	0.21	—	0.77
1979	0.75	1.88	2.48	4.51	—	3.51	0.23	—	0.97
1980	0.89	2.44	4.38	6.68	—	6.86	0.21	—	1.18
1981	0.86	3.25	4.38	7.31	—	7.24	0.18	—	1.06
1982	1.09	3.62	4.77	9.89	—	9.85	0.21	1.29	1.14
1983	1.11	4.22	4.92	6.21	—	5.78	0.23	1.12	1.16
1984	1.13	3.75	4.84	6.03	—	5.94	0.20	1.28	1.19
1985	1.15	3.53	4.00	6.92	—	6.79	—	0.79	1.21
1986	1.16	3.00	—	3.37	—	3.37	0.27	0.32	1.21
1987	1.12	2.29	2.35	3.88	—	3.86	0.26	0.85	1.15
1988	1.07	2.29	2.80	3.88	—	3.62	0.29	0.87	1.09
1989	1.06	2.28	2.74	4.10	—	4.07	0.26	0.90	1.08
1990	1.06	2.17	3.08	8.36	—	8.34	—	0.80	1.08
1991	1.09	2.15	3.88	5.13	—	4.39	—	0.80	1.11
1992	1.09	2.14	3.23	4.79	—	4.08	—	—	1.11
1993	1.09	2.50	—	4.81	—	4.81	—	—	1.12
1994	1.06	2.19	3.22	4.58	—	4.56	—	—	1.07
Expenditures in Million Nominal Dollars									
1970	16.9	12.0	8.8	0.1	—	8.8	—	—	30.6
1971	19.1	15.6	0.9	0.1	—	1.0	—	—	35.9
1972	21.8	20.6	1.6	0.2	—	1.8	—	—	44.2
1973	27.3	16.9	3.3	1.2	—	4.5	—	—	46.7
1974	35.2	29.2	6.2	3.3	—	9.5	—	—	70.9
1975	54.5	30.8	10.8	8.2	—	29.0	—	—	105.4
1976	70.3	32.6	6.6	6.2	—	12.8	—	—	115.7
1977	108.9	35.3	5.3	3.8	—	9.0	0.5	—	153.1
1978	118.7	37.9	6.4	5.8	—	12.0	1.4	—	169.9
1979	144.4	65.5	6.4	12.1	—	18.5	0.5	—	228.9
1980	179.3	82.7	4.7	18.3	—	18.1	1.8	—	272.5
1981	228.5	43.1	0.1	8.3	—	8.4	1.5	—	281.5
1982	270.1	21.1	(a)	8.5	—	6.6	1.3	(a)	289.1
1983	263.2	18.8	1.4	5.2	—	6.7	1.9	(a)	290.6
1984	301.3	18.1	0.2	2.9	—	3.1	0.2	(a)	322.7
1985	321.8	17.2	0.2	3.9	—	4.1	—	(a)	342.6
1986	324.9	13.9	—	1.9	—	1.9	0.2	(a)	340.8
1987	312.0	17.7	(a)	2.0	—	2.0	0.5	(a)	332.3
1988	314.3	19.1	0.5	1.3	—	1.8	2.1	(a)	337.3
1989	328.7	18.7	(a)	1.7	—	1.7	1.8	(a)	350.7
1990	331.4	11.8	(a)	1.8	—	1.8	—	(a)	344.7
1991	331.4	12.2	1.1	1.1	—	2.2	—	(a)	345.6
1992	344.5	10.7	0.7	1.3	—	2.1	—	—	357.3
1993	351.0	12.3	—	0.6	—	0.6	—	—	364.0
1994	348.6	10.8	(a)	0.7	—	0.7	—	—	360.1

* These are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.

—No consumption.

(a)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 47. Energy Price and Expenditure Estimates by Source, 1970-1994, Connecticut

Year	Primary Energy													Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c										
	Coal			Natural Gas	Petroleum						Nuclear Fuel	Biomass	Total ^c													
	Caking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b																
Prices in Nominal Dollars per Million Btu																										
1970	—	0.49	0.49	1.87	1.29	0.75	1.98	2.89	0.40	\$1.23	1.37	0.13	—	1.29	0.35	2.09										
1971	—	0.58	0.58	1.71	1.35	0.79	1.88	3.02	0.58	\$1.73	1.53	0.15	—	1.34	0.41	2.39										
1972	—	0.83	0.83	1.74	1.39	0.87	1.99	3.01	0.66	\$1.74	1.62	0.15	—	1.36	0.80	2.51										
1973	—	1.15	1.15	1.65	1.61	1.00	2.19	3.28	0.83	\$1.79	1.71	0.22	—	1.63	0.74	2.77										
1974	—	1.25	1.25	2.95	2.72	1.06	2.98	4.38	2.04	\$3.01	2.80	0.20	—	2.51	1.41	4.13										
1975	—	2.08	2.08	2.88	2.73	2.11	3.65	4.61	2.54	\$3.08	3.06	0.28	—	2.88	1.36	4.59										
1976	—	1.78	1.78	3.14	2.91	2.22	3.95	4.80	1.99	\$3.23	3.16	0.28	—	2.84	1.07	4.57										
1977	—	1.97	1.97	3.75	3.27	2.43	4.45	5.11	2.25	\$3.54	3.49	0.27	—	2.91	1.17	4.96										
1978	—	2.20	2.20	3.69	3.47	2.96	4.71	5.34	2.20	\$3.69	3.58	0.22	—	2.96	1.07	5.11										
1979	—	1.92	1.92	4.08	5.00	3.95	5.29	7.28	3.35	\$5.13	5.16	0.31	—	4.16	1.68	6.73										
1980	—	3.35	3.35	4.97	6.82	6.58	6.88	18.40	4.66	\$7.72	7.09	0.39	—	6.85	2.80	19.10										
1981	—	3.97	3.97	6.68	8.65	7.90	7.72	11.38	6.58	\$9.48	8.68	0.45	—	8.81	2.76	23.60										
1982	—	3.80	3.80	7.17	6.39	7.51	9.09	10.30	4.78	\$8.70	7.98	0.63	—	9.21	2.31	25.79										
1983	—	3.30	3.30	7.73	\$6.25	\$7.13	8.90	9.56	4.54	\$8.40	7.48	0.76	—	8.17	2.53	25.97										
1984	—	3.45	3.45	7.00	\$6.44	\$6.61	8.81	9.11	4.91	\$8.49	7.48	0.90	—	8.93	2.70	25.94										
1985	—	2.48	2.48	7.29	\$6.22	\$6.29	10.95	9.37	4.32	\$7.61	\$7.44	0.91	—	\$8.94	2.38	25.82										
1986	—	2.32	2.32	6.66	\$6.57	4.50	10.66	7.45	2.56	\$8.32	5.97	0.91	—	\$4.45	1.64	24.65										
1987	—	2.45	2.45	6.94	6.26	4.34	10.62	7.83	2.97	\$8.56	5.99	0.92	—	4.47	1.61	24.27										
1988	—	2.31	2.31	6.04	\$6.48	4.00	10.79	8.91	2.42	\$8.55	\$6.14	0.88	0.87	4.51	1.42	24.65										
1989	—	2.18	2.18	6.35	\$7.15	4.67	11.12	9.30	2.58	\$8.79	6.81	0.99	(*)	4.99	1.44	25.66										
1990	—	2.15	2.15	6.40	\$6.49	5.91	12.31	18.08	3.04	\$8.38	7.82	0.84	(*)	\$5.23	1.89	26.83										
1991	—	2.19	2.19	6.48	\$6.05	5.10	13.89	10.04	2.49	\$8.78	\$7.48	0.80	1.58	\$5.76	1.50	28.13										
1992	—	1.99	1.99	6.69	\$7.27	4.68	11.55	10.19	2.43	\$8.27	\$7.61	0.71	1.60	\$5.64	1.17	29.41										
1993	—	1.75	1.75	6.95	\$7.13	4.41	11.24	10.09	2.44	\$8.33	\$7.69	0.80	1.64	\$5.20	0.93	30.07										
1994	—	1.81	1.81	7.03	6.91	4.15	10.53	10.33	2.89	\$8.50	7.85	0.58	1.58	5.33	0.93	29.83										

Expenditures in Million Nominal Dollars																
1970	—	23.5	23.5	96.4	181.8	12.3	13.8	445.2	38.3	\$86.7	602.3	5.3	—	827.5	345.0	1,398.4
1971	—	21.1	21.1	106.4	190.9	9.7	13.4	469.2	119.7	\$84.4	634.7	13.0	—	975.1	393.5	1,361.7
1972	—	3.8	3.8	112.9	203.5	13.8	15.8	486.3	168.0	\$87.6	621.9	12.9	—	1,051.3	471.6	1,581.4
1973	—	3.0	3.0	117.4	239.1	14.1	17.9	543.9	228.8	\$87.8	1,079.8	10.4	—	1,219.2	545.4	1,580.4
1974	—	9.1	9.1	167.6	387.1	22.9	23.7	724.6	483.2	\$93.3	1,674.8	17.8	—	1,858.4	732.6	2,244.3
1975	—	2.7	2.7	183.6	343.5	25.4	39.6	770.2	417.5	\$95.0	1,841.3	28.4	—	1,953.8	829.8	2,372.1
1976	—	2.0	2.0	206.5	410.1	28.2	35.1	822.5	408.4	\$88.6	1,758.8	35.9	—	2,016.2	855.9	2,582.5
1977	—	2.3	2.3	242.8	452.4	32.2	39.6	886.5	487.5	\$71.9	1,942.0	38.0	—	2,225.1	906.3	2,825.6
1978	—	1.9	1.9	256.7	476.5	38.7	37.8	932.2	473.7	\$83.3	2,038.1	32.7	—	2,330.2	941.9	2,976.4
1979	—	2.1	2.1	280.0	629.9	53.4	29.6	1,201.5	586.4	\$108.0	2,798.8	43.0	—	3,111.8	1,126.9	3,610.2
1980	—	1.2	1.2	388.3	685.8	72.5	37.8	1,682.8	888.2	\$154.7	3,612.8	48.1	—	4,031.6	1,361.4	4,724.8
1981	—	3.5	3.5	461.0	682.3	89.7	37.6	1,808.1	785.4	\$217.1	3,270.2	63.2	—	4,387.9	1,615.5	5,609.1
1982	—	2.9	2.9	571.4	1,002.6	45.9	46.8	1,626.7	637.6	\$198.8	3,526.7	80.6	—	4,161.7	1,945.0	5,524.7
1983	—	2.3	2.3	590.7	\$811.9	\$38.5	45.9	1,539.6	695.9	\$154.6	\$3,250.4	96.5	—	\$3,939.0	2,038.8	\$5,318.4
1984	—	5.1	5.1	582.7	\$817.9	\$37.5	44.4	1,477.3	774.5	\$182.8	\$3,414.4	138.8	—	\$4,141.0	2,123.3	\$5,468.9
1985	—	51.1	51.1	577.0	\$805.1	36.5	50.8	1,525.5	671.4	\$222.1	\$3,313.2	125.8	—	\$4,386.3	2,122.6	\$5,564.8
1986	—	49.1	49.1	563.0	\$788.0	31.9	44.0	1,247.2	599.2	\$182.1	\$2,832.3	180.7	—	\$3,417.1	2,082.9	\$4,958.9
1987	—	52.4	52.4	556.8	\$775.6	43.7	57.1	1,348.0	653.4	\$144.4	\$2,722.1	203.0	—	\$3,534.4	2,136.0	\$4,102.6
1988	—	53.3	53.3	546.3	\$867.2	48.9	59.8	1,539.8	638.8	\$138.2	\$2,686.8	205.2	2.2	\$3,793.6	2,255.1	\$4,607.2
1989	—	51.1	51.1	620.3	\$1,069.0	59.2	64.9	1,575.7	401.7	\$139.5	\$3,309.1	188.1	(*)	\$4,186.5	2,388.0	\$4,976.5
1990	—	55.1	55.1	643.2	\$1,805.7	78.4	71.0	1,638.1	317.3	\$137.8	\$3,448.3	177.5	(*)	\$4,147.1	2,486.8	\$4,123.7
1991	—	49.5	49.5	579.4	\$830.5	84.7	74.8	1,650.7	227.4	\$143.3	\$3,121.2	106.5	24.5	\$3,979.1	2,628.0	\$4,219.8
1992	—	44.4	44.4	\$779.4	\$841.5	80.7	78.9	1,68.0	168.0	\$139.9	\$3,131.8	125.3	24.9	\$4,108.7	2,721.9	\$4,521.1
1993	—	38.1	38.1	796.6	\$818.0	57.8	68.3	\$1,763.7	136.8	\$138.6	\$3,072.1	139.9	25.4	\$4,070.1	2,794.9	\$4,583.5
1994	—	40.6	40.6	854.2	819.4	57.6	66.9	1,773.3	128.3	147.4	2,989.0	121.6	25.3	4,034.9	2,862.0	6,820.4

^a Liquefied petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990^e Unless used biomass fuels at no charge or received a fee for accepting them

* Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 48. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Connecticut

Year	Primary Energy							Electricity	Total Energy ^c		
	Coal	Natural Gas	Petroleum				Miscellaneous ^b				
			Distillate Fuel	Kerosene	LPG ^a	Total					
Prices in Nominal Dollars per Million Btu											
1970	1.30	1.88	1.46	1.79	2.78	1.83	—	1.82	2.47		
1971	1.56	2.24	1.58	1.98	2.69	1.99	—	1.71	2.70		
1972	1.58	2.06	1.58	1.89	2.84	1.81	—	1.73	2.86		
1973	1.83	2.21	1.77	1.94	3.05	1.84	—	1.90	3.24		
1974	2.19	2.76	2.89	3.01	4.18	2.93	—	2.89	4.69		
1975	2.82	3.28	3.84	3.95	5.81	3.88	—	3.83	5.14		
1976	2.64	3.38	3.04	3.35	5.33	3.12	—	3.19	5.16		
1977	3.12	4.30	3.40	3.75	6.26	3.50	—	2.71	5.79		
1978	3.68	4.42	3.61	4.01	6.41	3.70	—	3.80	5.82		
1979	3.64	4.69	5.19	5.35	7.21	5.23	—	5.11	7.08		
1980	4.40	5.72	7.87	8.15	8.29	7.94	—	6.73	9.88		
1981	5.40	6.68	8.77	10.54	8.24	8.81	—	8.18	11.79		
1982	5.46	8.29	8.53	10.79	12.27	8.88	—	8.53	12.61		
1983	5.02	8.43	8.46	8.36	10.55	8.56	—	8.96	13.79		
1984	4.78	8.59	8.89	8.33	11.28	8.79	—	8.48	13.62		
1985	4.36	8.88	8.57	8.88	10.41	8.48	—	8.48	13.42		
1986	4.18	8.57	8.80	7.40	10.62	7.62	—	7.52	11.89		
1987	3.85	7.98	8.46	6.94	9.13	6.89	—	7.04	11.69		
1988	4.24	7.83	6.61	7.10	10.98	6.77	—	7.05	11.51		
1989	4.21	7.98	7.25	7.78	12.74	7.44	—	7.81	12.03		
1990	4.37	8.31	8.98	8.18	13.88	8.78	42.88	42.88	42.88		
1991	4.08	8.48	8.27	8.96	14.98	8.81	42.88	42.88	42.88		
1992	4.17	8.72	7.34	7.77	12.43	7.52	42.88	42.88	42.88		
1993	3.98	9.18	7.82	7.54	11.08	7.25	42.88	42.88	42.88		
1994	4.07	9.84	6.80	7.36	11.55	7.62	42.88	42.88	42.88		
Expenditures in Million Nominal Dollars											
1970	0.8	59.6	122.7	8.1	6.2	196.9	—	196.9	363.8		
1971	0.9	65.0	126.8	4.9	7.6	199.1	—	199.1	397.9		
1972	0.7	68.8	134.4	8.1	8.1	199.2	—	199.2	403.9		
1973	0.9	66.0	153.9	4.7	16.6	199.2	—	199.2	494.0		
1974	0.8	99.2	230.3	5.3	11.7	247.2	—	247.2	577.4		
1975	0.8	109.8	214.5	8.2	14.8	238.9	—	238.9	788.8		
1976	0.8	110.2	256.3	5.2	15.5	277.1	—	277.1	766.8		
1977	0.9	134.8	286.4	5.1	18.7	304.1	—	304.1	831.1		
1978	0.9	142.2	299.2	4.6	17.1	321.0	—	321.0	887.7		
1979	0.7	148.4	541.2	6.1	14.8	561.9	—	561.9	1,022.8		
1980	1.6	187.4	531.3	10.8	38.1	668.3	—	668.3	1,342.8		
1981	2.8	258.4	681.8	11.6	19.8	882.4	—	882.4	1,889.9		
1982	2.3	291.5	688.2	18.1	25.8	849.9	—	849.9	1,744.2		
1983	1.8	309.0	467.8	10.3	26.1	494.2	—	494.2	1,846.2		
1984	2.9	291.1	482.4	10.1	22.5	515.0	—	515.0	1,866.5		
1985	2.2	299.8	475.8	38.8	34.8	589.6	—	589.6	1,894.5		
1986	2.2	308.8	465.2	17.7	21.6	504.6	—	504.6	1,858.2		
1987	1.8	308.7	437.3	16.0	28.3	479.8	—	479.8	1,802.9		
1988	0.7	318.7	505.9	18.2	28.7	551.9	—	551.9	1,813.3		
1989	0.8	335.7	588.6	12.8	30.4	661.8	—	661.8	1,993.1		
1990	0.8	321.3	888.1	18.2	42.3	821.8	42.88	42.88	42.88		
1991	0.8	325.9	641.2	8.8	54.5	881.8	17.4	17.4	17.4		
1992	1.0	379.8	686.4	8.6	55.0	830.8	18.9	18.9	18.9		
1993	0.7	398.1	585.1	8.8	45.4	619.5	18.9	18.9	18.9		
1994	0.7	421.8	497.8	6.7	38.5	544.8	18.9	18.9	18.9		

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

R=Revised data.

—No consumption.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 49. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Connecticut

Year	Primary Energy								Total	Electricity	Total Energy ²			
	Coal	Natural Gas	Petroleum					Total						
			Utility Fuel	Kerosene	LPG ¹	Motor Gasoline	Residual Fuel							
Prices in Nominal Dollars per Million Btu														
1970	0.78	1.45	1.88	0.79	1.42	2.98	0.42	1.80	1.13	7.15	2.80			
1971	0.79	1.45	1.91	0.84	1.38	3.02	0.58	1.10	1.24	7.54	2.88			
1972	0.82	1.59	1.16	0.84	1.42	3.01	0.70	1.14	1.29	8.30	3.17			
1973	1.10	1.79	1.38	1.07	1.36	3.28	0.83	1.36	1.48	8.82	3.82			
1974	1.42	2.28	2.46	2.48	2.32	4.38	2.00	2.46	2.37	12.41	5.29			
1975	2.48	2.84	2.44	2.67	2.88	4.81	1.97	2.47	2.93	13.78	5.93			
1976	1.80	3.20	2.82	2.72	3.28	4.80	1.87	2.80	2.78	13.56	5.94			
1977	1.88	3.58	2.96	2.88	3.58	5.11	2.22	2.94	3.13	13.84	6.39			
1978	1.69	3.72	3.12	3.11	3.86	5.34	2.11	3.04	3.28	14.15	6.58			
1979	1.58	3.90	4.59	4.25	4.15	7.25	3.35	4.57	4.38	16.55	7.95			
1980	1.67	4.67	6.37	6.29	5.31	10.18	4.59	5.86	5.43	18.84	10.31			
1981	1.80	5.46	8.04	7.82	6.52	11.38	5.48	7.88	6.58	24.38	12.78			
1982	1.98	6.78	7.36	8.82	6.94	10.30	4.87	7.32	7.02	26.45	13.88			
1983	1.98	7.24	R7.46	7.72	7.37	9.56	4.51	R6.04	R6.88	28.50	R13.85			
1984	2.68	6.49	R7.41	8.01	7.18	9.11	5.25	R6.04	R6.88	27.83	R13.44			
1985	2.38	8.59	R7.87	R7.78	11.48	8.37	4.84	R4.41	R4.47	27.39	R13.80			
1986	2.43	8.24	R4.97	R5.10	10.20	7.45	2.79	R4.41	R5.20	25.26	R12.28			
1987	2.73	5.88	R4.88	R5.62	10.85	7.88	3.12	R4.80	R5.08	24.53	R12.25			
1988	2.58	5.45	R4.88	R5.37	10.88	8.91	2.57	R4.28	R4.85	24.74	R12.80			
1989	2.61	5.88	R5.51	R6.36	9.28	9.30	3.04	R4.97	R6.42	25.98	R12.88			
1990	2.63	6.18	R6.88	R7.88	10.88	10.88	3.28	R6.12	R6.90	27.88	R14.38			
1991	2.88	6.48	R6.88	R8.23	11.94	10.04	2.88	R6.34	R6.82	28.21	R15.42			
1992	2.88	7.00	R5.45	R8.88	9.36	10.18	2.53	R5.27	R6.82	29.30	R15.01			
1993	2.94	6.84	R5.22	R5.33	10.02	10.08	2.88	R6.81	R6.73	29.83	R15.71			
1994	2.21	7.17	8.01	5.47	9.88	10.38	3.16	8.00	6.71	29.67	15.19			
Expenditures in Million Nominal Dollars														
1970	0.3	21.3	28.5	8.1	8.8	1.8	2.6	34.4	58.1	112.8	188.6			
1971	0.3	25.0	30.5	0.1	0.7	1.5	3.1	35.9	61.2	131.7	192.9			
1972	0.3	27.5	32.8	0.1	0.8	2.4	3.8	38.2	67.0	159.2	228.2			
1973	0.3	38.1	38.9	0.1	0.7	3.5	4.5	47.8	76.2	184.8	281.8			
1974	0.4	36.2	68.7	0.1	1.1	5.3	8.2	78.4	140.0	249.8	385.8			
1975	0.4	42.3	98.7	0.2	1.8	8.8	8.1	78.2	177.8	288.4	388.3			
1976	0.3	53.8	71.8	0.1	1.7	6.1	9.8	88.8	143.7	268.4	433.1			
1977	0.3	59.9	79.4	0.1	1.9	8.7	12.1	101.2	180.4	308.4	469.8			
1978	0.3	63.8	83.9	0.1	1.8	7.9	12.8	105.8	188.9	324.2	484.1			
1979	0.2	88.4	155.5	0.2	1.5	9.8	12.0	178.9	245.5	388.7	634.3			
1980	0.2	94.1	187.8	0.2	2.8	14.8	35.8	158.4	254.6	478.4	731.2			
1981	0.7	127.5	137.4	0.3	2.5	18.8	27.2	184.9	312.6	625.4	837.8			
1982	0.5	161.0	136.1	0.1	2.5	15.9	22.4	175.9	357.5	685.9	1,033.4			
1983	0.4	185.9	R140.7	3.0	3.2	9.8	41.0	R197.4	R383.8	738.8	R1,102.5			
1984	1.1	185.8	R143.2	1.4	2.5	6.9	65.1	R218.2	R365.9	785.9	R1,171.7			
1985	0.8	188.8	R148.1	2.8	4.7	7.8	48.4	R218.8	R377.7	813.3	R1,188.8			
1986	0.8	158.9	R102.0	R1.9	3.9	5.7	28.2	R141.7	R301.4	798.8	R1,100.2			
1987	0.7	158.9	R98.2	3.8	3.8	7.2	25.8	R131.1	R280.7	822.1	R1,110.9			
1988	0.3	154.0	R81.9	2.0	5.1	7.7	22.0	R118.8	R273.1	871.0	R1,144.2			
1989	0.3	187.1	R110.1	R5.2	5.1	8.3	28.8	R150.2	R348.7	844.0	R1,280.7			
1990	0.3	185.3	R116.8	R3.3	5.8	18.7	21.4	R188.3	R341.9	888.0	R1,352.8			
1991	0.3	185.2	R105.9	R6.8	7.2	34.8	9.0	R163.1	R348.8	1,050.0	R1,388.7			
1992	0.7	214.8	R83.4	1.5	7.8	84.3	14.2	R201.2	R418.7	1,084.9	R1,501.7			
1993	0.3	220.8	R78.0	1.5	6.7	R42.2	6.9	R177.2	R288.1	1,123.3	R1,522.0			
1994	0.3	288.8	72.1	1.8	3.8	58.5	13.0	148.1	438.2	1,134.8	1,573.2			

¹ Liquefied petroleum gases.² There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R-Flashed data.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 50. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Connecticut

Year	Primary Energy															Electricity	Total Energy ^c		
	Coal			Natural Gas	Petroleum									Biomass ^d	Total ^e				
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																			
1970	—	8.79	0.79	1.03	0.88	8.73	8.78	1.42	5.98	2.38	0.49	0.91	8.89	—	0.72	4.27	1.06		
1971	—	0.79	0.79	1.14	0.82	0.77	0.84	1.39	5.27	3.02	0.61	1.11	0.78	—	0.82	4.70	1.31		
1972	—	0.92	0.92	1.15	0.85	0.77	0.84	1.42	5.58	3.01	0.86	1.10	0.83	—	0.87	5.40	1.47		
1973	—	1.10	1.10	1.24	0.83	0.99	1.07	1.38	5.33	3.28	0.79	1.24	0.95	—	0.99	5.96	1.64		
1974	—	1.42	1.42	1.71	1.64	2.24	2.43	2.32	7.22	4.36	2.02	2.48	2.18	—	2.00	9.10	3.07		
1975	—	2.09	2.09	2.34	1.91	2.41	2.67	2.98	7.48	4.61	2.12	2.37	2.30	—	2.39	16.51	3.43		
1976	—	1.60	1.60	2.05	1.86	2.52	2.72	3.29	7.05	4.30	2.09	3.23	2.54	—	2.39	10.39	3.33		
1977	—	1.89	1.89	2.64	2.06	2.78	2.99	3.53	8.97	5.11	2.31	3.51	2.58	—	2.62	10.85	3.67		
1978	—	1.89	1.89	3.04	2.25	2.86	3.11	3.80	7.60	5.34	2.34	3.84	2.63	—	2.68	10.85	3.72		
1979	—	1.56	1.56	3.25	2.64	4.01	4.23	4.15	10.21	7.26	3.41	4.99	3.80	—	3.68	12.68	5.20		
1980	—	—	—	4.08	3.87	5.75	6.29	8.31	14.38	18.10	4.85	7.66	5.40	—	5.13	16.68	7.84		
1981	—	1.89	1.89	4.67	6.40	5.93	7.62	6.82	18.00	11.38	5.74	8.43	7.32	—	6.59	20.63	9.95		
1982	—	1.99	1.99	5.04	4.08	7.74	8.62	8.91	17.25	10.30	4.88	8.66	6.54	—	6.32	21.67	9.79		
1983	—	1.98	1.98	5.76	4.24	7.42	7.72	7.37	18.98	9.59	4.67	8.11	6.63	—	6.29	22.00	10.44		
1984	—	2.88	2.88	5.47	4.63	7.95	8.01	7.19	17.63	9.11	5.25	8.19	6.80	—	6.21	22.42	10.29		
1985	—	2.28	2.28	5.38	5.20	7.78	7.78	11.48	17.61	8.37	4.88	7.94	8.41	—	6.10	21.93	9.98		
1986	—	2.13	2.13	4.53	4.88	7.43	7.43	10.80	15.59	7.45	2.79	6.46	4.76	—	4.89	20.00	8.51		
1987	—	2.73	2.73	4.08	3.58	7.46	7.46	10.95	12.70	7.93	3.12	6.30	4.77	—	4.58	19.93	8.25		
1988	—	2.66	2.66	3.92	3.39	7.47	7.47	10.63	14.61	9.91	2.57	6.31	4.51	—	4.32	20.17	8.23		
1989	—	2.61	2.61	4.38	3.20	7.54	7.54	10.29	14.46	9.30	3.04	6.14	4.94	—	4.75	21.11	8.87		
1990	—	2.83	2.83	4.88	3.38	7.77	7.77	18.08	14.84	18.05	3.25	6.78	5.56	1.41	4.82	22.15	9.99		
1991	—	2.88	2.88	4.89	3.05	7.83	7.83	11.94	18.79	10.04	2.69	6.23	5.06	1.49	4.69	23.21	8.85		
1992	—	2.86	2.86	4.79	2.80	7.51	7.51	9.99	18.43	10.19	2.53	6.07	4.99	1.40	4.47	24.09	8.58		
1993	—	2.34	2.34	4.64	3.30	7.58	7.58	10.02	18.94	10.09	2.66	5.91	4.82	1.39	4.55	24.30	8.42		
1994	—	2.21	2.21	4.36	3.66	7.75	7.75	8.35	19.18	10.33	3.16	6.00	5.10	1.32	4.46	23.13	8.55		
Expenditures in Million Nominal Dollars																			
1970	—	2.7	2.7	14.3	4.6	6.3	1.8	4.8	10.2	4.2	37.8	31.0	501.1	—	119.2	74.3	693.4		
1971	—	1.7	1.7	15.4	6.7	9.4	1.1	4.9	8.0	3.3	43.1	3.1	79.6	—	98.8	79.8	178.6		
1972	—	1.3	1.3	16.6	8.2	8.5	1.1	5.8	9.0	2.7	48.8	3.4	85.4	—	103.1	97.9	201.0		
1973	—	1.4	1.4	21.3	8.5	14.1	0.9	6.4	10.6	1.5	58.3	4.2	106.6	—	128.3	114.7	242.9		
1974	—	2.1	2.1	27.9	11.2	27.7	3.2	10.8	13.8	1.7	128.8	8.8	205.9	—	235.7	185.7	421.4		
1975	—	3.4	3.4	34.9	16.8	37.2	4.3	13.8	9.1	0.8	121.7	9.7	202.7	—	238.8	181.2	420.1		
1976	—	0.7	0.7	43.9	14.7	34.3	6.8	17.6	9.5	2.5	151.2	21.3	287.8	—	302.3	199.0	491.3		
1977	—	0.8	0.8	48.0	12.5	40.0	4.5	18.6	8.8	2.9	173.5	28.2	288.9	—	337.7	204.6	542.3		
1978	(a)	(a)	(a)	50.6	17.9	33.9	4.7	18.1	10.3	2.3	193.1	32.1	311.3	—	362.0	214.2	576.1		
1979	—	0.8	0.8	65.1	14.8	48.9	3.0	12.3	14.6	2.8	172.0	48.6	317.9	—	383.9	265.1	649.0		
1980	—	—	—	84.7	15.9	186.4	9.8	25.3	28.1	3.5	181.1	75.6	436.4	—	521.2	386.6	907.8		
1981	(a)	(a)	(a)	105.1	28.1	80.5	9.0	14.8	21.8	3.1	81.2	116.0	344.2	—	449.3	444.7	894.0		
1982	—	0.1	0.1	129.0	21.3	58.7	5.9	17.9	19.0	2.9	98.8	80.5	313.0	—	442.1	438.5	880.6		
1983	—	0.4	0.4	124.7	20.7	53.2	1.5	15.8	19.6	2.2	81.9	72.7	237.4	—	382.5	458.5	841.0		
1984	—	0.3	0.3	117.5	28.7	51.1	0.6	18.3	21.7	3.6	79.6	71.1	274.6	—	382.6	477.7	860.2		
1985	—	0.2	0.2	106.8	72.2	42.2	1.9	20.7	20.2	11.1	84.9	86.3	286.6	—	494.8	467.4	962.1		
1986	—	0.4	0.4	82.5	68.6	27.2	2.1	17.7	17.5	9.3	40.4	30.4	213.6	—	498.6	421.5	920.1		
1987	—	0.2	0.2	83.4	50.8	48.2	1.9	24.1	16.1	9.8	38.9	34.6	224.6	—	498.1	424.9	923.1		
1988	—	1.0	1.0	78.7	41.7	36.2	7.8	23.8	17.9	12.5	30.9	29.3	203.3	—	493.0	434.0	927.1		
1989	—	0.1	0.1	89.0	38.2	48.9	8.7	19.3	18.2	13.5	32.4	33.4	210.6	—	499.8	448.0	947.8		
1990	—	0.1	0.1	122.2	35.8	48.2	9.0	21.4	18.9	13.8	28.3	46.1	283.2	6.4	493.8	461.0	954.8		
1991	—	0.2	0.2	158.1	40.0	37.3	11.4	14.1	19.4	12.6	16.8	42.9	194.5	7.1	499.5	461.0	960.5		
1992	—	0.6	0.6	179.0	31.2	27.7	0.3	15.0	22.9	12.9	19.5	47.0	176.5	6.8	482.5	475.0	957.5		
1993	—	1.7	1.7	175.7	34.5	24.2	0.6	15.0	22.7	10.4	24.1	41.6	173.5	6.5	487.5	464.0	951.5		
1994	—	1.6	1.6	137.6	40.7	21.2	1.4	10.0	24.0	10.6	26.1	43.2	177.2	6.8	483.3	467.0	950.3		

^a Liquefied petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990^e Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

(e) Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 51. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Connecticut

Year	Primary Energy										Total	Electricity	Total Energy			
	Coal	Natural Gas	Petroleum													
			Aviation Gasoline	Diesel Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Total						
Prices in Nominal Dollars per Million Btu																
1970	0.78	—	2.17	1.39	0.75	1.42	5.08	2.96	0.38	2.63	2.63	—	2.63			
1971	0.79	—	2.21	1.49	0.79	1.39	5.27	3.02	0.55	2.74	2.74	—	2.74			
1972	0.92	—	2.19	1.50	0.78	1.42	5.58	3.01	0.44	2.71	2.71	—	2.71			
1973	1.10	—	2.36	1.81	0.93	1.39	5.35	3.28	0.74	2.94	2.94	—	2.94			
1974	1.42	—	3.23	2.72	1.61	2.32	7.92	4.38	1.78	4.03	4.03	—	4.03			
1975	2.00	—	3.48	2.99	2.09	2.89	7.48	4.91	1.73	4.39	4.39	—	4.39			
1976	1.80	—	3.59	3.10	2.29	3.29	7.05	4.80	1.71	4.48	4.48	—	4.48			
1977	1.69	—	3.97	3.61	2.64	3.63	6.97	5.11	1.98	4.81	4.81	—	4.81			
1978	—	—	4.29	3.79	2.97	3.96	7.90	5.34	1.99	5.05	5.05	—	5.05			
1979	—	—	5.73	5.32	3.98	4.15	10.21	7.26	2.95	6.91	6.91	—	6.91			
1980	—	—	9.02	7.40	6.51	5.31	14.39	16.19	3.88	9.89	9.89	—	9.89			
1981	—	—	10.84	9.02	7.60	6.52	16.00	11.36	4.74	11.08	11.08	—	11.08			
1982	—	—	10.92	8.71	7.61	6.91	17.25	10.30	4.22	10.07	10.07	—	10.07			
1983	—	—	10.44	8.80	7.13	7.37	16.36	9.56	4.22	9.39	9.39	—	9.39			
1984	—	—	10.27	9.16	6.61	7.18	17.83	9.11	4.50	9.08	9.08	—	9.08			
1985	—	—	8.99	8.18	6.28	11.46	17.61	8.37	4.08	9.28	9.28	—	9.28			
1986	—	—	8.41	7.60	4.80	10.80	15.59	7.45	3.32	7.42	7.42	—	7.42			
1987	—	—	7.55	7.35	4.34	10.95	12.70	7.63	2.73	7.70	7.70	—	7.70			
1988	—	—	7.41	7.78	4.00	10.63	14.61	6.91	2.20	8.49	8.49	—	8.49			
1989	—	—	8.28	8.33	4.67	9.26	14.48	9.30	2.63	8.89	8.89	—	8.89			
1990	—	—	8.32	8.74	5.91	10.80	14.80	10.06	2.74	9.76	9.76	—	9.76			
1991	—	—	8.71	9.42	5.10	11.94	16.79	10.04	2.29	9.68	9.68	—	9.68			
1992	—	12.11	8.54	8.90	4.88	9.96	16.43	10.19	2.21	9.71	9.71	—	9.71			
1993	—	8.73	8.34	8.65	4.41	10.02	16.94	10.09	2.29	9.62	9.62	—	9.62			
1994	—	7.51	7.99	8.70	4.16	9.09	19.18	10.33	2.40	9.78	9.78	—	9.78			
Expenditures in Million Nominal Dollars																
1970	(a)	—	1.4	18.3	12.3	6.1	7.3	439.8	0.8	479.8	479.8	—	479.8			
1971	(a)	—	1.2	20.0	9.7	6.1	7.3	484.3	1.6	504.3	504.3	—	504.3			
1972	(a)	—	1.2	22.2	11.1	6.1	8.3	481.2	2.1	526.3	526.3	—	526.3			
1973	(a)	—	1.9	26.6	12.6	6.2	7.1	636.8	4.4	692.5	692.5	—	692.5			
1974	(a)	—	1.7	41.4	20.6	6.3	9.2	717.6	6.0	798.7	798.7	—	798.7			
1975	(a)	—	1.8	46.5	23.8	6.3	8.3	763.5	6.3	844.8	844.8	—	844.8			
1976	(a)	—	1.4	45.1	24.9	6.4	9.3	813.8	7.6	902.5	902.5	—	902.5			
1977	(a)	—	2.2	51.7	31.7	6.5	16.5	878.9	6.8	982.2	982.2	—	982.2			
1978	—	—	2.2	58.6	35.5	6.6	12.2	922.8	5.3	1,037.4	1,037.4	—	1,037.4			
1979	—	—	2.5	83.9	60.1	6.3	17.2	1,189.1	0.9	1,344.0	1,344.0	—	1,344.0			
1980	—	—	4.1	111.2	78.7	6.3	21.5	1,584.7	1.3	1,793.8	1,793.8	—	1,793.8			
1981	—	—	4.2	120.2	69.0	6.6	25.9	1,798.2	0.1	2,007.3	2,007.3	—	2,007.3			
1982	—	—	3.9	187.4	45.5	6.6	22.6	1,608.9	0.2	1,696.5	1,696.5	—	1,696.5			
1983	—	—	3.5	167.7	39.8	6.7	23.3	1,522.1	11.9	1,757.7	1,757.7	—	1,757.7			
1984	—	—	3.2	236.7	37.5	1.1	25.6	1,468.6	6.9	1,778.1	1,778.1	—	1,778.1			
1985	—	—	3.6	238.2	36.5	1.3	24.6	1,507.4	3.9	1,817.9	1,817.9	—	1,817.9			
1986	—	—	3.1	192.0	31.9	0.9	20.6	1,232.2	0.5	1,481.4	1,481.4	—	1,481.4			
1987	—	—	2.1	197.6	43.7	0.9	19.2	1,331.0	1.2	1,595.7	1,595.7	—	1,595.7			
1988	—	—	1.8	238.3	48.8	1.2	21.3	1,519.6	1.8	1,832.7	1,832.7	—	1,832.7			
1989	—	—	1.7	306.6	68.2	1.1	21.8	1,552.8	1.1	1,944.1	1,944.1	—	1,944.1			
1990	—	—	4.4	351.2	78.4	1.4	22.4	1,611.8	1.3	2,090.9	2,090.9	—	2,090.9			
1991	—	—	1.2	243.0	64.7	1.7	23.1	1,633.5	1.3	1,968.7	1,968.7	—	1,968.7			
1992	—	(a)	1.2	252.1	60.7	1.2	27.2	1,647.9	0.6	1,990.4	1,990.4	—	1,990.4			
1993	—	(a)	1.2	248.9	57.6	1.2	27.0	1,659.2	0.6	1,995.8	1,995.8	—	1,995.8			
1994	—	(a)	1.1	226.4	57.6	1.5	28.8	1,706.5	0.3	2,021.6	2,021.6	—	2,021.6			

^a Liquefied petroleum gases

R=Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 52. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Connecticut

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.45	0.34	0.38	0.37	—	0.38	0.13	—	0.35
1971	0.55	0.38	0.54	0.54	—	0.54	0.15	—	0.41
1972	0.61	0.42	0.65	0.61	—	0.60	0.15	—	0.50
1973	0.85	0.53	0.85	1.29	—	0.88	0.22	—	0.74
1974	1.11	0.63	2.06	2.25	—	2.08	0.20	—	1.41
1975	1.24	1.34	2.02	2.34	—	2.82	0.29	—	1.35
1976	1.25	1.65	1.94	2.40	—	1.94	0.26	—	1.07
1977	1.30	—	2.24	2.36	—	2.24	0.27	—	1.17
1978	1.48	—	2.13	2.00	—	2.12	0.22	—	1.07
1979	1.53	—	3.32	3.64	—	3.32	0.31	—	1.68
1980	—	—	4.70	5.13	—	4.71	0.38	—	2.69
1981	—	—	5.59	7.78	—	5.57	0.45	—	2.78
1982	—	—	4.75	7.31	—	4.76	0.53	—	2.31
1983	—	—	4.54	6.29	—	4.64	0.76	—	2.63
1984	2.26	3.71	4.64	6.21	—	4.85	0.90	—	2.70
1985	2.36	3.28	4.24	5.88	—	4.25	0.91	—	2.38
1986	2.27	2.09	2.51	3.89	—	2.51	0.91	—	1.54
1987	2.42	2.37	2.83	4.01	—	2.84	0.92	—	1.61
1988	2.29	2.17	2.40	3.64	—	2.41	0.88	0.57	1.42
1989	2.14	2.51	2.85	4.26	—	2.87	0.89	(b)	1.64
1990	2.13	2.70	3.27	5.67	—	3.02	0.84	(b)	1.83
1991	2.17	2.69	2.47	4.82	—	2.48	0.80	(b)	1.50
1992	1.85	2.68	2.40	4.82	—	2.42	0.71	(b)	1.17
1993	1.70	3.78	2.39	4.12	—	2.40	0.60	(b)	0.83
1994	1.77	1.98	2.52	3.82	—	2.54	0.58	(b)	0.99
Expenditures in Million Nominal Dollars									
1970	19.7	0.1	48.8	2.2	—	51.0	6.3	—	76.1
1971	18.2	(a)	71.8	3.8	—	75.7	13.0	—	108.9
1972	1.3	(a)	115.6	5.8	—	121.4	12.9	—	135.7
1973	0.6	(a)	158.7	5.8	—	164.3	10.4	—	175.2
1974	4.9	0.3	337.2	6.4	—	343.6	17.6	—	365.7
1975	0.1	0.5	261.4	3.1	—	264.5	26.4	—	311.5
1976	0.3	0.7	239.8	2.8	—	242.7	35.8	—	278.6
1977	0.3	—	285.0	1.8	—	286.6	36.0	—	304.6
1978	0.6	—	262.7	0.9	—	263.6	32.7	—	296.8
1979	0.3	—	361.5	2.7	—	364.2	43.0	—	427.5
1980	—	—	433.8	6.0	—	439.0	49.1	—	498.1
1981	—	—	435.9	4.2	—	441.1	63.2	—	704.3
1982	—	—	518.2	3.1	—	521.4	80.8	—	602.0
1983	—	—	561.1	2.5	—	563.6	85.5	—	652.2
1984	0.8	6.5	622.9	4.5	—	627.4	138.8	—	775.5
1985	47.8	6.4	453.2	2.8	—	459.1	125.8	—	634.9
1986	45.7	1.8	288.7	2.4	—	291.1	182.7	—	521.1
1987	50.0	17.9	287.7	3.2	—	290.9	203.0	—	561.8
1988	51.3	2.8	275.1	4.8	—	280.0	205.2	2.2	541.4
1989	49.9	8.5	338.7	4.9	—	343.6	188.1	(b)	586.1
1990	54.8	13.6	298.2	2.3	—	267.4	177.6	(b)	512.4
1991	48.2	10.2	200.3	3.1	—	203.4	125.5	(b)	357.2
1992	41.9	5.8	131.7	1.8	—	133.5	126.3	(b)	307.5
1993	33.4	2.2	104.3	1.8	—	106.1	139.9	(b)	281.6
1994	38.2	16.0	85.9	1.9	—	90.7	121.8	(b)	286.4

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^b Utilities used biomass fuels at no charge or received a fee for accepting them.
—No consumption.

(a)—Value less than 0.05 million nominal dollars.

Notes: Expenditure totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 53. Energy Price and Expenditure Estimates by Source, 1970-1994, Delaware

Year	Primary Energy													Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^d		
	Coal			Natural Gas	Petroleum							Nuclear	Biomass	Total ^c				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total							
Prices in Nominal Dollars per Million Btu																		
1970	—	4.28	0.39	0.91	1.16	0.79	1.85	2.86	0.45	\$0.79	1.27	—	—	1.06	0.36	1.69		
1971	—	0.52	0.52	0.97	1.22	0.75	1.17	2.92	0.65	\$0.84	1.39	—	—	1.18	0.52	1.65		
1972	—	0.54	0.64	1.12	1.23	0.78	1.27	2.98	0.65	\$0.89	1.34	—	—	1.22	0.58	2.00		
1973	—	0.58	0.68	1.20	1.44	0.80	1.38	3.10	0.80	\$1.01	1.43	—	—	1.35	0.70	2.15		
1974	—	1.10	1.10	1.40	2.30	1.56	2.30	4.10	1.98	\$1.65	2.45	—	—	2.23	1.70	3.35		
1975	—	1.16	1.16	1.89	2.63	2.03	3.00	4.54	1.92	\$2.00	2.75	—	—	2.48	1.63	3.68		
1976	—	1.02	1.02	1.91	2.74	2.17	3.78	4.68	1.67	\$2.52	2.80	—	—	2.65	1.62	3.67		
1977	—	1.11	1.11	2.79	3.12	2.54	3.76	4.81	2.17	\$2.88	3.08	—	—	2.86	1.90	4.63		
1978	—	1.29	1.29	3.13	3.27	2.83	5.06	4.94	2.04	\$2.97	3.18	—	—	2.96	1.84	4.87		
1979	—	1.35	1.35	2.87	4.74	3.95	4.74	5.83	3.19	\$4.07	4.45	—	—	3.96	2.65	5.76		
1980	—	1.87	1.87	3.37	6.77	6.46	5.28	9.60	4.23	\$5.14	6.88	—	—	5.13	3.35	7.28		
1981	—	1.88	1.88	4.25	8.13	7.61	7.57	10.66	5.12	\$7.02	7.46	—	—	5.71	3.38	8.90		
1982	—	2.08	2.08	4.64	7.75	7.18	7.75	10.02	4.60	\$6.49	7.19	—	—	5.55	3.06	9.07		
1983	—	1.95	1.95	4.81	\$7.50	\$8.00	9.12	9.30	4.37	\$6.50	\$7.27	—	—	\$5.09	2.65	\$9.11		
1984	—	1.93	1.93	4.92	\$7.64	\$7.12	8.01	8.95	4.70	\$6.53	\$7.10	—	—	\$5.07	2.73	\$9.61		
1985	—	1.87	1.87	4.87	\$7.64	4.63	10.85	8.38	4.18	\$6.43	\$7.38	—	—	5.16	2.48	\$9.16		
1986	—	1.87	1.87	4.43	\$6.97	4.87	10.76	8.57	2.32	\$4.60	5.22	—	—	4.95	2.01	\$7.65		
1987	—	1.78	1.78	3.93	\$5.69	4.03	10.38	7.61	2.73	\$4.29	5.52	—	—	4.08	2.05	\$7.48		
1988	—	1.77	1.77	4.04	\$5.63	4.16	10.14	8.07	2.24	\$4.31	5.34	—	—	4.06	1.95	\$7.80		
1989	—	1.75	1.75	4.05	\$5.28	4.80	11.40	8.88	2.60	\$4.40	6.04	—	—	4.55	2.12	\$8.34		
1990	—	1.76	1.76	3.82	\$5.92	4.33	12.44	18.26	3.71	\$3.48	6.92	—	2.48	\$4.80	1.97	\$9.00		
1991	—	1.75	1.75	3.43	\$6.08	5.51	13.08	9.51	2.25	\$3.90	6.90	—	2.39	\$4.58	1.92	\$8.78		
1992	—	1.70	1.70	3.62	\$6.73	5.14	12.06	9.16	2.28	\$3.52	6.06	—	2.42	4.84	1.86	\$8.73		
1993	—	1.67	1.67	4.04	\$6.68	4.88	\$11.58	\$8.98	2.24	\$6.31	\$6.14	—	2.46	\$4.49	1.93	\$9.67		
1994	—	1.60	1.60	3.95	8.64	4.72	11.58	9.50	2.44	5.96	6.69	—	2.43	4.69	1.96	\$9.44		
Expenditures in Million Nominal Dollars																		
1970	—	14.5	14.5	24.4	28.1	8.1	90.8	93.6	18.6	\$12.7	173.8	—	—	211.8	-33.1	264.4		
1971	—	19.1	19.1	26.1	30.8	8.3	10.1	100.0	25.6	\$16.3	191.3	—	—	236.5	-30.0	265.1		
1972	—	12.7	12.7	27.3	31.3	7.8	12.6	105.3	38.4	\$16.5	211.9	—	—	261.6	-32.9	331.9		
1973	—	12.1	12.1	27.0	36.8	8.4	14.2	118.3	89.9	\$16.2	255.8	—	—	285.6	-44.7	353.6		
1974	—	23.4	23.4	30.8	60.5	14.7	23.3	161.0	152.4	\$27.0	429.6	—	—	463.1	-123.9	540.9		
1975	—	28.8	28.8	34.9	62.2	16.0	34.9	168.4	123.3	\$29.1	436.9	—	—	484.5	-406.3	683.2		
1976	—	20.9	20.9	37.3	72.4	18.4	36.5	177.9	132.1	\$43.1	481.5	—	—	539.4	-109.7	642.8		
1977	—	19.6	19.6	46.2	85.9	22.9	36.4	185.2	184.9	\$52.4	547.6	—	—	612.4	-132.1	732.8		
1978	—	26.2	26.2	66.1	79.2	21.6	80.8	189.9	148.7	\$55.3	543.4	—	—	637.7	-137.9	770.9		
1979	—	32.2	32.2	73.3	100.0	30.2	121.8	251.1	222.2	\$60.3	615.5	—	—	621.0	-195.8	903.8		
1980	—	44.1	44.1	182.9	148.5	64.6	66.7	333.8	335.5	\$133.8	1,069.8	—	—	1,308.8	-289.3	1,398.2		
1981	—	96.6	96.6	133.0	147.4	60.6	24.1	388.5	270.9	\$108.1	684.1	—	—	1,225.6	-291.0	1,265.0		
1982	—	98.4	98.4	137.2	122.6	57.2	24.6	348.5	177.0	\$85.6	617.4	—	—	1,053.9	-264.6	1,212.5		
1983	—	142.9	142.9	196.3	\$147.2	\$58.1	28.8	368.0	134.6	\$66.2	\$794.3	—	—	\$1,103.6	-263.9	402.6		
1984	—	140.5	140.5	205.7	\$156.9	\$60.6	37.4	350.0	140.3	\$64.5	\$808.8	—	—	\$1,156.0	-268.9	442.8		
1985	—	133.3	133.3	198.8	\$158.8	88.0	37.8	372.8	82.7	\$186.2	\$817.2	—	—	\$1,139.1	-229.9	487.9		
1986	—	124.1	124.1	145.4	\$113.0	35.2	34.2	282.7	72.6	\$69.3	\$697.0	—	—	\$885.5	-179.4	440.0		
1987	—	128.1	128.1	144.1	\$126.8	27.9	37.9	314.6	70.3	\$66.7	\$643.2	—	—	\$912.3	-186.2	446.3		
1988	—	121.8	121.8	118.9	\$126.3	30.5	37.0	347.3	87.1	\$60.8	\$678.9	—	—	\$919.8	-188.6	496.4		
1989	—	105.4	105.4	143.4	\$164.2	32.4	36.3	380.3	84.4	\$64.7	\$755.4	—	—	\$1,206.2	-191.6	504.5		
1990	—	404.8	404.8	180.9	\$188.9	44.4	44.7	428.3	83.4	\$66.7	\$791.3	—	2.39	\$1,051.1	-171.0	533.6		
1991	—	39.1	39.1	145.9	\$139.1	70.9	51.3	369.3	67.1	\$68.0	\$763.6	—	4.1	\$1,032.8	-175.9	567.9		
1992	—	79.4	79.4	153.5	\$126.9	40.1	40.2	362.6	67.3	\$65.9	\$732.9	—	4.2	\$969.0	-149.2	589.1		
1993	—	105.8	105.8	170.6	\$138.6	37.6	\$42.1	\$392.2	\$94.4	\$68.1	\$751.1	—	4.4	\$1,032.0	-170.3	632.7		
1994	—	91.7	91.7	198.0	137.8	14.4	52.7	414.5	82.0	60.0	761.3	—	4.4	1,053.5	-170.9	627.0		

^a Liquefied petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990^e Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 54. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Delaware

Year	Primary Energy							Electricity	Total Energy ^c		
	Coal	Natural Gas	Petroleum			Nuclear ^d	Total ^e				
			Distillate Fuel	Kerosene	LPG ^a						
Prices in Nominal Dollars per Million Btu											
1970	1.18	1.55	1.42	1.34	2.40	1.51	—	1.52	2.38		
1971	1.25	1.50	1.44	1.44	2.25	1.52	—	1.54	2.53		
1972	1.47	1.68	1.45	1.62	2.57	1.56	—	1.60	2.77		
1973	1.55	1.82	1.59	1.60	3.32	1.56	—	1.85	3.25		
1974	2.27	2.07	2.58	2.93	3.79	2.73	—	2.50	4.38		
1975	2.78	2.39	2.31	3.37	4.73	2.88	—	2.78	5.19		
1976	1.75	2.56	2.90	3.28	4.97	3.15	—	2.95	5.29		
1977	2.67	3.17	3.32	3.85	4.61	3.46	—	3.37	6.23		
1978	2.98	3.95	3.45	4.09	6.50	3.80	—	3.88	6.87		
1979	3.02	3.92	4.92	5.53	6.11	5.55	—	5.11	7.53		
1980	3.38	4.76	6.69	6.58	6.53	7.34	—	6.05	10.18		
1981	4.18	5.35	8.46	10.80	6.99	8.93	—	7.36	11.48		
1982	4.22	5.85	8.03	10.54	9.91	8.83	—	7.47	12.63		
1983	3.78	5.48	7.94	9.38	11.95	8.41	—	7.48	12.50		
1984	4.07	6.55	7.80	9.22	10.75	8.41	—	7.68	12.84		
1985	3.79	6.81	7.54	8.80	16.37	8.33	—	7.98	12.67		
1986	3.75	6.97	6.13	7.15	11.18	7.13	—	7.04	12.47		
1987	3.80	6.28	5.72	6.67	10.86	6.68	—	6.48	11.89		
1988	3.68	5.90	5.78	6.74	10.04	6.63	—	6.32	11.91		
1989	3.51	6.33	6.36	7.42	13.10	7.71	—	7.12	12.47		
1990	3.75	6.64	7.63	8.56	18.54	9.18	^a 9.85	^d 17.52	^d 13.84		
1991	3.60	5.72	7.19	6.38	14.48	9.13	3.53	^d 17.41	^d 13.28		
1992	3.74	5.93	6.66	7.77	13.31	8.38	3.53	^d 17.07	^d 12.81		
1993	3.65	6.47	6.48	7.66	12.71	8.12	3.53	^d 17.11	^d 13.30		
1994	3.52	7.18	6.45	7.52	13.91	8.41	3.53	7.61	13.55		
Expenditures in Million Nominal Dollars											
1970	8.1	12.4	16.8	2.8	8.8	28.4	—	36.9	65.9		
1971	9.1	13.3	17.4	2.9	9.3	29.7	—	37.1	71.5		
1972	9.1	14.3	18.8	2.9	4.0	25.6	—	40.1	81.7		
1973	9.1	13.9	20.5	3.2	4.7	26.4	—	42.5	90.7		
1974	9.2	15.8	29.4	4.0	5.2	38.6	—	54.3	115.9		
1975	9.2	16.9	38.4	4.1	6.9	49.4	—	67.5	135.8		
1976	9.1	19.3	34.0	4.2	8.0	47.1	—	66.4	150.1		
1977	9.1	23.4	39.0	3.3	8.4	48.7	—	72.3	171.6		
1978	9.1	30.3	36.0	3.1	9.3	47.5	—	77.7	181.1		
1979	9.1	28.1	42.3	6.2	39.6	110.1	—	138.3	250.4		
1980	9.2	28.7	62.7	18.9	11.7	77.8	—	107.7	248.2		
1981	9.2	37.7	50.7	15.7	14.6	81.2	—	119.0	242.2		
1982	9.5	40.4	41.8	18.4	13.1	74.9	—	118.2	258.1		
1983	9.2	41.0	60.8	12.7	19.4	91.8	—	130.0	282.0		
1984	9.2	45.7	64.4	9.1	19.8	93.2	—	136.0	315.7		
1985	9.2	43.8	56.3	32.4	22.1	113.6	—	167.1	336.2		
1986	9.4	48.6	37.7	12.9	18.8	67.5	—	118.4	298.5		
1987	1.3	44.7	44.7	12.8	19.5	76.9	—	122.9	315.3		
1988	0.6	45.5	46.9	11.6	20.0	78.4	—	124.6	337.6		
1989	0.6	49.8	48.9	11.3	26.4	86.8	—	136.0	380.0		
1990	0.7	44.4	43.0	7.3	26.1	76.4	^d 2.2	^d 125.9	^d 348.9		
1991	0.6	42.1	42.9	7.9	33.0	83.5	2.3	^d 128.5	^d 371.6		
1992	(6)	50.2	40.4	8.3	29.8	78.5	2.4	^d 129.2	^d 370.2		
1993	1.5	55.8	42.9	4.5	30.8	78.2	2.6	^d 137.9	^d 411.9		
1994	0.9	53.6	44.3	4.1	35.4	89.9	2.6	150.9	427.9		

^a Liquefied petroleum gases^b Commercial sector prices and expenditures for wood and waste are included in the residential sector^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of fuels beginning in 1990^e Revised data^f No consumption^g Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 55. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Delaware

Year	Primary Energy								Electricity	Total Energy ^b		
	Coal	Natural Gas	Petroleum					Total				
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel					
Prices in Nominal Dollars per Million Btu												
1970	0.28	1.22	1.12	0.85	0.99	2.84	0.46	6.98	0.76	6.66		
1971	0.46	1.25	1.14	0.86	0.95	2.82	0.66	0.83	0.89	1.80		
1972	0.40	1.33	1.14	0.86	1.02	2.96	0.64	0.81	0.90	2.04		
1973	0.43	1.36	1.32	0.98	1.07	3.10	0.81	0.96	1.02	2.26		
1974	0.83	1.90	2.23	2.15	2.06	4.10	2.01	2.11	2.01	3.92		
1975	1.28	1.87	2.39	2.38	3.49	4.54	1.98	2.17	2.11	4.54		
1976	1.02	1.94	2.57	2.56	3.55	4.59	1.84	2.17	2.13	4.51		
1977	1.34	2.68	2.68	2.94	3.61	4.81	2.18	2.48	2.54	5.43		
1978	1.10	3.75	3.10	3.12	4.04	4.94	2.01	2.48	2.74	6.24		
1979	1.28	3.84	4.45	4.27	3.90	5.89	3.31	3.66	3.66	8.73		
1980	1.28	3.88	6.30	6.38	4.72	8.68	4.24	4.54	4.47	8.68		
1981	1.39	5.01	7.63	7.58	6.21	10.66	5.14	5.88	5.71	8.89		
1982	1.37	6.41	7.48	7.82	6.34	10.02	4.64	6.50	5.43	9.65		
1983	1.34	5.99	R 6.53	6.79	6.79	9.39	4.43	R 6.03	R 5.96	R 13.87		
1984	1.32	6.06	R 6.55	6.49	6.49	8.95	4.78	R 5.91	R 5.87	R 13.02		
1985	1.33	6.36	R 6.27	R 6.77	11.88	8.36	4.35	R 6.80	R 6.48	R 14.05		
1986	1.35	6.26	R 4.68	R 4.69	10.37	6.97	2.68	R 4.63	R 4.44	R 12.73		
1987	1.30	6.12	R 4.36	R 4.65	9.86	7.61	2.87	R 4.60	R 4.60	R 11.47		
1988	1.32	4.84	R 4.26	R 4.24	10.28	9.07	2.31	R 4.44	R 4.53	R 11.98		
1989	1.28	5.32	R 4.75	R 4.91	9.19	8.68	2.51	R 4.64	R 4.56	R 12.08		
1990	1.22	6.84	R 6.82	R 6.31	10.33	18.28	3.13	R 5.58	R 6.11	R 12.75		
1991	1.35	4.69	R 4.85	R 5.63	11.08	9.51	2.38	R 5.66	R 4.96	R 13.03		
1992	1.32	4.78	R 4.87	R 5.35	9.60	8.18	2.43	R 5.13	R 4.91	R 12.90		
1993	1.27	6.27	R 4.36	R 5.18	9.32	R 8.98	2.35	R 4.28	R 4.68	R 12.65		
1994	1.27	5.96	4.23	5.13	10.48	9.50	2.46	4.62	5.29	13.14		
Expenditures in Million Nominal Dollars												
1970	(a)	3.5	5.1	8.2	0.3	6.4	6.8	11.8	14.5	34.4		
1971	(a)	3.8	6.3	0.2	0.2	0.4	7.2	13.9	17.2	40.6		
1972	(a)	4.3	6.7	0.2	0.3	0.3	6.8	13.4	17.7	47.8		
1973	(a)	4.3	6.2	0.2	0.3	0.3	10.2	17.3	21.5	56.9		
1974	(a)	5.2	9.5	0.4	0.5	0.5	15.5	28.8	32.0	77.6		
1975	(a)	5.8	10.0	0.4	0.5	0.5	14.7	28.8	32.5	96.5		
1976	(a)	6.1	11.9	0.5	1.0	0.9	15.6	30.0	36.1	97.2		
1977	(a)	6.3	13.5	0.4	0.9	0.9	21.8	37.5	46.6	123.9		
1978	(a)	11.6	12.8	0.3	1.1	0.9	14.9	26.7	41.3	124.4		
1979	(a)	10.8	14.8	0.9	6.7	1.4	34.8	58.9	89.3	161.8		
1980	(a)	13.7	23.3	0.3	1.1	2.3	115.4	140.8	164.0	281.9		
1981	(a)	19.9	29.2	0.3	1.8	2.9	63.4	97.7	117.8	228.2		
1982	(a)	20.0	16.0	0.5	1.5	3.1	35.4	58.7	78.9	192.3		
1983	0.1	20.8	R 11.5	0.3	1.8	2.0	5.1	R 20.9	R 41.8	R 170.5		
1984	(a)	23.8	R 11.6	0.2	2.2	1.3	7.5	R 23.1	R 46.7	R 174.8		
1985	8.1	22.8	R 12.2	2.0	4.2	1.9	1.9	R 22.1	R 44.2	R 175.3		
1986	0.2	22.4	R 6.5	R 0.4	2.6	1.4	2.8	R 13.8	R 36.3	R 165.9		
1987	0.6	19.3	R 9.2	R 0.4	3.1	1.7	3.0	R 17.4	R 37.6	R 171.5		
1988	0.4	19.9	R 9.7	R 0.6	3.6	1.7	2.8	R 18.2	R 38.5	R 189.8		
1989	0.4	22.6	R 6.2	0.2	3.3	1.8	4.1	R 17.8	R 40.6	R 194.8		
1990	6.4	20.7	R 11.1	6.4	3.8	1.8	3.8	R 20.8	R 41.8	R 206.7		
1991	0.4	20.5	R 12.7	0.4	4.5	1.7	0.9	R 20.0	R 40.9	R 218.9		
1992	(a)	24.5	R 9.5	(a)	3.6	1.7	1.4	R 18.3	R 40.9	R 218.9		
1993	1.0	26.4	R 6.5	0.2	4.0	0.4	3.2	R 18.4	R 45.7	R 241.7		
1994	0.6	33.7	6.4	0.2	4.7	0.4	2.5	14.2	45.5	243.5		

^a Liquefied petroleum gases.^b There are no distillate fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R Revised data.

(a) Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 56. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Delaware

Year	Primary Energy															Electricity	Total Energy ^c							
	Coal			Natural Gas	Petroleum									Biofuels ^c	Total ^c									
	Colony Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total											
Prices in Nominal Dollars per Million Btu																								
1970	—	8.20	0.28	0.57	0.66	0.76	0.85	0.98	5.88	2.96	0.40	0.58	0.88	—	0.88	2.18	1.82							
1971	—	0.46	0.46	0.62	0.70	0.79	0.88	0.96	5.27	2.92	0.88	0.81	0.62	—	0.77	3.78	1.18							
1972	—	0.40	0.40	0.74	0.75	0.78	0.86	1.02	5.58	2.88	0.85	0.80	0.83	—	0.81	4.67	1.37							
1973	—	0.43	0.43	0.80	0.79	0.90	0.98	1.07	5.33	3.10	0.79	0.85	0.91	—	0.86	5.37	1.49							
1974	—	0.93	0.83	0.89	1.34	1.98	2.15	2.06	7.22	4.10	1.58	1.43	1.67	—	1.70	6.15	2.71							
1975	—	1.20	1.28	1.37	1.76	2.18	2.36	3.40	7.86	4.54	1.87	1.86	2.31	—	2.14	8.25	3.14							
1976	—	1.02	1.02	1.44	1.79	2.36	2.58	3.55	7.05	4.69	1.82	2.69	2.46	—	2.30	9.08	3.24							
1977	—	1.34	1.34	2.42	1.87	2.68	2.94	3.61	6.97	4.81	2.16	2.91	2.79	—	2.73	10.83	3.74							
1978	—	1.19	1.19	2.44	2.19	2.84	3.12	4.84	7.60	4.94	2.08	2.95	3.18	—	2.94	10.88	4.02							
1979	—	1.25	1.25	1.95	2.57	3.99	4.27	3.90	10.21	6.83	2.90	3.39	3.68	—	3.31	11.80	4.34							
1980	—	1.20	1.28	2.72	3.68	5.71	6.36	4.72	14.36	8.60	4.19	8.16	5.38	—	4.36	15.28	5.89							
1981	—	1.39	1.39	3.54	4.87	6.83	7.68	8.21	18.00	10.68	5.14	7.41	6.51	—	4.88	18.48	6.77							
1982	—	1.37	1.37	4.43	4.08	7.11	7.82	6.34	17.25	10.09	4.49	5.48	5.79	—	4.80	17.72	6.99							
1983	—	1.34	1.34	4.22	4.05	6.18	6.79	6.79	18.86	9.39	4.31	7.16	6.11	—	4.68	15.18	6.54							
1984	—	1.32	1.32	4.24	4.51	6.18	6.81	6.49	17.83	9.95	4.78	6.80	6.14	—	4.64	15.42	6.38							
1985	—	1.23	1.23	4.38	4.87	6.82	6.77	11.08	17.81	9.29	4.35	6.71	6.15	—	4.72	16.15	6.88							
1986	—	1.33	1.33	3.41	4.16	4.15	4.58	10.37	15.59	6.87	2.68	3.96	4.43	—	3.61	13.80	6.82							
1987	—	1.30	1.30	3.27	3.17	4.21	4.65	9.88	12.70	7.61	2.87	4.19	4.38	—	3.49	13.27	6.58							
1988	—	1.32	1.32	3.18	3.13	3.84	4.24	10.26	14.81	8.07	2.31	3.56	3.86	—	3.24	14.17	6.52							
1989	—	1.28	1.28	3.40	2.90	4.44	4.91	9.19	14.48	8.88	2.81	4.28	4.24	—	3.60	12.89	6.58							
1990	—	1.22	1.22	3.39	2.80	5.71	6.39	10.35	14.80	10.26	3.13	4.87	4.81	1.68	3.72	13.28	6.76							
1991	—	1.35	1.35	3.02	3.06	5.10	6.83	11.09	16.79	9.51	2.38	6.56	5.26	1.68	3.69	13.04	6.94							
1992	—	1.32	1.32	3.14	2.24	4.84	6.35	9.60	19.43	9.16	2.43	6.45	4.73	1.68	3.81	13.81	6.94							
1993	—	1.27	1.27	3.28	3.02	4.87	5.18	9.32	18.94	8.98	2.35	4.99	4.26	1.68	3.46	14.92	5.70							
1994	—	1.27	1.27	3.31	2.63	4.59	5.08	8.29	19.18	8.60	2.48	4.66	4.29	1.68	3.53	13.52	5.86							

Expenditures in Million Nominal Dollars																	
1970	—	0.2	0.3	7.8	2.3	3.8	0.1	6.5	1.3	4.4	7.3	1.8	34.1	—	31.8	26.7	67.1
1971	—	0.3	0.3	7.1	3.1	4.0	0.1	6.5	1.3	1.4	9.8	4.2	30.4	—	37.8	30.8	68.6
1972	—	0.2	0.2	7.5	2.8	4.0	0.2	6.2	1.5	1.5	11.1	4.8	33.7	—	41.4	40.8	82.3
1973	—	0.3	0.3	8.0	2.4	4.7	0.1	9.2	1.6	1.2	18.8	6.4	43.4	—	51.7	49.8	100.8
1974	—	0.5	0.5	9.8	5.6	9.3	0.4	17.4	1.9	2.1	28.8	9.0	74.7	—	84.1	74.5	158.6
1975	—	0.8	0.8	9.6	7.8	12.7	0.4	28.7	1.4	1.5	21.7	11.8	88.9	—	84.2	88.1	180.3
1976	—	0.6	0.6	9.2	6.0	12.9	0.5	28.1	1.8	1.4	22.9	28.8	96.0	—	107.7	88.2	176.0
1977	—	0.8	0.8	10.9	3.7	16.6	0.3	28.5	3.2	1.3	29.2	34.7	118.7	—	128.4	75.1	203.5
1978	—	3.2	3.2	21.4	3.1	13.2	0.3	40.4	3.7	1.2	19.8	37.6	119.4	—	144.0	84.7	228.7
1979	—	2.4	2.4	19.7	7.0	18.7	0.4	65.4	5.2	1.7	36.3	55.9	177.6	—	189.7	99.5	289.1
1980	—	3.4	3.4	34.8	8.3	20.5	0.6	43.8	6.8	1.8	45.1	88.6	212.0	—	292.1	122.9	415.0
1981	—	6.0	6.0	51.1	13.5	15.7	0.1	7.3	7.9	1.9	32.8	59.6	138.9	—	195.9	127.5	323.4
1982	—	5.7	5.7	54.9	11.9	18.4	0.2	9.7	6.9	1.5	31.7	39.1	117.4	—	176.0	128.8	304.7
1983	—	6.0	6.0	82.7	5.6	14.7	0.9	8.3	7.1	1.2	18.7	32.1	88.7	—	176.5	125.0	301.5
1984	—	8.1	8.1	103.9	7.1	14.9	0.4	15.4	7.9	2.7	26.5	30.0	104.6	—	214.8	136.1	350.9
1985	—	7.0	7.0	83.5	27.8	14.8	0.2	11.4	7.3	2.7	16.1	29.4	180.1	—	208.6	145.7	354.3
1986	—	8.7	8.7	89.7	16.8	10.0	0.1	13.0	6.3	2.2	9.6	18.7	171.6	—	148.0	130.3	278.3
1987	—	7.0	7.0	67.7	12.1	10.3	0.4	15.2	5.8	2.3	14.3	17.3	177.7	—	142.3	119.9	262.2
1988	—	8.1	8.1	46.2	8.5	9.9	0.3	13.1	6.5	2.4	13.6	15.1	169.4	—	123.7	135.4	259.1
1989	—	6.5	6.5	50.2	10.0	11.6	0.2	8.5	6.8	3.0	14.3	18.3	173.5	—	130.3	136.3	266.6
1990	—	6.5	6.5	56.4	10.3	14.4	0.1	12.6	6.8	2.6	12.6	26.7	186.9	1.7	158.6	148.5	296.1
1991	—	7.0	7.0	47.5	2.9	13.1	0.3	13.5	7.0	2.5	10.3	34.2	183.9	1.8	140.1	148.9	289.1
1992	—	4.7	4.7	58.1	1.2	9.8	0.1	6.5	8.3	2.5	14.9	34.3	177.2	1.8	139.8	149.1	288.9
1993	—	5.5	5.5	63.3	2.2	9.8	0.9	7.1	8.2	3.0	19.9	31.0	182.2	1.8	152.7	162.7	315.5
1994	—	6.0	6.0	66.5	3.1	8.1	4.3	12.4	8.7	3.2	22.2	29.9	182.8	1.8	167.2	156.0	312.2

^a Liquefied petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of boilers beginning in 1990.

R=Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 57. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Delaware

Year	Primary Energy										Electricity	Total Energy		
	Coal	Natural Gas	Petroleum							Total				
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel					
Prices in Nominal Dollars per Million Btu														
1970	0.28	—	2.17	1.24	0.73	0.99	8.88	2.86	6.42	2.13	2.13	2.13		
1971	0.46	—	2.21	1.34	0.76	0.96	5.27	2.92	0.81	2.25	—	2.25		
1972	0.40	—	2.19	1.38	0.76	1.02	5.58	2.98	0.57	2.25	—	2.25		
1973	0.43	—	2.36	1.78	0.80	1.07	5.33	3.10	0.74	2.36	—	2.36		
1974	0.93	—	3.23	2.79	1.56	2.06	7.22	4.10	1.60	3.32	—	3.32		
1975	1.28	—	3.46	2.81	2.40	3.46	7.46	4.54	1.72	3.74	—	3.74		
1976	1.02	—	3.59	3.01	2.17	3.35	7.05	4.58	1.70	3.81	—	3.81		
1977	1.34	—	3.97	3.53	2.55	3.61	6.87	4.61	1.85	4.11	—	4.11		
1978	—	—	4.29	3.71	2.83	4.64	7.60	4.94	1.77	4.31	—	4.31		
1979	—	—	5.73	5.49	3.95	3.80	10.21	6.63	2.92	6.06	—	6.06		
1980	—	—	8.82	7.72	6.46	4.72	14.36	8.69	3.83	8.41	—	8.41		
1981	—	—	10.84	8.53	7.81	6.21	18.05	10.60	4.44	9.79	—	9.79		
1982	—	—	10.92	7.94	7.18	6.34	17.25	10.02	4.36	9.23	—	9.23		
1983	—	—	10.44	8.22	^R 6.00	6.79	16.96	9.39	4.17	^R 8.80	—	^R 8.80		
1984	—	—	10.27	8.29	^R 7.12	6.49	17.63	9.95	4.55	^R 8.44	—	^R 8.44		
1985	—	—	8.89	8.52	6.83	11.06	17.81	8.38	3.89	8.78	—	8.78		
1986	—	—	8.41	6.66	4.87	10.37	16.59	6.87	2.12	8.42	—	8.42		
1987	—	—	7.65	6.53	4.09	9.68	12.70	7.61	2.67	6.82	—	6.82		
1988	—	—	7.41	6.69	4.16	10.26	14.61	8.07	2.00	6.96	—	6.96		
1989	—	—	8.28	7.27	4.80	9.19	14.48	8.85	2.35	7.68	—	7.68		
1990	—	—	8.32	6.71	6.33	10.33	14.80	14.26	2.33	8.82	—	8.82		
1991	—	—	8.71	6.26	5.51	11.09	16.79	9.51	2.04	7.79	—	7.79		
1992	—	—	8.54	7.67	5.14	9.50	19.43	9.16	2.08	7.68	—	7.68		
1993	—	—	8.24	7.62	4.88	9.32	18.94	^R 8.99	2.02	^R 7.69	—	^R 7.69		
1994	—	3.93	7.96	6.04	4.72	6.82	19.16	9.50	2.37	6.23	—	9.23		
Expenditures in Million Nominal Dollars														
1970	(a)	—	6.2	2.6	5.1	6.1	2.1	92.1	1.8	167.8	—	167.8		
1971	(a)	—	0.1	3.5	8.3	0.1	2.3	96.2	1.9	114.4	—	114.4		
1972	(a)	—	0.2	2.5	7.6	0.1	2.6	103.5	3.3	119.9	—	119.9		
1973	(a)	—	0.1	4.2	6.4	0.1	2.1	114.6	5.7	135.6	—	135.6		
1974	(a)	—	1.0	8.2	14.7	0.2	2.7	146.4	13.7	168.8	—	168.8		
1975	(a)	—	8.3	8.4	18.0	0.5	2.3	166.2	10.4	206.0	—	206.0		
1976	(a)	—	0.3	11.1	18.4	0.5	2.4	175.9	11.0	219.4	—	219.4		
1977	(a)	—	0.6	14.0	22.9	0.5	2.7	183.0	10.3	233.6	—	233.6		
1978	—	—	0.4	18.0	21.6	1.0	3.1	187.8	8.0	236.6	—	236.6		
1979	—	—	0.6	24.6	30.2	0.2	4.4	246.1	9.9	319.0	—	319.0		
1980	—	—	0.5	43.3	54.9	0.2	5.5	329.4	20.1	453.7	—	453.7		
1981	—	—	0.5	46.6	60.6	0.2	6.7	380.5	8.1	503.3	—	503.3		
1982	—	—	0.6	43.9	57.2	0.2	5.8	343.9	5.5	457.4	—	457.4		
1983	—	—	0.8	55.5	^R 59.1	0.3	6.0	352.9	13.7	^R 488.2	—	^R 488.2		
1984	—	—	0.7	61.0	^R 60.6	0.2	6.6	348.0	13.3	^R 488.5	—	^R 488.5		
1985	—	—	0.8	61.3	56.0	0.2	6.2	367.9	5.8	488.3	—	488.3		
1986	—	—	0.8	56.5	55.2	1.7	5.4	279.0	7.8	386.5	—	386.5		
1987	—	—	0.8	58.6	27.9	0.1	4.9	310.6	19.4	423.1	—	423.1		
1988	—	—	0.7	58.3	30.5	0.2	5.5	343.2	11.0	447.3	—	447.3		
1989	—	—	0.7	79.1	32.4	0.2	5.6	375.5	13.1	506.7	—	506.7		
1990	—	—	3.6	88.6	44.4	0.2	6.3	424.9	13.4	561.9	—	561.9		
1991	—	—	0.8	67.6	70.9	0.3	5.9	385.0	16.9	547.4	—	547.4		
1992	—	—	0.6	64.1	40.1	0.2	7.0	380.4	13.4	514.0	—	514.0		
1993	—	—	2.1	75.0	37.6	0.2	7.0	^R 388.7	14.5	^R 525.3	—	^R 525.3		
1994	—	(a)	2.3	72.1	14.4	0.2	7.4	410.9	16.9	526.1	—	526.1		

^a Liquefied petroleum gases^R Revised data

—No consumption, including cases where adjustments were made See explanation of adjustments in Section 7 of Appendix A.

(a) Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table S8. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Delaware

Year	Prices in Nominal Dollars per Million Btu				Expenditures in Million Nominal Dollars			Total Energy ^a
	Coal	Natural Gas	Heavy Oil	Light Oil	Petroleum	Total	Nuclear Fuel	Biofuels
1970	0.39	0.37	5.46	0.47	0.29	0.40	—	—
1971	0.52	0.47	0.67	0.71	0.31	0.54	—	—
1972	0.54	0.47	0.67	0.70	0.32	0.61	—	—
1973	0.58	0.69	0.81	1.02	0.29	0.77	—	—
1974	1.10	1.31	2.03	2.06	0.60	1.95	—	—
1975	1.15	1.02	1.87	2.19	0.49	1.82	—	—
1976	1.02	1.12	1.61	2.37	1.50	1.90	—	—
1977	1.09	1.84	2.19	2.46	1.35	2.17	—	—
1978	1.30	1.82	2.05	2.48	1.43	2.03	—	—
1979	1.35	2.79	3.26	3.84	2.85	3.25	—	—
1980	1.64	3.47	4.27	4.31	4.32	4.23	—	—
1981	2.03	4.19	5.15	7.44	0.83	4.96	—	—
1982	2.14	4.08	4.85	7.07	1.14	4.47	—	—
1983	1.99	4.19	4.41	6.05	1.27	4.20	—	—
1984	1.97	4.44	4.70	5.94	1.25	4.44	—	—
1985	1.91	3.88	4.13	5.51	1.27	3.86	—	—
1986	1.91	2.59	2.29	3.90	1.09	2.20	—	—
1987	1.81	2.75	2.75	3.90	1.05	2.68	—	—
1988	1.81	2.42	2.28	3.81	1.02	2.23	—	—
1989	1.79	2.54	2.72	3.90	0.94	2.68	—	—
1990	1.82	2.64	2.71	4.56	0.86	2.65	—	—
1991	1.78	2.37	2.31	4.62	0.84	1.92	—	—
1992	1.73	2.60	2.32	4.44	0.76	1.80	—	—
1993	1.69	2.51	2.26	3.96	—	2.30	—	—
1994	1.62	2.34	2.46	4.19	—	2.61	—	—

Expenditures in Million Nominal Dollars									
1970	14.2	1.4	4.5	9.8	2.2	7.5	—	—	25.1
1971	16.6	1.9	6.6	0.7	2.0	8.5	—	—	30.0
1972	12.3	1.2	17.1	0.4	1.6	19.2	—	—	32.6
1973	11.7	1.8	29.2	1.1	1.1	31.4	—	—	44.7
1974	22.7	1.2	94.3	3.8	1.9	100.0	—	—	123.9
1975	25.6	1.9	76.4	1.7	0.7	78.8	—	—	106.3
1976	19.9	2.9	82.5	1.5	3.0	87.0	—	—	109.7
1977	16.6	2.6	104.5	2.7	3.7	110.9	—	—	132.1
1978	24.8	2.8	104.0	2.5	3.7	110.2	—	—	137.9
1979	29.7	14.8	141.0	3.6	7.6	151.2	—	—	168.8
1980	36.5	20.3	154.5	6.9	12.1	178.5	—	—	208.3
1981	93.3	24.7	165.1	5.2	1.8	173.0	—	—	231.0
1982	92.9	21.9	104.4	3.4	1.6	103.7	—	—	254.5
1983	37.6	21.7	97.3	4.7	2.7	104.8	—	—	263.9
1984	134.1	32.6	93.0	4.8	2.5	100.2	—	—	268.9
1985	125.9	25.3	85.6	3.1	2.7	74.7	—	—	238.6
1986	116.9	4.6	29.6	2.3	2.8	67.7	—	—	179.4
1987	115.9	22.3	42.6	3.1	2.4	45.0	—	—	188.2
1988	112.8	7.3	80.0	3.6	2.0	65.5	—	—	189.6
1989	98.8	21.8	62.8	6.3	1.8	70.9	—	—	191.6
1990	97.3	25.3	33.9	3.9	7.6	44.4	—	—	171.0
1991	91.1	35.6	39.1	3.2	6.7	49.0	—	—	175.9
1992	73.7	22.6	37.6	3.0	7.9	48.8	—	—	145.2
1993	57.9	23.4	46.7	2.4	—	49.1	—	—	170.3
1994	94.2	42.3	36.4	6.0	—	44.4	—	—	170.9

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
 —No consumption

Notes: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 50. Energy Price and Expenditure Estimates by Source, 1970-1994, District of Columbia

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c										
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biomass	Total ^c													
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total																
Prices in Nominal Dollars per Million Btu																											
1970	—	0.29	0.29	1.27	1.09	0.73	1.49	2.86	0.50	\$3.04	1.89	—	—	1.89	0.43	5.39	1.72										
1971	—	0.50	0.50	1.31	1.21	0.76	1.44	2.93	0.72	\$2.76	1.37	—	—	1.28	0.84	5.86	1.97										
1972	—	0.37	0.37	1.40	1.27	0.76	1.46	3.01	0.70	\$3.48	1.40	—	—	1.32	0.85	6.19	2.15										
1973	—	0.48	0.48	1.44	1.53	0.80	1.89	3.12	0.81	\$3.26	1.64	—	—	1.43	0.75	6.83	2.38										
1974	—	1.47	1.47	1.54	2.46	1.56	2.49	4.48	2.03	\$4.06	2.69	—	—	2.49	1.82	9.84	3.71										
1975	—	1.32	1.32	2.13	2.81	—	3.37	4.95	1.87	\$4.48	3.30	—	—	2.95	1.82	10.74	4.39										
1976	—	1.12	1.12	2.32	2.82	—	3.66	5.09	1.95	\$4.19	3.39	—	—	2.99	1.92	10.73	4.53										
1977	—	1.15	1.15	2.89	3.27	—	3.76	6.39	2.24	\$4.05	3.67	—	—	3.33	2.25	11.55	5.13										
1978	—	1.31	1.31	3.13	3.45	2.83	4.37	5.45	2.19	\$4.08	3.64	—	—	3.47	2.14	13.08	5.77										
1979	—	1.32	1.32	3.36	4.97	3.95	3.96	7.02	3.25	\$5.00	5.38	—	—	4.58	3.30	13.13	6.73										
1980	—	1.78	1.78	4.36	7.18	6.86	6.06	9.97	4.48	\$6.33	7.26	—	—	4.38	4.59	14.32	8.75										
1981	—	2.19	2.19	5.20	7.93	7.81	6.44	11.16	4.90	\$11.06	9.14	—	—	7.30	5.13	16.06	9.91										
1982	—	2.23	2.23	6.33	8.15	7.18	6.39	10.64	4.19	\$13.32	9.35	—	—	7.35	4.72	19.11	10.26										
1983	—	2.05	2.05	7.98	\$7.64	6.44	8.95	10.46	4.32	\$11.88	\$8.46	—	—	\$7.90	4.66	19.82	\$11.11										
1984	—	2.11	2.11	7.55	\$7.64	\$6.16	6.79	10.27	5.00	\$13.74	\$8.50	—	—	\$7.94	4.82	19.88	\$11.30										
1985	—	2.81	2.81	7.38	\$7.69	\$5.90	11.49	10.19	4.36	\$11.18	\$8.73	—	—	\$7.82	4.24	20.88	\$11.88										
1986	—	2.00	2.00	6.77	\$8.14	4.01	11.11	8.11	2.95	\$10.65	\$6.29	—	—	\$6.40	2.29	20.14	\$10.37										
1987	—	1.93	1.93	6.08	\$8.23	4.01	10.80	8.39	3.27	\$9.04	\$6.79	—	—	6.38	3.04	18.84	\$10.24										
1988	—	1.94	1.94	6.00	\$8.02	3.75	11.00	8.60	2.41	\$9.82	\$6.97	—	—	6.50	2.40	18.00	\$10.43										
1989	—	1.97	1.97	6.38	\$8.36	—	10.23	9.50	2.79	\$8.91	\$7.28	—	—	6.78	2.89	17.22	\$10.53										
1990	—	1.98	1.98	6.48	\$8.11	5.47	18.86	10.66	3.22	\$10.21	\$6.76	—	4.53	\$7.64	3.12	17.38	\$11.21										
1991	—	1.98	1.98	6.08	\$7.06	—	11.75	10.14	2.51	\$12.29	\$8.47	—	—	\$7.18	2.48	18.34	\$11.21										
1992	—	1.95	1.95	6.46	\$6.72	—	10.19	9.73	2.79	\$13.66	\$8.39	—	3.53	\$7.29	2.81	18.97	\$11.31										
1993	—	1.96	1.96	7.01	\$6.37	4.18	10.25	9.62	2.42	\$12.68	\$7.98	—	3.53	\$7.37	2.31	19.83	\$11.75										
1994	—	1.96	1.96	7.19	6.20	—	12.52	9.57	2.41	13.11	7.78	—	3.53	7.38	2.50	20.51	12.23										
Expenditures in Million Nominal Dollars																											
1970	—	8.4	8.4	33.8	31.4	(s)	(s)	65.4	25.1	\$2.2	154.1	—	—	166.3	-18.4	86.3	277.2										
1971	—	7.8	7.8	36.1	27.2	(s)	(s)	87.3	49.3	\$2.5	185.5	—	—	210.4	-19.2	111.8	302.7										
1972	—	4.5	4.5	40.6	24.8	(s)	(s)	89.1	46.8	\$2.4	192.9	—	—	208.1	-23.4	121.0	306.7										
1973	—	5.9	5.9	40.5	31.6	(s)	(s)	97.9	55.4	\$2.2	198.2	—	—	235.7	-31.5	138.6	342.7										
1974	—	18.0	18.0	42.4	51.4	(s)	(s)	134.4	94.7	\$3.5	284.0	—	—	344.5	-60.8	182.0	465.8										
1975	—	13.4	13.4	65.7	48.1	—	0.1	146.4	51.6	\$4.7	298.8	—	—	319.9	-31.7	212.3	500.5										
1976	—	8.6	8.6	67.4	66.2	—	0.1	146.0	52.2	\$4.9	259.9	—	—	334.0	-32.4	220.1	521.7										
1977	—	4.6	4.6	75.7	86.5	—	0.1	147.6	75.6	\$8.3	300.1	—	—	360.4	-62.9	247.0	574.5										
1978	—	2.6	2.6	83.1	85.5	(s)	0.1	146.8	89.6	\$8.2	291.2	—	—	376.9	-61.9	296.9	614.0										
1979	—	3.8	3.8	101.2	80.4	0.1	(s)	167.9	49.9	\$11.4	309.3	—	—	414.3	-48.2	295.9	681.9										
1980	—	5.8	5.8	121.8	98.8	15.1	5.1	203.3	45.2	\$18.6	374.8	—	—	582.4	-65.1	368.5	813.8										
1981	—	5.3	5.3	153.1	68.1	24.4	0.1	233.3	33.1	\$9.9	368.8	—	—	527.3	-27.7	400.1	899.7										
1982	—	6.6	6.6	186.3	94.8	13.7	0.1	222.4	44.5	\$8.4	382.0	—	—	575.1	-7.4	472.4	1,040.2										
1983	—	6.2	6.2	224.0	\$106.2	3.9	0.1	218.5	35.6	\$7.0	\$370.4	—	—	\$600.7	-15.3	510.1	\$1,094.4										
1984	—	6.2	6.2	222.0	\$109.6	1.4	0.2	227.8	49.0	\$7.2	\$381.8	—	—	\$619.1	-22.0	638.3	\$1,136.9										
1985	—	7.0	7.0	219.5	\$102.4	8.2	0.3	203.4	28.3	\$10.1	\$336.7	—	—	\$655.2	-8.3	686.3	\$1,132.2										
1986	—	2.7	2.7	200.6	\$86.7	11.4	0.1	185.2	27.5	\$8.5	\$298.5	—	—	\$499.8	-8.7	690.1	\$1,083.1										
1987	—	3.4	3.4	186.7	\$70.2	(s)	0.2	185.9	27.9	\$6.9	\$290.1	—	—	\$462.3	-11.7	678.9	\$1,049.5										
1988	—	1.5	1.5	197.1	\$65.5	0.1	0.2	201.6	17.7	\$6.5	\$291.8	—	—	\$490.5	-15.4	676.0	\$1,050.1										
1989	—	2.9	2.9	213.1	\$68.6	—	0.2	209.4	25.4	\$7.9	\$311.4	—	—	\$527.4	-26.8	667.0	\$1,067.9										
1990	—	3.4	3.4	189.8	\$72.8	0.3	0.2	225.1	30.7	\$6.5	\$286.3	—	2.1	\$451.3	-17.0	894.0	\$1,082.4										
1991	—	3.2	3.2	188.5	\$63.7	—	0.2	214.2	10.9	\$6.5	\$295.5	—	2.2	\$460.4	-7.8	838.0	\$1,119.8										
1992	—	2.4	2.4	212.5	\$60.8	—	0.3	205.7	8.3	\$7.3	\$282.4	—	2.3	\$489.7	-4.4	650.0	\$1,145.3										
1993	—	2.5	2.5	231.7	\$60.6	2.4	0.2	211.5	9.9	\$7.6	\$292.2	—	2.4	\$520.7	-6.9	702.0	\$1,223.8										
1994	—	2.3	2.3	222.3	67.9	—	0.3	206.2	11.2	8.0	299.0	—	2.3	519.9	-10.9	731.0	1,240.8										

^a Liquid petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1988 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

(s) = Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 60. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, District of Columbia

Year	Primary Energy						Electricity	Total Energy ^c		
	Coal	Natural Gas	Petroleum			Total ^c				
			Oil/Gasoline Pool	Kerosene	LPG ^a					
Prices in Nominal Dollars per Million Btu										
1970	1.85	1.43	1.42	1.88	2.87	1.42	—	2.84		
1971	1.25	1.49	1.44	1.83	2.64	1.46	—	2.26		
1972	1.47	1.82	1.45	1.88	2.51	1.45	—	2.32		
1973	1.30	1.86	1.69	1.80	3.95	1.89	—	2.54		
1974	2.27	1.89	2.28	2.94	3.43	2.58	—	3.29		
1975	1.75	2.30	2.71	3.37	4.81	2.71	—	3.79		
1976	1.75	2.54	3.80	3.28	4.93	2.91	—	3.97		
1977	—	3.13	3.32	3.66	4.53	3.32	—	4.68		
1978	—	3.35	3.66	4.08	5.48	3.66	—	5.08		
1979	—	3.70	5.35	5.63	6.28	5.35	—	5.87		
1980	8.18	4.86	7.48	8.98	9.81	7.41	—	7.12		
1981	3.78	5.42	9.19	10.80	8.88	9.20	—	8.25		
1982	3.62	6.53	8.98	10.56	8.65	8.98	—	8.94		
1983	3.37	8.02	8.94	8.38	9.38	8.94	—	10.12		
1984	3.57	7.95	9.07	8.22	10.25	9.07	—	9.71		
1985	3.28	7.48	8.74	8.88	13.53	8.74	—	8.77		
1986	3.22	7.42	7.42	7.29	13.01	7.13	—	8.00		
1987	3.10	8.99	7.02	7.13	13.04	7.03	—	8.26		
1988	3.07	8.88	7.80	7.11	14.73	7.02	—	8.18		
1989	3.28	7.37	7.54	7.08	14.73	7.57	—	8.41		
1990	2.88	7.12	8.34	8.37	12.88	8.38	49.83	49.84		
1991	3.09	7.03	8.58	8.71	13.45	8.60	49.86	49.36		
1992	3.40	7.58	8.98	8.21	13.83	8.11	47.34	47.47		
1993	3.23	8.28	7.49	8.12	13.35	8.53	47.50	47.50		
1994	3.23	8.20	7.46	7.79	24.74	7.79	21.81	21.81		
Expenditures in Million Nominal Dollars										
1970	8.4	28.2	13.4	6.2	(a)	13.6	—	54.8		
1971	0.3	21.2	10.6	0.5	(a)	11.1	—	33.1		
1972	0.3	23.5	10.8	0.1	(a)	11.9	—	35.6		
1973	0.3	23.3	13.3	0.2	(a)	13.4	—	37.0		
1974	0.7	22.7	19.0	0.1	(a)	18.2	—	41.5		
1975	4.2	38.7	18.3	0.1	(a)	18.8	—	48.4		
1976	0.4	38.0	20.1	0.1	(a)	20.2	—	58.6		
1977	—	39.5	22.3	0.1	(a)	22.4	—	61.9		
1978	—	45.4	24.2	0.1	(a)	24.3	—	68.8		
1979	—	49.0	26.3	0.1	(a)	26.4	—	76.2		
1980	3.9	82.8	32.3	0.2	(a)	32.4	—	98.2		
1981	3.0	75.3	15.1	0.1	(a)	15.2	—	93.5		
1982	4.1	86.7	25.8	0.2	(a)	26.0	—	117.6		
1983	3.6	105.4	28.0	0.1	(a)	28.0	—	137.9		
1984	3.1	130.9	38.0	0.1	(a)	38.1	—	173.0		
1985	4.8	121.4	26.2	0.3	(a)	26.8	—	161.2		
1986	1.5	120.0	18.5	0.5	(a)	17.0	—	140.8		
1987	1.3	118.8	16.7	0.4	(a)	17.2	—	137.7		
1988	0.8	121.8	12.0	0.3	(a)	12.4	—	134.9		
1989	1.7	128.7	6.4	0.5	6.1	6.9	—	136.3		
1990	2.8	188.3	7.2	0.2	6.0	7.4	42.1	42.1		
1991	1.8	208.1	9.2	0.2	6.1	8.5	2.2	8.5		
1992	1.4	128.2	8.0	0.2	6.1	8.2	2.3	8.2		
1993	1.5	138.4	7.5	0.2	6.1	7.9	2.4	7.9		
1994	1.3	131.5	6.0	0.2	6.1	6.3	2.3	6.3		

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this line series between 1989 and 1990 due to the expanded coverage of non-electric utility use of oil/gas beginning in 1990.

(a) Revised data.

—No consumption.

(a) Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 61. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, District of Columbia

Year	Primary Energy								Electricity	Total Energy ^b		
	Coal	Natural Gas	Petroleum					Total				
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel					
Prices in Nominal Dollars per Million Btu												
1970	0.11	1.89	1.12	1.33	1.03	2.86	0.46	0.61	6.86	1.40		
1971	0.47	1.10	1.14	1.34	0.98	2.83	0.67	0.66	7.43	1.65		
1972	0.23	1.20	1.14	1.34	1.04	3.01	0.64	0.78	7.76	1.80		
1973	0.30	1.24	1.32	1.54	1.01	3.12	0.75	0.92	8.21	2.17		
1974	1.05	1.41	2.25	2.53	2.09	4.40	1.57	2.11	11.84	3.85		
1975	1.28	1.96	2.39	2.79	2.78	4.88	2.82	2.28	12.40	4.63		
1976	1.10	2.13	2.57	2.95	3.07	5.08	1.89	2.39	13.35	4.84		
1977	—	2.58	2.80	3.54	3.41	5.59	2.23	2.73	14.93	5.66		
1978	—	2.92	3.20	3.82	3.98	5.40	2.10	2.84	16.19	6.48		
1979	—	3.12	4.86	4.04	3.78	7.02	3.31	4.89	16.67	7.12		
1980	1.19	4.21	4.85	4.59	5.13	9.87	4.48	6.89	18.41	8.62		
1981	1.39	6.06	6.28	6.09	5.91	11.16	4.32	7.67	20.77	9.85		
1982	1.37	6.17	7.94	8.31	8.00	10.54	4.33	7.48	21.72	10.53		
1983	1.33	7.37	7.19	7.90	8.43	10.45	4.32	6.30	22.19	10.58		
1984	1.31	6.95	6.83	7.59	6.13	10.27	5.45	6.50	21.89	12.10		
1985	1.30	6.82	6.83	7.86	6.41	10.26	5.16	6.32	22.82	12.92		
1986	1.30	5.94	4.76	5.17	10.37	6.11	3.34	4.10	21.79	11.27		
1987	1.30	4.94	4.82	5.02	9.88	6.30	3.50	4.11	20.19	10.79		
1988	1.30	4.85	4.43	5.78	10.58	6.30	3.23	4.19	19.29	11.33		
1989	1.28	5.25	5.11	5.66	9.19	6.80	2.70	5.00	18.37	11.06		
1990	1.29	5.39	5.84	6.32	10.39	10.66	3.91	6.15	18.53	11.74		
1991	1.34	5.14	5.82	6.82	11.80	10.14	3.30	6.18	18.42	11.82		
1992	1.32	5.32	5.04	5.39	9.50	9.73	3.11	4.54	20.16	11.91		
1993	1.27	5.71	4.93	5.06	8.32	9.62	2.92	4.63	20.95	12.31		
1994	1.27	5.08	4.80	5.64	10.45	9.57	2.92	4.76	20.99	14.12		
Expenditures in Million Nominal Dollars												
1970	6.1	12.9	8.5	8.1	(6)	1.0	14.8	24.3	37.4	82.8		
1971	6.2	14.8	6.7	6.2	(6)	1.2	19.7	27.8	42.8	82.8		
1972	6.1	16.7	6.9	6.1	(6)	1.3	14.1	22.4	39.1	94.8		
1973	6.1	18.6	8.3	6.1	(6)	1.3	15.0	24.6	41.9	104.8		
1974	6.6	19.1	13.3	6.1	(6)	1.8	23.9	38.2	67.8	136.6		
1975	6.3	24.4	13.8	6.1	(6)	2.8	19.4	28.4	59.1	152.4		
1976	6.4	30.7	14.4	(6)	(6)	2.1	6.3	24.7	55.9	162.0		
1977	—	35.4	18.2	(6)	(6)	2.1	10.7	28.1	64.4	178.1		
1978	—	36.6	17.0	(6)	(6)	2.1	8.0	27.1	63.9	186.6		
1979	—	50.1	18.5	(6)	(6)	2.5	1.7	22.7	72.8	205.3		
1980	2.1	58.8	24.7	(6)	(6)	2.1	1.0	27.9	98.8	242.5		
1981	2.1	76.8	13.5	(6)	(6)	2.6	2.4	18.6	97.5	289.3		
1982	2.7	98.7	20.8	(6)	(6)	3.1	3.0	25.9	129.3	323.1		
1983	2.6	118.6	41.6	0.2	(6)	2.3	13.3	67.5	178.3	368.9		
1984	2.1	82.2	40.5	0.1	(6)	3.8	23.1	72.3	156.4	467.2		
1985	3.8	84.1	38.5	2.6	(6)	1.6	6.3	61.8	134.9	481.9		
1986	1.2	70.6	27.4	(6)	(6)	2.1	21.0	50.5	122.2	459.0		
1987	1.5	70.1	18.2	(6)	(6)	0.9	18.1	37.3	108.3	437.9		
1988	0.7	75.5	14.1	6.1	(6)	1.0	4.5	19.8	96.0	424.1		
1989	1.2	83.4	16.1	1.5	(6)	1.1	3.0	21.7	106.4	428.7		
1990	1.4	75.9	18.4	4.3	(6)	4.8	5.4	29.1	106.3	439.3		
1991	1.4	80.4	19.2	8.2	(6)	1.8	4.7	26.0	107.8	468.2		
1992	1.1	86.3	16.2	6.1	(6)	1.5	5.5	23.1	110.5	484.5		
1993	1.1	83.3	23.0	6.1	(6)	1.8	3.8	28.6	122.9	523.7		
1994	1.0	90.8	25.4	6.2	(6)	3.3	3.1	32.1	123.8	717.2		

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R=Revised data.

—No consumption.

(x)—Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 62. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, District of Columbia

Year	Primary Energy															Electricity	Total Energy ^a			
	Coal			Natural Gas	Petroleum															
	Colong Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^d	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total	Bofuels ^c	Total ^c					
Prices in Nominal Dollars per Million Btu																				
1970	—	0.11	0.11	0.67	0.67	1.22	1.33	1.03	5.08	—	0.99	—	0.99	—	0.99	3.80	1.19			
1971	—	0.47	0.47	0.71	0.72	1.24	1.34	0.96	—	—	0.85	—	0.85	—	0.78	4.16	1.59			
1972	—	0.23	0.23	0.74	0.77	1.23	1.34	1.04	—	—	0.84	—	0.86	—	0.88	4.41	1.74			
1973	—	0.33	0.33	0.77	0.82	1.41	1.54	1.01	5.33	—	1.03	—	1.08	—	0.92	4.77	2.08			
1974	—	1.05	1.05	1.17	1.40	2.92	2.53	2.09	7.22	—	2.29	—	2.29	—	1.88	7.44	4.08			
1975	—	1.38	1.38	1.38	1.80	2.50	2.78	2.75	7.49	—	1.92	—	2.86	—	1.83	8.42	4.29			
1976	—	1.10	1.10	1.80	1.82	2.82	2.85	3.07	7.05	—	2.34	—	2.54	—	1.76	7.91	4.73			
1977	—	1.16	1.16	2.18	1.98	3.24	3.54	3.41	6.87	—	2.47	—	2.89	—	2.19	8.57	5.42			
1978	—	1.31	1.31	2.59	2.19	3.02	3.32	3.99	7.80	—	3.20	—	3.22	—	2.68	10.07	7.02			
1979	—	1.32	1.32	2.18	2.68	3.71	4.04	3.78	10.21	—	2.96	—	3.83	—	2.71	9.95	7.04			
1980	—	1.30	1.30	2.48	3.88	7.33	8.64	5.19	14.36	—	3.97	—	7.80	—	6.18	11.65	10.39			
1981	—	1.39	1.39	2.97	4.83	9.23	9.89	5.91	16.00	—	5.00	—	9.36	—	5.99	12.97	11.35			
1982	—	—	—	—	4.14	7.54	8.31	6.00	17.25	—	5.03	—	7.07	—	7.07	17.25	18.06			
1983	—	—	—	—	4.06	7.10	7.10	6.43	16.99	—	4.65	—	6.71	—	6.71	17.20	17.33			
1984	—	—	—	—	4.54	7.79	7.59	8.13	17.53	—	5.48	—	7.13	—	7.13	17.02	16.59			
1985	—	—	—	—	4.85	7.51	8.41	10.88	17.81	18.18	5.15	—	8.84	—	8.54	17.88	17.18			
1986	—	—	—	—	4.18	4.62	5.17	10.37	15.59	8.11	—	—	8.09	—	8.09	17.34	16.15			
1987	—	—	—	—	3.22	5.29	5.92	9.88	12.70	8.36	—	—	8.62	—	8.62	16.97	15.65			
1988	—	—	—	—	3.16	5.18	5.78	10.26	14.51	8.60	—	—	8.70	—	8.70	16.55	15.03			
1989	—	—	—	—	2.68	5.05	—	9.19	14.46	9.50	3.70	—	8.64	—	8.64	16.00	14.57			
1990	—	—	—	—	2.94	5.44	—	10.33	14.66	10.46	3.91	—	8.99	—	8.99	15.17	14.73			
1991	—	—	—	—	3.10	7.88	8.92	11.09	16.79	10.14	3.38	—	8.51	—	8.51	15.94	15.58			
1992	—	—	—	—	2.35	5.35	—	9.60	19.43	9.73	3.11	—	7.95	—	7.95	16.69	16.20			
1993	—	—	—	—	2.67	4.54	—	9.32	18.94	9.62	—	—	7.05	—	7.05	17.33	16.83			
1994	—	—	—	—	2.65	5.05	—	8.29	18.15	9.57	2.92	—	7.89	—	7.89	13.17	10.83			
Expenditure in Million Nominal Dollars																				
1970	—	1.1	1.1	8.3	0.1	2.7	0.1	(8)	0.1	—	12.2	—	18.2	—	18.6	94.1	59.6			
1971	—	3.4	3.4	0.3	0.1	2.5	0.2	(9)	—	—	16.8	—	19.4	—	23.2	39.8	62.0			
1972	—	1.7	1.7	0.5	0.1	1.8	0.1	(8)	—	—	12.1	—	13.9	—	15.1	41.8	57.6			
1973	—	2.3	2.3	0.5	0.1	1.8	0.1	(4)	(8)	—	13.3	—	15.0	—	17.7	47.4	65.1			
1974	—	4.2	4.2	0.7	0.2	2.2	0.8	(9)	(8)	—	17.5	—	20.7	—	25.6	86.4	82.0			
1975	—	8.7	8.7	0.6	0.2	2.3	1.8	(6)	0.8	—	7.8	—	12.4	—	21.7	72.7	84.4			
1976	—	5.8	5.8	0.7	0.2	2.1	1.7	(6)	0.7	—	6.8	—	11.5	—	18.0	75.3	83.3			
1977	—	4.8	4.8	0.8	0.3	3.0	6.3	(6)	0.3	—	7.9	—	16.7	—	22.2	88.3	111.5			
1978	—	2.5	2.6	0.8	0.3	2.6	4.9	(5)	0.4	—	8.0	—	16.1	—	19.8	108.0	125.7			
1979	—	3.8	3.8	1.2	0.4	6.2	8.7	(8)	0.5	—	1.0	—	14.8	—	19.8	108.6	128.4			
1980	—	0.7	0.7	0.8	0.4	8.5	12.8	0.1	8.6	—	1.3	—	23.8	—	25.2	133.4	158.8			
1981	—	0.1	0.1	1.0	0.6	14.4	2.7	0.1	0.8	—	0.6	—	19.1	—	20.3	160.3	170.6			
1982	—	—	—	—	0.6	8.2	(8)	0.1	0.7	—	1.3	—	10.6	—	10.8	200.0	210.9			
1983	—	—	—	—	0.7	1.0	0.3	0.1	0.7	—	0.1	—	2.9	—	2.9	215.4	218.3			
1984	—	—	—	—	0.6	1.0	0.1	0.1	0.7	—	0.1	—	2.7	—	2.7	142.7	145.4			
1985	—	—	—	—	0.8	1.8	6.1	0.1	0.7	3.1	(8)	—	8.8	—	8.6	184.4	181.0			
1986	—	—	—	—	0.9	2.1	(8)	0.1	0.6	2.7	—	—	8.4	—	8.4	154.2	160.6			
1987	—	—	—	—	0.7	0.4	0.1	0.1	0.8	3.5	—	—	5.3	—	5.3	151.2	166.5			
1988	—	—	—	—	0.7	0.1	0.1	0.1	0.6	2.9	—	—	4.4	—	4.4	149.0	153.4			
1989	—	—	—	—	0.6	0.1	—	0.1	0.9	3.7	(8)	—	5.1	—	6.1	160.0	155.1			
1990	—	—	—	—	0.6	0.1	—	0.1	0.7	3.1	(8)	—	4.4	—	4.4	166.0	160.4			
1991	—	—	—	—	0.3	0.4	—	0.2	0.9	3.0	(8)	—	4.7	—	4.7	170.0	174.7			
1992	—	—	—	—	0.3	0.4	—	0.1	0.8	1.8	—	—	3.7	—	3.7	176.0	179.7			
1993	—	—	—	—	0.5	0.4	—	0.1	0.8	3.5	(8)	—	5.3	—	5.3	12.0	17.3			

^a Liquid petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.

R-Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of

Appendix A.

(8)=Value less than 0.05 million nominal dollars

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 63. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, District of Columbia

Year	Primary Energy										Electricity	Total Energy		
	Coal	Natural Gas	Petroleum							Total				
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel					
Prices in Nominal Dollars per Million Btu														
1970	8.11	—	—	1.32	8.73	1.03	5.98	2.86	0.46	2.74	—	2.74		
1971	0.47	—	—	1.39	0.78	0.98	8.27	2.93	0.66	2.79	—	2.79		
1972	0.23	—	—	1.40	0.78	1.04	8.68	3.01	0.64	2.82	—	2.82		
1973	0.33	—	—	1.78	0.90	1.01	5.93	3.12	0.74	2.79	—	2.79		
1974	1.05	—	—	2.78	1.56	2.09	7.22	4.49	1.92	3.98	—	3.98		
1975	1.28	—	—	2.81	—	2.75	7.48	4.88	2.81	4.43	—	4.43		
1976	1.10	—	—	3.01	—	3.07	7.05	5.06	1.59	4.51	7.53	4.51		
1977	1.16	—	—	3.63	—	3.41	6.87	5.39	2.10	4.79	7.38	4.79		
1978	—	—	—	3.71	2.83	3.99	7.60	5.48	2.05	4.96	10.44	4.96		
1979	—	—	—	3.41	3.95	3.78	10.21	7.02	2.92	8.74	11.05	8.74		
1980	—	—	—	7.70	5.46	5.13	14.38	8.97	4.28	9.48	12.82	9.48		
1981	—	—	—	8.52	7.61	5.91	18.00	11.18	4.64	10.32	14.79	10.32		
1982	—	—	—	7.93	7.18	6.00	17.25	10.54	4.13	8.59	16.57	8.70		
1983	—	—	—	8.28	8.44	8.43	16.98	10.48	4.84	9.86	19.09	9.78		
1984	—	—	—	8.62	8.16	8.13	17.63	10.27	4.40	9.86	19.46	9.97		
1985	—	—	—	8.78	8.90	18.98	17.81	18.19	3.78	9.88	20.73	9.85		
1986	—	—	—	7.87	4.01	10.37	15.59	8.17	2.05	7.59	20.40	7.77		
1987	—	—	—	7.25	4.01	9.88	12.70	8.36	—	6.22	17.14	8.36		
1988	—	—	—	7.18	3.75	10.26	14.61	8.80	2.12	8.58	18.91	8.68		
1989	—	—	—	7.49	—	9.18	14.48	8.80	2.57	9.10	18.81	9.21		
1990	—	—	—	8.33	8.47	18.38	14.80	18.88	3.84	10.48	18.54	10.55		
1991	—	—	—	8.08	—	11.09	16.79	10.14	—	9.88	18.09	9.88		
1992	—	—	—	7.83	—	9.50	19.43	9.73	2.27	9.00	18.05	9.64		
1993	—	—	8.24	8.00	4.16	9.32	18.94	9.62	—	9.39	18.64	9.54		
1994	—	—	7.86	8.03	—	9.52	18.16	8.57	—	9.44	19.38	9.62		
Expenditures in Million Nominal Dollars														
1970	(a)	—	—	5.8	(a)	(a)	1.8	24.4	(a)	89.8	—	89.9		
1971	(a)	—	—	4.8	(a)	(a)	1.7	88.1	(a)	92.8	—	92.6		
1972	(a)	—	—	4.4	(a)	(a)	2.0	87.8	0.6	94.7	—	94.7		
1973	(a)	—	—	7.3	(a)	(a)	1.7	96.8	2.4	106.0	—	108.0		
1974	(a)	—	—	13.7	(a)	(a)	2.2	132.8	9.6	158.0	—	158.0		
1975	(a)	—	—	13.4	—	(a)	2.1	144.4	4.8	164.8	—	164.0		
1976	(a)	—	—	16.6	—	(a)	2.2	144.5	5.6	171.0	0.1	171.2		
1977	(a)	—	—	23.2	—	(a)	2.3	148.4	6.1	179.0	0.6	179.5		
1978	—	—	—	19.0	(a)	(a)	2.7	144.8	5.4	171.9	1.4	173.3		
1979	—	—	—	27.4	0.1	(a)	3.7	165.0	0.9	197.1	3.4	200.6		
1980	—	—	—	26.3	12.1	(a)	4.7	281.2	1.8	285.8	4.4	290.2		
1981	—	—	—	22.3	24.4	(a)	5.6	230.7	5.3	288.3	8.2	294.5		
1982	—	—	—	37.7	13.7	(a)	4.9	219.4	34.9	310.0	7.4	317.4		
1983	—	—	—	30.0	3.9	(a)	6.1	218.2	9.8	264.8	6.1	270.9		
1984	—	—	—	33.7	1.4	(a)	5.6	216.9	5.1	264.7	6.1	270.6		
1985	—	—	—	45.1	0.2	(a)	6.2	186.8	4.8	254.2	8.4	262.6		
1986	—	—	—	38.5	11.4	(a)	4.5	180.4	7.0	215.9	8.3	224.2		
1987	—	—	—	33.1	(a)	(a)	4.2	181.6	—	218.7	6.6	225.3		
1988	—	—	—	26.9	0.1	(a)	4.8	197.9	0.1	238.6	8.9	245.7		
1989	—	—	—	40.9	—	(a)	4.7	204.6	0.6	250.9	8.7	257.9		
1990	—	—	—	44.1	0.2	(a)	4.9	218.2	6.1	268.4	6.8	272.4		
1991	—	—	—	34.7	—	(a)	6.0	209.2	—	248.9	7.6	256.6		
1992	—	—	—	34.8	—	(a)	5.9	201.2	0.1	242.0	8.0	250.0		
1993	—	—	0.1	28.7	2.4	(a)	5.8	208.0	—	245.1	8.2	253.3		
1994	—	—	0.1	33.3	—	(a)	6.2	199.4	—	239.0	8.7	247.7		

^a Liquefied petroleum gases

R-Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)=Value less than 0.05 million nominal dollars

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 64. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, District of Columbia

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Hydro	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.30	—	0.47	0.46	—	0.47	—	—	0.43
1971	0.52	—	0.68	0.69	—	0.69	—	—	0.64
1972	0.54	—	0.68	0.69	—	0.69	—	—	0.66
1973	0.53	—	0.77	1.02	—	0.78	—	—	0.75
1974	1.88	—	2.00	1.89	—	1.99	—	—	1.92
1975	1.59	—	2.01	2.11	—	2.01	—	—	1.92
1976	1.14	—	1.91	2.25	—	1.92	—	—	1.92
1977	—	—	2.23	2.60	—	2.23	—	—	2.23
1978	—	—	2.11	2.70	—	2.14	—	—	2.14
1979	—	—	3.29	3.67	—	3.30	—	—	3.39
1980	—	—	4.49	5.95	—	4.69	—	—	4.89
1981	—	—	4.56	7.31	—	5.13	—	—	5.13
1982	—	—	4.36	7.85	—	4.72	—	—	4.72
1983	—	—	4.31	5.85	—	4.59	—	—	4.59
1984	—	—	4.64	5.71	—	4.82	—	—	4.82
1985	—	—	3.84	5.49	—	4.34	—	—	4.34
1986	—	—	2.16	2.96	—	2.28	—	—	2.29
1987	—	—	2.93	3.83	—	3.44	—	—	3.44
1988	—	—	2.22	3.47	—	2.49	—	—	2.49
1989	—	—	2.71	4.08	—	2.89	—	—	2.89
1990	—	—	3.83	4.39	—	3.12	—	—	3.12
1991	—	—	2.22	4.39	—	2.46	—	—	2.46
1992	—	—	2.39	4.45	—	2.61	—	—	2.61
1993	—	—	2.19	3.99	—	2.31	—	—	2.31
1994	—	—	2.25	4.01	—	2.50	—	—	2.50
Expenditures in Million Nominal Dollars									
1970	6.8	—	8.1	3.1	—	11.2	—	—	18.9
1971	3.9	—	12.9	2.5	—	15.4	—	—	19.2
1972	2.5	—	19.6	1.1	—	20.9	—	—	23.4
1973	4.3	—	25.8	1.5	—	27.2	—	—	31.5
1974	12.8	—	44.7	3.3	—	46.0	—	—	60.6
1975	4.2	—	38.4	1.1	—	37.5	—	—	39.7
1976	(c)	—	31.6	6.9	—	32.4	—	—	32.4
1977	—	—	51.9	1.8	—	52.9	—	—	52.9
1978	—	—	48.2	3.7	—	51.9	—	—	51.9
1979	—	—	46.2	2.0	—	48.2	—	—	48.2
1980	—	—	41.3	3.8	—	45.1	—	—	45.1
1981	—	—	24.9	2.9	—	27.7	—	—	27.7
1982	—	—	5.9	1.5	—	7.4	—	—	7.4
1983	—	—	12.6	3.7	—	16.3	—	—	16.3
1984	—	—	17.7	4.9	—	22.6	—	—	22.6
1985	—	—	4.2	2.1	—	6.3	—	—	6.3
1986	—	—	5.5	1.2	—	6.7	—	—	6.7
1987	—	—	9.8	1.9	—	11.7	—	—	11.7
1988	—	—	13.1	3.3	—	15.4	—	—	15.4
1989	—	—	21.7	5.1	—	26.8	—	—	26.8
1990	—	—	16.2	1.6	—	17.8	—	—	17.8
1991	—	—	6.2	1.4	—	7.6	—	—	7.6
1992	—	—	2.9	1.5	—	4.4	—	—	4.4
1993	—	—	6.1	0.8	—	6.9	—	—	6.9
1994	—	—	8.1	2.3	—	10.3	—	—	10.3

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

— No consumption.

(c) Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 65. Energy Price and Expenditure Estimates by Source, 1970-1994, Florida

Year	Primary Energy													Electric Utility Fuel	Electricity Purchased by End Users	Total Energy ^a	
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Miscellaneous				Total ^c
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^b	Motor Gasoline	Residual Fuel	Other ^d	Total						
Prices in Standard Dollars per Million Btu																	
1970	—	0.31	0.31	0.40	1.00	0.23	2.61	2.31	0.23	\$1.00	1.03	—	—	1.20	0.30	5.67	2.36
1971	—	0.34	0.34	0.43	1.11	0.26	2.64	2.27	0.43	\$1.00	1.51	—	—	1.22	0.40	5.94	2.42
1972	—	0.43	0.43	0.57	1.00	0.26	2.70	2.08	0.50	\$1.04	1.54	0.20	—	1.28	0.47	6.14	2.50
1973	—	0.51	0.51	0.66	1.35	0.30	3.64	3.05	0.60	\$1.71	1.74	0.16	—	1.63	0.57	6.50	2.85
1974	—	0.74	0.74	0.91	2.20	1.55	4.06	4.40	1.75	\$2.00	2.70	0.16	—	2.19	1.10	6.31	4.01
1975	—	1.04	1.04	1.40	2.50	2.00	5.14	4.30	1.04	\$3.36	3.62	0.17	—	2.44	1.35	10.40	4.62
1976	—	1.10	1.10	1.11	2.75	2.17	5.04	4.67	1.00	\$3.27	3.67	0.19	—	2.51	1.30	11.00	4.74
1977	—	1.27	1.27	1.24	3.43	2.55	5.70	4.70	2.00	\$3.57	3.27	0.19	—	2.03	1.41	11.50	4.90
1978	—	1.47	1.47	1.32	3.35	2.93	5.80	5.10	1.95	\$3.84	3.55	0.19	—	2.01	1.44	12.21	5.41
1979	—	1.62	1.62	1.60	4.90	3.95	6.35	7.05	2.01	\$4.70	4.82	0.20	—	3.70	1.90	13.55	6.05
1980	—	1.80	1.80	2.10	6.94	4.46	7.40	8.00	3.61	\$5.94	6.06	0.20	—	3.32	2.40	16.24	8.34
1981	—	2.01	2.01	2.54	6.92	7.81	8.84	10.94	4.00	\$6.45	7.94	0.37	—	4.00	3.03	20.40	10.74
1982	—	2.16	2.16	3.02	6.04	7.10	9.43	10.61	4.24	\$7.40	7.90	0.51	1.20	5.93	2.67	20.40	10.86
1983	—	2.17	2.17	3.27	\$7.27	\$6.44	10.04	9.13	4.25	\$7.11	\$7.20	0.40	1.12	\$5.47	2.80	20.30	\$10.36
1984	—	2.16	2.16	3.70	\$7.10	\$6.24	9.80	8.92	4.64	\$7.10	\$7.40	0.40	1.20	\$5.30	2.40	21.85	\$10.47
1985	—	2.10	2.12	3.70	\$6.50	\$5.90	10.01	8.40	3.90	\$7.30	\$7.40	0.40	—	\$5.10	2.21	22.99	\$10.86
1986	—	1.90	1.93	2.75	\$5.80	4.10	10.27	8.70	2.10	\$5.70	\$5.20	0.70	—	\$3.94	1.76	21.37	\$9.28
1987	—	1.62	1.62	3.21	\$5.95	4.67	10.80	7.11	2.00	\$5.21	\$5.00	0.80	—	\$4.10	1.95	20.65	\$9.30
1988	—	1.70	1.70	2.80	\$5.70	3.82	11.20	7.32	2.17	\$5.33	\$5.47	0.94	—	\$3.91	1.72	20.70	\$9.21
1989	—	1.79	1.79	3.02	\$6.13	4.43	10.15	7.00	2.64	\$5.30	\$5.00	0.86	—	4.23	1.90	20.45	\$9.70
1990	—	1.80	1.80	3.21	\$7.07	5.80	11.70	8.85	2.62	\$5.80	\$5.82	0.84	\$1.22	\$4.70	1.80	20.80	\$10.26
1991	—	1.80	1.80	2.84	\$7.00	4.90	12.70	8.40	2.50	\$5.54	\$5.30	0.86	1.40	\$4.40	1.81	20.00	\$10.40
1992	—	1.83	1.83	3.00	\$7.23	4.50	14.15	8.20	2.20	\$5.80	\$5.30	0.62	1.43	\$4.30	1.70	20.40	\$10.12
1993	—	1.70	1.70	\$3.41	\$5.90	4.23	14.50	\$9.40	2.10	\$5.30	\$5.17	0.83	1.42	\$4.20	1.73	21.00	\$10.30
1994	—	1.70	1.70	3.11	7.40	3.90	10.50	8.20	2.25	5.00	6.10	0.62	1.37	4.20	1.71	20.40	10.01
Expenditures in Million Standard Dollars																	
1970	—	30.0	30.0	170.1	96.0	90.6	77.1	1,225.2	112.0	\$120.4	1,032.1	—	—	1,030.1	-196.0	971.7	2,613.0
1971	—	30.6	30.6	181.0	100.4	112.1	72.1	1,182.0	170.1	\$127.6	1,771.0	—	—	1,902.4	-256.0	1,601.0	2,836.1
1972	—	52.5	52.5	173.0	122.0	102.0	70.0	1,261.1	240.0	\$120.0	2,001.0	0.3	—	2,277.3	-340.0	1,936.6	3,223.0
1973	—	77.0	77.0	207.0	170.0	141.0	114.1	1,504.0	330.7	\$130.7	2,000.0	0.2	—	2,706.7	-400.1	1,903.2	3,500.0
1974	—	100.2	100.2	240.4	200.0	200.3	125.6	2,115.2	604.0	\$102.1	3,702.5	13.7	—	4,104.7	-604.0	3,074.5	5,204.4
1975	—	130.0	130.0	283.8	303.0	270.0	142.0	2,510.0	910.0	\$120.0	4,100.0	10.0	—	4,000.0	-1,114.2	2,885.2	6,021.0
1976	—	155.5	155.5	325.1	391.0	305.2	151.5	2,403.3	1,012.0	\$100.7	4,544.0	17.7	—	5,043.0	-1,200.0	3,797.0	6,630.5
1977	—	203.6	203.6	383.0	500.0	300.0	180.2	2,602.4	1,091.3	\$110.1	5,075.8	35.0	—	5,099.2	-1,300.0	3,195.0	7,531.0
1978	—	250.3	250.3	430.0	593.2	445.1	175.1	3,061.0	1,086.2	\$110.4	5,032.5	32.2	—	5,032.5	-1,420.0	3,620.4	8,460.4
1979	—	327.3	327.3	621.5	646.2	602.0	202.0	4,110.5	1,000.0	\$100.0	7,003.7	40.0	—	5,075.5	-1,000.0	3,000.1	10,002.7
1980	—	400.4	400.4	690.0	1,100.7	1,300.3	294.6	5,027.4	2,100.0	\$100.0	7,100.0	40.0	—	12,010.0	-3,000.0	9,000.0	14,000.0
1981	—	474.4	474.4	670.1	1,400.0	1,622.2	312.5	6,400.1	2,000.4	\$100.0	13,000.0	50.7	—	14,009.7	-3,100.0	4,500.0	17,000.0
1982	—	515.0	515.0	977.0	1,070.5	1,200.0	303.0	6,000.2	1,200.0	\$100.0	11,207.2	100.0	0.0	12,000.4	-2,000.1	4,400.7	16,000.1
1983	—	600.0	600.0	1,040.0	\$1,100.0	\$1,000.0	300.0	5,077.4	1,000.0	\$100.0	10,000.0	100.0	0.0	\$12,113.4	-2,500.0	4,000.4	\$18,431.4
1984	—	617.6	617.6	1,153.2	\$1,222.0	\$1,000.0	200.0	5,000.0	1,237.6	\$100.0	6,254.0	157.0	0.0	\$11,000.7	-2,400.0	7,700.7	\$17,000.7
1985	—	600.0	600.0	1,000.0	\$1,225.0	700.0	200.1	5,000.0	911.5	\$100.0	6,000.0	100.1	—	\$12,000.0	-2,400.0	6,000.0	\$18,400.0
1986	—	607.5	607.5	707.7	\$1,030.5	607.5	301.0	4,614.0	707.6	\$100.1	7,931.5	172.0	—	\$10,770.0	-1,000.0	5,000.0	\$15,770.0
1987	—	1,000.0	1,000.0	804.7	\$1,142.0	804.7	302.0	5,120.4	831.7	\$100.0	6,000.0	100.0	—	\$10,000.0	-2,500.0	5,000.0	\$17,000.0
1988	—	1,000.0	1,000.0	805.1	\$1,142.0	805.1	302.0	5,100.7	705.4	\$100.0	6,000.0	100.0	—	\$10,000.0	-2,500.0	5,000.0	\$17,000.0
1989	—	1,100.0	1,100.0	876.6	\$1,261.0	876.6	300.0	6,700.0	800.0	\$100.0	7,000.0	100.0	—	\$11,000.0	-2,500.0	6,000.0	\$18,000.0
1990	—	1,100.0	1,100.0	1,001.4	\$1,100.0	1,001.4	300.0	6,000.0	1,001.4	\$100.0	7,000.0	100.0	—	\$12,000.0	-2,500.0	6,000.0	\$18,000.0
1991	—	1,100.0	1,100.0	1,001.4	\$1,100.0	1,001.4	300.0	6,000.0	1,001.4	\$100.0	7,000.0	100.0	—	\$12,000.0	-2,500.0	6,000.0	\$18,000.0
1992	—	1,100.0	1,100.0	1,001.4	\$1,100.0	1,001.4	300.0	6,000.0	1,001.4	\$100.0	7,000.0	100.0	—	\$12,000.0	-2,500.0	6,000.0	\$18,000.0
1993	—	1,100.0	1,100.0	1,001.4	\$1,100.0	1,001.4	300.0	6,000.0	1,001.4	\$100.0	7,000.0	100.0	—	\$12,000.0	-2,500.0	6,000.0	\$18,000.0
1994	—	1,144.2	1,144.2	1,100.0	\$1,100.0	1,100.0	300.0	6,000.0	1,100.0	\$100.0	7,000.0	100.0	—	\$12,000.0	-2,500.0	6,000.0	\$18,000.0

^a Liquid petroleum gases.^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (produced and used at electric utilities), and the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of non-electric utility use of biofuels beginning in 1980.

R-Reviewed data.

—No information, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

N-Values less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 68. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Florida

Year	Primary Energy							Electricity	Total Energy ^c		
	Coal	Natural Gas	Petroleum				Biomass ^b				
			Distillate Fuel	Kerosene	LPG ^a	Total					
Prices in Nominal Dollars per Million Btu											
1970	—	2.42	1.26	1.63	3.11	2.35	—	2.37	4.60		
1971	—	2.44	1.38	1.60	3.01	2.30	—	2.33	4.62		
1972	—	2.46	1.39	1.60	3.24	2.83	—	2.62	5.22		
1973	—	2.64	1.54	1.64	4.61	3.40	—	3.12	6.76		
1974	—	2.67	2.46	2.96	5.45	4.48	—	3.85	7.64		
1975	—	2.84	2.82	3.27	6.32	5.18	—	4.18	8.64		
1976	—	2.85	2.91	3.55	6.08	4.84	—	4.15	9.35		
1977	—	3.31	3.22	4.04	7.07	5.76	—	4.69	9.99		
1978	—	3.31	3.47	4.32	7.01	5.78	—	4.77	10.47		
1979	—	3.51	4.56	6.86	7.79	6.88	—	5.42	12.00		
1980	3.12	4.49	4.92	6.82	10.44	9.24	—	7.49	14.58		
1981	3.59	4.60	8.69	11.23	11.44	10.81	—	8.35	15.35		
1982	3.72	6.10	8.38	11.20	11.10	11.95	—	9.42	19.61		
1983	3.35	6.25	7.25	9.96	12.88	11.88	—	9.36	20.23		
1984	3.45	6.52	6.97	9.56	12.01	11.22	—	9.18	21.04		
1985	3.81	6.72	6.73	9.34	10.70	10.84	—	8.81	21.57		
1986	3.00	6.70	7.67	10.63	10.35	10.13	—	6.86	20.96		
1987	2.96	6.63	6.75	9.96	12.01	10.68	—	9.33	20.36		
1988	2.95	6.94	7.17	9.94	12.01	11.10	—	9.44	20.50		
1989	3.06	7.42	6.56	9.10	10.81	10.24	—	9.14	20.94		
1990	3.90	7.79	9.39	13.38	12.55	12.36	^a 3.58	^a 8.86	^a 18.14		
1991	2.94	8.18	8.95	12.40	13.05	12.75	3.53	10.24	18.48		
1992	2.92	8.25	11.11	15.40	16.57	15.97	3.53	11.85	19.17		
1993	3.10	^a 9.12	7.05	9.77	18.07	18.83	3.63	12.47	19.87		
1994	3.10	8.88	12.02	16.69	12.12	12.29	3.63	9.98	19.23		
Expenditures in Million Nominal Dollars											
1970	—	37.8	7.4	22.3	95.9	94.6	—	133.8	645.8		
1971	—	33.8	8.2	21.5	62.4	92.0	—	126.8	707.1		
1972	—	34.1	7.6	15.6	96.0	92.2	—	126.4	805.2		
1973	—	44.0	10.1	15.1	101.8	128.6	—	170.8	1,006.4		
1974	—	42.2	14.5	15.2	105.8	135.4	—	177.5	1,246.9		
1975	—	41.7	16.7	18.4	121.9	151.1	—	192.8	1,488.1		
1976	—	47.4	20.3	24.1	125.5	169.9	—	217.3	1,638.9		
1977	—	64.3	23.6	24.0	156.1	203.7	—	268.0	1,875.5		
1978	—	76.5	28.0	24.0	143.0	192.7	—	269.3	2,085.4		
1979	—	64.8	28.4	32.4	126.2	187.0	—	251.8	2,266.1		
1980	0.3	72.7	49.8	39.1	188.4	268.5	—	329.5	2,854.5		
1981	(s)	66.8	49.7	35.8	168.7	262.9	—	369.9	3,702.0		
1982	0.1	69.9	35.9	14.4	162.4	232.1	—	322.1	3,690.5		
1983	0.4	105.4	20.9	17.5	213.2	281.6	—	357.4	4,035.2		
1984	2.1	106.7	20.9	19.5	223.9	257.9	—	368.7	4,453.2		
1985	3.2	100.8	22.8	48.7	231.1	298.1	—	403.2	4,979.0		
1986	2.5	89.9	20.7	33.5	241.8	298.0	—	398.3	4,864.9		
1987	1.5	109.0	28.3	33.4	240.9	302.6	—	413.0	5,096.9		
1988	0.1	111.5	21.8	38.9	213.9	272.3	—	383.9	5,284.8		
1989	(s)	105.5	13.9	19.7	162.8	226.4	—	331.9	5,504.8		
1990	0.1	109.9	13.1	31.8	237.8	281.6	^a 11.8	^a 373.5	^a 5,990.5		
1991	(s)	115.3	12.4	13.7	243.5	289.4	12.4	^a 397.9	^a 6,158.9		
1992	0.4	130.8	20.0	23.9	307.7	351.6	13.1	^a 495.7	^a 8,186.7		
1993	0.4	^a 139.7	13.1	12.1	329.3	354.5	14.1	^a 508.7	^a 8,645.8		
1994	0.6	136.3	17.4	11.8	204.2	233.4	13.9	365.1	6,657.1		

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.^a Revised data.

—No consumption.

(s)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 67. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Florida

Year	Primary Energy								Electricity	Total Energy ^b		
	Coal	Natural Gas	Petroleum					Total				
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel					
Prices in Nominal Dollars per Million Btu												
1970	—	0.89	0.99	0.61	1.27	2.81	8.33	1.23	1.07	3.53		
1971	—	1.02	1.06	0.66	1.27	2.77	0.43	1.31	1.18	3.88		
1972	—	1.12	1.07	0.63	1.31	2.88	0.61	1.22	1.18	4.19		
1973	—	1.21	1.18	0.72	1.42	3.05	0.67	1.30	1.26	4.58		
1974	—	1.54	2.08	2.19	2.43	4.10	1.79	2.32	1.98	6.65		
1975	—	1.59	2.26	2.36	2.51	4.39	1.85	2.52	2.09	7.13		
1976	—	1.62	2.52	2.53	2.76	4.57	1.78	2.59	2.07	7.04		
1977	—	1.68	2.64	2.95	2.85	4.70	2.13	2.64	2.34	7.53		
1978	—	1.90	3.01	3.22	3.34	5.18	1.84	3.01	2.48	8.32		
1979	—	2.60	4.23	4.15	4.97	7.05	2.94	4.24	3.42	9.82		
1980	1.77	3.21	6.39	6.41	5.48	8.88	3.71	6.39	4.88	12.27		
1981	1.87	3.39	7.91	7.59	6.11	10.94	4.75	7.85	6.32	15.10		
1982	2.03	4.32	7.81	7.63	6.63	10.51	4.28	7.85	6.32	15.91		
1983	1.96	4.60	^R 6.56	7.17	7.06	9.13	4.28	^R 6.77	^R 5.67	14.86		
1984	2.00	4.73	^R 6.64	8.80	8.75	8.92	4.83	^R 6.67	^R 5.63	14.13		
1985	2.04	4.80	^R 6.22	^R 8.89	11.34	8.03	4.08	^R 6.46	^R 5.73	13.77		
1986	1.98	4.11	^R 3.96	^R 4.50	10.15	6.70	2.27	^R 4.27	^R 4.17	14.18		
1987	1.87	4.29	^R 4.19	^R 4.65	9.27	7.11	2.96	^R 4.69	^R 4.48	14.10		
1988	1.84	4.20	^R 3.93	^R 4.25	9.94	7.12	2.29	^R 4.53	^R 4.27	14.56		
1989	1.86	4.47	^R 4.44	^R 5.06	9.15	7.68	2.75	^R 4.83	^R 4.65	14.96		
1990	1.89	4.64	^R 5.87	^R 6.04	18.18	8.88	3.08	^R 6.81	^R 6.15	18.57		
1991	1.89	4.48	^R 5.02	^R 5.45	10.59	8.48	2.37	^R 5.01	^R 4.73	15.85		
1992	1.93	4.53	^R 4.81	^R 5.17	10.04	8.29	2.49	^R 4.97	^R 4.72	16.33		
1993	1.94	^R 5.32	^R 4.59	^R 4.99	9.90	^R 8.42	2.30	^R 5.30	^R 5.30	19.68		
1994	1.97	4.99	4.39	5.29	8.97	9.29	2.34	5.16	4.96	15.56		
Expenditures in Million Nominal Dollars												
1970	—	24.9	11.7	0.5	4.8	29.4	3.1	40.4	68.3	345.9		
1971	—	27.1	12.8	0.5	4.7	21.4	3.8	43.1	70.2	399.0		
1972	—	29.0	11.9	0.4	4.8	18.6	5.6	39.3	67.3	463.4		
1973	—	31.4	16.7	0.3	5.8	15.9	8.2	45.4	78.8	566.3		
1974	—	37.0	24.6	0.6	8.3	19.0	18.9	71.5	108.5	798.4		
1975	—	53.9	23.3	0.5	8.5	23.9	18.0	80.3	134.2	994.1		
1976	—	88.2	35.6	1.0	10.0	25.8	23.1	95.7	153.9	962.2		
1977	—	82.9	42.1	1.0	11.1	28.2	34.2	118.6	186.5	1,077.7		
1978	—	71.9	46.2	1.0	12.0	32.4	27.1	117.9	199.7	1,177.1		
1979	—	100.2	63.3	1.9	13.9	49.3	47.5	164.5	294.8	1,610.9		
1980	0.3	183.6	79.7	1.8	15.7	68.0	34.4	198.9	284.8	1,821.8		
1981	(s)	126.4	118.8	2.5	16.6	52.6	34.4	216.6	343.2	2,541.4		
1982	0.1	139.3	29.4	9.9	16.3	41.3	10.3	105.9	248.3	2,486.7		
1983	0.5	147.4	^R 62.8	26.3	20.6	61.6	26.9	^R 218.2	^R 368.1	^R 2,711.4		
1984	2.2	159.6	^R 65.9	6.5	22.2	62.2	41.4	^R 220.4	^R 381.3	^R 3,128.5		
1985	3.8	168.4	^R 132.4	^R 39.1	42.8	84.9	58.7	^R 335.0	^R 592.8	^R 3,905.3		
1986	3.1	156.6	^R 76.9	^R 21.6	41.9	50.2	39.9	^R 230.6	^R 392.1	^R 3,461.9		
1987	1.6	173.8	^R 94.1	^R 12.2	32.8	61.0	36.0	^R 229.1	^R 403.8	^R 3,515.9		
1988	0.1	171.8	^R 79.9	^R 10.1	31.2	48.8	30.3	^R 184.2	^R 368.0	^R 3,725.9		
1989	(s)	170.3	^R 71.9	^R 10.2	28.6	49.1	34.4	^R 194.4	^R 384.7	^R 3,887.7		
1990	8.1	183.0	^R 195.2	^R 4.3	32.4	65.3	48.8	^R 263.8	^R 438.9	^R 4,181.2		
1991	(s)	135.2	^R 87.8	^R 0.9	34.9	41.3	32.0	^R 198.8	^R 380.0	^R 4,251.2		
1992	0.6	207.8	^R 84.1	^R 0.9	33.3	35.6	28.2	^R 182.1	^R 380.3	^R 4,169.7		
1993	0.3	^R 240.3	^R 82.3	^R 1.5	30.9	^R 4.2	2.1	^R 121.0	^R 361.8	^R 4,358.2		
1994	0.6	221.2	55.8	2.3	26.4	4.2	2.0	90.5	312.3	4,293.9		

^a Liquefied petroleum gases^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.^RRevised data

—No consumption

(s)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 68. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Florida

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Biomass ^d	Total ^e		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	—	—	0.37	0.57	0.58	0.61	1.27	5.88	2.81	0.37	1.35	0.68	—	0.59	3.88	0.88
1971	—	—	—	0.42	0.71	0.60	0.68	1.27	5.27	2.77	0.50	1.48	0.70	—	0.63	3.81	1.01
1972	—	—	—	0.47	0.76	0.60	0.68	1.31	5.58	2.88	0.46	1.47	0.79	—	0.68	3.86	1.12
1973	—	—	—	0.55	0.80	0.68	0.72	1.42	5.33	3.06	0.54	1.63	0.80	—	0.74	4.31	1.25
1974	—	—	—	0.70	1.36	2.01	2.18	2.43	7.22	4.10	1.44	2.61	1.84	—	1.37	6.02	2.00
1975	—	0.53	0.83	0.98	1.78	2.38	2.38	2.51	7.48	4.39	1.75	3.11	2.98	—	1.84	7.87	2.71
1976	—	1.19	1.19	1.00	1.80	2.34	2.53	2.76	7.05	4.57	1.72	3.32	2.10	—	1.67	8.48	2.81
1977	—	1.37	1.37	1.07	1.87	2.68	2.95	2.85	6.87	4.70	1.89	3.57	2.40	—	1.87	8.42	2.95
1978	—	1.55	1.55	1.11	2.19	2.82	3.22	3.34	7.80	5.18	1.86	3.72	2.52	—	1.95	9.10	3.25
1979	—	1.82	1.82	2.05	2.57	3.82	4.15	4.87	10.21	7.05	2.55	5.08	3.38	—	2.79	10.11	4.05
1980	—	1.77	1.77	2.81	3.57	5.75	6.81	5.46	14.38	9.80	3.44	7.87	4.71	—	3.88	13.38	5.48
1981	—	1.97	1.97	2.98	4.54	6.86	7.68	6.11	18.00	—	4.59	8.82	8.19	—	4.65	17.08	6.71
1982	—	2.03	2.03	3.76	4.06	6.82	7.63	6.63	17.25	10.51	4.02	8.84	8.08	—	4.54	16.48	7.01
1983	—	1.96	1.96	3.74	4.05	6.83	7.17	7.06	16.98	8.13	3.87	8.40	8.82	—	4.70	16.45	6.99
1984	—	2.00	2.00	3.87	4.51	6.80	6.86	6.76	17.63	8.82	4.03	8.85	8.09	—	4.95	16.45	7.18
1985	—	2.84	2.84	3.71	4.98	6.48	6.88	11.24	17.61	8.83	4.08	8.30	8.24	—	5.08	16.08	7.17
1986	—	1.98	1.98	2.68	4.18	6.43	6.88	10.15	15.58	6.70	2.27	5.32	4.86	—	4.04	16.29	6.32
1987	—	1.87	1.87	3.01	3.29	6.52	6.58	9.27	12.70	7.11	2.98	6.18	4.71	—	3.66	14.98	6.05
1988	—	1.84	1.84	2.63	3.13	6.18	6.25	9.94	14.61	7.12	2.29	5.21	4.24	—	3.44	14.93	5.88
1989	—	1.86	1.86	2.80	2.87	6.97	5.05	9.15	14.48	7.88	2.75	5.86	4.67	—	3.68	14.84	5.85
1990	—	1.80	1.80	3.38	2.91	6.84	6.04	10.15	14.68	8.36	2.88	6.82	5.81	1.04	3.88	14.98	5.88
1991	—	1.80	1.80	2.80	3.08	6.36	5.45	10.59	18.79	8.48	2.97	6.50	4.84	1.19	3.43	15.22	6.84
1992	—	1.83	1.83	2.80	2.26	5.98	5.17	10.04	19.43	8.28	2.49	6.87	4.48	1.14	3.32	14.71	6.25
1993	—	1.84	1.84	3.53	2.85	4.91	4.88	9.60	18.94	8.42	2.30	6.24	4.35	1.13	3.82	15.43	6.51
1994	—	1.87	1.87	3.12	2.82	4.73	4.61	7.56	19.18	8.29	2.34	6.30	4.34	1.09	3.29	15.05	4.88
Expenditures in Million Nominal Dollars																	
1970	—	—	—	88.8	18.0	14.7	3.9	4.4	12.8	8.0	18.1	9.8	85.8	—	121.7	113.7	235.4
1971	—	—	—	43.1	23.2	18.2	3.6	4.1	16.7	1.6	24.8	11.1	101.5	—	144.6	121.3	265.9
1972	—	—	—	42.9	25.8	18.5	3.7	5.0	18.9	1.7	24.3	12.2	107.4	—	150.4	144.3	294.7
1973	—	—	—	55.5	31.1	21.9	2.4	5.8	24.4	1.6	31.9	14.8	138.8	—	189.3	171.3	360.6
1974	—	—	—	68.4	53.2	57.7	2.2	8.9	31.7	2.1	73.4	24.0	254.2	—	322.5	218.7	541.3
1975	—	0.3	0.3	85.1	43.8	60.8	1.8	11.6	25.7	2.1	81.8	28.1	251.2	—	336.8	343.4	680.2
1976	—	0.6	0.6	104.0	41.2	84.7	4.6	14.1	28.9	2.2	109.4	32.9	298.0	—	400.7	412.2	812.9
1977	—	4.4	4.4	113.0	57.5	85.7	2.8	17.0	25.5	2.2	150.7	42.0	383.1	—	501.4	448.8	951.2
1978	—	9.5	9.5	114.8	72.7	95.9	3.1	17.5	29.9	2.2	122.6	48.2	361.7	—	518.0	636.1	1,052.1
1979	—	13.8	13.8	239.8	89.0	112.3	3.8	59.0	42.0	2.6	195.0	73.2	571.7	—	825.4	618.7	1,444.1
1980	—	38.2	38.2	258.6	198.4	238.8	5.5	187.2	52.8	4.5	294.2	114.0	821.3	—	1,211.1	848.6	2,059.7
1981	—	26.7	26.7	336.5	161.0	191.9	4.7	90.3	63.3	—	228.0	189.8	922.6	—	1,296.1	937.3	2,233.3
1982	—	22.0	22.0	342.4	134.6	118.8	25.0	95.8	55.3	16.2	112.2	131.5	689.5	—	1,053.8	622.9	1,676.7
1983	—	30.6	30.6	304.5	133.9	180.4	1.7	78.7	57.0	13.8	108.2	123.2	715.9	—	1,050.9	843.2	1,894.1
1984	—	40.7	40.7	302.0	208.2	181.1	1.3	50.6	63.1	19.6	181.0	129.0	883.8	—	1,178.8	920.9	2,099.7
1985	—	43.4	43.4	372.5	220.4	171.8	23.2	98.3	59.7	48.6	148.8	115.5	883.8	—	1,281.4	878.6	2,160.0
1986	—	37.9	37.9	174.5	227.3	129.4	0.9	84.2	50.8	35.1	44.3	83.7	888.8	—	879.2	811.6	1,690.8
1987	—	48.4	48.4	199.3	180.8	133.1	1.1	73.0	46.8	37.2	33.5	95.9	881.3	—	827.1	789.9	1,617.0
1988	—	49.2	49.2	214.5	164.6	102.1	2.0	75.2	51.8	35.2	57.5	81.4	889.8	—	833.6	833.0	1,666.5
1989	—	53.2	53.2	236.3	123.5	107.1	3.3	71.0	62.8	41.6	48.8	88.3	853.4	—	827.9	863.0	1,690.9
1990	—	57.8	57.8	204.1	131.3	120.8	1.7	61.1	84.8	48.4	63.4	112.6	885.9	26.6	912.5	844.0	1,756.5
1991	—	58.8	58.8	258.4	148.5	96.2	0.4	85.3	58.4	43.0	39.0	91.2	854.0	31.1	884.3	854.0	1,740.3
1992	—	64.4	64.4	273.1	103.7	107.1	0.3	62.6	86.5	42.7	84.6	101.4	854.7	30.6	885.3	828.0	1,746.1
1993	—	63.1	63.1	308.4	188.2	118.0	0.4	67.9	66.0	42.8	76.1	91.2	821.5	32.1	853.6	853.0	1,706.0
1994	—	60.7	60.7	448.3	135.5	104.1	0.2	45.6	89.9	44.9	86.3	92.0	822.5	33.4	1,101.9	848.0	1,949.9

^a Liquefied petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.^e R-Flipped data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 69. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Florida

Year	Primary Energy										Electricity	Total Energy		
	Coal	Natural Gas	Petroleum							Total				
			Airline Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel					
Prices in Nominal Dollars per Million Btu														
1970	—	—	3.17	1.44	0.73	1.27	5.06	2.91	0.29	2.19	—	2.19		
1971	—	—	2.21	1.51	0.78	1.27	5.27	2.77	0.38	2.19	—	2.19		
1972	—	—	2.19	1.56	0.76	1.31	5.55	2.88	0.45	2.27	—	2.27		
1973	—	—	2.36	1.95	0.90	1.42	5.33	3.05	0.80	2.46	—	2.46		
1974	—	—	3.23	2.58	1.58	2.43	7.22	4.10	1.58	3.47	—	3.47		
1975	0.53	—	3.45	2.89	2.88	2.51	7.48	4.39	1.88	3.79	—	3.79		
1976	1.19	—	3.59	3.18	2.17	2.78	7.05	4.57	1.61	3.95	—	3.95		
1977	1.37	—	3.97	3.54	2.55	2.85	6.97	4.70	1.89	4.12	—	4.12		
1978	—	—	4.29	3.78	2.83	3.34	7.60	5.18	1.70	4.52	—	4.52		
1979	—	—	5.73	5.54	3.05	4.87	10.21	7.05	2.60	5.98	—	5.98		
1980	—	—	6.62	7.72	6.46	6.48	14.38	8.80	3.14	6.39	—	6.39		
1981	—	—	10.84	9.18	7.81	8.11	16.00	10.94	4.11	9.75	—	9.75		
1982	—	—	10.92	8.27	7.18	8.63	17.35	10.51	3.87	9.38	—	9.38		
1983	—	—	10.44	7.50	6.44	7.08	16.88	9.13	4.02	8.34	—	8.34		
1984	—	—	10.27	7.40	6.24	6.75	17.63	8.02	4.46	8.25	21.19	8.25		
1985	—	—	9.99	7.24	5.99	11.24	17.81	8.03	3.79	8.19	22.84	8.19		
1986	—	—	8.41	6.24	4.19	10.15	15.59	6.70	2.00	6.12	18.81	6.12		
1987	—	—	7.55	6.88	4.07	9.27	12.70	7.11	2.82	6.42	19.74	6.42		
1988	—	—	7.41	6.25	3.82	9.84	14.61	7.12	1.94	6.28	19.83	6.28		
1989	—	—	6.26	6.04	4.43	8.16	14.48	7.08	2.20	6.79	19.67	6.79		
1990	—	2.58	6.32	6.21	6.84	16.15	14.90	8.89	2.95	7.88	20.85	7.88		
1991	—	4.31	6.71	7.75	4.99	10.59	16.79	8.40	1.95	7.64	20.07	7.64		
1992	—	4.04	6.54	7.91	4.58	10.04	19.43	8.29	2.12	7.46	19.94	7.46		
1993	—	4.06	6.24	6.20	4.23	9.69	16.94	8.42	1.98	7.44	20.27	7.44		
1994	—	3.65	7.96	6.28	3.99	7.87	18.16	6.29	2.18	7.40	19.68	7.40		
Expenditures in Million Nominal Dollars														
1970	—	—	34.4	63.6	96.4	8.9	20.8	1,901.6	4.2	1,321.5	—	1,321.5		
1971	—	—	29.0	85.6	112.1	1.0	21.5	1,459.6	4.0	1,383.2	—	1,383.2		
1972	—	—	29.2	74.4	121.9	1.0	24.7	1,342.6	5.0	1,693.0	—	1,593.0		
1973	—	—	24.2	119.2	141.0	1.1	23.6	1,574.7	10.0	1,690.8	—	1,690.8		
1974	—	—	34.6	161.3	205.8	1.7	30.6	2,084.1	23.2	2,551.4	—	2,551.4		
1975	(b)	—	33.4	171.1	278.3	1.8	38.2	2,283.5	29.3	2,838.4	—	2,838.4		
1976	(c)	—	30.5	197.6	305.2	1.8	29.6	2,465.3	30.7	3,080.6	—	3,080.6		
1977	(d)	—	29.5	298.6	390.9	2.0	34.0	2,632.0	42.9	3,427.5	—	3,427.5		
1978	—	—	32.7	348.4	445.1	2.6	39.8	3,047.2	40.2	3,956.1	—	3,956.1		
1979	—	—	36.6	511.5	600.0	2.7	58.0	4,067.6	186.1	5,551.8	—	5,551.8		
1980	—	—	81.9	779.9	1,282.3	3.3	70.1	5,983.9	228.2	7,899.8	—	7,899.8		
1981	—	—	62.3	1,030.6	1,222.2	7.0	84.3	6,375.5	176.2	8,258.1	—	8,258.1		
1982	—	—	46.5	854.7	1,358.3	8.6	73.6	6,241.7	138.8	8,724.2	—	8,724.2		
1983	—	—	46.5	883.9	1,086.0	10.8	75.9	5,802.2	102.5	7,790.8	—	7,790.8		
1984	—	—	38.5	902.3	845.9	13.1	84.1	5,812.1	114.4	7,808.4	0.5	7,808.9		
1985	—	—	42.4	867.8	788.8	18.8	78.2	5,834.1	182.8	7,783.7	1.3	7,785.0		
1986	—	—	43.4	782.2	667.3	16.2	67.7	4,527.7	96.1	6,129.7	2.6	6,132.1		
1987	—	—	29.8	892.6	404.7	6.4	62.4	5,044.1	163.6	6,773.8	2.7	6,776.3		
1988	—	—	33.0	883.3	683.3	7.9	69.2	5,226.7	100.1	7,045.7	2.2	7,047.9		
1989	—	—	40.8	1,008.4	835.0	7.2	70.3	5,840.5	118.5	7,721.0	2.6	7,723.5		
1990	—	(e)	38.0	1,221.9	1,813.5	7.8	73.0	6,466.7	162.4	8,983.4	2.7	8,986.1		
1991	—	(e)	31.3	1,050.3	893.5	4.8	75.1	6,212.9	130.2	8,172.2	2.8	8,175.0		
1992	—	(e)	26.6	1,212.7	626.4	6.1	88.6	6,199.0	139.4	8,268.8	2.7	8,259.5		
1993	—	0.1	21.9	698.2	635.8	5.8	87.9	6,995.7	145.3	8,190.4	2.8	8,193.2		
1994	—	0.3	21.1	1,283.7	636.6	8.0	99.1	6,588.2	139.9	8,750.6	2.6	8,753.6		

^a Liquefied petroleum gases.^b Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(c) Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 70. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Florida

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.31	0.35	0.33	0.36	—	0.33	—	—	0.33
1971	0.34	0.38	0.42	0.48	—	0.43	—	—	0.40
1972	0.43	0.40	0.51	0.60	—	0.51	0.09	—	0.47
1973	0.51	0.45	0.68	0.95	—	0.69	0.16	—	0.57
1974	0.74	0.59	1.00	1.85	—	1.00	0.18	—	1.19
1975	1.01	0.72	1.06	2.21	—	1.06	0.17	—	1.25
1976	1.10	0.83	1.61	2.33	—	1.36	0.19	—	1.39
1977	1.27	0.86	2.12	2.59	—	2.15	0.19	—	1.41
1978	1.47	1.03	1.98	2.66	—	2.92	0.19	—	1.44
1979	1.62	1.27	2.68	4.84	—	3.00	0.26	—	1.68
1980	1.90	1.33	3.72	5.76	—	3.88	0.25	—	2.40
1981	2.01	1.84	4.74	7.19	—	4.91	0.37	—	3.09
1982	2.15	2.19	4.30	7.27	—	4.34	0.51	1.28	2.57
1983	2.16	2.83	4.27	6.30	—	4.31	0.49	1.12	2.66
1984	2.17	3.32	4.62	6.01	—	4.65	0.60	1.26	2.46
1985	2.12	3.26	3.67	5.71	—	3.98	0.68	—	2.31
1986	1.93	2.06	2.15	3.41	—	2.18	0.73	—	1.76
1987	1.62	2.71	2.81	3.93	—	2.94	0.69	—	1.66
1988	1.79	2.10	2.20	3.34	—	2.23	0.94	—	1.72
1989	1.79	2.48	2.69	4.27	—	2.77	0.66	—	1.80
1990	1.85	2.53	2.89	5.09	—	3.08	0.64	—	1.86
1991	1.80	2.14	2.23	4.63	—	2.31	0.65	—	1.81
1992	1.82	2.29	2.40	4.46	—	2.46	0.62	—	1.79
1993	1.77	2.34	2.19	4.18	—	2.24	0.63	—	1.73
1994	1.78	2.16	2.25	3.94	—	2.29	0.62	—	1.71
Expenditures in Million Nominal Dollars									
1970	35.9	72.4	98.5	1.3	—	87.9	—	—	196.8
1971	39.8	79.0	137.5	3.7	—	141.2	—	—	258.8
1972	52.6	68.9	205.9	13.1	—	216.9	0.3	—	340.5
1973	77.8	76.9	269.7	18.5	—	306.2	6.2	—	489.1
1974	106.2	92.6	709.8	41.2	—	750.1	13.7	—	964.8
1975	134.7	162.9	794.0	66.8	—	868.8	18.8	—	1,114.3
1976	154.9	105.5	849.9	73.8	—	922.4	17.7	—	1,200.8
1977	199.2	122.8	864.0	81.0	—	945.0	35.8	—	1,302.9
1978	248.6	165.8	999.4	78.2	—	974.8	32.2	—	1,422.5
1979	313.5	219.6	1,299.4	140.5	—	1,408.9	43.8	—	1,982.0
1980	374.8	257.9	1,635.7	107.3	—	1,743.0	63.8	—	2,439.3
1981	447.6	320.3	2,231.7	94.2	—	2,326.0	56.7	—	3,152.8
1982	493.6	406.8	1,459.2	36.2	—	1,495.6	108.2	(a)	2,503.1
1983	661.2	447.0	1,364.3	36.9	—	1,861.2	78.9	(a)	2,546.3
1984	772.6	585.6	900.8	32.7	—	933.5	107.8	(a)	2,449.6
1985	947.7	544.2	546.2	41.5	—	887.7	196.1	—	2,244.7
1986	844.1	384.8	589.3	20.3	—	809.6	172.9	—	1,980.3
1987	1,017.1	480.6	596.7	23.9	—	620.6	138.6	—	2,255.9
1988	1,036.9	327.3	547.8	21.4	—	586.9	265.0	—	2,200.2
1989	1,075.1	464.6	685.2	60.8	—	745.6	148.5	—	2,433.9
1990	1,088.4	484.4	729.4	68.4	—	784.9	149.2	—	2,515.8
1991	1,140.6	435.6	653.0	48.8	—	701.8	146.2	—	2,424.6
1992	1,126.4	486.3	659.9	37.0	—	693.9	169.0	—	2,452.6
1993	1,094.2	411.8	726.1	34.6	—	752.7	174.6	—	2,443.6
1994	1,082.2	393.3	737.0	30.1	—	767.2	175.7	—	2,418.4

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

—No consumption.

(a)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 71. Energy Price and Expenditure Estimates by Source, 1970-1994, Georgia

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biofuels	Total ^c			
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																	
1970	—	0.39	0.39	0.58	1.05	8.73	2.91	2.80	0.38	\$1.70	1.84	—	—	1.24	0.55	4.58	1.86
1971	—	0.44	0.44	0.55	1.18	0.75	2.07	2.90	0.51	\$1.74	2.02	—	—	1.32	0.41	4.82	1.89
1972	—	0.45	0.45	0.73	1.17	0.75	2.03	2.89	0.46	\$1.60	1.90	—	—	1.33	0.44	5.17	2.05
1973	—	0.44	0.44	0.79	1.40	0.90	2.73	3.08	0.55	\$1.63	2.14	—	—	1.45	0.48	5.51	2.21
1974	—	0.80	0.80	0.87	2.33	1.55	3.35	4.39	1.68	\$2.64	3.27	0.11	—	2.12	0.89	6.91	3.14
1975	—	0.85	0.85	1.82	2.71	2.05	3.88	4.73	1.70	\$2.87	3.65	0.18	—	2.89	0.91	8.59	3.89
1976	—	0.99	0.99	1.32	2.76	2.17	3.89	4.90	1.74	\$3.07	3.70	0.13	—	2.45	1.01	9.12	3.94
1977	—	1.11	1.11	1.65	3.20	2.65	4.21	5.21	2.05	\$3.69	4.00	0.25	—	2.67	1.16	10.11	4.37
1978	—	1.26	1.26	1.97	3.58	2.65	4.98	5.27	1.91	\$3.52	4.15	0.33	—	2.51	1.24	11.06	4.86
1979	—	1.35	1.35	2.40	4.82	3.95	4.56	7.05	2.51	\$4.59	5.50	0.40	—	3.49	1.33	11.64	5.52
1980	—	1.80	1.80	3.88	7.00	6.46	6.80	9.91	3.27	\$5.89	8.82	0.45	—	4.55	1.38	12.75	7.34
1981	—	1.71	1.71	3.83	8.31	7.81	7.16	11.04	4.15	\$5.88	9.44	0.39	—	5.24	1.58	14.01	8.50
1982	—	1.86	1.86	4.50	7.73	7.15	7.48	10.42	3.79	\$5.95	9.93	0.43	—	5.25	1.70	18.42	8.81
1983	—	1.89	1.89	5.08	\$6.93	\$6.27	8.17	9.91	4.15	\$7.33	\$7.84	0.52	—	\$4.87	1.73	16.44	\$8.32
1984	—	1.82	1.82	5.24	\$6.76	\$5.01	9.80	9.59	4.69	\$7.66	7.47	0.80	—	4.81	1.82	17.08	8.42
1985	—	1.87	1.87	5.28	\$6.84	\$5.86	9.46	8.75	4.13	\$7.65	\$7.85	0.72	—	4.83	1.73	17.59	8.49
1986	—	1.81	1.81	4.95	\$5.53	3.51	8.82	5.29	2.23	\$5.14	\$5.73	0.84	—	\$3.90	1.71	16.91	\$7.44
1987	—	1.79	1.79	4.78	\$5.77	3.77	8.77	5.66	2.90	\$5.54	\$5.99	0.94	—	\$3.98	1.63	17.44	\$7.57
1988	—	1.75	1.75	4.72	\$5.42	3.54	8.37	5.51	2.29	\$5.35	\$5.75	1.01	—	3.51	1.51	18.29	\$7.67
1989	—	1.75	1.75	4.77	\$5.91	4.12	9.09	7.12	2.81	\$5.65	\$6.39	1.00	—	\$3.92	1.53	18.70	\$8.12
1990	—	1.79	1.79	4.80	\$7.39	5.45	10.35	8.34	2.82	\$5.83	\$7.37	0.87	\$1.49	\$4.23	1.53	18.25	\$8.55
1991	—	1.80	1.80	4.65	\$6.87	4.81	10.58	7.25	2.11	\$5.80	\$7.15	0.73	1.59	\$4.13	1.45	19.28	\$8.53
1992	—	1.80	1.80	4.68	\$6.65	4.39	8.83	7.65	2.55	\$5.69	\$6.79	0.69	1.60	\$4.01	1.39	19.60	\$8.42
1993	—	1.78	1.78	5.18	\$6.44	4.13	8.75	\$7.55	\$2.16	\$5.57	\$6.67	0.54	1.58	\$4.10	1.40	19.71	\$8.57
1994	—	1.70	1.70	5.22	6.45	3.90	8.35	7.55	2.35	5.52	6.63	0.58	1.58	4.01	1.34	19.30	8.41
Expenditures in Million Nominal Dollars																	
1970	—	75.7	75.7	198.4	78.1	42.8	58.5	798.3	24.8	\$72.4	1,870.5	—	—	1,341.5	-95.1	491.7	1,745.3
1971	—	95.3	95.3	229.3	100.6	50.3	59.2	890.3	33.5	\$85.6	1,209.4	—	—	1,534.9	-115.6	552.5	1,869.1
1972	—	118.4	118.4	243.2	112.1	50.1	61.5	944.4	38.4	\$94.7	1,302.3	—	—	1,553.9	-141.7	535.2	2,150.4
1973	—	120.5	120.5	279.3	169.1	72.1	94.9	1,098.5	49.8	\$101.3	1,542.7	—	—	1,945.5	-160.4	748.7	2,630.8
1974	—	228.0	228.0	290.4	271.6	104.7	95.3	1,508.0	149.0	\$130.6	2,271.3	0.1	—	2,796.8	-327.4	832.5	3,394.5
1975	—	285.9	285.9	336.3	254.0	147.4	108.2	1,628.3	115.5	\$142.3	2,396.2	4.3	—	3,022.3	-372.8	1,288.9	3,825.8
1976	—	342.5	342.5	347.9	325.5	152.2	130.1	1,781.8	154.0	\$152.6	2,716.1	9.1	—	3,412.6	-441.3	1,378.7	4,350.0
1977	—	460.6	460.6	442.1	392.6	203.6	142.3	1,824.1	187.9	\$210.8	3,051.4	11.2	—	3,975.2	-577.8	1,635.7	5,033.2
1978	—	547.9	547.9	555.6	375.2	245.5	139.5	2,037.4	146.9	\$254.5	3,187.7	15.5	—	4,267.9	-636.1	1,852.4	5,504.1
1979	—	650.3	650.3	798.7	514.9	362.5	128.9	2,577.9	210.8	\$331.3	4,146.3	22.3	—	5,545.7	-705.7	1,935.6	6,615.4
1980	—	794.3	794.3	878.9	792.6	596.1	175.0	3,488.4	188.0	\$478.0	5,639.8	41.7	—	7,434.9	-837.7	2,227.3	8,824.5
1981	—	942.1	942.1	1,197.7	929.3	638.1	175.9	3,933.0	141.5	\$536.7	6,224.6	30.9	—	8,395.3	-968.5	2,460.9	9,519.6
1982	—	994.6	994.6	1,313.6	823.6	606.9	170.5	3,516.7	114.4	\$442.4	5,777.5	31.5	—	8,117.5	-897.2	2,827.6	10,047.8
1983	—	1,102.4	1,102.4	1,475.5	\$875.6	\$682.7	185.9	3,181.6	107.6	\$469.4	\$5,403.8	44.5	—	\$6,026.2	-1,104.3	3,022.4	\$9,944.3
1984	—	1,307.5	1,307.5	1,583.3	\$828.6	\$667.3	195.8	3,223.9	151.5	\$521.3	\$5,586.7	35.7	—	\$5,515.5	-1,251.5	3,493.5	\$10,724.3
1985	—	1,398.4	1,398.4	1,467.5	\$918.3	618.0	231.5	3,358.1	293.0	\$494.4	\$5,793.4	78.4	—	\$5,999.8	-1,278.9	3,699.2	\$11,969.9
1986	—	1,249.4	1,249.4	1,370.2	\$790.1	351.4	202.9	2,543.8	48.6	\$420.4	\$4,365.5	66.0	—	\$7,041.0	-1,255.5	3,916.7	\$9,701.1
1987	—	1,267.9	1,267.9	1,437.2	\$874.2	419.2	202.5	2,796.6	53.7	\$391.5	\$4,738.0	154.8	—	\$7,597.7	-1,347.1	4,298.5	\$10,487.3
1988	—	1,220.7	1,220.7	1,508.1	\$891.8	405.8	202.4	2,856.1	40.8	\$364.8	\$4,773.4	184.8	—	\$7,666.7	-1,305.3	4,608.9	\$10,970.3
1989	—	1,182.3	1,182.3	1,489.8	\$865.6	405.7	242.2	3,122.4	38.9	\$374.2	\$5,150.3	257.5	—	\$8,098.9	-1,372.2	4,885.1	\$11,602.9
1990	—	1,282.3	1,282.3	1,468.3	\$1,218.2	667.9	218.3	2,880.3	51.4	\$422.7	\$5,099.8	239.0	\$61.3	\$9,098.8	-1,425.8	5,254.7	\$12,817.8
1991	—	1,181.0	1,181.0	1,471.1	\$1,077.4	375.5	254.9	3,493.8	32.8	\$450.7	\$5,685.0	205.1	89.3	\$8,581.5	-1,280.3	5,317.3	\$12,028.6
1992	—	1,107.8	1,107.8	1,575.5	\$1,037.8	307.3	230.7	3,378.8	58.4	\$451.4	\$5,502.5	176.5	70.2	\$8,432.5	-1,212.4	5,529.5	\$12,749.9
1993	—	1,175.2	1,175.2	\$1,789.2	\$1,172.2	354.0	\$237.7	\$3,690.5	\$65.3	\$445.6	\$5,966.7	159.8	75.0	\$9,161.9	-1,274.5	5,947.8	\$13,895.1
1994	—	1,175.9	1,175.9	1,758.0	1,182.4	384.4	225.2	3,708.1	82.8	451.4	5,994.4	180.1	74.5	9,182.9	-1,278.0	5,872.5	13,777.4

^a Liquefied petroleum gases.
^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.
^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.

Revised data.
 —No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.
 Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 72. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Georgia

Year	Primary Energy							Electricity	Total Energy ^d	
	Coal	Natural Gas	Petroleum			Biomass ^a	Total ^c			
			Distillate Fuel	Kerosene	LPG ^b					Total
Prices in 1982 Dollars per Million Btu										
1970	1.00	1.02	1.24	1.49	2.35	2.22	—	1.21	5.18	2.33
1971	0.96	1.10	1.36	1.53	2.41	2.27	—	1.29	5.47	2.50
1972	1.10	1.22	1.37	1.65	2.33	2.20	—	1.30	5.89	2.78
1973	0.97	1.27	1.62	1.86	3.09	3.40	—	1.62	6.18	3.12
1974	1.30	1.36	2.46	2.97	3.87	3.88	—	1.75	7.39	3.74
1975	1.23	1.45	2.61	3.28	4.40	4.29	—	1.88	8.01	4.25
1976	1.52	1.65	2.89	3.40	4.67	4.39	—	2.13	9.28	4.62
1977	2.28	1.91	3.28	3.86	4.78	4.57	—	2.34	10.77	5.25
1978	2.92	2.27	3.49	4.25	4.79	4.84	—	2.61	11.85	5.86
1979	2.89	2.77	4.62	6.77	5.29	5.20	—	3.02	12.81	6.58
1980	3.12	3.87	4.92	6.77	7.84	7.83	—	4.17	13.85	7.86
1981	3.59	4.23	9.82	11.05	6.28	6.33	—	4.73	15.10	8.77
1982	3.72	5.16	9.96	11.09	6.73	6.77	—	5.58	17.06	10.58
1983	3.35	5.95	4.49	9.83	9.10	8.88	—	6.39	18.36	11.78
1984	3.45	6.25	4.97	9.51	9.93	9.56	—	6.65	18.62	11.51
1985	3.31	6.42	7.51	10.25	8.28	9.17	—	6.87	18.91	12.19
1986	3.00	6.46	5.43	7.41	8.28	8.63	—	6.76	19.67	12.58
1987	2.98	6.18	6.45	7.44	8.23	8.68	—	6.51	19.80	12.28
1988	2.85	6.07	5.54	7.68	8.39	8.94	—	6.31	20.58	12.30
1989	3.05	6.09	5.34	7.29	10.21	9.61	—	6.58	21.18	12.90
1990	3.10	6.84	6.70	9.45	18.17	9.77	^d 3.58	^d 6.85	21.88	^d 13.44
1991	2.84	6.52	6.25	8.53	10.57	10.18	3.53	^a 6.83	21.96	^a 13.28
1992	2.92	6.28	6.01	8.20	8.07	7.94	3.53	^a 6.35	22.67	^a 12.95
1993	3.10	6.62	6.07	8.28	8.09	7.93	3.53	^a 6.63	22.86	^a 13.32
1994	3.10	7.11	3.84	5.28	8.70	8.41	3.53	7.08	22.62	13.62
Expenditures in Million Nominal Dollars										
1970	1.1	81.4	1.8	1.0	38.9	39.7	—	132.3	228.7	363.4
1971	0.6	100.1	2.4	1.3	38.4	42.1	—	142.8	244.4	367.3
1972	0.5	107.2	2.8	2.9	37.7	41.5	—	149.2	277.2	426.4
1973	0.6	112.3	3.5	0.8	57.0	81.3	—	174.3	324.4	495.7
1974	0.6	168.7	4.8	0.8	52.3	57.9	—	165.2	360.8	540.0
1975	1.4	190.5	4.8	0.7	61.7	88.9	—	200.7	505.9	708.7
1976	0.5	146.4	8.5	0.7	74.9	84.0	—	230.7	534.2	764.9
1977	0.7	193.3	6.1	1.5	77.6	87.2	—	281.3	694.1	985.3
1978	0.5	224.5	6.4	1.1	70.7	78.3	—	303.3	777.2	1,089.5
1979	0.5	261.9	9.2	2.5	44.4	58.1	—	317.7	790.2	1,107.9
1980	0.8	332.8	28.3	4.8	98.7	127.6	—	468.2	948.8	1,408.6
1981	1.0	399.2	9.2	2.1	89.7	111.0	—	511.2	1,041.2	1,552.4
1982	0.4	463.1	7.9	3.9	87.7	99.5	—	583.1	1,297.7	1,790.6
1983	0.1	558.2	9.5	5.7	108.8	122.9	—	681.1	1,298.6	1,979.6
1984	2.2	610.7	9.4	3.9	127.5	140.1	—	753.0	1,434.2	2,187.2
1985	1.1	660.0	15.5	6.8	151.3	161.8	—	717.9	1,616.4	2,294.3
1986	0.2	691.3	11.5	8.5	119.6	139.7	—	731.1	1,732.3	2,463.4
1987	1.0	638.0	10.9	5.5	124.9	141.3	—	780.2	1,823.2	2,603.5
1988	0.7	672.8	8.3	6.8	113.8	136.8	—	804.0	1,839.0	2,743.8
1989	0.3	648.0	8.3	7.3	153.9	169.8	—	817.9	2,049.0	2,886.9
1990	0.8	615.6	9.8	5.8	125.3	140.8	^d 19.9	^a 776.9	2,233.0	^a 3,089.9
1991	0.2	647.6	8.5	5.5	136.5	151.5	21.0	^a 820.9	2,284.0	^a 3,094.9
1992	1.0	680.9	9.2	5.1	117.5	128.8	22.1	^a 848.8	2,361.0	^a 3,202.7
1993	0.6	795.5	8.3	6.4	122.3	137.1	24.0	^a 948.1	2,440.0	^a 3,586.1
1994	0.8	771.8	2.5	2.4	133.3	138.2	23.6	934.4	2,527.0	3,461.3

^a Liquefied petroleum gases.

^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.

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

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

R- Revised data.

—No consumption.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 73. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Georgia

Year	Primary Energy								Electricity	Total Energy ^b		
	Coal	Natural Gas	Petroleum					Total				
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel					
Prices in Nominal Dollars per Million Btu												
1970	0.59	0.72	0.57	0.65	1.28	2.86	0.22	1.44	0.94	2.98		
1971	0.47	0.62	1.05	0.66	1.65	2.90	0.54	1.49	0.95	2.78		
1972	0.56	0.65	1.06	0.68	1.69	2.89	0.50	1.47	0.96	2.96		
1973	0.55	0.81	1.24	0.79	1.78	3.09	0.58	1.63	1.04	3.22		
1974	1.25	0.90	2.26	1.77	2.90	4.39	1.57	2.63	1.30	4.11		
1975	1.81	1.87	2.26	2.22	2.83	4.73	1.73	2.85	1.96	4.88		
1976	1.21	1.35	2.51	2.36	3.17	4.90	1.72	2.96	1.71	5.67		
1977	1.33	1.71	2.89	2.63	3.68	5.21	2.06	3.40	2.01	5.85		
1978	1.52	2.02	3.02	3.25	4.04	5.27	1.94	3.67	2.20	6.02		
1979	1.52	2.43	4.28	3.95	4.26	7.05	2.82	4.51	2.73	6.51		
1980	1.68	3.12	8.31	6.08	5.27	8.91	3.44	7.89	3.47	7.66		
1981	1.76	3.68	7.95	6.97	6.13	11.04	4.24	8.10	4.58	8.97		
1982	1.82	4.60	7.49	7.38	6.49	10.42	3.70	7.90	5.13	10.43		
1983	1.70	6.28	R 6.44	6.90	7.16	6.91	4.41	R 6.45	R 5.68	R 10.25		
1984	1.78	5.51	R 6.51	6.80	7.54	6.59	4.73	R 6.44	R 5.71	R 11.41		
1985	1.86	5.87	R 6.19	R 6.88	8.84	8.76	4.28	R 6.89	R 5.76	R 12.39		
1986	1.76	5.45	R 3.79	R 4.50	8.26	6.29	2.48	R 4.16	R 5.14	R 11.33		
1987	1.73	5.28	R 4.11	R 4.56	8.12	6.06	2.90	R 4.58	R 5.07	R 12.08		
1988	1.75	5.32	R 3.72	R 4.21	8.40	6.61	2.37	R 4.40	R 5.09	R 12.70		
1989	1.73	5.33	R 4.36	R 5.05	7.64	7.12	2.72	R 5.33	R 5.32	R 13.82		
1990	1.78	5.61	R 5.47	R 6.94	10.15	8.34	2.84	R 6.78	R 6.62	R 14.98		
1991	1.73	5.52	R 4.93	R 5.45	10.59	7.95	2.28	R 6.54	R 5.72	R 14.81		
1992	1.80	5.41	R 4.72	R 5.17	10.04	7.68	2.40	R 6.54	R 5.57	R 14.77		
1993	1.80	5.68	R 4.31	R 4.99	9.80	R 7.55	2.47	R 5.98	R 5.70	R 14.83		
1994	1.82	6.00	4.27	5.79	8.87	7.55	2.54	5.90	5.94	15.07		
Expenditures in Million Nominal Dollars												
1970	1.9	26.6	4.0	6.1	4.8	5.1	0.3	13.8	43.5	183.1		
1971	0.5	35.8	5.3	0.2	4.8	5.6	0.4	16.1	52.3	235.7		
1972	0.5	39.9	6.4	0.1	4.8	5.5	0.4	17.2	57.6	273.3		
1973	0.6	44.2	7.7	0.1	4.9	6.2	0.4	19.3	64.2	316.4		
1974	1.1	45.0	11.5	0.2	6.9	8.2	1.1	27.9	74.0	394.7		
1975	1.3	54.2	11.2	0.1	7.2	9.2	0.9	28.6	83.8	487.9		
1976	0.5	64.1	21.0	0.1	9.0	9.8	0.8	40.8	105.4	578.6		
1977	0.8	97.0	20.2	0.4	10.5	10.8	1.3	43.2	141.0	671.1		
1978	0.5	125.1	15.9	0.3	10.5	11.0	1.0	38.7	164.2	673.0		
1979	0.8	157.6	21.6	0.8	8.3	15.0	1.7	45.2	203.5	736.5		
1980	0.8	189.1	11.6	0.4	12.1	18.9	0.2	43.2	232.8	839.4		
1981	0.9	227.4	58.1	0.7	13.1	23.8	0.2	39.9	322.1	1,027.1		
1982	0.4	259.5	45.4	0.0	11.5	23.1	0.1	86.1	348.0	1,182.9		
1983	0.1	304.9	R 91.1	1.1	15.1	18.9	14.4	R 190.4	R 435.4	R 1,280.3		
1984	2.1	316.2	R 94.1	0.6	17.9	16.7	21.1	R 139.7	R 458.0	R 1,522.3		
1985	1.1	295.1	R 64.9	R 1.7	34.7	14.2	12.4	R 167.9	R 494.2	R 1,861.6		
1986	0.2	282.6	R 21.9	R 1.9	18.8	11.9	16.1	R 70.6	R 253.4	R 1,485.3		
1987	1.0	294.5	R 24.0	0.9	19.4	14.3	18.2	R 76.7	R 272.6	R 1,684.6		
1988	0.8	305.0	R 26.1	0.5	20.1	15.5	11.4	R 73.7	R 279.4	R 1,655.2		
1989	0.4	290.4	R 24.7	R 2.1	20.3	15.1	4.4	R 68.7	R 357.4	R 1,677.6		
1990	0.8	285.8	R 30.5	R 2.2	32.1	22.4	1.3	R 80.4	R 374.1	R 2,126.8		
1991	0.2	289.4	R 24.7	R 1.6	24.7	13.8	0.3	R 65.1	R 354.7	R 2,137.3		
1992	1.1	298.9	R 28.5	R 1.1	25.8	16.7	0.1	R 72.2	R 372.2	R 2,227.8		
1993	0.8	335.4	R 29.8	R 1.5	25.6	2.6	0.1	R 59.9	R 385.8	R 2,354.8		
1994	0.8	334.0	25.8	4.4	24.0	6.8	0.1	61.1	395.9	2,401.9		

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R=Revised data.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 74. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Georgia

Year	Primary Energy															Electricity	Total Energy ^c	
	Coal			Natural Gas	Petroleum										Biomass ^c			Total ^c
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total					
Prices in Nominal Dollars per Million Btu																		
1970	—	0.58	0.58	0.48	0.76	0.58	0.63	1.88	8.08	2.80	6.40	2.53	8.81	—	0.58	2.91	8.98	
1971	—	0.47	0.47	0.50	0.78	0.62	0.68	1.85	5.27	2.90	0.51	1.95	0.91	—	0.69	3.13	0.98	
1972	—	0.56	0.56	0.62	0.84	0.62	0.68	1.69	5.58	2.69	0.45	1.96	0.92	—	0.70	3.36	1.03	
1973	—	0.55	0.55	0.59	0.85	0.73	0.79	1.78	5.33	3.08	0.66	2.17	1.02	—	0.78	3.67	1.13	
1974	—	1.25	1.25	0.68	1.75	1.62	1.77	2.80	7.22	4.39	1.78	2.85	2.09	—	1.32	5.12	1.82	
1975	—	1.31	1.31	0.82	1.74	2.06	2.22	2.83	7.48	4.79	1.89	3.33	2.29	—	1.43	7.33	2.38	
1976	—	1.21	1.21	1.08	1.83	2.19	2.38	3.17	7.05	4.90	1.74	3.44	2.39	—	1.75	7.23	2.61	
1977	—	1.33	1.33	1.37	1.89	2.68	2.83	3.68	6.97	5.21	2.07	3.83	2.64	—	2.08	7.86	3.03	
1978	—	1.52	1.52	1.71	2.16	2.96	3.25	4.04	7.80	5.27	1.91	3.80	2.82	—	2.29	8.98	3.52	
1979	—	1.52	1.52	2.16	2.64	3.64	3.95	4.28	10.21	7.05	2.43	5.29	3.68	—	2.80	9.41	3.81	
1980	—	1.68	1.68	2.75	3.72	5.44	5.86	5.97	14.38	9.91	2.44	8.88	5.36	—	3.51	10.49	4.87	
1981	—	1.78	1.78	3.88	4.59	6.30	6.97	6.13	18.90	11.04	4.70	10.05	7.16	—	4.85	11.45	5.84	
1982	—	1.82	1.82	4.06	4.07	6.89	7.36	6.49	17.25	10.42	4.21	9.73	8.56	—	4.89	13.57	6.43	
1983	—	1.70	1.70	4.40	4.03	8.70	8.90	7.16	18.98	8.91	4.10	9.33	8.34	—	4.76	13.28	8.43	
1984	—	1.78	1.78	4.46	4.50	8.88	8.80	7.54	17.43	8.59	4.73	9.54	8.61	—	4.91	13.34	8.61	
1985	—	1.80	1.80	4.41	4.87	8.38	8.60	9.84	17.61	6.78	4.20	9.22	8.73	—	4.88	13.68	8.68	
1986	—	1.78	1.78	3.80	4.19	8.34	8.50	8.26	15.58	6.29	2.46	8.42	8.30	—	4.05	12.95	8.08	
1987	—	1.73	1.73	3.57	3.21	8.43	8.50	8.12	12.70	6.66	2.90	7.16	8.07	—	3.81	13.01	8.85	
1988	—	1.75	1.75	3.52	3.15	8.06	8.21	8.40	14.61	6.51	2.37	8.11	8.79	—	3.87	13.68	8.86	
1989	—	1.73	1.73	3.64	2.95	8.67	8.05	7.94	14.48	7.12	2.72	7.92	8.26	—	3.86	13.72	8.67	
1990	—	1.78	1.78	3.80	2.98	8.88	8.04	10.15	14.88	6.24	3.04	7.90	8.48	1.17	4.84	14.16	8.70	
1991	—	1.79	1.79	3.25	3.18	8.28	8.46	10.59	16.79	7.85	2.26	8.08	8.55	1.29	3.56	14.01	8.62	
1992	—	1.80	1.80	3.41	2.38	8.88	8.17	10.04	19.43	7.66	2.40	8.31	8.53	1.28	3.58	13.95	8.66	
1993	—	1.80	1.80	3.99	2.83	8.81	8.99	8.60	18.94	7.55	2.47	8.67	8.03	1.28	3.78	13.80	8.58	
1994	—	1.82	1.82	3.79	2.88	8.84	8.81	7.56	19.18	7.55	2.54	8.59	8.86	1.28	3.61	13.38	8.54	
Expenditures in Million Nominal Dollars																		
1970	—	8.0	8.0	58.0	19.7	13.5	3.1	14.3	14.6	1.8	21.8	12.4	98.8	—	182.5	187.3	270.4	
1971	—	5.4	5.4	73.2	20.7	15.8	1.3	15.5	18.0	1.6	26.5	18.0	117.4	—	195.9	124.7	320.7	
1972	—	5.5	5.5	82.4	25.3	17.9	1.2	18.3	20.4	1.6	25.2	19.8	128.7	—	218.7	145.3	365.0	
1973	—	5.4	5.4	106.3	27.4	20.6	1.0	22.3	22.6	1.3	33.7	23.4	182.1	—	263.9	172.1	436.0	
1974	—	8.9	8.9	112.8	53.3	38.8	2.3	34.9	29.2	1.7	97.4	31.0	286.6	—	410.2	240.7	650.9	
1975	—	15.3	15.3	122.1	48.4	42.2	2.8	36.2	27.7	1.3	98.2	32.3	357.1	—	399.5	346.8	746.3	
1976	—	15.9	15.9	132.8	54.1	68.6	4.0	44.8	29.0	1.2	72.1	53.1	336.9	—	485.6	371.3	856.9	
1977	—	20.1	20.1	143.7	67.0	77.3	5.4	52.3	28.7	1.2	101.8	75.6	407.9	—	571.2	421.5	992.7	
1978	—	23.2	23.2	167.0	88.0	72.3	5.8	54.4	31.3	0.8	76.2	88.2	418.0	—	638.2	588.3	1,204.5	
1979	—	20.3	20.3	238.7	80.1	78.9	8.3	78.0	43.9	1.3	114.1	132.0	544.4	—	909.4	610.2	1,519.6	
1980	—	26.5	26.5	440.0	118.2	128.4	15.4	61.7	55.9	1.9	118.4	212.9	708.5	—	1,179.0	862.5	1,888.8	
1981	—	43.7	43.7	681.2	124.4	103.3	8.7	58.4	66.2	1.2	87.5	263.9	693.8	—	1,288.6	743.9	2,031.6	
1982	—	47.4	47.4	685.0	108.1	88.5	4.5	88.5	57.8	0.9	63.5	184.2	582.0	—	1,214.4	681.7	2,076.1	
1983	—	58.0	58.0	905.5	142.0	—	—	57.0	59.8	0.9	81.6	180.2	628.9	—	1,291.5	877.9	2,169.4	
1984	—	67.2	67.2	653.7	188.2	—	—	42.5	86.0	0.9	91.1	207.0	712.3	—	1,433.2	990.2	2,423.4	
1985	—	68.5	68.5	873.4	181.2	—	—	87.8	61.4	0.5	249.8	182.9	988.2	—	1,588.0	1,013.9	2,602.0	
1986	—	77.6	77.6	484.3	159.7	—	—	58.8	63.2	0.3	19.5	135.9	582.9	—	1,125.0	1,049.8	2,174.6	
1987	—	84.1	84.1	501.3	127.4	—	—	54.4	48.0	0.2	22.7	181.4	541.0	—	1,126.3	1,097.7	2,224.1	
1988	—	91.6	91.6	526.1	126.4	—	—	64.5	34.3	0.5	21.4	128.2	518.1	—	1,136.9	1,189.6	2,326.7	
1989	—	88.0	88.0	649.2	83.9	—	—	64.7	55.2	0.5	24.2	151.1	551.9	—	1,189.8	1,211.1	2,399.8	
1990	—	96.5	96.5	689.8	121.8	—	—	65.1	57.3	0.4	25.1	178.2	648.3	41.4	1,341.7	1,288.7	2,610.7	
1991	—	93.4	93.4	531.8	108.8	—	—	55.4	58.0	0.4	49.0	18.0	635.4	48.3	1,308.8	1,285.4	2,574.3	
1992	—	79.9	79.9	576.4	77.3	—	—	53.4	68.8	0.3	49.2	40.7	623.7	48.1	1,329.0	1,307.6	2,635.5	
1993	—	78.9	78.9	856.4	93.0	—	—	55.8	88.0	0.2	22.2	33.4	617.3	50.8	1,401.6	1,343.8	2,745.3	
1994	—	87.4	87.4	848.6	93.3	—	—	60.8	73.1	0.2	36.1	200.0	587.8	51.0	1,374.8	1,330.5	2,705.3	

^a Liquefied petroleum gases.
^b "Other" is the "other petroleum products" category described in Appendix A.
^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.
^e Revised data.
^f No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.
 Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 75. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Georgia

Year	Primary Energy										Electricity	Total	Total Energy
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
1970	0.50	—	2.17	1.52	4.73	1.59	5.95	2.88	0.28	2.33	—	2.33	2.33
1971	0.47	—	2.21	1.50	0.78	1.63	5.27	2.90	0.48	2.41	—	2.41	2.41
1972	0.56	—	2.19	1.50	0.76	1.69	5.08	2.89	0.47	2.42	—	2.42	2.42
1973	0.55	—	2.36	1.75	0.90	1.78	6.33	3.08	0.61	2.55	—	2.55	2.55
1974	1.25	—	3.23	2.68	1.33	2.90	7.22	4.39	1.40	3.75	—	3.75	3.75
1975	1.31	—	3.45	3.02	2.03	2.83	7.44	4.73	1.52	4.11	—	4.11	4.11
1976	1.21	—	3.59	3.19	2.17	3.12	7.08	4.90	1.58	4.26	—	4.26	4.26
1977	1.38	—	3.97	3.62	2.55	3.69	6.97	5.21	1.81	4.57	—	4.57	4.57
1978	—	—	4.29	3.61	2.83	4.04	7.60	5.27	1.82	4.66	—	4.66	4.66
1979	—	—	5.73	3.20	3.95	4.20	10.21	7.05	2.49	5.11	0.23	5.11	5.11
1980	—	—	6.82	3.74	6.46	5.27	14.36	8.01	2.91	6.73	10.46	6.73	6.73
1981	—	—	10.84	5.75	7.61	6.13	16.00	11.04	3.67	9.94	12.10	9.94	9.94
1982	—	—	10.82	7.02	7.16	6.49	17.25	10.42	3.35	9.36	12.87	9.36	9.36
1983	—	—	10.44	7.05	7.05	7.16	18.06	9.91	4.14	8.14	12.30	8.14	8.14
1984	—	—	10.27	6.84	6.01	7.54	17.63	8.59	5.28	7.87	13.56	7.87	7.87
1985	—	—	8.99	6.74	5.66	8.41	17.41	8.76	3.38	7.86	12.92	7.86	7.86
1986	—	—	6.41	5.93	3.51	8.25	16.59	6.28	1.87	6.75	13.08	6.75	6.75
1987	—	—	7.55	6.09	3.77	8.12	15.70	6.65	2.61	6.05	21.39	6.05	6.05
1988	—	—	7.41	5.74	3.54	8.40	15.31	6.59	1.85	5.69	21.42	5.69	5.69
1989	—	—	6.28	6.18	4.12	7.64	14.46	7.12	2.34	6.50	22.70	6.50	6.50
1990	—	—	8.32	7.47	5.45	14.15	14.80	8.24	1.45	7.46	33.84	7.46	7.46
1991	—	—	8.71	7.21	4.61	10.39	18.79	7.66	1.64	7.37	24.86	7.37	7.37
1992	—	—	8.54	6.85	4.39	10.04	18.43	7.65	2.65	7.05	25.00	7.05	7.05
1993	—	3.45	8.24	6.80	4.13	9.60	18.94	7.55	1.90	6.94	24.90	6.94	6.94
1994	—	3.65	7.96	6.81	3.80	7.87	19.18	7.55	2.19	6.89	25.63	6.89	6.89

Expenditures in Million Nominal Dollars													
1970	14	—	4.4	59.8	43.8	8.4	18.5	78.3	0.3	91.5	—	91.5	91.5
1971	16	—	7.1	74.9	50.3	0.7	18.9	87.1	0.4	1,025.4	—	1,025.4	1,025.4
1972	16	—	5.8	81.6	50.1	0.7	21.6	93.4	0.7	1,098.7	—	1,098.7	1,098.7
1973	16	—	5.8	116.0	72.1	0.8	20.2	1,050.8	1.9	1,279.8	—	1,279.8	1,279.8
1974	16	—	7.0	177.7	104.7	1.2	26.3	1,490.1	6.5	1,612.9	—	1,612.9	1,612.9
1975	16	—	6.9	181.7	147.4	1.1	23.4	1,616.2	4.1	1,942.8	—	1,942.8	1,942.8
1976	16	—	7.0	196.1	162.2	1.4	24.5	1,730.9	5.3	2,149.6	—	2,149.6	2,149.6
1977	16	—	7.9	249.1	203.5	1.9	26.7	1,912.2	4.3	2,404.0	—	2,404.0	2,404.0
1978	16	—	8.6	259.4	243.5	4.2	30.8	1,995.6	4.3	2,546.1	—	2,546.1	2,546.1
1979	16	—	10.9	401.5	382.5	2.1	42.9	2,551.5	94.0	3,455.4	0.1	3,455.4	3,455.4
1980	16	—	17.8	416.2	398.1	1.5	53.8	3,386.1	64.3	4,731.1	0.5	4,731.1	4,731.1
1981	16	—	18.0	743.9	636.1	4.7	64.7	3,778.0	61.2	5,307.3	0.7	5,307.3	5,307.3
1982	16	—	13.5	670.7	609.6	4.6	55.6	3,492.7	49.6	4,999.9	1.4	4,999.9	4,999.9
1983	16	—	11.6	683.5	632.7	8.2	68.0	3,181.9	29.6	4,363.8	1.0	4,363.8	4,363.8
1984	16	—	11.4	710.2	657.3	8.7	64.5	3,185.6	34.2	4,359.9	1.6	4,359.9	4,359.9
1985	16	—	10.7	707.4	616.9	7.5	60.9	3,284.4	21.8	4,600.8	2.4	4,600.8	4,600.8
1986	16	—	10.8	654.4	561.4	5.7	52.0	2,483.8	7.1	3,574.9	2.7	3,574.9	3,574.9
1987	16	—	8.3	743.7	419.2	3.9	47.9	2,739.7	8.6	3,971.4	3.7	3,971.4	3,971.4
1988	16	—	8.5	781.0	405.8	4.2	63.1	2,604.1	6.5	4,042.1	4.8	4,042.1	4,042.1
1989	16	—	8.6	923.7	403.7	3.5	54.0	3,083.6	9.8	4,353.8	4.8	4,353.8	4,353.8
1990	16	—	9.2	1,015.8	697.3	3.9	56.9	3,502.5	15.4	5,179.9	6.3	5,179.9	5,179.9
1991	16	—	8.0	836.8	375.5	4.3	57.8	3,431.1	14.2	4,827.4	5.4	4,827.4	4,827.4
1992	16	—	7.2	917.4	307.3	4.0	68.0	3,310.8	56.3	4,671.1	5.4	4,671.1	4,671.1
1993	16	—	7.0	1,048.9	354.0	4.1	67.5	3,669.7	30.7	5,141.6	6.0	5,141.6	5,141.6
1994	16	—	6.4	1,054.1	384.4	7.1	71.4	3,670.5	21.7	5,199.9	6.0	5,199.9	5,199.9

^a Liquidated petroleum gases
 R—Revised data
 —No consumption; including cases where adjustments were made
 See explanation of adjustments in Section 7 of Appendix A

(b) Values less than 0.05 million nominal dollars
 Note: Expenditure totals may not equal sum of components due to independent rounding
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 78. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Georgia

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Electric	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Standard Dollars per Million Btu									
1970	0.38	0.28	0.31	0.38	—	0.31	—	—	0.36
1971	0.44	0.31	0.63	0.71	—	0.67	—	—	0.41
1972	0.45	0.35	0.48	0.66	—	0.59	—	—	0.44
1973	0.44	0.47	0.58	1.09	—	0.76	—	—	0.48
1974	0.79	0.58	1.57	2.08	—	1.78	0.11	—	0.80
1975	0.93	0.71	1.74	2.38	—	1.86	0.13	—	0.91
1976	0.98	0.80	1.78	2.48	—	1.81	0.18	—	1.01
1977	1.10	1.30	2.85	2.78	—	2.34	0.26	—	1.16
1978	1.25	1.70	1.85	2.84	—	2.11	0.33	—	1.24
1979	1.58	2.58	2.78	3.83	—	2.88	0.46	—	1.33
1980	1.88	2.58	3.47	6.22	—	4.48	0.45	—	1.38
1981	1.71	3.44	4.23	7.78	—	6.72	0.38	—	1.58
1982	1.68	4.06	3.74	7.27	—	6.31	0.43	—	1.70
1983	1.90	4.18	4.51	8.23	—	5.81	0.52	—	1.73
1984	1.93	4.44	5.44	5.81	—	5.75	0.68	—	1.82
1985	1.88	4.21	5.88	5.88	—	5.32	0.72	—	1.78
1986	1.81	2.88	1.82	3.48	—	2.32	0.84	—	1.71
1987	1.78	3.72	3.08	3.81	—	3.42	0.94	—	1.83
1988	1.75	2.73	2.24	3.59	—	2.98	1.01	—	1.81
1989	1.75	3.16	2.77	4.92	—	4.37	1.08	—	1.93
1990	1.78	3.87	2.18	5.44	—	4.28	0.87	—	1.83
1991	1.80	2.78	2.32	4.74	—	4.48	0.73	—	1.80
1992	1.80	2.82	3.05	4.88	—	4.22	0.59	—	1.68
1993	1.78	3.24	2.16	4.24	—	3.80	0.54	—	1.40
1994	1.88	3.21	2.26	3.86	—	3.86	0.58	—	1.34
Expenditures in Million Standard Dollars									
1970	87.7	17.3	3.8	8.1	—	3.1	—	—	88.1
1971	89.7	28.4	6.2	2.1	—	8.2	—	—	118.5
1972	111.8	13.8	12.2	3.8	—	18.1	—	—	141.7
1973	113.9	16.5	13.8	18.3	—	38.1	—	—	180.4
1974	217.4	25.8	46.0	38.2	—	84.1	0.1	—	327.4
1975	388.1	28.3	44.3	14.8	—	58.7	4.3	—	372.6
1976	323.8	4.7	75.4	28.4	—	104.8	6.1	—	441.3
1977	438.8	8.1	80.5	38.1	—	119.8	11.2	—	577.8
1978	523.8	10.2	85.4	21.2	—	88.8	15.5	—	638.1
1979	628.7	3.8	41.1	5.8	—	46.1	22.3	—	705.7
1980	758.7	9.7	14.8	18.1	—	28.7	41.7	—	837.7
1981	688.5	9.8	12.7	18.8	—	29.5	30.8	—	888.8
1982	948.3	6.3	2.1	11.1	—	13.1	31.5	—	997.2
1983	1,043.2	7.0	1.8	7.8	—	8.8	44.5	—	1,084.3
1984	1,238.3	2.8	1.1	5.7	—	6.3	35.7	—	1,281.6
1985	1,287.7	3.8	1.8	7.7	—	9.8	78.4	—	1,378.8
1986	1,171.2	11.8	4.1	3.4	—	7.5	88.8	—	1,258.5
1987	1,181.8	3.1	4.8	3.5	—	7.5	154.8	—	1,347.7
1988	1,127.8	4.4	2.5	8.2	—	8.7	164.8	—	1,308.3
1989	1,893.6	2.2	0.5	8.4	—	8.8	287.5	—	1,332.2
1990	1,181.5	5.8	1.8	8.8	—	8.8	288.8	—	1,425.9
1991	1,057.1	2.4	0.3	6.3	—	5.8	205.1	—	1,268.3
1992	1,025.8	3.4	1.3	5.4	—	6.7	178.5	—	1,212.4
1993	1,077.1	10.8	2.3	8.3	—	10.8	158.8	—	1,274.5
1994	1,088.8	3.4	6.8	8.8	—	7.7	180.1	—	1,278.0

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
—No consumption.

Note: Expenditure totals may not equal sum of components due to independent rounding.
Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 77. Energy Price and Expenditure Estimates by Source, 1970-1994, Hawaii

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^d
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biomass	Total ^c			
	Colony Coal	Steam Coal	Total		Oil/White Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Heating Oil	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																	
1970	—	—	—	—	1.04	0.73	2.03	3.32	0.40	^a 1.14	1.00	—	0.05	1.00	0.41	0.90	1.73
1971	—	—	—	—	1.12	0.77	2.09	3.20	0.50	^a 1.44	1.14	—	0.09	1.14	0.49	1.32	1.82
1972	—	—	—	—	1.06	0.76	2.16	3.35	0.50	^a 1.40	1.10	—	0.72	1.10	0.55	1.46	1.90
1973	—	—	—	—	1.20	0.84	4.70	3.81	0.80	^a 1.40	1.35	—	0.77	1.35	0.67	1.17	2.19
1974	—	—	—	—	2.05	1.57	5.00	4.70	0.97	^a 2.20	2.04	—	0.84	2.04	0.80	0.43	3.16
1975	—	—	—	—	2.30	2.04	3.77	5.44	1.50	^a 2.80	2.53	—	0.92	2.53	1.50	12.80	3.95
1976	—	—	—	—	2.40	2.32	4.40	5.05	1.50	^a 2.40	2.70	—	0.80	2.70	1.50	13.20	4.27
1977	—	—	—	—	2.80	2.82	5.45	5.00	1.85	^a 2.70	2.90	—	1.04	2.90	1.87	14.82	4.81
1978	—	—	—	—	3.07	2.80	5.93	5.22	2.40	^a 2.80	3.24	—	—	3.24	2.16	16.40	5.05
1979	—	—	—	—	4.20	3.70	6.80	7.79	2.62	^a 3.80	4.20	—	—	4.20	2.80	17.70	6.13
1980	—	—	—	19.06	6.50	6.21	6.32	10.01	3.00	^a 5.01	6.17	—	—	6.17	3.80	22.01	8.71
1981	—	—	—	15.70	6.13	7.50	6.22	12.47	6.24	^a 6.40	8.00	—	1.24	8.00	0.84	33.00	11.93
1982	—	2.57	2.57	15.62	6.00	7.37	6.40	12.20	6.02	^a 7.30	7.90	—	1.20	7.90	0.70	36.55	12.44
1983	—	2.11	2.11	15.10	^a 7.82	^a 6.90	7.35	11.72	5.40	^a 6.30	^a 7.20	—	1.02	^a 7.20	0.50	31.00	^a 11.67
1984	—	2.10	2.10	10.91	^a 7.52	^a 6.65	11.50	11.80	5.30	^a 7.35	^a 7.15	—	1.20	^a 7.20	0.40	31.34	^a 11.12
1985	—	2.15	2.15	14.20	^a 7.80	6.21	13.79	13.14	4.81	^a 7.82	8.79	—	0.79	8.80	0.80	33.81	18.30
1986	—	2.60	2.60	11.90	^a 6.29	4.30	12.90	9.83	2.80	^a 7.80	^a 5.04	—	—	^a 5.12	2.80	23.00	8.40
1987	—	1.85	1.85	11.00	^a 6.05	4.30	12.77	9.47	3.41	^a 6.00	6.20	—	—	6.20	3.54	24.40	8.83
1988	—	1.81	1.81	11.52	^a 6.13	4.04	12.61	9.55	2.80	^a 6.77	^a 4.80	—	—	^a 4.80	2.85	22.52	^a 7.82
1989	—	1.76	1.76	11.41	^a 6.70	4.00	14.94	10.42	3.30	^a 6.90	^a 6.37	—	(*)	^a 5.42	3.32	23.70	^a 8.59
1990	—	1.82	1.82	12.24	^a 7.57	5.00	15.00	11.71	4.80	^a 6.80	^a 6.40	—	^a 2.87	^a 6.40	4.30	26.83	^a 9.91
1991	—	1.80	1.80	14.10	^a 7.87	5.17	15.41	10.40	3.21	^a 6.43	^a 6.80	—	2.80	^a 5.97	0.44	27.14	^a 9.83
1992	—	1.70	1.70	18.30	^a 7.50	4.80	14.70	10.85	2.82	^a 6.70	6.60	—	2.77	^a 5.80	0.20	27.81	^a 9.66
1993	—	1.74	1.74	15.00	^a 7.35	4.70	^a 10.51	^a 11.80	2.80	^a 5.42	^a 5.80	—	2.70	^a 6.00	0.40	31.34	^a 11.00
1994	—	2.80	2.00	12.80	7.43	4.39	10.74	11.27	2.80	5.74	5.80	—	2.50	5.81	3.82	31.41	10.70
Expenditures in Million Dollars																	
1970	—	—	—	—	8.9	98.4	8.5	90.2	24.7	^a 6.3	207.0	—	0.2	207.2	-17.4	67.8	277.2
1971	—	—	—	—	11.0	70.1	10.2	104.4	33.0	^a 6.7	235.3	—	0.1	235.5	-23.1	101.4	312.0
1972	—	—	—	—	10.8	60.7	9.7	100.1	30.0	^a 7.1	245.3	—	0.1	245.4	-20.5	113.1	320.0
1973	—	—	—	—	13.2	84.2	16.1	125.3	48.1	^a 7.1	293.0	—	0.2	293.2	-37.1	131.7	357.5
1974	—	—	—	—	22.0	100.0	16.7	104.1	65.0	^a 10.4	410.5	—	0.8	410.8	-50.0	160.7	510.6
1975	—	—	—	—	35.0	170.3	18.2	193.8	100.5	^a 12.9	522.2	—	0.2	522.4	-82.4	225.3	625.3
1976	—	—	—	—	33.6	165.6	16.5	208.7	111.5	^a 16.6	570.4	—	0.3	570.7	-90.9	243.4	717.2
1977	—	—	—	—	47.2	240.9	16.8	228.9	142.4	^a 18.4	670.4	—	0.3	670.7	-121.5	277.4	820.5
1978	—	—	—	—	63.5	230.1	14.9	249.4	188.2	^a 18.8	743.9	—	—	743.9	-143.4	323.6	924.0
1979	—	—	—	—	60.2	205.4	37.1	207.2	104.0	^a 18.9	1,040.6	—	—	1,040.6	-101.5	363.7	1,231.8
1980	—	—	—	30.4	330.7	400.4	34.3	410.7	300.6	^a 20.1	1,400.6	—	—	1,400.6	-275.0	480.0	1,720.0
1981	—	—	—	43.8	355.0	420.4	26.1	470.0	505.3	^a 27.2	1,720.7	—	0.2	1,720.8	-493.5	720.2	2,690.5
1982	—	2.4	2.4	41.6	227.3	307.0	41.4	408.0	400.0	^a 22.1	1,550.5	—	0.4	1,550.9	-421.7	792.1	1,941.2
1983	—	2.2	2.2	41.2	^a 105.8	^a 430.8	44.7	445.0	413.6	^a 25.0	^a 1,400.4	—	0.3	^a 1,510.1	-302.4	880.1	^a 1,813.0
1984	—	2.0	2.0	41.2	^a 118.0	^a 475.8	5.0	458.0	428.6	^a 25.0	^a 1,511.0	—	0.4	^a 1,524.8	-302.4	882.8	^a 1,854.0
1985	—	2.4	2.4	38.1	^a 211.1	482.1	8.5	494.3	395.4	^a 27.8	^a 1,547.9	—	0.2	^a 1,587.9	-302.5	854.7	^a 1,980.0
1986	—	0.8	0.8	32.0	^a 187.1	248.5	5.0	380.5	250.0	^a 20.4	^a 1,000.0	—	—	^a 1,131.5	-215.0	630.6	^a 1,454.5
1987	—	3.1	3.1	33.1	^a 142.5	277.1	7.2	406.1	287.0	^a 20.0	^a 1,140.6	—	—	^a 1,186.6	-200.6	570.0	^a 1,486.0
1988	—	2.2	2.2	32.4	^a 210.8	271.7	0.0	426.0	333.7	^a 20.0	^a 1,230.0	—	—	^a 1,273.8	-244.6	585.5	^a 1,590.0
1989	—	1.4	1.4	23.2	^a 224.8	341.8	10.0	470.0	300.0	^a 27.0	^a 1,422.8	—	(*)	^a 1,457.2	-202.0	620.0	^a 1,803.0
1990	—	1.3	1.3	30.5	^a 310.5	420.3	0.0	530.3	400.7	^a 30.7	^a 1,700.3	—	0.4	^a 1,704.3	-371.0	732.1	^a 2,144.7
1991	—	1.7	1.7	41.2	^a 331.0	353.4	10.0	490.0	290.3	^a 30.3	^a 1,455.7	—	0.0	^a 1,537.4	-271.5	700.0	^a 2,004.0
1992	—	2.0	2.0	30.5	^a 235.4	270.0	31.8	540.1	281.2	^a 31.3	^a 1,388.2	—	0.2	^a 1,416.0	-242.0	600.0	^a 1,975.0
1993	—	3.1	3.1	37.2	^a 307.0	241.2	^a 18.0	^a 527.5	^a 225.7	^a 28.2	^a 1,240.0	—	7.8	^a 1,297.7	-230.5	942.7	^a 1,970.1
1994	—	3.7	3.7	37.8	210.2	231.8	30.4	553.6	210.7	30.2	1,274.5	—	7.8	1,302.1	-104.0	936.3	2,004.0

^a Liquidized petroleum gases.^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (included and used at electric utilities), and the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this line between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1988.^a Utilities used biomass fuels at no charge or received a fee for accepting them.

* Rollover date.

—No comparison, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 78. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Hawaii

Year	Primary Energy								Electricity	Total Energy ^c		
	Coal	Natural Gas	Petroleum				Biomass ^b	Total ^a				
			Distillate Fuel	Kerosene	LPG ^a	Total						
Prices in Nominal Dollars per Million Btu												
1970	—	—	1.27	—	4.12	4.11	—	4.11	8.22	7.07		
1971	—	—	1.34	—	4.45	4.44	—	4.44	8.85	7.40		
1972	—	—	1.35	—	4.71	4.70	—	4.70	8.75	7.71		
1973	—	—	1.57	—	7.38	7.38	—	7.38	9.59	9.02		
1974	—	—	2.49	—	7.72	7.71	—	7.71	11.09	10.28		
1975	—	—	2.80	—	8.20	8.19	—	8.19	14.59	13.13		
1976	—	—	3.11	—	8.48	8.48	—	8.48	15.05	12.99		
1977	—	—	3.21	—	7.14	7.13	—	7.13	15.40	14.12		
1978	—	—	3.27	—	7.27	7.26	—	7.26	18.31	15.75		
1979	—	—	4.48	—	9.59	9.57	—	9.57	19.79	18.68		
1980	—	15.80	4.92	—	11.69	11.81	—	12.48	23.64	26.08		
1981	—	16.24	7.90	—	12.35	12.33	—	14.10	35.57	29.28		
1982	—	16.89	—	—	13.28	13.28	—	14.48	38.80	31.00		
1983	—	16.10	7.88	—	13.83	13.81	—	14.75	34.88	28.73		
1984	—	15.91	7.61	—	13.63	13.55	—	15.12	34.57	31.16		
1985	—	15.74	7.57	—	15.04	15.81	—	16.13	33.39	36.99		
1986	—	14.82	5.85	—	14.16	14.08	—	14.55	27.17	25.59		
1987	—	14.99	5.83	—	14.02	13.93	—	14.49	27.83	26.80		
1988	—	14.55	5.77	—	13.84	13.67	—	14.19	25.69	24.35		
1989	—	14.50	5.49	—	17.07	17.02	—	15.65	27.19	25.71		
1990	—	15.37	7.68	—	17.94	17.80	4.75	19.87	38.01	38.09		
1991	—	21.23	7.48	14.47	18.36	18.31	4.75	11.17	30.63	20.70		
1992	—	16.80	6.91	13.95	17.08	17.05	4.75	11.81	31.95	20.68		
1993	—	16.49	7.29	14.02	16.64	16.42	4.75	9.80	35.97	24.28		
1994	—	16.01	6.82	13.18	19.97	18.77	4.75	9.85	36.45	24.80		
Expenditures in Million Nominal Dollars												
1970	—	—	(8)	—	7.0	7.0	—	7.0	98.8	43.0		
1971	—	—	(8)	—	8.8	8.8	—	8.8	41.0	48.9		
1972	—	—	(8)	—	8.5	8.5	—	8.5	45.2	53.7		
1973	—	—	(8)	—	13.7	13.7	—	13.7	52.3	66.0		
1974	—	—	(8)	—	13.8	13.8	—	13.8	62.8	75.5		
1975	—	—	(8)	—	7.4	7.4	—	7.4	62.8	80.1		
1976	—	—	(8)	—	12.1	12.1	—	12.1	69.2	101.3		
1977	—	—	(8)	—	13.9	13.9	—	13.9	98.5	112.3		
1978	—	—	(8)	—	13.3	13.3	—	13.3	111.2	124.5		
1979	—	—	0.1	—	26.2	26.2	—	26.2	124.9	150.6		
1980	—	18.4	(8)	—	18.4	18.4	—	36.8	148.5	188.3		
1981	—	20.1	(8)	—	18.3	18.3	—	38.4	233.5	271.9		
1982	—	19.6	—	—	18.4	18.4	—	37.2	242.6	279.7		
1983	—	19.5	(8)	—	22.6	22.6	—	41.1	220.7	261.8		
1984	—	18.2	(8)	—	4.5	4.5	—	22.7	216.7	239.4		
1985	—	11.3	(8)	—	5.5	5.5	—	16.8	218.4	230.3		
1986	—	9.3	(8)	—	4.9	4.9	—	14.3	181.9	196.1		
1987	—	9.4	(8)	—	6.1	6.2	—	16.8	195.4	211.0		
1988	—	6.8	0.1	—	6.8	6.8	—	16.7	190.0	205.7		
1989	—	9.6	(8)	—	9.6	9.6	—	17.6	208.0	225.6		
1990	—	9.3	(8)	—	8.3	8.3	4.75	14.1	208.0	242.1		
1991	—	12.5	(8)	(8)	8.7	8.7	6.9	26.1	252.0	280.1		
1992	—	9.9	(8)	(8)	25.5	25.5	7.3	42.7	265.0	308.8		
1993	—	9.8	0.1	(8)	5.3	5.3	6.2	21.2	302.9	324.2		
1994	—	9.7	(8)	(8)	5.5	5.5	6.0	21.4	319.0	339.3		

a. Liquefied petroleum gases.

b. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

c. These are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.

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

R=Revised data.

—No consumption.

(8)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 79. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Hawaii

Year	Primary Energy								Electricity	Total Energy ^b		
	Coal	Natural Gas	Petroleum					Total				
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel					
Prices in Nominal Dollars per Million Btu												
1970	—	—	1.12	0.86	0.81	3.32	0.42	1.55	1.38	6.82		
1971	—	—	1.18	0.87	0.90	3.35	0.49	1.49	1.49	10.53		
1972	—	—	1.18	0.88	0.97	3.35	0.55	1.54	1.54	10.64		
1973	—	—	1.41	1.18	1.05	3.61	0.68	1.83	1.83	11.30		
1974	—	—	2.37	2.50	1.89	4.78	0.89	2.68	2.68	12.88		
1975	—	—	2.80	2.68	1.81	5.44	1.80	3.37	3.37	16.50		
1976	—	—	2.80	2.42	2.08	5.65	1.55	3.21	3.21	17.18		
1977	—	—	3.00	3.07	2.46	5.88	1.89	3.46	3.46	18.90		
1978	—	—	3.04	3.12	2.34	6.22	2.12	3.81	3.81	20.57		
1979	—	—	4.38	4.31	4.11	7.79	2.72	4.94	4.94	22.13		
1980	—	12.70	6.80	—	3.81	10.61	3.88	8.80	8.75	28.40		
1981	—	15.37	7.54	—	2.88	12.47	6.50	7.52	10.99	37.83		
1982	—	14.37	7.49	—	4.66	12.28	6.18	7.41	10.95	39.53		
1983	—	14.37	6.82	8.77	4.97	11.72	5.50	7.08	11.25	35.73		
1984	—	16.82	6.86	7.14	4.83	11.80	5.27	7.00	12.81	36.75		
1985	—	19.34	6.89	7.02	4.83	11.14	4.80	7.08	18.92	34.41		
1986	—	11.08	3.49	4.36	9.06	8.63	2.81	4.36	7.94	27.29		
1987	—	11.01	4.12	3.01	8.52	9.47	3.33	4.50	8.99	27.52		
1988	—	10.89	3.79	4.62	9.58	9.65	2.71	3.13	4.10	25.80		
1989	—	10.59	4.75	5.65	8.08	10.42	3.08	3.87	4.75	25.97		
1990	—	11.46	5.87	5.48	9.83	11.71	3.85	4.76	6.21	29.67		
1991	—	12.37	5.19	6.08	9.29	10.40	3.11	5.88	8.04	30.23		
1992	—	12.43	4.91	6.10	9.26	10.95	2.64	3.75	5.41	30.80		
1993	—	12.15	5.14	8.37	9.21	11.08	2.82	5.18	8.91	34.17		
1994	—	11.80	4.72	5.87	10.10	11.27	2.86	3.87	6.43	34.14		
Expenditures in Million Nominal Dollars												
1970	—	—	1.1	0.4	0.3	2.3	0.1	4.2	4.2	28.1		
1971	—	—	1.0	0.2	0.3	1.4	0.1	3.1	3.1	29.4		
1972	—	—	0.9	0.2	0.3	1.5	0.1	2.9	2.9	33.3		
1973	—	—	1.1	0.2	0.3	1.8	0.1	3.5	3.5	38.2		
1974	—	—	1.9	0.6	0.6	1.6	0.1	4.1	4.1	46.2		
1975	—	—	1.3	0.8	0.4	2.8	0.2	5.3	6.3	62.5		
1976	—	—	1.8	1.3	0.7	2.8	0.2	6.8	6.5	69.8		
1977	—	—	2.1	2.1	0.8	3.0	0.4	8.4	8.4	81.1		
1978	—	—	2.2	1.9	0.8	3.3	0.4	8.5	8.5	94.3		
1979	—	—	6.7	0.1	2.0	4.1	0.3	13.2	13.2	108.9		
1980	—	21.6	16.3	—	1.1	3.1	0.8	20.8	41.6	131.7		
1981	—	23.7	7.8	—	0.8	3.9	2.2	14.7	38.4	187.3		
1982	—	22.6	2.4	—	1.1	3.8	4.1	11.4	34.2	189.9		
1983	—	22.6	3.8	(9)	1.4	3.0	0.3	8.4	31.2	175.7		
1984	—	23.0	3.9	0.1	0.3	2.6	0.8	7.8	30.7	195.0		
1985	—	28.8	4.7	0.1	0.8	2.8	0.8	8.7	38.5	189.3		
1986	—	22.7	3.7	0.1	0.8	2.3	1.2	7.8	30.5	170.5		
1987	—	23.7	11.6	0.1	0.7	2.2	1.1	15.6	39.4	182.4		
1988	—	23.6	13.0	(5)	0.7	2.7	20.0	46.8	70.4	181.0		
1989	—	24.4	13.7	(5)	0.7	2.8	28.8	45.8	70.2	188.2		
1990	—	27.2	16.5	(8)	0.7	3.8	20.1	41.6	88.2	228.1		
1991	—	28.7	18.5	(5)	0.8	2.7	0.4	22.3	61.0	234.0		
1992	—	28.6	12.5	(5)	2.4	2.6	19.0	38.5	65.1	254.0		
1993	—	27.4	8.4	(5)	0.5	0.6	0.6	10.2	37.5	282.1		
1994	—	27.3	6.9	(5)	0.8	0.8	7.3	15.5	42.8	303.0		

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R=Revised data.

—No consumption.

(9)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 80. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Hawaii

Year	Primary Energy															Electricity	Total Energy ^c							
	Coal			Natural Gas	Petroleum									Miscellaneous ^d										
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total											
Prices in HAWAIIAN DOLLARS per Million Btu																								
1970	—	—	—	—	0.59	0.74	0.85	0.84	5.89	3.38	0.42	0.31	0.89	—	0.89	4.99	1.55							
1971	—	—	—	—	0.81	0.76	0.87	0.86	5.27	3.30	0.46	0.31	0.91	—	0.91	4.99	1.57							
1972	—	—	—	—	0.81	0.77	0.88	0.87	5.59	3.26	0.47	0.30	0.92	—	0.92	5.04	1.59							
1973	—	—	—	—	0.83	1.02	1.19	1.05	5.83	3.61	0.50	0.30	1.00	—	1.00	5.09	1.61							
1974	—	—	—	—	1.67	2.17	2.59	1.80	7.22	4.70	1.79	0.82	1.87	—	1.87	6.89	2.44							
1975	—	—	—	—	1.77	2.22	2.59	1.91	7.46	4.46	1.82	1.39	2.86	—	2.86	6.94	2.49							
1976	—	—	—	—	1.57	2.06	2.42	2.09	7.06	5.05	1.99	1.53	2.84	—	2.84	10.08	3.67							
1977	—	—	—	—	1.72	2.08	2.07	2.46	6.97	5.89	2.08	1.86	2.29	—	2.29	11.37	4.07							
1978	—	—	—	—	1.99	2.67	3.12	2.34	7.80	6.22	2.59	1.86	2.40	—	2.40	13.10	4.65							
1979	—	—	—	—	2.43	3.81	4.31	4.11	10.21	7.79	2.95	1.85	3.49	—	3.49	14.76	5.05							
1980	—	—	—	—	3.81	5.46	6.34	3.84	14.26	10.81	3.82	2.49	4.44	—	4.44	18.66	6.67							
1981	—	—	—	—	4.68	6.42	—	2.89	10.80	12.47	4.53	3.19	5.24	—	5.24	20.55	7.03							
1982	—	2.07	2.07	—	3.97	6.62	—	4.58	17.25	12.28	5.17	2.28	6.87	—	6.87	21.85	7.33							
1983	—	2.11	2.11	—	4.18	6.43	6.77	4.97	16.98	11.72	5.19	2.80	6.29	—	6.29	27.67	9.22							
1984	—	2.46	2.46	—	4.31	6.25	7.14	4.86	17.69	11.60	6.27	2.27	6.52	—	6.52	29.34	9.82							
1985	—	2.15	2.15	—	4.47	6.14	7.02	4.85	17.61	11.44	6.86	2.61	6.97	—	6.97	25.88	8.65							
1986	—	2.09	2.09	—	4.49	6.02	6.95	4.85	16.59	9.93	2.81	1.80	6.47	—	6.47	23.89	8.13							
1987	—	1.95	1.95	—	4.24	6.09	6.01	4.82	12.79	9.47	3.30	1.50	6.09	—	6.09	20.68	7.03							
1988	—	1.81	1.81	—	3.95	6.04	6.02	4.85	14.61	9.95	2.71	1.45	6.37	—	6.37	18.20	6.21							
1989	—	1.76	1.76	—	3.18	6.04	6.05	4.85	14.46	10.42	3.08	1.74	6.89	—	6.89	16.42	5.53							
1990	—	1.82	1.82	—	2.15	6.04	6.05	4.85	14.69	11.71	3.83	2.82	6.89	4.19	6.89	22.21	7.33							
1991	—	1.80	1.80	—	3.29	6.32	6.00	4.85	16.79	10.49	3.11	2.82	6.89	1.21	6.89	22.40	7.33							
1992	—	1.70	1.70	—	2.81	6.34	6.00	4.85	18.43	10.95	2.84	2.73	6.89	1.07	6.89	22.98	7.51							
1993	—	1.74	1.74	—	2.94	6.57	6.37	4.85	18.94	11.69	2.92	2.24	6.89	1.04	6.89	23.20	7.53							
1994	—	2.09	2.09	—	3.11	5.19	5.93	10.18	18.18	11.27	2.89	2.81	5.89	0.95	4.70	29.82	10.02							
Expenditures in HAWAIIAN DOLLARS																								
1970	—	—	—	—	1.4	3.8	4.5	1.2	8.1	4.9	3.5	0.8	16.7	—	16.7	28.2	9.8							
1971	—	—	—	—	1.5	2.7	0.2	1.8	0.8	1.1	5.9	0.7	13.8	—	13.8	31.8	11.0							
1972	—	—	—	—	1.9	2.8	0.1	0.8	0.7	1.3	6.3	0.6	14.4	—	14.4	34.7	11.8							
1973	—	—	—	—	1.8	4.0	0.1	1.8	0.7	1.2	7.8	0.7	16.6	—	16.6	40.1	13.5							
1974	—	—	—	—	2.8	6.0	0.5	2.1	0.9	1.7	13.2	0.9	29.8	—	29.8	50.9	17.0							
1975	—	—	—	—	4.4	7.9	0.4	2.4	1.3	1.8	11.7	1.7	30.8	—	30.8	66.1	21.9							
1976	—	—	—	—	4.2	6.4	0.4	2.4	1.4	1.8	9.4	2.3	26.4	—	26.4	84.6	28.2							
1977	—	—	—	—	3.8	8.6	0.5	1.7	0.8	1.8	12.2	2.8	30.3	—	30.3	97.9	32.2							
1978	—	—	—	—	5.7	13.2	0.7	0.5	1.9	1.9	9.9	2.4	33.7	—	33.7	118.1	39.4							
1979	—	—	—	—	4.3	34.5	0.8	5.8	1.4	2.8	16.6	2.7	65.1	—	65.1	132.2	43.4							
1980	—	—	—	—	6.8	49.8	0.3	11.3	1.7	2.8	28.4	2.7	86.1	—	86.1	176.7	57.7							
1981	—	—	—	—	6.7	51.3	—	6.5	2.1	3.4	35.8	1.7	106.4	—	106.4	318.4	104.8							
1982	—	2.4	2.4	—	4.5	64.7	—	21.3	1.8	3.3	58.6	1.4	158.6	—	158.6	328.7	107.7							
1983	—	2.2	2.2	—	7.2	12.3	69	19.8	1.9	2.4	9.8	1.5	64.9	—	64.9	299.7	96.9							
1984	—	2.0	2.0	—	5.9	13.4	69	6.1	2.1	5.2	33.3	1.7	68.6	—	68.6	279.9	90.5							
1985	—	2.4	2.4	—	6.1	19.7	80	8.2	1.9	5.1	38.9	1.5	71.6	—	71.6	282.9	90.5							
1986	—	0.9	0.9	—	6.1	11.5	70	8.2	1.7	5.1	38.3	0.4	67.4	—	67.4	286.3	91.5							
1987	—	5.1	5.1	—	11.2	19.4	69	8.3	1.5	5.3	24.4	0.8	62.9	—	62.9	288.9	92.9							
1988	—	2.2	2.2	—	9.2	17.7	69	8.3	1.7	5.5	25.9	1.0	61.3	—	61.3	294.5	95.1							
1989	—	1.4	1.4	—	6.3	14.7	69	8.3	1.7	7.0	18.2	1.2	68.4	—	68.4	293.5	94.4							
1990	—	4.3	4.3	—	8.8	28.5	69	8.4	1.8	8.2	29.1	1.4	75.4	1.9	75.4	304.5	99.5							
1991	—	1.7	1.7	—	8.4	21.3	69	8.9	1.9	8.2	23.9	1.7	66.2	2.9	66.2	274.0	90.8							
1992	—	2.0	2.0	—	8.0	19.8	69	2.4	2.2	8.7	18.8	2.4	59.1	1.8	59.1	282.8	90.8							
1993	—	3.1	3.1	—	8.7	14.4	69	12.9	2.2	14.0	12.9	2.9	57.1	1.7	57.1	317.7	100.8							
1994	—	3.7	3.7	—	8.4	10.4	69	31.8	2.3	14.5	13.1	2.4	53.0	1.7	53.0	215.3	70.8							

^a Liquefied petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of hydroelectric beginning in 1990.

R—Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(c)—Value less than 0.05 million HAWAIIAN DOLLARS.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 81. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Hawaii

Year	Primary Energy										Electricity	Total Energy		
	Coal	Natural Gas	Petroleum							Total				
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel					
Prices in Nominal Dollars per Million Btu														
1970	—	—	2.17	2.37	2.78	6.81	5.88	3.32	6.37	1.34	—	1.34		
1971	—	—	2.21	1.46	0.77	0.96	5.27	3.36	0.43	1.35	—	1.35		
1972	—	—	2.19	1.47	0.79	0.97	5.56	3.36	0.46	1.36	—	1.36		
1973	—	—	2.39	1.89	0.91	1.06	6.33	3.81	0.60	1.58	—	1.58		
1974	—	—	3.23	2.35	1.57	1.89	7.22	4.78	0.76	2.43	—	2.43		
1975	—	—	3.45	2.63	2.04	1.91	7.44	5.44	1.37	2.86	—	2.86		
1976	—	—	3.69	2.85	2.32	2.08	7.65	5.65	1.41	3.24	—	3.24		
1977	—	—	3.67	3.13	2.62	2.46	8.87	5.88	1.70	3.40	—	3.40		
1978	—	—	4.28	3.42	2.85	2.34	7.40	6.22	1.69	3.77	—	3.77		
1979	—	—	5.73	4.79	3.79	4.11	10.21	7.79	2.40	4.80	—	4.80		
1980	—	—	9.82	7.39	6.25	3.81	14.38	19.81	3.27	7.48	—	7.48		
1981	—	—	10.84	8.66	7.56	2.89	18.06	12.47	5.60	8.16	—	8.16		
1982	—	—	10.92	8.51	7.57	4.56	17.55	12.28	5.88	8.29	—	8.29		
1983	—	—	10.44	8.76	^a 6.80	4.97	16.88	11.72	5.19	^a 8.47	—	^a 8.47		
1984	—	—	10.27	8.69	^a 6.55	4.90	17.03	11.60	5.20	^a 8.18	—	^a 8.18		
1985	—	—	9.98	8.53	6.21	6.63	17.81	11.94	4.98	7.81	—	7.81		
1986	—	—	8.41	7.31	4.98	8.06	16.59	9.63	2.62	6.41	—	6.41		
1987	—	—	7.55	6.21	4.38	8.52	12.79	8.47	3.18	6.38	—	6.38		
1988	—	—	7.41	7.86	4.04	8.58	14.81	8.85	2.40	6.22	—	6.22		
1989	—	—	8.20	8.70	4.09	8.80	14.48	10.42	2.81	6.70	—	6.70		
1990	—	—	8.32	8.69	5.39	8.83	14.86	11.71	3.81	7.83	—	7.83		
1991	—	—	8.71	10.11	5.17	8.29	16.79	16.40	2.85	7.86	—	7.86		
1992	—	—	8.54	9.66	4.80	9.26	18.43	18.96	2.58	7.01	—	7.01		
1993	—	—	8.24	10.21	4.79	9.21	18.94	^a 11.08	2.72	^a 7.30	—	^a 7.30		
1994	—	—	7.98	10.15	4.31	9.29	19.18	11.27	2.59	7.20	—	7.20		
Expenditures in Million Nominal Dollars														
1970	—	—	1.5	5.7	58.4	8.1	2.1	88.8	4.1	167.8	—	167.8		
1971	—	—	1.6	7.0	70.1	0.1	1.9	101.9	4.9	187.5	—	187.5		
1972	—	—	1.6	6.2	89.7	0.1	2.2	108.9	3.9	190.0	—	190.0		
1973	—	—	1.8	6.8	84.2	0.1	2.1	122.3	5.2	222.4	—	222.4		
1974	—	—	2.0	12.7	130.9	0.2	2.7	160.9	3.8	315.1	—	315.1		
1975	—	—	2.8	19.7	179.3	0.8	3.4	189.2	8.7	398.6	—	398.6		
1976	—	—	2.3	20.7	185.6	0.2	3.5	204.4	10.1	426.8	—	426.8		
1977	—	—	2.9	28.3	218.9	0.2	3.1	284.3	15.8	493.5	—	493.5		
1978	—	—	3.0	35.0	279.1	0.3	3.7	344.2	16.8	544.9	—	544.9		
1979	—	—	4.4	108.4	225.4	0.1	5.2	391.1	18.8	783.5	—	783.5		
1980	—	—	8.1	148.5	482.4	0.4	6.5	484.9	28.7	1,068.3	—	1,068.3		
1981	—	—	18.0	188.8	424.4	0.8	7.8	463.6	43.9	1,136.1	—	1,136.1		
1982	—	—	7.5	128.4	387.8	0.7	6.8	461.5	37.8	949.8	—	949.8		
1983	—	—	8.2	133.8	^a 430.8	0.8	7.8	440.3	47.7	^a 908.4	—	^a 908.4		
1984	—	—	7.5	70.1	^a 476.8	0.1	7.8	453.0	49.2	^a 1,057.3	—	^a 1,057.3		
1985	—	—	7.8	181.7	462.1	0.2	7.2	486.4	44.8	1,119.8	—	1,119.8		
1986	—	—	11.8	129.4	348.5	0.2	8.3	381.0	29.7	812.9	—	812.9		
1987	—	—	9.5	82.7	277.1	0.2	5.8	388.5	21.8	796.4	—	796.4		
1988	—	—	10.5	151.3	271.7	0.3	6.4	417.8	25.6	883.5	—	883.5		
1989	—	—	12.0	186.8	341.8	0.3	6.6	468.9	39.5	1,035.7	—	1,035.7		
1990	—	—	12.8	218.6	425.3	0.4	6.7	518.6	38.8	1,341.8	—	1,341.8		
1991	—	—	11.6	248.7	382.4	0.5	8.9	479.1	46.7	1,165.9	—	1,165.9		
1992	—	—	10.5	145.7	276.6	1.2	8.2	486.8	61.0	1,082.1	—	1,082.1		
1993	—	—	8.3	121.0	241.2	0.3	8.1	^a 512.8	48.0	^a 938.7	—	^a 938.7		
1994	—	—	8.4	139.7	231.6	0.5	8.6	538.4	48.6	975.7	—	975.7		

^a Liquidated petroleum gases.^a Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of

Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 82. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Hawaii

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biofuels	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	—	—	0.40	0.43	—	0.40	—	0.68	0.41
1971	—	—	0.48	0.53	—	0.48	—	0.89	0.49
1972	—	—	0.55	0.60	—	0.55	—	0.72	0.55
1973	—	—	0.67	0.76	—	0.67	—	0.77	0.67
1974	—	—	0.86	1.01	—	0.86	—	0.84	0.86
1975	—	—	1.57	1.71	—	1.58	—	0.82	1.58
1976	—	—	1.55	1.88	—	1.55	—	0.86	1.58
1977	—	—	1.85	2.25	—	1.87	—	1.04	1.87
1978	—	—	2.11	2.72	—	2.10	—	—	2.16
1979	—	—	2.63	3.54	—	2.60	—	—	2.69
1980	—	—	3.87	5.19	—	3.97	—	—	3.87
1981	—	—	6.51	8.80	—	6.69	—	1.24	6.84
1982	—	—	6.20	9.03	—	6.35	—	1.28	6.35
1983	—	—	5.53	7.00	—	5.61	—	1.12	5.59
1984	—	—	5.41	6.99	—	5.48	—	1.26	5.46
1985	—	—	4.98	6.40	—	4.96	—	0.79	4.94
1986	—	—	2.86	4.68	—	2.98	—	—	2.98
1987	—	—	3.44	4.83	—	3.54	—	—	3.54
1988	—	—	3.87	3.82	—	2.95	—	—	2.95
1989	—	—	3.29	3.61	—	3.32	—	(^b)	3.32
1990	—	—	4.18	5.78	—	4.33	—	(^b)	4.33
1991	—	—	3.31	4.34	—	3.44	—	—	3.44
1992	—	—	2.92	5.18	—	3.26	—	—	3.26
1993	—	—	3.09	5.27	—	3.49	—	—	3.49
1994	—	—	2.71	4.36	—	3.02	—	—	3.02
Expenditures in Million Nominal Dollars									
1970	—	—	17.8	0.2	—	17.2	—	0.2	17.4
1971	—	—	22.8	0.3	—	22.8	—	0.1	23.1
1972	—	—	28.5	0.9	—	29.4	—	0.1	29.5
1973	—	—	35.8	1.1	—	36.9	—	0.2	37.1
1974	—	—	48.4	2.1	—	50.5	—	0.3	50.8
1975	—	—	87.8	4.3	—	92.2	—	0.3	92.4
1976	—	—	91.7	4.8	—	96.6	—	0.3	96.9
1977	—	—	114.1	7.2	—	121.3	—	0.3	121.5
1978	—	—	131.1	12.3	—	143.4	—	—	143.4
1979	—	—	155.1	16.4	—	181.5	—	—	181.5
1980	—	—	246.9	26.8	—	275.9	—	—	275.9
1981	—	—	423.4	40.0	—	463.3	—	0.2	463.5
1982	—	—	389.6	31.8	—	421.4	—	0.4	421.7
1983	—	—	355.7	26.4	—	382.1	—	0.3	382.4
1984	—	—	351.3	30.7	—	382.0	—	0.4	382.4
1985	—	—	314.2	28.0	—	342.3	—	0.2	342.6
1986	—	—	183.4	22.5	—	215.9	—	—	215.9
1987	—	—	240.7	20.9	—	260.6	—	—	260.6
1988	—	—	212.2	28.3	—	240.5	—	—	240.5
1989	—	—	253.5	29.3	—	282.8	—	(^b)	282.8
1990	—	—	318.8	65.0	—	371.8	—	(^b)	371.8
1991	—	—	239.3	43.2	—	271.5	—	—	271.5
1992	—	—	184.3	58.6	—	242.9	—	—	242.9
1993	—	—	165.2	64.2	—	230.3	—	—	230.3
1994	—	—	141.7	83.2	—	194.8	—	—	194.8

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^b Utilities used biomass fuels at no charge or received a fee for accepting them.

—No consumption.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 83. Energy Price and Expenditure Estimates by Source, 1970-1994, Idaho

Year	Primary Energy													Electricity Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c										
	Coal			Natural Gas	Petroleum						Nuclear Fuel	Biofuels	Total ^c													
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b																
Prices in Nominal Dollars per Million Btu																										
1970	—	8.58	8.58	8.86	1.01	0.76	2.41	2.91	0.34	\$1.18	1.82	—	1.80	0.56	2.95	1.77										
1971	—	0.80	0.80	0.73	1.08	0.80	2.41	2.80	0.55	\$1.34	1.87	—	1.51	0.47	3.09	1.60										
1972	—	0.80	0.80	0.79	1.07	0.79	2.49	2.81	0.54	\$1.33	1.99	—	1.54	0.78	3.13	1.84										
1973	—	0.57	0.57	0.61	1.33	0.94	4.52	3.20	0.73	\$1.48	2.38	—	1.79	1.07	3.28	2.05										
1974	—	0.86	0.86	0.87	2.43	1.62	2.93	4.30	2.11	\$2.58	3.29	—	2.48	1.15	3.41	2.67										
1975	—	8.98	8.98	1.43	2.55	2.72	3.81	4.91	2.87	\$2.73	3.64	—	2.80	1.88	4.11	3.03										
1976	—	1.22	1.22	1.78	2.72	2.32	3.86	4.98	1.87	\$2.68	3.80	—	3.11	1.82	4.65	3.41										
1977	—	1.27	1.27	2.15	2.68	2.71	4.58	5.24	2.10	\$2.74	4.02	—	3.42	1.86	5.23	3.78										
1978	—	1.60	1.60	2.45	3.06	2.92	4.80	5.50	2.40	\$3.01	4.24	—	3.70	2.68	6.42	4.01										
1979	—	1.83	1.83	2.75	4.57	4.08	4.82	7.26	2.63	\$4.12	5.88	—	4.69	2.81	8.12	4.97										
1980	—	1.78	1.78	3.67	6.84	5.88	6.39	9.78	4.45	\$5.89	8.11	—	6.57	3.87	7.39	6.75										
1981	—	1.92	1.92	4.10	7.77	7.67	8.22	11.28	4.93	\$7.98	9.74	—	7.81	4.68	7.91	7.69										
1982	—	2.05	2.05	5.04	7.65	7.38	7.78	10.80	5.20	\$7.39	9.38	—	7.87	6.80	9.88	8.03										
1983	—	2.11	2.11	5.51	\$7.42	\$7.42	8.49	9.48	5.13	\$8.85	\$9.60	—	\$7.44	6.25	9.22	\$7.93										
1984	—	2.13	2.13	5.17	\$7.70	\$6.95	8.37	9.34	4.15	\$8.18	\$9.58	—	\$7.33	6.13	10.09	\$8.06										
1985	—	1.78	1.78	5.87	\$7.66	\$6.88	8.45	9.31	3.67	\$7.47	\$8.82	—	\$7.24	5.68	10.86	\$8.17										
1986	—	2.01	2.01	4.22	\$5.56	4.40	7.91	7.07	2.98	\$6.94	\$6.43	—	\$5.88	4.25	10.94	\$7.04										
1987	—	1.97	1.97	5.66	\$5.51	4.39	8.05	7.26	2.67	\$6.82	\$6.56	—	\$6.12	2.78	10.81	\$7.35										
1988	—	1.78	1.78	4.49	\$5.76	4.24	8.03	7.81	1.83	\$6.88	\$6.78	—	\$6.82	4.07	10.84	\$7.25										
1989	—	1.82	1.82	3.57	\$6.88	4.93	8.92	8.21	1.68	\$4.88	\$7.32	—	\$6.88	4.45	11.10	\$7.40										
1990	—	1.78	1.78	3.43	\$7.84	6.07	10.08	9.15	2.51	\$4.18	\$8.13	—	\$6.38	4.38	11.15	\$7.84										
1991	—	1.87	1.87	3.82	\$7.08	5.80	10.31	9.13	2.31	\$6.33	\$7.98	—	\$6.19	5.04	11.27	\$7.40										
1992	—	1.80	1.80	3.62	\$7.21	5.44	10.09	9.52	1.78	\$4.72	\$8.14	—	\$6.38	4.83	11.35	\$7.82										
1993	—	1.79	1.79	3.77	\$7.57	5.42	10.09	\$9.42	2.93	\$4.58	\$9.18	—	\$6.38	4.90	11.71	\$7.64										
1994	—	1.87	1.87	4.25	7.34	5.01	9.04	9.83	2.24	4.40	\$8.10	—	1.85	6.51	11.74	7.77										

Expenditures in Million Nominal Dollars																
1970	—	4.7	4.7	29.5	32.9	3.9	9.6	162.8	9.6	\$12.4	262.2	—	236.4	(a)	108.8	342.2
1971	—	7.2	7.2	34.6	34.9	4.3	10.6	147.2	1.0	\$13.2	211.3	—	253.9	(a)	115.7	369.0
1972	—	6.4	6.4	43.7	37.3	4.2	13.2	156.0	0.8	\$15.6	227.0	—	277.0	(a)	127.1	404.2
1973	—	6.1	6.1	44.1	50.2	4.8	20.2	185.6	1.1	\$16.1	276.0	—	329.2	(a)	133.3	461.4
1974	—	9.8	9.8	48.4	99.9	8.7	13.6	241.3	7.8	\$24.1	396.3	—	454.5	-0.1	150.3	604.7
1975	—	13.1	13.1	84.8	112.3	11.0	16.7	285.8	8.8	\$22.8	468.2	—	563.8	-8.1	175.4	729.2
1976	—	18.4	18.4	78.9	119.5	12.4	18.2	314.9	5.1	\$23.0	495.1	—	592.4	-0.2	210.0	802.2
1977	—	15.4	15.4	93.1	136.9	14.6	20.7	337.2	9.1	\$24.1	542.8	—	651.1	-1.4	241.0	890.7
1978	—	17.1	17.1	102.6	162.7	16.2	23.7	373.8	13.7	\$28.4	608.2	—	728.2	-0.2	238.7	967.7
1979	—	21.7	21.7	143.1	206.6	25.4	20.3	463.2	20.2	\$34.1	789.7	—	934.5	-1.5	292.1	1,225.2
1980	—	17.1	17.1	182.8	218.8	44.9	23.3	579.6	17.1	\$42.8	913.8	—	1,113.1	-8.2	346.9	1,460.8
1981	—	18.9	18.9	179.9	216.8	51.4	28.3	624.0	1.7	\$41.9	980.9	—	1,189.8	-0.1	447.4	1,637.0
1982	—	21.3	21.3	189.2	199.7	42.0	29.0	682.7	7.0	\$38.0	838.6	—	1,119.0	(a)	493.6	1,612.6
1983	—	19.9	19.9	187.1	\$234.0	\$267.7	32.7	515.3	9.3	\$40.0	\$855.0	—	\$1,072.0	-0.1	497.8	\$1,569.4
1984	—	19.2	19.2	198.9	\$264.8	\$411.1	20.3	519.6	1.7	\$37.4	\$881.6	—	\$1,089.8	-0.1	554.4	\$1,644.1
1985	—	18.1	18.1	192.9	\$248.7	\$48.7	28.5	821.5	2.0	\$42.7	\$882.8	—	\$1,090.8	-0.2	586.4	\$1,676.8
1986	—	17.3	17.3	139.4	\$191.3	\$25.8	21.2	404.6	0.3	\$35.2	\$679.3	—	\$634.9	(a)	589.5	\$1,424.4
1987	—	17.4	17.4	200.0	\$216.2	\$27.7	20.8	408.1	1.0	\$28.8	\$702.4	—	\$919.9	(a)	583.8	\$1,513.7
1988	—	17.3	17.3	187.7	\$218.4	\$27.3	24.0	448.7	0.7	\$27.1	\$748.8	—	\$931.6	(a)	535.1	\$1,586.9
1989	—	17.7	17.7	140.1	\$268.2	\$30.4	30.8	487.9	0.5	\$33.7	\$851.7	—	\$1,018.8	-0.1	678.0	\$1,593.5
1990	—	17.7	17.7	142.4	\$327.8	\$38.1	22.9	\$477.2	0.7	\$41.3	\$777.3	—	\$1,183.1	(a)	686.8	\$1,869.1
1991	—	22.9	22.9	173.8	\$351.0	\$29.9	30.3	\$556.4	0.6	\$42.1	\$1,009.4	—	\$1,223.4	(a)	684.0	\$1,917.4
1992	—	19.1	19.1	179.1	\$301.9	\$29.1	24.3	\$677.7	0.2	\$51.3	\$1,004.7	—	\$1,210.6	(a)	738.0	\$1,945.4
1993	—	17.5	17.5	206.2	\$341.6	\$22.1	24.8	\$831.6	0.7	\$63.6	\$1,084.3	—	\$1,324.6	(a)	748.0	\$2,072.6
1994	—	18.1	18.1	230.2	\$345.9	\$32.1	21.2	\$64.5	0.3	\$8.2	1,114.1	—	1,380.1	(a)	795.9	2,175.1

^a Liquefied petroleum gases.
^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, subsealants, petroleum coke (industrial) and used at electric utilities, and the "other petroleum products" category described in Appendix A.
^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.

^a Revised data.
 —No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.
 (a) Value less than 0.05 million nominal dollars.
 Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 84. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Idaho

Year	Primary Energy							Electricity	Total Energy ^a		
	Coal	Natural Gas	Petroleum			Expenditure ^b	Total ^c				
			Distillate Fuel	Kerosene	LPG ^d						
Prices in Nominal Dollars per Million Btu											
1970	\$.99	1.31	1.40	—	2.83	1.91	—	1.94	4.81	2.58	
1971	0.97	1.41	1.48	—	2.79	1.97	—	1.98	4.93	2.64	
1972	1.08	1.42	1.49	—	2.93	2.09	—	1.95	4.94	2.68	
1973	0.80	1.44	1.71	—	6.84	3.26	—	2.11	4.91	3.08	
1974	1.39	1.73	2.83	—	3.13	2.81	—	2.15	5.03	3.21	
1975	1.78	2.87	2.82	—	4.17	3.25	—	2.45	5.27	3.43	
1976	1.92	2.12	3.03	—	4.31	3.46	—	2.68	5.79	3.81	
1977	1.38	2.70	3.26	—	5.26	3.86	—	3.03	6.25	4.23	
1978	2.60	3.23	3.14	—	5.36	3.81	—	3.45	6.51	4.83	
1979	2.30	3.66	4.46	—	6.70	4.84	—	4.02	7.22	5.84	
1980	2.56	4.78	6.80	—	7.95	6.87	—	5.38	8.54	7.14	
1981	2.85	5.21	7.94	—	10.67	8.78	—	6.18	9.21	8.02	
1982	3.11	6.46	7.86	—	9.26	8.52	—	6.82	9.89	8.77	
1983	2.04	7.05	7.87	12.23	9.86	8.34	—	7.30	9.91	8.84	
1984	2.06	6.80	7.36	12.16	9.22	7.79	—	6.79	11.86	9.91	
1985	1.87	6.57	7.28	13.08	9.86	7.44	—	6.91	12.69	10.38	
1986	1.81	5.89	6.59	9.20	9.70	6.51	—	6.04	13.14	10.29	
1987	1.64	5.41	6.21	8.58	10.64	6.40	—	5.71	13.45	10.30	
1988	1.26	5.38	6.21	8.58	10.38	6.51	—	5.81	13.88	10.44	
1989	1.36	4.82	5.89	9.70	12.48	7.95	—	5.77	14.11	10.57	
1990	1.55	4.91	7.37	12.14	11.73	8.58	^d 4.75	^d 8.86	14.27	^d 10.31	
1991	1.49	5.02	7.20	11.96	12.24	9.45	4.75	^d 6.87	14.33	^d 10.14	
1992	1.57	6.09	6.49	10.69	11.55	7.73	4.75	^d 6.71	14.45	^d 10.18	
1993	1.29	6.19	6.53	10.75	11.50	7.76	4.75	^d 6.74	14.64	^d 10.12	
1994	1.36	6.10	5.97	9.84	10.95	7.31	4.75	6.52	14.93	10.27	
Expenditures in Million Nominal Dollars											
1970	1.5	18.7	8.6	—	7.6	14.4	—	28.3	36.6	65.3	
1971	2.4	12.6	7.2	—	8.3	16.5	—	30.5	43.7	74.3	
1972	1.6	16.4	7.2	—	10.1	17.3	—	35.4	47.9	83.3	
1973	1.4	15.1	8.7	—	17.8	25.4	—	43.0	51.9	94.9	
1974	2.1	17.4	13.5	—	9.2	22.7	—	42.1	57.4	99.6	
1975	2.7	39.7	18.0	—	19.0	27.9	—	60.4	88.6	129.9	
1976	3.0	28.0	18.7	—	11.9	28.6	—	59.6	82.4	142.0	
1977	2.3	33.6	18.3	—	13.5	31.8	—	67.7	95.0	162.7	
1978	3.9	29.6	19.8	—	14.3	34.1	—	64.5	100.6	184.6	
1979	2.4	32.6	23.4	—	9.1	32.5	—	67.6	124.3	191.6	
1980	2.3	35.9	18.7	—	9.1	27.6	—	68.8	143.8	212.6	
1981	1.8	37.4	19.6	—	11.3	30.9	—	70.1	161.7	231.8	
1982	1.7	47.5	12.8	—	10.9	23.7	—	72.9	185.3	258.2	
1983	1.3	48.1	26.2	0.2	14.2	40.6	—	90.0	176.2	266.2	
1984	1.3	50.6	25.8	0.3	8.5	34.8	—	88.5	233.0	319.5	
1985	0.7	53.5	27.0	0.1	11.3	38.3	—	82.8	248.8	341.1	
1986	0.6	43.6	20.8	0.3	10.2	31.1	—	75.4	243.6	319.0	
1987	0.3	38.5	17.4	0.3	9.6	27.5	—	68.4	239.0	305.3	
1988	0.8	42.2	18.7	0.4	12.3	31.4	—	74.3	256.0	332.3	
1989	1.0	44.4	19.1	0.1	18.4	37.6	—	63.0	275.0	358.0	
1990	0.7	43.3	22.7	0.4	13.8	36.6	^d 4.1	^d 64.7	274.0	^d 358.3	
1991	0.8	53.1	29.5	0.1	18.5	46.1	4.3	^d 104.3	292.0	^d 396.3	
1992	0.6	50.5	21.5	0.1	12.4	34.1	4.5	^d 89.8	283.0	^d 372.7	
1993	0.4	67.6	23.5	0.1	13.6	37.2	4.3	^d 109.5	312.0	^d 421.5	
1994	0.4	65.0	19.2	0.1	12.2	30.6	4.3	100.3	317.0	417.3	

^a Liquefied petroleum gases^b Commercial sector prices and expenditures for wood and waste are included in the residential sector^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non electric utility use of biomass beginning in 1990^d Revised data

—No consumption

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 85. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Idaho

Year	Primary Energy								Electricity	Total Energy ^b		
	Coal	Natural Gas	Petroleum					Total				
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residential Fuel					
Prices in Nominal Dollars per Million Btu												
1970	0.50	0.98	1.21	0.82	1.08	2.81	—	1.36	0.85	4.19		
1971	0.50	0.95	1.28	0.84	1.02	2.80	—	1.41	0.92	4.27		
1972	0.53	0.87	1.26	0.85	1.07	2.81	—	1.38	0.96	4.31		
1973	0.53	1.01	1.51	1.14	1.72	3.20	—	1.60	1.06	4.27		
1974	0.76	1.16	2.47	2.45	2.57	4.30	—	2.70	1.46	4.30		
1975	0.87	1.47	2.82	2.58	3.26	4.81	—	3.01	1.86	4.68		
1976	1.14	1.95	2.94	2.74	3.21	4.90	—	3.17	2.07	5.46		
1977	1.26	2.28	3.06	2.77	3.63	5.24	—	3.42	2.33	6.02		
1978	1.34	2.92	2.87	3.17	4.12	5.50	—	3.49	2.72	6.12		
1979	1.79	3.30	4.35	4.41	3.92	7.26	—	4.88	3.40	6.64		
1980	1.70	4.38	5.41	—	5.72	9.79	4.63	5.85	4.53	6.48		
1981	1.66	4.67	7.63	—	7.01	11.29	5.43	6.77	5.12	7.49		
1982	1.80	5.71	7.61	8.15	7.10	10.80	6.62	6.14	6.21	10.94		
1983	2.11	5.95	A 9.62	7.72	7.86	9.46	5.24	A 7.19	A 5.91	11.30		
1984	2.13	5.46	A 6.51	8.64	7.65	9.34	4.15	A 7.51	A 5.78	11.81		
1985	1.89	5.42	A 6.23	A 8.84	9.38	9.31	3.87	A 8.88	A 6.81	12.10		
1986	2.01	4.68	A 4.00	A 5.30	6.76	7.07	2.96	A 5.03	A 4.64	12.58		
1987	1.98	4.44	A 4.51	A 6.11	7.90	7.28	2.57	A 5.24	A 4.61	12.25		
1988	1.88	4.43	A 4.30	A 4.79	7.90	7.81	1.93	A 5.62	A 4.69	12.08		
1989	1.84	4.09	A 5.05	A 6.90	7.58	8.21	1.98	A 5.45	A 4.81	12.58		
1990	1.77	4.87	A 5.88	A 8.35	8.30	9.15	2.31	A 6.68	A 4.82	12.84		
1991	1.86	4.28	A 5.19	A 7.48	8.68	9.13	2.31	A 6.82	A 4.81	12.54		
1992	1.90	4.27	A 5.22	A 7.41	8.82	9.62	1.78	A 6.94	A 4.96	12.88		
1993	1.80	4.49	A 5.29	A 7.67	9.79	A 9.42	2.83	A 6.72	A 4.56	13.00		
1994	1.69	4.63	4.91	6.19	9.27	9.63	2.24	5.40	4.83	12.82		
Expenditures in Million Nominal Dollars												
1970	1.4	5.9	2.1	8.5	8.7	1.0	—	4.3	11.7	29.2		
1971	2.3	8.3	2.2	8.6	8.9	1.0	—	4.6	15.2	33.0		
1972	1.6	11.0	2.2	8.9	1.0	1.0	—	5.1	17.6	35.6		
1973	1.7	10.0	2.7	1.3	8.9	1.2	—	6.2	17.6	39.5		
1974	2.2	9.7	4.4	1.8	1.3	1.6	—	8.6	21.4	43.0		
1975	2.4	10.8	5.2	1.2	1.5	2.3	—	10.2	31.5	58.8		
1976	3.3	19.0	5.5	1.7	1.6	2.4	—	11.2	32.5	70.1		
1977	3.9	20.3	6.0	1.6	1.7	2.6	—	11.9	36.2	85.1		
1978	3.9	18.9	6.6	1.7	1.9	2.8	—	13.0	33.8	78.9		
1979	9.5	23.9	8.0	0.4	0.9	3.7	—	13.0	40.4	98.2		
1980	2.8	28.4	8.1	—	1.2	8.1	14.2	28.6	57.8	119.0		
1981	2.2	27.1	5.4	—	1.3	7.8	1.0	15.3	44.8	144.8		
1982	2.0	35.1	20.9	0.4	1.5	7.4	0.7	30.8	87.9	173.1		
1983	2.5	35.9	A 15.3	0.2	1.9	5.9	0.6	A 24.0	A 62.4	186.7		
1984	2.6	49.5	A 15.4	0.2	1.3	13.0	0.3	A 30.1	A 81.2	189.4		
1985	1.2	51.2	A 13.3	A 8.2	2.6	6.6	0.8	A 22.5	A 74.8	189.8		
1986	1.1	40.9	A 9.6	(a)	1.3	5.0	(a)	A 13.0	A 55.0	160.4		
1987	0.7	34.4	A 11.1	0.1	1.3	8.4	0.2	A 18.6	A 63.1	192.7		
1988	2.0	37.3	A 10.8	(a)	1.7	15.1	0.1	A 27.7	A 67.0	202.0		
1989	2.1	37.9	A 10.3	(a)	2.0	15.4	0.3	A 27.9	A 67.8	213.0		
1990	1.6	36.7	A 11.3	A 8.1	1.7	7.1	0.3	A 28.4	A 57.7	223.8		
1991	1.9	42.4	A 13.1	(a)	2.1	16.5	(a)	A 31.7	A 78.0	221.0		
1992	1.4	50.3	A 12.9	(a)	1.7	15.8	0.2	A 30.1	A 70.8	247.0		
1993	1.1	49.6	A 15.4	(a)	1.8	1.9	0.2	A 14.7	A 65.6	233.0		
1994	1.1	50.5	12.6	0.1	1.6	1.9	0.1	16.3	68.0	263.0		

^a Liquefied petroleum gases^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

A-Flagged data

—No consumption

(a)-Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 86. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Idaho

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Biomass ^e	Total ^d		
	Colony Coal	Steam Coal	Total		Asphalt and Road Oil	Diesel Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	0.50	0.50	0.42	0.60	0.77	0.82	1.58	5.88	2.81	0.34	4.14	0.98	—	0.89	1.84	0.96
1971	—	0.50	0.50	0.46	0.62	0.79	0.84	1.62	5.27	2.80	0.55	—	1.08	—	0.77	1.87	1.03
1972	—	0.53	0.53	0.51	0.63	0.80	0.85	1.67	6.58	2.81	0.54	—	1.02	—	0.75	1.92	1.03
1973	—	0.60	0.60	0.68	0.87	1.08	1.14	1.72	5.33	3.20	0.73	—	1.35	—	0.93	2.01	1.17
1974	—	0.78	0.78	0.88	1.76	2.29	2.45	2.87	7.22	4.30	2.11	—	2.42	—	1.62	2.20	1.68
1975	—	0.87	0.87	1.11	1.88	2.40	2.58	3.25	7.48	4.31	2.81	—	2.68	—	1.81	2.78	1.87
1976	—	1.14	1.14	1.46	1.71	2.56	2.74	3.21	7.05	4.68	1.67	—	2.55	—	2.01	3.18	2.24
1977	—	1.26	1.26	1.78	1.80	2.81	2.77	3.83	8.97	5.24	2.10	—	2.73	—	2.28	3.63	2.55
1978	—	1.34	1.34	2.13	1.86	2.92	3.17	4.12	7.60	5.50	2.40	—	2.98	—	2.52	3.81	2.74
1979	—	1.79	1.78	2.42	2.49	4.29	4.41	3.82	10.21	7.26	2.80	—	4.11	—	3.05	4.43	3.29
1980	—	1.78	1.70	3.58	3.84	8.02	—	5.72	14.36	5.79	3.79	—	8.02	—	4.38	6.48	4.83
1981	—	1.85	1.96	3.73	4.34	7.40	7.79	7.01	18.00	11.29	4.37	—	7.34	—	4.74	6.89	5.16
1982	—	1.99	1.99	4.48	4.28	7.11	8.18	7.10	17.25	10.80	5.08	—	9.96	—	4.90	6.84	5.36
1983	—	2.11	2.11	4.99	4.19	8.91	7.72	7.68	18.98	9.46	5.11	—	8.67	—	5.21	7.23	5.82
1984	—	2.19	2.13	4.49	4.73	8.55	8.64	7.85	17.63	9.34	4.15	—	8.76	—	6.08	7.19	6.74
1985	—	1.89	1.89	4.32	4.78	8.46	8.54	8.98	17.61	9.31	3.67	—	8.77	—	4.87	7.89	6.73
1986	—	2.01	2.01	3.23	4.40	8.40	8.30	6.78	15.59	7.07	2.36	—	8.48	—	3.71	7.70	6.95
1987	—	1.98	1.98	6.59	3.43	8.43	8.11	7.88	12.70	7.28	2.57	—	8.48	—	6.09	7.56	6.85
1988	—	1.82	1.82	4.18	3.36	8.46	8.76	7.88	14.61	7.81	1.93	—	8.87	—	4.08	7.83	6.18
1989	—	1.64	1.64	2.84	2.79	8.28	8.68	7.68	14.48	8.21	1.68	—	8.18	—	3.74	7.87	6.82
1990	—	1.77	1.77	2.88	2.84	8.32	8.38	6.30	14.80	8.16	2.51	—	8.48	0.130	3.48	7.89	6.88
1991	—	1.85	1.86	2.85	3.28	8.67	8.78	8.68	16.79	9.13	2.31	18.33	8.64	1.39	3.65	7.88	6.59
1992	—	1.90	1.90	2.88	2.93	8.61	8.71	8.82	19.43	9.52	1.78	24.78	8.27	1.36	3.47	8.00	6.65
1993	—	1.80	1.80	2.91	2.83	8.96	8.77	8.79	18.94	9.42	2.53	19.10	8.27	1.37	3.41	8.24	6.80
1994	—	1.89	1.89	3.71	2.75	5.44	7.18	7.03	19.18	9.63	2.24	24.75	4.88	1.37	3.86	8.28	6.80
Expenditures in Million Nominal Dollars																	
1970	—	1.8	1.8	12.8	4.5	14.3	0.8	3.2	1.0	3.2	0.8	0.8	21.8	—	46.5	37.9	94.4
1971	—	2.6	2.6	13.8	5.8	14.7	0.5	1.4	1.0	12.1	1.0	—	36.4	—	52.8	39.0	91.8
1972	—	3.2	3.2	15.2	6.8	15.2	0.6	1.9	1.2	8.0	0.8	—	34.5	—	53.9	43.6	97.5
1973	—	3.0	3.0	19.9	5.4	21.4	0.6	1.4	1.2	15.8	1.1	—	48.0	—	69.8	42.8	112.7
1974	—	5.5	5.5	22.2	11.0	48.0	1.3	2.8	1.6	15.3	7.8	—	87.8	—	115.8	48.9	165.4
1975	—	8.0	8.0	35.0	11.0	58.8	0.8	3.9	2.8	20.2	8.8	—	181.7	—	144.7	47.1	191.8
1976	—	12.1	12.1	32.7	8.8	59.9	1.3	4.8	2.1	14.1	8.1	—	99.9	—	144.7	57.6	202.3
1977	—	9.2	9.2	37.7	10.7	62.9	1.5	5.1	1.9	16.2	9.1	—	109.3	—	168.2	61.0	217.2
1978	—	9.4	9.4	69.0	12.4	72.7	1.7	7.0	2.2	18.9	13.7	—	128.6	—	185.2	60.8	246.0
1979	—	16.9	16.8	85.1	13.6	78.3	2.7	9.8	3.1	17.3	5.1	—	128.0	—	228.9	69.6	298.6
1980	—	22.9	22.9	129.2	18.3	77.5	—	12.8	3.8	32.8	5.8	—	188.0	—	280.3	88.1	368.3
1981	—	14.9	14.9	115.3	15.5	84.6	0.7	12.8	4.6	24.0	9.7	—	182.6	—	282.9	140.9	423.9
1982	—	17.5	17.6	118.6	15.4	59.8	1.1	14.7	4.0	22.2	8.3	—	123.2	—	257.3	135.4	392.7
1983	—	18.1	18.1	103.1	18.4	84.8	0.1	14.6	4.1	14.8	2.7	—	138.6	—	258.8	154.6	413.4
1984	—	16.2	16.2	89.8	14.9	82.1	0.2	8.1	4.6	21.7	1.3	—	132.9	—	237.9	182.0	390.0
1985	—	13.2	13.2	86.1	20.4	88.9	0.1	11.3	4.3	25.0	1.4	—	128.5	—	228.3	158.3	386.6
1986	—	15.6	15.6	53.7	15.9	40.9	(a)	8.1	3.7	18.1	0.9	—	85.0	—	185.3	155.8	320.9
1987	—	16.5	16.5	127.0	11.4	84.5	(a)	8.5	3.4	18.5	0.9	—	105.1	—	248.6	182.1	410.7
1988	—	14.5	14.5	98.2	9.0	82.4	(a)	9.4	3.8	15.3	0.6	—	101.7	—	204.4	175.0	379.4
1989	—	14.7	14.7	68.9	15.4	82.3	(a)	9.2	3.8	18.7	0.2	—	128.6	—	211.7	187.0	398.1
1990	—	18.4	18.4	83.4	22.4	180.4	(a)	5.8	4.9	18.6	0.4	—	148.8	0.118	248.2	188.8	428.4
1991	—	20.2	20.2	78.4	21.5	123.7	(a)	10.6	4.1	21.1	0.6	1.5	183.2	13.0	294.9	181.0	475.9
1992	—	18.1	18.1	80.3	28.5	80.3	(a)	9.1	4.6	19.4	0.1	2.6	144.8	13.0	254.3	206.0	460.3
1993	—	15.9	15.9	88.0	29.8	79.4	(a)	8.3	4.8	18.7	0.1	2.2	140.4	13.3	257.7	203.0	460.7
1994	—	18.5	18.5	114.7	32.9	80.0	(a)	6.0	5.1	19.2	0.2	2.9	148.1	13.4	280.8	216.0	506.7

^a Liquefied petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.

Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 87. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Idaho

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG *	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.88	—	2.17	1.31	4.78	1.55	5.08	2.81	6.39	2.47	2.47	—	2.47
1971	0.80	—	2.21	1.38	4.80	1.82	5.27	2.80	—	2.46	2.46	—	2.46
1972	0.53	—	2.19	1.40	4.79	1.87	5.38	2.81	—	2.45	2.45	—	2.45
1973	0.58	—	2.36	1.62	4.94	1.72	5.33	3.20	—	2.81	2.81	—	2.81
1974	0.78	—	3.23	2.58	1.62	2.57	7.22	4.30	—	3.81	3.81	—	3.81
1975	0.87	—	3.45	2.48	2.12	3.25	7.48	4.81	—	4.25	4.25	—	4.25
1976	1.14	—	3.59	2.88	2.32	3.21	7.06	4.88	—	4.47	4.47	—	4.47
1977	1.26	—	3.97	3.13	2.71	3.83	8.97	5.24	—	4.88	4.88	—	4.88
1978	—	—	4.29	3.24	2.92	4.12	7.80	5.50	—	4.92	4.92	—	4.92
1979	—	—	5.73	4.68	4.08	3.92	10.21	7.26	2.67	6.28	6.28	—	6.28
1980	—	—	9.82	6.96	6.89	6.72	14.38	9.79	—	8.96	8.96	—	8.96
1981	—	—	10.64	8.15	7.87	7.01	18.00	11.29	—	10.51	10.51	—	10.51
1982	—	—	10.92	7.95	7.38	7.10	17.25	10.80	—	10.05	10.05	—	10.05
1983	—	—	10.44	8.61	R 7.42	7.86	18.98	9.46	—	R 9.25	R 9.25	—	R 9.25
1984	—	—	10.27	8.65	R 6.55	7.85	17.83	9.34	—	R 9.13	R 9.13	—	R 9.13
1985	—	—	9.89	8.70	6.68	8.98	17.81	9.31	—	8.95	8.95	—	8.95
1986	—	—	8.41	8.88	4.40	6.76	15.58	7.07	—	6.90	6.90	—	6.90
1987	—	—	7.55	7.08	4.39	7.88	12.70	7.26	—	7.05	7.05	—	7.05
1988	—	—	7.41	7.23	4.24	7.89	14.61	7.81	—	7.33	7.33	—	7.33
1989	—	—	8.28	6.08	4.98	7.58	14.48	8.21	—	7.97	7.97	—	7.97
1990	—	—	9.32	8.27	6.07	8.39	14.88	9.16	—	8.01	8.01	—	8.01
1991	—	—	8.71	8.74	6.50	8.88	16.79	9.13	—	8.87	8.87	—	8.87
1992	—	—	8.54	8.59	5.44	8.82	18.43	9.52	—	9.13	9.13	—	9.13
1993	—	—	8.24	8.70	5.42	8.79	18.84	R 9.42	—	R 9.08	R 9.08	—	R 9.08
1994	—	2.21	7.95	8.77	5.01	7.58	19.18	8.63	—	9.17	9.17	—	9.17
Expenditures in Million Nominal Dollars													
1970	(b)	—	1.7	9.7	3.9	0.1	3.7	132.8	(b)	161.8	161.8	—	161.8
1971	(b)	—	1.6	10.8	4.3	0.1	3.9	134.1	—	154.8	154.8	—	154.8
1972	(b)	—	1.7	12.7	4.2	0.1	4.4	147.0	—	170.1	170.1	—	170.1
1973	(b)	—	1.9	17.4	4.8	0.1	4.6	168.6	—	197.4	197.4	—	197.4
1974	(b)	—	2.5	33.8	8.7	0.2	5.9	224.2	—	275.3	275.3	—	275.3
1975	(b)	—	3.1	38.0	11.0	0.3	5.4	262.8	—	317.3	317.3	—	317.3
1976	(b)	—	2.4	30.4	12.4	0.3	5.6	298.0	—	355.4	355.4	—	355.4
1977	(b)	—	2.7	49.7	14.5	0.4	5.8	316.5	—	399.5	399.5	—	399.5
1978	—	—	3.5	53.6	19.2	0.5	5.9	353.9	—	434.5	434.5	—	434.5
1979	—	—	4.5	39.8	25.4	0.4	9.5	442.3	15.1	508.2	508.2	—	508.2
1980	—	—	7.4	111.3	44.9	0.6	12.0	632.9	—	708.1	708.1	—	708.1
1981	—	—	6.8	95.0	51.4	1.1	14.5	582.2	—	761.8	761.8	—	761.8
1982	—	—	4.6	106.6	42.0	1.9	12.6	563.1	—	720.9	720.9	—	720.9
1983	—	—	3.9	107.6	R 38.7	2.0	13.0	495.0	—	R 682.8	R 682.8	—	R 682.8
1984	—	—	2.9	141.5	R 41.1	2.4	14.4	461.8	—	R 684.1	R 684.1	—	R 684.1
1985	—	—	4.8	143.5	40.7	2.8	13.4	498.1	—	683.7	683.7	—	683.7
1986	—	—	3.7	114.1	26.8	1.8	11.6	381.3	—	539.2	539.2	—	539.2
1987	—	—	2.9	123.1	27.7	1.0	10.7	386.3	—	551.8	551.8	—	551.8
1988	—	—	1.9	126.6	27.3	1.2	11.9	417.3	—	605.1	605.1	—	605.1
1989	—	—	2.9	154.3	33.4	1.1	12.1	459.2	—	656.5	656.5	—	656.5
1990	—	—	1.8	193.1	35.1	1.5	12.8	523.3	—	779.2	779.2	—	779.2
1991	—	—	1.7	184.7	28.9	1.2	12.9	518.9	—	748.3	748.3	—	748.3
1992	—	—	(b)	187.4	29.1	1.2	15.2	562.7	—	795.6	795.6	—	795.6
1993	—	—	2.6	228.2	32.1	1.1	15.1	R 612.9	—	R 882.0	R 882.0	—	R 882.0
1994	—	(b)	2.2	235.0	39.1	1.4	19.0	633.4	—	921.1	921.1	—	921.1

* Liquefied petroleum gases.

R=Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(b)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 88. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Idaho

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy*
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	--	--	--	0.35	--	0.35	--	--	0.35
1971	--	--	--	0.47	--	0.47	--	--	0.47
1972	--	--	--	0.78	--	0.78	--	--	0.78
1973	--	--	--	1.07	--	1.07	--	--	1.07
1974	--	0.52	--	2.10	--	2.10	--	--	1.15
1975	--	1.38	--	2.20	--	2.20	--	--	1.88
1976	--	1.51	--	2.44	--	2.44	--	--	1.82
1977	--	1.84	--	2.89	--	2.89	--	--	1.95
1978	--	2.12	--	3.24	--	3.24	--	--	2.58
1979	--	2.80	--	3.31	--	3.31	--	--	2.81
1980	--	3.76	--	8.39	--	8.39	--	--	3.87
1981	--	4.21	--	7.33	--	7.33	--	--	4.98
1982	--	5.34	--	6.83	--	6.83	--	--	5.80
1983	--	6.28	--	6.21	--	6.21	--	--	6.25
1984	--	6.12	--	6.14	--	6.14	--	--	6.13
1985	--	6.44	--	6.07	--	6.07	--	--	6.88
1986	--	4.70	--	3.74	--	3.74	--	--	4.25
1987	--	2.31	--	4.25	--	4.25	--	--	2.78
1988	--	--	--	4.07	--	4.07	--	--	4.07
1989	--	--	--	4.45	--	4.45	--	--	4.45
1990	--	--	--	6.38	--	6.38	--	--	6.38
1991	--	--	--	5.04	--	5.04	--	--	5.04
1992	--	--	--	4.83	--	4.83	--	--	4.83
1993	--	--	--	4.98	--	4.98	--	--	4.98
1994	--	--	--	4.47	--	4.47	--	--	4.47
Expenditures in Million Nominal Dollars									
1970	--	--	--	(a)	--	(a)	--	--	(a)
1971	--	--	--	(a)	--	(a)	--	--	(a)
1972	--	--	--	(a)	--	(a)	--	--	(a)
1973	--	--	--	(a)	--	(a)	--	--	(a)
1974	--	(a)	--	0.1	--	0.1	--	--	0.1
1975	--	(a)	--	0.1	--	0.1	--	--	0.1
1976	--	0.2	--	(a)	--	(a)	--	--	0.2
1977	--	1.4	--	(a)	--	(a)	--	--	1.4
1978	--	0.1	--	0.1	--	0.1	--	--	0.2
1979	--	1.4	--	(a)	--	(a)	--	--	1.5
1980	--	0.2	--	(a)	--	(a)	--	--	0.2
1981	--	0.1	--	(a)	--	(a)	--	--	0.1
1982	--	(a)	--	(a)	--	(a)	--	--	(a)
1983	--	0.1	--	(a)	--	(a)	--	--	0.1
1984	--	(a)	--	(a)	--	(a)	--	--	0.1
1985	--	0.1	--	(a)	--	(a)	--	--	0.2
1986	--	(a)	--	(a)	--	(a)	--	--	(a)
1987	--	(a)	--	(a)	--	(a)	--	--	(a)
1988	--	--	--	(a)	--	(a)	--	--	(a)
1989	--	--	--	0.1	--	0.1	--	--	0.1
1990	--	--	--	(a)	--	(a)	--	--	(a)
1991	--	--	--	(a)	--	(a)	--	--	(a)
1992	--	--	--	(a)	--	(a)	--	--	(a)
1993	--	--	--	(a)	--	(a)	--	--	(a)
1994	--	--	--	(a)	--	(a)	--	--	(a)

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

--No consumption.

(a)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 89. Energy Price and Expenditure Estimates by Source, 1970-1994, Illinois

Year	Primary Energy														Electricity Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Stimulants	Total ^c			
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																	
1970	6.42	6.35	6.38	0.72	1.71	0.74	1.39	3.05	8.69	\$1.39	1.88	0.75	0.65	1.66	0.32	5.98	1.89
1971	0.50	0.39	0.40	0.78	1.15	0.78	1.43	3.00	0.64	\$1.64	1.91	0.16	—	1.12	0.36	6.29	1.77
1972	0.56	0.43	0.44	0.85	1.19	0.82	1.46	2.91	0.68	\$1.59	1.85	0.15	—	1.14	0.39	6.64	1.84
1973	0.60	0.44	0.46	0.91	1.54	0.85	1.89	3.25	0.76	\$1.63	2.13	0.16	—	1.26	0.40	6.99	2.07
1974	1.23	0.80	0.65	1.06	2.47	1.02	2.62	4.48	1.61	\$2.86	3.16	0.17	—	1.75	0.55	8.07	2.75
1975	1.49	0.82	0.88	1.39	2.69	2.09	2.68	4.73	1.68	\$2.82	3.38	0.18	—	2.09	0.68	8.36	3.05
1976	1.44	0.91	0.96	1.65	2.77	2.36	2.96	4.93	2.04	\$2.89	3.61	0.19	—	2.17	0.77	10.02	3.40
1977	1.59	1.06	1.11	1.89	3.17	2.67	3.50	6.23	2.38	\$2.97	3.91	0.21	—	2.44	0.92	10.71	3.79
1978	1.85	1.30	1.34	2.30	3.31	2.87	3.48	6.32	2.48	\$3.18	4.02	0.25	—	2.62	1.10	12.07	4.15
1979	1.83	1.47	1.49	2.77	4.83	3.92	3.83	7.27	3.54	\$4.31	5.42	0.30	—	3.39	1.39	13.02	5.17
1980	1.80	1.53	1.64	3.33	6.89	6.39	5.18	9.81	4.92	\$5.79	7.87	0.33	—	4.32	1.68	15.33	6.89
1981	2.00	1.66	1.87	3.77	8.16	7.65	6.62	10.64	5.18	\$6.63	8.99	0.42	—	4.68	1.78	17.70	7.96
1982	2.20	1.69	1.90	4.45	7.97	7.23	6.79	10.32	6.00	\$6.71	8.80	0.61	—	5.00	1.91	20.07	9.21
1983	2.11	2.02	2.02	4.87	\$7.47	\$6.63	6.49	9.06	5.51	\$6.89	\$6.13	0.66	—	4.89	1.81	22.45	8.52
1984	2.09	1.96	1.97	4.84	7.72	\$6.42	6.27	8.82	5.64	\$6.92	\$6.20	0.66	—	4.89	1.83	21.10	8.16
1985	2.89	2.82	2.12	5.89	\$7.64	6.80	6.78	8.03	8.22	\$6.16	\$6.88	0.64	—	\$4.84	1.67	21.07	8.45
1986	2.05	2.06	2.06	4.59	\$6.73	4.22	7.27	6.78	4.10	\$6.84	\$6.50	0.64	—	4.04	1.61	22.37	7.73
1987	1.92	1.93	1.93	4.26	\$6.87	4.21	6.86	7.23	3.27	\$6.35	\$6.70	0.64	—	3.98	1.42	22.86	7.69
1988	2.02	1.82	1.84	4.10	\$6.90	3.84	6.95	7.27	2.83	\$6.23	\$6.70	0.66	—	3.75	1.23	21.49	7.53
1989	1.82	1.75	1.77	4.41	\$6.44	4.32	7.43	8.00	2.87	\$6.16	\$7.23	0.60	—	\$3.65	1.13	22.07	\$7.95
1990	1.84	1.79	1.72	4.87	\$7.89	5.88	5.11	9.28	3.09	\$6.42	\$6.48	0.67	\$6.12	\$4.23	1.12	22.02	\$7.62
1991	1.89	1.67	1.70	4.40	\$7.40	4.75	6.15	9.12	2.71	\$6.24	\$7.99	0.49	3.05	4.01	1.06	22.41	\$8.46
1992	2.00	1.67	1.73	4.60	7.29	4.44	7.77	8.79	2.90	\$6.26	\$7.78	0.52	3.12	\$4.02	1.04	22.61	\$8.36
1993	1.85	1.85	1.67	4.97	\$7.40	4.12	\$6.45	\$6.57	2.69	\$6.42	\$7.73	0.52	2.86	4.07	1.07	22.76	\$8.60
1994	1.80	1.57	1.58	4.89	7.17	3.62	7.01	6.95	2.65	\$6.26	7.73	0.53	2.79	4.09	1.07	21.79	8.54
Expenditures in Million Nominal Dollars																	
1970	41.8	287.3	329.4	831.7	267.9	95.3	149.4	1,715.3	86.2	\$257.2	2,595.2	4.1	(a)	3,789.5	-264.8	1,417.5	4,621.4
1971	46.2	308.9	355.1	930.1	330.4	106.2	162.8	1,709.8	70.5	\$268.2	2,634.7	7.5	—	3,907.4	-300.3	1,542.3	5,169.4
1972	48.2	325.6	373.8	1,021.8	389.9	129.6	176.1	1,740.6	96.0	\$254.9	2,939.3	20.6	—	4,225.6	-359.2	1,776.3	5,646.8
1973	49.9	364.5	404.4	1,041.4	409.6	167.4	239.2	2,031.2	106.0	\$31.6	3,339.2	34.7	—	4,613.8	-401.2	1,988.8	6,401.4
1974	105.7	476.0	581.7	1,198.0	750.6	231.4	336.4	2,725.0	223.7	\$473.2	4,741.5	38.2	—	6,569.4	-546.3	2,306.9	8,322.0
1975	128.7	629.3	758.0	1,512.9	770.9	292.9	329.8	2,945.8	223.0	\$488.1	6,960.2	45.2	—	7,588.8	-699.8	2,644.8	8,314.1
1976	104.7	720.7	825.5	1,644.0	620.1	340.9	414.9	3,180.0	233.2	\$496.7	6,668.8	65.5	—	8,411.8	-825.6	2,934.0	10,520.2
1977	101.4	687.1	788.5	2,325.2	1,044.3	410.3	461.6	3,429.5	309.8	\$548.5	6,220.9	65.6	—	9,570.2	-1,021.0	3,307.2	11,859.4
1978	114.4	1,011.9	1,126.3	2,701.5	1,132.6	441.7	460.3	3,660.2	362.4	\$630.0	6,877.2	88.6	—	10,593.8	-1,201.5	3,916.3	13,219.7
1979	103.1	1,168.8	1,269.9	3,122.5	1,388.4	640.5	704.3	4,545.5	573.7	\$600.9	8,554.4	98.4	—	13,028.1	-1,585.6	4,241.9	15,694.5
1980	98.7	1,294.5	1,393.1	3,694.8	1,484.5	716.2	702.6	5,822.7	764.3	\$1,198.7	10,370.9	98.4	—	15,488.2	-1,794.2	4,946.6	18,614.6
1981	97.1	1,392.2	1,489.3	3,970.1	1,839.0	723.0	889.9	5,999.4	727.1	\$1,173.4	10,551.6	135.3	—	16,546.5	-1,912.2	5,669.0	20,323.2
1982	105.5	1,447.5	1,553.0	4,359.7	1,511.7	680.5	550.2	5,709.8	510.5	\$940.5	9,306.3	157.4	—	15,972.4	-1,853.1	6,248.4	20,367.6
1983	114.9	1,609.0	1,724.8	4,720.4	\$1,512.2	\$598.1	825.7	5,109.4	393.5	\$954.5	8,187.4	171.2	—	\$15,793.8	-1,923.4	7,370.4	\$21,230.6
1984	140.2	1,503.2	1,643.4	5,059.4	\$1,635.6	\$68.4	575.3	4,887.9	276.2	\$1,085.1	8,517.5	213.8	—	\$15,434.0	-1,784.0	7,056.4	\$20,706.4
1985	131.6	1,588.3	1,720.8	4,873.0	\$1,631.3	\$2.2	837.3	5,272.2	157.5	\$1,088.9	8,847.8	270.8	—	\$15,711.1	-1,888.5	7,863.8	\$23,518.0
1986	122.9	1,531.1	1,654.0	4,234.0	\$1,171.4	49.4	941.8	3,969.4	181.9	\$677.5	8,990.4	294.6	—	\$13,172.9	-1,649.5	7,629.4	\$19,012.8
1987	129.3	1,378.8	1,508.1	3,771.4	\$1,206.7	48.6	1,026.4	4,189.1	128.4	\$653.2	7,444.6	347.6	—	\$13,071.7	-1,779.7	8,096.9	\$19,489.0
1988	141.7	1,228.7	1,370.3	3,693.5	\$1,175.6	95.3	1,123.6	4,439.3	82.2	\$614.6	7,717.7	488.7	—	\$13,610.2	-1,638.8	7,995.8	\$19,607.2
1989	131.2	1,136.1	1,267.3	4,376.3	\$1,297.3	109.3	925.8	4,852.9	60.8	\$880.1	7,539.0	494.5	—	\$13,661.0	-1,560.4	8,157.9	\$20,289.4
1990	114.4	1,198.8	1,313.1	4,271.0	\$1,309.8	138.1	389.8	5,133.3	59.1	\$988.9	8,471.8	436.4	\$41.4	\$15,803.7	-1,548.3	\$8,397.1	\$22,262.5
1991	119.4	1,196.2	1,285.6	4,307.9	\$1,557.0	172.6	420.0	5,004.9	63.1	\$1,014.9	8,222.8	381.5	—	\$14,242.8	-1,466.4	8,858.5	\$21,612.9
1992	124.4	1,055.7	1,180.0	4,433.0	\$1,542.6	185.8	346.3	4,807.5	36.0	\$1,109.5	8,131.8	409.9	—	\$14,200.4	-1,410.0	8,598.5	\$21,288.8
1993	113.0	1,246.9	1,359.9	5,103.5	\$1,853.3	213.6	\$647.6	\$4,931.4	\$35.5	\$1,010.6	8,482.0	437.8	—	\$15,416.2	-1,537.6	\$9,065.5	\$22,841.1
1994	103.6	1,197.1	1,300.7	4,988.9	1,416.7	208.1	609.7	5,238.3	41.3	1,058.7	8,568.8	409.3	25.8	16,271.4	-1,593.0	9,863.4	22,831.9

^a Liquefied petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used in electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

(\$)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 90. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Illinois

Year	Primary Energy								Electricity	Total Energy ^c
	Coal	Natural Gas	Petroleum				Biomass ^b	Total ^d		
			Distillate Fuel	Kerosene	LPG ^a	Total				
Prices (in Nominal Dollars per Million Btu)										
1970	1.88	1.02	1.21	1.85	2.02	1.48	—	1.11	7.97	1.91
1971	1.35	1.05	1.29	1.68	1.97	1.51	—	1.14	8.30	2.00
1972	1.38	1.11	1.30	1.67	2.09	1.57	—	1.20	8.77	2.12
1973	1.12	1.19	1.65	1.92	3.42	2.21	—	1.39	9.20	2.47
1974	1.70	1.32	2.58	2.93	3.60	2.91	—	1.62	10.49	2.61
1975	2.11	1.67	2.57	3.18	3.72	3.85	—	1.83	11.41	3.08
1976	2.21	1.85	2.61	3.35	4.18	3.22	—	2.12	12.18	3.34
1977	2.29	2.15	3.22	3.89	4.51	3.69	—	2.43	12.69	3.78
1978	2.38	2.46	3.35	4.06	4.50	3.65	—	2.69	14.38	4.21
1979	2.29	2.63	4.96	5.82	5.37	5.37	—	3.23	15.50	5.03
1980	2.15	3.83	6.91	6.71	7.07	7.92	—	3.77	17.79	6.86
1981	2.44	3.67	8.28	10.69	7.39	7.92	—	4.20	20.66	6.83
1982	2.77	4.63	6.00	10.63	7.78	8.08	—	4.64	23.08	7.80
1983	2.55	5.25	7.53	8.54	8.27	8.03	—	5.40	26.92	8.26
1984	2.47	5.16	7.58	8.32	7.70	7.76	—	5.27	26.87	8.62
1985	2.34	5.34	7.38	8.97	7.82	7.78	—	5.47	28.42	9.85
1986	2.05	4.96	5.47	8.72	5.55	6.00	—	5.01	27.74	9.15
1987	2.27	4.74	6.04	7.43	6.64	6.54	—	4.82	29.62	9.79
1988	2.09	4.62	5.87	7.22	6.77	6.35	—	4.60	28.54	9.12
1989	2.20	4.81	6.12	7.53	6.16	7.32	—	4.91	29.21	9.06
1990	2.26	4.85	7.38	9.05	7.90	7.74	0.88	5.80	29.97	9.21
1991	2.18	4.86	7.10	8.73	7.92	7.10	3.59	4.91	28.92	9.23
1992	2.16	5.00	6.71	8.25	7.51	7.35	3.59	5.04	30.17	9.11
1993	2.26	5.41	8.47	7.95	7.54	7.30	3.56	5.44	30.14	9.60
1994	2.27	5.39	8.01	7.38	7.73	7.29	3.56	5.42	29.25	9.83
Expenditures in Million Nominal Dollars										
1970	18.2	458.4	84.1	12.5	85.7	962.2	—	639.8	612.9	1,252.7
1971	21.4	490.0	91.7	11.5	84.8	105.0	—	685.4	676.9	1,364.2
1972	15.0	553.7	96.4	10.2	76.0	189.6	—	757.3	761.9	1,519.1
1973	8.8	540.5	119.8	19.7	119.6	258.9	—	808.2	663.0	1,681.2
1974	14.0	623.4	180.3	23.6	120.0	323.9	—	951.2	956.1	1,917.3
1975	12.7	772.9	186.3	22.1	126.3	383.7	—	1,118.4	1,038.4	2,144.7
1976	16.1	964.1	241.2	10.9	152.5	404.5	—	1,384.7	1,093.7	2,479.3
1977	14.2	1,150.7	288.2	10.2	155.0	443.5	—	1,606.4	1,237.7	2,845.1
1978	15.4	1,302.9	298.3	17.1	151.1	484.5	—	1,782.7	1,427.5	3,210.2
1979	5.9	1,499.7	241.6	13.6	120.7	375.1	—	1,871.8	1,549.1	3,420.8
1980	8.1	1,728.1	141.3	7.8	188.2	284.4	—	1,965.7	1,815.4	3,891.3
1981	4.9	1,890.6	125.3	9.0	109.0	244.4	—	2,140.1	2,000.1	4,140.2
1982	7.5	2,170.3	124.2	20.2	112.3	256.7	—	2,434.5	2,249.6	4,684.3
1983	9.8	2,354.3	94.5	9.9	141.9	236.9	—	2,500.9	2,323.9	5,423.2
1984	8.7	2,574.9	91.9	17.3	91.8	200.7	—	2,784.3	2,865.4	5,449.7
1985	4.8	2,480.4	97.1	29.2	88.1	225.4	—	2,790.7	2,702.2	5,412.8
1986	4.3	2,214.6	70.0	7.7	72.2	149.6	—	2,368.9	2,830.9	5,299.9
1987	5.2	1,961.9	87.1	6.3	83.3	156.7	—	2,123.7	3,254.8	5,375.6
1988	4.4	2,126.6	72.6	8.9	75.4	158.9	—	2,288.0	3,309.0	5,597.1
1989	5.4	2,459.9	58.4	8.9	105.4	170.6	—	2,633.9	3,227.0	5,862.9
1990	4.7	2,237.3	61.6	8.2	91.6	148.5	0.88	2,438.8	3,288.0	5,688.4
1991	4.5	2,311.5	50.6	5.8	96.3	152.8	38.2	2,607.0	3,540.0	5,655.0
1992	4.9	2,419.6	39.1	2.8	101.0	142.9	40.2	2,607.5	3,332.0	5,838.6
1993	4.7	2,734.1	27.9	3.6	105.5	137.1	20.4	2,888.2	3,522.0	6,519.2
1994	4.6	2,605.8	28.2	3.0	108.0	137.2	20.0	2,787.6	3,564.1	6,331.7

^a Liquefied petroleum gases.
^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.
^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

R- Revised data
 —No consumption
 Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 91. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Illinois

Year	Primary Energy								Electricity	Total Energy ^a
	Coal	Natural Gas	Petroleum					Total		
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel			
Prices in Nominal Dollars per Million Btu										
1970	0.46	0.73	1.04	0.83	1.11	3.85	0.60	5.85	6.73	1.80
1971	0.44	0.76	1.10	0.85	1.19	3.00	0.63	0.96	0.77	2.05
1972	0.53	0.82	1.10	0.86	1.18	2.91	0.55	0.90	0.83	2.22
1973	0.55	0.87	1.44	1.15	1.30	3.25	0.68	1.13	0.91	2.46
1974	0.85	0.99	2.38	2.34	2.28	4.48	1.25	1.88	1.18	2.97
1975	1.19	1.38	2.39	2.51	2.28	4.73	1.38	2.01	1.43	3.82
1976	1.29	1.60	2.60	2.68	2.62	4.93	2.01	2.49	1.78	3.94
1977	1.40	1.99	2.99	3.02	3.06	5.23	2.46	2.93	2.10	4.47
1978	1.59	2.23	3.09	3.21	3.11	5.32	2.46	3.00	2.35	5.06
1979	1.60	2.74	4.65	4.17	3.54	7.27	3.87	4.39	2.99	6.04
1980	1.71	3.27	6.49	5.93	4.93	9.81	5.59	6.41	3.68	7.37
1981	1.64	3.67	7.87	6.98	5.96	10.84	7.33	7.99	4.28	8.69
1982	1.92	4.34	7.53	7.57	6.44	10.32	7.06	7.76	4.72	9.85
1983	1.80	4.77	^R 6.25	7.23	6.11	9.08	6.21	^R 6.46	^R 4.95	^R 10.58
1984	1.73	4.67	^R 6.36	7.32	6.08	8.82	4.85	^R 6.34	^R 4.83	^R 9.94
1985	1.71	4.84	^R 6.18	^R 6.78	6.00	8.83	4.14	^R 6.45	^R 4.98	^R 10.24
1986	1.60	4.47	^R 4.74	7.35	6.78	6.78	2.38	^R 4.18	^R 4.38	^R 10.72
1987	1.44	4.33	^R 4.34	^R 5.15	6.85	7.23	2.83	^R 4.62	^R 4.30	^R 10.99
1988	1.35	4.12	^R 3.95	^R 4.71	6.96	7.27	2.39	^R 4.39	^R 4.09	^R 10.09
1989	1.37	4.45	^R 4.57	^R 4.88	7.06	8.00	2.43	^R 5.22	^R 4.44	^R 11.05
1990	1.39	4.54	^R 5.37	^R 6.31	6.65	8.34	2.28	^R 6.43	^R 4.82	^R 11.17
1991	1.41	4.47	^R 4.99	^R 6.04	8.57	9.13	2.63	^R 5.14	^R 4.54	^R 11.65
1992	1.28	4.57	^R 4.87	^R 6.27	7.63	8.79	2.60	^R 5.61	^R 4.59	^R 11.54
1993	1.28	4.99	^R 4.60	^R 6.02	8.65	^R 8.57	2.85	^R 5.41	^R 4.96	^R 11.92
1994	1.28	5.01	4.49	6.97	7.75	8.95	2.89	5.16	4.96	11.75

Expenditures in Million Nominal Dollars										
1970	16.2	144.8	22.9	0.2	6.4	8.8	28.6	88.4	228.9	506.9
1971	12.9	163.9	24.7	0.2	9.9	8.5	19.7	60.0	236.7	559.8
1972	10.8	188.2	25.9	0.3	7.7	8.2	21.7	63.9	253.7	624.8
1973	8.1	194.3	32.0	0.5	8.0	10.4	22.4	73.6	276.3	683.9
1974	13.0	219.5	32.4	0.7	13.4	14.1	42.8	123.4	356.0	811.6
1975	13.4	282.2	54.4	0.7	13.7	16.8	42.4	128.9	424.8	964.7
1976	17.3	404.5	70.3	0.3	15.2	18.5	51.8	156.9	578.7	1,114.3
1977	18.1	489.8	78.7	0.3	18.5	20.4	61.1	179.0	678.6	1,294.1
1978	19.1	571.3	89.2	0.5	18.4	22.0	62.0	189.2	779.6	1,455.0
1979	7.6	685.7	71.4	0.4	11.8	31.4	100.8	215.9	899.2	1,570.6
1980	4.8	761.8	79.4	0.6	12.9	51.3	91.1	236.8	1,082.3	1,799.9
1981	6.7	836.2	106.1	0.6	14.0	59.6	57.5	318.0	1,180.9	2,171.3
1982	9.8	971.1	137.3	0.3	13.9	55.4	48.8	285.7	1,236.4	2,448.6
1983	12.0	1,017.1	^R 172.0	0.8	18.5	28.1	40.9	^R 260.3	^R 1,289.4	^R 2,683.3
1984	11.3	1,128.2	^R 189.6	0.6	12.7	25.8	21.3	^R 245.1	^R 1,394.6	^R 2,621.7
1985	6.7	1,073.9	^R 141.2	^R 3.7	18.9	28.1	8.9	^R 198.8	^R 1,289.4	^R 2,488.3
1986	6.2	934.7	^R 43.9	2.6	14.8	20.5	13.3	^R 84.7	^R 1,035.6	^R 2,723.8
1987	6.1	838.7	^R 41.5	1.2	14.5	21.0	18.8	^R 95.1	^R 999.9	^R 2,809.3
1988	5.3	901.9	^R 43.8	^R 1.6	13.7	20.9	8.7	^R 89.6	^R 905.9	^R 2,755.0
1989	6.2	892.6	^R 35.9	^R 1.7	16.1	19.7	3.5	^R 76.9	^R 975.7	^R 2,680.1
1990	5.4	^R 929.2	^R 48.4	^R 0.9	19.6	27.4	3.0	^R 89.3	^R 1,033.8	^R 2,993.3
1991	5.3	^R 883.8	^R 49.2	1.4	20.7	19.1	0.6	^R 81.0	^R 980.3	^R 3,159.2
1992	5.4	915.9	^R 51.1	1.2	18.3	17.3	0.6	^R 88.7	^R 1,010.0	^R 3,061.7
1993	4.9	^R 1,036.1	^R 53.5	^R 1.1	21.4	^R 5.9	1.0	^R 82.9	^R 1,123.9	^R 3,284.7
1994	4.8	1,011.8	57.9	1.7	18.8	7.6	1.1	87.1	1,103.5	3,259.2

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector process and expenditures for wood and waste are included in the residential sector.^RRevised data.

Note: Expenditure totals may not equal sum of components due to independent rounding. Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 92. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Illinois

Year	Primary Energy														Electricity	Total Energy ^c	
	Coal			Natural Gas	Petroleum												
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Heating Fuel	Other ^b	Total				
Prices in Realized Dollars per Billion Btu																	
1970	0.42	0.46	0.44	0.49	0.84	0.76	0.82	1.11	8.88	3.46	0.88	1.26	1.16	—	0.74	3.88	0.95
1971	0.50	0.44	0.46	0.55	0.81	0.78	0.85	1.19	6.27	3.80	0.71	1.34	1.31	—	0.81	3.75	1.04
1972	0.58	0.53	0.54	0.62	0.86	0.76	0.85	1.19	5.58	2.81	0.71	1.26	1.23	—	0.84	4.05	1.12
1973	0.60	0.55	0.57	0.67	0.86	1.05	1.15	1.30	5.23	3.25	0.80	1.38	1.38	—	0.94	4.22	1.24
1974	1.23	0.85	1.03	0.79	1.75	2.16	2.34	2.28	7.22	4.48	2.12	1.93	2.38	—	1.49	5.21	1.85
1975	1.40	1.19	1.29	1.19	1.88	2.35	2.51	2.28	7.46	4.78	2.14	2.36	2.39	—	1.76	6.43	2.29
1976	1.44	1.26	1.36	1.43	1.86	2.47	2.68	2.52	7.05	4.93	2.88	2.64	2.85	—	1.81	7.84	2.45
1977	1.56	1.40	1.48	1.80	1.89	2.76	3.02	3.08	6.87	5.23	2.28	2.88	2.80	—	2.23	7.72	2.81
1978	1.85	1.59	1.71	2.80	2.24	2.94	3.27	3.11	7.80	6.32	2.31	2.83	3.01	—	2.44	8.39	3.18
1979	1.83	1.80	1.70	2.56	2.57	3.86	4.17	3.54	10.21	7.27	2.84	4.09	3.78	—	3.04	9.68	3.77
1980	1.92	1.71	1.79	3.19	2.85	5.37	5.93	4.96	14.38	9.34	3.78	6.78	5.98	—	4.00	11.82	4.88
1981	2.00	1.84	1.94	3.54	4.58	6.27	6.98	5.38	18.60	10.64	4.58	8.83	6.67	—	4.82	12.49	5.79
1982	2.23	1.92	2.05	4.17	4.64	6.85	7.57	6.44	17.25	10.22	4.35	8.14	6.88	—	4.82	15.34	6.91
1983	2.11	1.80	1.94	4.44	4.47	6.73	7.23	6.11	16.90	9.08	4.48	8.94	6.95	—	5.80	17.29	8.73
1984	2.08	1.73	1.90	4.43	4.74	6.64	7.32	6.06	17.69	8.82	4.85	8.57	7.14	—	4.87	18.45	9.36
1985	2.08	1.71	1.88	4.57	4.91	6.16	6.78	6.39	17.61	9.89	6.14	7.79	7.84	—	4.16	18.85	9.88
1986	2.05	1.80	1.78	4.08	4.57	4.30	4.74	7.35	15.59	8.78	2.38	5.77	6.12	—	4.44	18.48	10.22
1987	1.92	1.44	1.64	3.77	3.24	4.68	5.18	5.85	12.70	7.23	2.88	6.21	6.85	—	4.31	16.54	10.02
1988	2.02	1.35	1.63	3.35	3.51	4.27	4.71	6.96	14.51	7.27	2.38	5.22	5.83	—	4.88	15.14	10.85
1989	1.92	1.37	1.61	3.65	2.92	4.43	4.88	7.86	14.48	8.00	2.43	6.11	6.58	—	3.78	15.75	10.76
1990	1.84	1.38	1.88	4.81	3.28	4.72	5.31	8.68	14.88	9.38	3.28	6.48	6.87	1.88	4.34	15.88	10.17
1991	1.99	1.41	1.63	3.70	3.38	5.40	6.04	8.57	18.79	8.13	2.63	6.80	6.04	1.72	4.45	18.08	10.57
1992	2.00	1.29	1.59	3.68	3.02	5.88	6.27	7.83	18.43	8.79	2.80	6.61	6.91	1.85	4.84	18.04	10.80
1993	1.96	1.28	1.54	4.35	3.31	5.46	6.02	8.85	18.94	8.57	2.85	6.88	6.38	1.83	4.48	18.31	10.51
1994	1.90	1.28	1.51	4.30	3.35	5.28	5.83	8.80	19.18	8.95	2.68	4.85	5.87	1.58	4.32	18.18	10.05

Expenditures in Billion Realized Dollars																	
1970	41.8	73.9	118.6	178.9	31.8	47.4	18.2	74.3	82.1	86.4	46.8	77.2	88.1	—	788.5	294.3	1,092.8
1971	48.2	54.2	100.4	221.2	41.4	52.0	9.5	75.3	62.8	101.2	28.3	77.8	487.2	—	788.9	321.1	1,110.0
1972	48.2	63.6	111.8	247.2	41.4	53.0	12.3	82.8	71.3	81.7	41.3	85.9	479.1	—	806.1	385.8	1,222.9
1973	49.8	55.6	105.5	282.3	79.0	47.3	17.0	108.2	69.5	98.5	48.0	93.7	578.1	—	958.0	438.0	1,396.0
1974	105.7	63.8	169.5	322.5	125.4	127.7	23.9	188.4	80.3	221.8	123.9	130.7	848.4	—	1,484.4	538.5	1,982.9
1975	126.7	108.5	234.2	448.0	125.4	180.8	18.2	185.6	78.7	186.5	117.8	188.1	898.1	—	1,686.3	648.3	2,334.5
1976	104.7	104.8	209.5	532.4	128.0	178.6	13.0	240.8	79.2	118.8	88.3	195.1	1,443.8	—	1,785.8	719.6	2,505.5
1977	101.4	111.0	212.3	684.1	145.2	185.1	16.2	281.1	82.8	110.9	88.1	228.8	1,488.2	—	2,042.7	828.4	2,871.1
1978	114.4	115.1	229.5	763.9	172.9	219.8	18.5	282.8	80.3	88.4	98.8	240.4	1,218.8	—	2,212.2	1,005.4	3,288.6
1979	103.1	118.0	219.1	898.5	183.9	194.4	11.5	365.4	135.2	108.8	152.9	348.5	1,705.4	—	2,805.0	1,112.9	3,917.9
1980	93.7	136.1	229.7	1,088.4	285.7	348.0	14.4	381.2	178.8	188.7	214.4	588.7	2,178.7	—	3,884.9	1,322.1	4,777.8
1981	97.1	128.4	225.5	1,187.4	185.5	254.5	19.8	558.7	285.1	188.2	228.8	578.9	2,188.7	—	3,812.5	1,503.5	5,181.1
1982	105.5	128.8	232.2	1,165.5	148.7	388.7	4.2	414.8	178.2	284.8	145.3	445.5	1,788.1	—	3,186.9	1,533.9	4,700.7
1983	114.9	127.1	241.9	1,285.9	188.2	258.1	17.9	492.7	184.7	88.8	124.3	485.8	1,722.8	—	3,348.8	1,547.9	4,896.5
1984	140.2	130.0	270.2	1,326.4	180.1	276.5	12.4	495.7	284.5	89.7	74.9	484.7	1,776.5	—	3,576.1	1,752.1	5,128.2
1985	161.8	195.2	357.0	1,387.4	244.5	227.8	3.8	765.8	188.4	82.8	44.8	427.4	1,985.7	—	3,688.8	1,848.6	5,537.4
1986	122.9	141.2	264.1	1,065.7	187.4	250.8	2.8	745.2	164.8	58.0	28.8	375.9	1,791.9	—	3,111.7	2,088.9	5,121.4
1987	129.3	131.1	260.4	859.0	140.1	261.4	11.3	828.9	181.8	58.5	35.2	427.0	1,888.2	—	3,218.8	2,088.4	5,227.1
1988	141.7	137.2	278.9	885.8	130.4	194.4	12.0	1,028.0	168.4	57.2	38.8	368.3	1,875.3	—	3,140.8	1,988.8	5,029.6
1989	131.2	118.8	250.0	1,000.6	158.0	178.8	12.7	187.4	171.2	58.5	23.8	472.3	1,200.7	—	2,482.3	2,014.8	4,497.1
1990	146.4	121.8	267.9	1,078.8	178.8	253.7	11.7	271.8	177.8	81.7	18.8	488.7	1,488.8	4.3	2,771.7	2,068.6	4,840.3
1991	119.4	136.4	255.8	1,084.8	177.8	244.7	11.8	283.4	182.7	84.4	8.5	488.9	1,488.4	7.2	2,817.5	2,123.8	4,941.1
1992	124.4	109.2	233.6	1,078.7	186.1	281.2	1.7	217.9	218.6	68.0	4.1	587.9	1,488.4	9.4	2,886.2	2,183.5	4,969.6
1993	113.0	116.4	229.3	1,280.4	136.7	225.1	2.2	311.8	214.0	71.8	5.4	478.3	1,488.8	5.8	3,171.3	2,135.6	5,306.8
1994	103.6	121.7	225.3	1,277.8	174.0	239.9	2.8	498.2	226.5	71.3	8.4	467.5	1,855.8	5.8	3,185.6	2,199.3	5,274.5

^a Liquefied petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.

R-Adjusted data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 93. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Illinois

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.66	—	2.77	1.26	0.70	1.11	5.00	3.95	0.57	2.47	2.47	4.08	2.47
1971	0.44	—	2.21	1.43	0.70	1.10	5.27	3.00	0.50	2.42	2.42	4.40	2.42
1972	0.50	—	2.13	1.45	0.70	1.10	5.50	2.81	0.62	2.35	2.35	4.06	2.35
1973	0.35	—	2.55	1.79	0.62	1.30	6.53	3.25	0.65	2.64	2.64	5.01	2.64
1974	0.85	—	3.23	2.09	1.50	2.26	7.22	4.40	1.16	3.77	3.76	5.78	3.77
1975	1.18	—	3.45	2.04	2.00	2.20	7.00	6.73	1.01	4.86	4.86	6.11	4.87
1976	1.20	—	3.53	3.00	2.35	2.52	7.05	4.83	1.92	4.27	4.27	6.68	4.27
1977	1.40	—	3.67	3.45	2.60	3.05	6.07	5.23	2.34	4.67	4.67	7.20	4.58
1978	—	—	4.23	3.82	2.87	3.11	7.60	6.32	2.35	4.72	4.72	8.17	4.73
1979	—	—	5.73	5.30	3.82	3.54	10.21	7.27	3.84	6.40	6.40	9.40	6.40
1980	—	—	9.02	7.45	6.30	4.93	14.30	8.61	6.32	8.89	8.89	11.82	9.00
1981	—	—	10.54	9.81	7.55	6.26	16.00	10.64	7.32	10.05	10.05	13.96	10.05
1982	—	—	10.82	8.52	7.22	6.44	17.25	10.32	6.80	9.74	9.74	14.00	9.75
1983	—	—	10.44	8.00	^a 6.63	6.11	16.80	9.50	5.95	^a 8.70	^a 8.70	13.25	^a 8.71
1984	—	—	10.57	8.42	^a 6.42	6.06	17.63	8.82	6.02	8.80	8.80	13.14	8.81
1985	—	—	8.90	6.32	^a 6.00	5.80	17.84	8.65	6.06	6.90	6.90	13.14	6.90
1986	—	—	8.41	6.80	4.22	7.36	15.80	6.70	4.85	6.81	6.81	20.87	6.84
1987	—	—	7.55	6.80	4.21	6.85	12.70	7.23	3.32	7.19	7.19	20.91	7.21
1988	—	—	7.41	6.94	3.84	6.96	14.61	7.27	2.59	7.18	7.18	18.70	7.20
1989	—	—	8.28	7.20	4.32	7.08	14.48	8.08	2.80	7.81	7.81	18.82	7.83
1990	—	4.40	9.82	8.73	5.84	6.86	14.80	6.38	2.11	8.18	8.18	18.84	8.19
1991	—	3.35	8.71	8.21	4.75	6.57	14.79	6.13	2.30	8.82	8.82	20.04	8.83
1992	—	3.73	8.54	8.80	4.44	7.03	15.43	6.79	2.90	8.53	8.53	20.39	8.54
1993	—	3.98	8.24	8.16	4.12	6.65	16.94	^a 6.57	2.30	^a 8.31	^a 8.31	20.59	^a 8.32
1994	—	3.15	7.35	8.16	3.82	6.88	18.18	6.95	2.56	8.57	8.57	18.98	8.59
Expenditures in Million Nominal Dollars													
1970	0.2	—	2.9	183.2	95.2	2.2	20.2	1,888.4	1.5	1,873.6	1,873.7	3.3	1,877.9
1971	0.1	—	2.6	144.2	108.2	2.6	40.1	1,890.0	1.3	1,896.0	1,896.1	2.6	1,899.6
1972	0.1	—	1.9	175.4	118.4	2.4	45.4	1,696.5	0.9	2,015.1	2,013.2	3.9	2,017.0
1973	0.1	—	1.6	239.8	147.1	2.4	83.7	1,800.3	1.1	2,370.0	2,370.1	3.9	2,374.0
1974	0.1	—	1.9	348.1	218.9	4.4	69.7	2,596.1	2.4	3,254.5	3,254.6	4.4	3,259.0
1975	(a)	—	1.4	336.4	285.7	4.1	65.9	2,833.2	2.2	3,618.9	3,619.0	5.5	3,625.5
1976	(a)	—	1.5	382.6	303.9	3.3	69.9	3,042.8	3.1	3,837.0	3,837.0	6.3	3,843.3
1977	(a)	—	1.6	445.8	409.7	6.0	84.0	3,299.3	2.1	4,219.3	4,219.3	7.0	4,226.3
1978	(a)	—	0.4	472.8	429.9	8.3	74.9	3,630.7	1.9	4,527.8	4,527.8	7.5	4,535.3
1979	(a)	—	0.4	825.9	527.4	3.4	103.3	4,408.5	6.8	5,876.7	5,876.7	15.0	5,886.7
1980	(a)	—	6.0	670.7	704.9	3.2	131.8	5,306.1	9.4	7,223.2	7,223.2	18.3	7,234.1
1981	(a)	—	14.9	1,046.8	721.8	7.2	155.5	5,771.2	0.3	7,720.5	7,720.6	14.1	7,734.7
1982	(a)	—	11.9	988.7	579.5	9.5	139.5	5,021.5	1.1	7,261.5	7,261.5	16.0	7,267.5
1983	(a)	—	12.3	978.5	^a 508.1	12.6	142.8	4,977.3	2.9	^a 6,722.5	^a 6,722.5	15.9	^a 6,738.4
1984	(a)	—	10.4	1,082.2	^a 90.4	15.3	150.1	4,757.3	5.2	^a 6,105.0	^a 6,105.0	18.2	^a 6,124.2
1985	(a)	—	10.7	988.7	82.2	13.5	147.1	5,103.7	6.8	6,383.9	6,383.9	22.7	6,406.7
1986	(a)	—	8.9	338.9	40.4	10.1	127.8	3,792.9	2.6	4,807.2	4,807.2	24.9	4,822.1
1987	(a)	—	6.1	825.1	46.8	7.7	117.4	4,105.6	2.1	5,110.8	5,110.8	23.3	5,134.1
1988	(a)	—	7.0	892.6	65.3	6.5	130.2	4,350.2	5.7	5,447.5	5,447.5	22.9	5,470.5
1989	(a)	—	8.0	1,055.4	109.3	6.9	139.3	4,773.8	1.0	6,046.6	6,046.6	23.9	6,070.5
1990	(a)	—	7.7	1,011.8	130.1	11.4	137.8	5,694.2	1.8	7,733.8	7,733.8	23.7	7,748.7
1991	(a)	—	7.7	1,189.8	172.6	9.0	141.3	4,821.4	0.2	6,461.8	6,461.8	24.7	6,476.3
1992	(a)	—	7.6	1,162.7	185.5	9.1	168.7	4,834.8	0.5	6,366.6	^a 6,366.7	24.3	^a 6,381.0
1993	(a)	—	8.6	1,335.3	213.6	8.7	165.4	^a 4,853.9	0.6	^a 6,587.1	^a 6,587.1	^a 23.3	^a 6,610.4
1994	(a)	0.1	8.2	1,076.4	206.1	10.7	175.0	5,150.4	0.8	6,641.7	6,641.8	20.8	6,662.5

^a Liquefied petroleum gases.

(a) Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of

Appendix A.

(a) Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 94. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Illinois

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.39	0.36	4.80	0.67	—	0.85	0.15	0.05	0.32
1971	0.34	0.38	0.81	0.67	—	0.83	0.16	—	0.38
1972	0.38	0.42	0.65	0.65	—	0.78	0.15	—	0.39
1973	0.42	0.60	0.67	1.20	—	0.84	0.16	—	0.40
1974	0.55	0.76	1.24	1.38	—	1.53	0.17	—	0.55
1975	0.75	1.13	1.36	2.31	—	1.83	0.18	—	0.66
1976	0.85	1.37	2.04	2.44	—	2.16	0.19	—	0.77
1977	1.02	1.79	2.45	2.82	—	2.85	0.21	—	0.82
1978	1.25	2.73	2.53	2.88	—	2.81	0.25	—	1.10
1979	1.46	2.68	3.62	3.95	—	3.84	0.30	—	1.39
1980	1.82	3.19	5.60	6.38	—	6.84	0.33	—	1.60
1981	1.56	4.13	7.35	7.84	—	7.37	0.42	—	1.78
1982	1.08	4.58	7.06	7.49	—	7.09	0.51	—	1.81
1983	2.04	5.28	6.18	8.33	—	6.19	0.56	—	1.81
1984	1.98	4.87	6.19	6.43	—	6.21	0.58	—	1.63
1985	2.18	5.18	6.88	6.05	—	6.69	0.64	—	1.67
1986	2.12	4.62	5.24	3.64	—	5.09	0.64	—	1.61
1987	2.00	3.88	3.86	4.22	—	3.83	0.64	—	1.42
1988	1.91	3.27	2.85	3.77	—	3.12	0.66	—	1.23
1989	1.81	3.28	3.36	4.38	—	3.59	0.80	—	1.13
1990	1.75	2.87	3.43	5.39	—	3.89	0.57	—	1.12
1991	1.71	2.10	2.72	4.72	—	3.00	0.49	—	1.08
1992	1.74	2.20	2.81	4.44	—	3.06	0.52	1.11	1.04
1993	1.70	2.44	2.86	4.19	—	2.97	0.52	—	1.07
1994	1.81	2.00	2.64	3.92	—	2.93	0.53	—	1.07
Expenditures in Million Nominal Dollars									
1970	188.2	47.7	12.2	10.3	—	22.5	4.1	(9)	284.5
1971	200.3	49.1	28.2	17.2	—	43.4	7.5	—	306.3
1972	236.3	31.7	32.8	32.5	—	64.8	20.6	—	353.2
1973	281.6	24.3	33.5	26.9	—	60.4	34.7	—	401.2
1974	364.2	33.6	54.5	35.8	—	110.3	39.2	—	546.3
1975	494.2	39.8	61.4	49.1	—	119.5	48.2	—	699.6
1976	582.5	43.0	88.1	55.4	—	143.5	56.5	—	825.6
1977	715.6	26.6	148.5	96.4	—	212.9	65.6	—	1,021.0
1978	882.3	63.4	207.7	68.2	—	276.9	88.8	—	1,291.5
1979	1,030.3	86.5	313.1	67.2	—	380.3	96.4	—	1,595.5
1980	1,161.8	82.3	449.3	31.3	—	480.6	89.4	—	1,794.2
1981	1,252.2	85.7	442.7	26.5	—	489.2	135.3	—	1,912.3
1982	1,303.7	46.8	318.3	25.0	—	343.2	157.4	—	1,863.1
1983	1,451.7	65.1	225.4	20.1	—	245.5	171.2	—	1,833.4
1984	1,350.1	30.0	174.7	13.6	—	190.2	213.8	—	1,794.0
1985	1,441.8	31.3	97.4	15.4	—	112.7	275.5	—	1,864.1
1986	1,379.4	26.8	137.1	8.7	—	146.8	294.6	—	1,848.5
1987	1,236.5	11.9	72.3	10.4	—	82.6	347.6	—	1,678.7
1988	1,091.7	19.0	37.2	12.1	—	49.3	466.7	—	1,639.8
1989	998.7	23.1	32.5	11.8	—	44.1	494.5	—	1,550.4
1990	1,036.1	24.8	87.8	15.0	—	52.1	438.4	—	1,568.3
1991	1,020.0	27.4	43.7	13.6	—	57.3	381.5	—	1,496.4
1992	936.2	20.8	30.7	9.5	—	43.1	408.9	0.1	1,410.0
1993	1,121.0	38.8	27.8	11.4	—	39.0	437.6	—	1,637.8
1994	1,086.0	70.5	33.0	14.2	—	47.2	408.3	—	1,583.0

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

—No consumption.

(9)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 95. Energy Price and Expenditure Estimates by Source, 1970-1994, Indiana

Year	Primary Energy													Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^d	
	Coal			Natural Gas	Petroleum						Nuclear Fuel	Biotofuels	Total ^c				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b							Total
Prices in Nominal Dollars per Million Btu																	
1970	0.44	0.32	0.38	0.88	1.03	0.74	1.00	2.00	0.57	\$1.29	2.01	—	—	0.83	0.28	0.15	1.40
1971	0.55	0.32	0.39	0.72	1.07	0.78	1.04	3.01	0.63	\$1.30	1.96	—	—	0.98	0.28	0.20	1.51
1972	0.69	0.38	0.45	0.78	1.11	0.78	1.03	2.84	0.63	\$1.35	1.91	—	—	1.00	0.32	0.57	1.53
1973	0.69	0.38	0.49	0.83	1.43	0.92	3.02	3.14	0.75	\$1.37	2.19	—	—	1.12	0.34	0.66	1.73
1974	1.36	0.66	0.88	0.93	2.46	1.59	3.00	4.47	1.74	\$2.24	3.24	—	—	1.87	0.50	0.23	2.41
1975	1.78	0.73	1.09	1.44	2.49	2.08	3.34	4.78	1.81	\$2.61	3.51	—	—	1.90	0.62	7.08	2.82
1976	1.52	0.78	0.99	1.39	2.63	2.35	3.43	4.92	1.87	\$2.71	3.59	—	—	1.99	0.70	7.75	3.03
1977	1.69	0.69	1.14	1.76	3.08	2.86	3.93	5.21	2.18	\$2.81	3.69	—	—	2.24	0.95	9.06	3.45
1978	2.02	1.10	1.42	1.95	3.21	2.67	4.26	5.38	2.34	\$2.87	4.04	—	—	2.46	1.17	10.46	3.76
1979	1.88	1.22	1.41	2.41	4.77	3.91	4.94	7.25	2.92	\$3.75	5.49	—	—	2.93	1.20	11.19	4.42
1980	2.13	1.31	1.53	2.86	6.46	6.89	6.58	10.96	3.63	\$5.75	7.79	—	—	3.87	1.30	12.32	5.64
1981	2.50	1.51	1.79	3.30	6.13	7.55	6.18	11.05	4.50	\$5.02	9.23	—	—	4.26	1.52	13.53	6.41
1982	2.58	1.60	1.81	3.98	7.90	7.22	7.27	10.48	4.18	\$7.04	8.84	—	—	4.37	1.64	15.58	6.89
1983	2.45	1.55	1.75	4.88	\$7.66	\$6.42	7.83	9.12	4.65	\$7.30	\$6.22	—	—	4.20	1.58	15.47	6.98
1984	2.30	1.60	1.75	4.88	\$7.69	\$6.14	7.77	8.74	4.60	\$7.33	\$7.88	—	—	4.14	1.62	15.67	\$6.84
1985	2.24	1.64	1.77	4.71	\$7.68	5.81	8.71	8.85	4.48	\$7.19	7.87	—	—	4.12	1.68	15.95	6.94
1986	2.06	1.69	1.67	4.69	\$5.78	3.90	7.31	6.48	2.82	\$5.66	\$5.77	—	—	\$3.50	1.60	17.74	\$6.29
1987	1.92	1.46	1.55	4.08	6.11	3.96	7.44	6.90	2.64	\$4.89	\$5.98	—	—	3.42	1.47	19.91	6.09
1988	2.02	1.44	1.87	4.31	\$5.75	3.74	7.45	6.94	2.10	\$4.90	5.92	—	—	3.37	1.44	19.53	6.06
1989	1.92	1.37	1.49	4.82	6.41	4.33	9.82	7.60	2.34	\$5.03	\$5.50	—	—	3.54	1.37	15.92	\$6.32
1990	1.84	1.37	1.46	4.26	\$7.56	6.82	9.84	6.74	2.68	\$4.83	7.41	—	—	\$3.80	\$3.72	1.38	\$6.78
1991	1.99	1.38	1.46	4.25	\$7.08	4.78	9.37	6.60	2.37	\$5.30	\$7.22	—	—	2.95	1.36	15.64	\$6.72
1992	2.00	1.32	1.42	4.18	\$6.79	4.41	9.93	6.29	2.46	\$5.31	\$5.94	—	—	3.03	1.32	15.69	\$6.61
1993	1.98	1.29	1.37	4.62	\$6.78	4.10	9.13	\$6.11	2.20	\$5.03	\$5.80	—	—	2.73	1.28	15.19	\$6.64
1994	1.90	1.29	1.35	5.13	6.87	3.82	8.39	5.21	2.26	4.98	5.78	—	—	2.70	1.29	15.42	7.01

Expenditures in Million Nominal Dollars																	
1970	151.8	212.7	364.5	358.0	176.3	18.6	82.9	921.2	14.2	\$128.9	1,314.0	—	—	2,037.6	-136.3	657.3	2,569.3
1971	168.7	202.0	370.7	386.9	181.9	11.7	83.0	951.8	34.9	\$140.8	1,403.0	—	—	2,170.5	-168.9	707.2	2,721.8
1972	216.9	260.3	476.2	437.0	221.6	12.2	75.5	947.6	35.6	\$152.9	1,445.2	—	—	2,369.3	-177.4	821.3	3,002.2
1973	260.6	279.4	540.0	432.7	281.4	14.7	119.9	1,091.4	46.0	\$173.9	1,737.2	—	—	2,710.0	-207.3	918.5	3,421.2
1974	523.1	370.5	893.6	478.6	474.4	22.9	124.6	1,509.8	135.1	\$265.9	2,539.9	—	—	3,905.1	-288.4	1,020.6	4,637.3
1975	681.7	606.5	1,288.2	632.0	473.8	38.4	180.9	1,614.2	120.8	\$264.0	2,648.4	—	—	4,290.8	-372.8	1,282.3	5,210.3
1976	503.5	559.7	1,063.3	574.2	546.7	34.4	183.4	1,738.8	176.7	\$246.4	2,926.5	—	—	4,559.1	-443.9	1,483.6	5,567.9
1977	595.4	670.9	1,266.3	683.6	665.7	39.7	233.5	1,846.7	220.8	\$281.3	3,289.7	—	—	5,239.8	-555.9	1,644.2	6,620.7
1978	627.6	900.3	1,527.9	836.6	690.3	40.0	218.7	1,996.7	248.7	\$331.3	3,623.6	—	—	6,888.0	-783.8	2,121.4	7,255.5
1979	935.2	1,016.9	1,952.0	1,181.4	1,002.2	66.6	188.8	2,490.9	282.4	\$389.0	4,373.9	—	—	7,187.4	-634.6	2,338.7	8,891.6
1980	684.8	1,081.8	1,778.9	1,348.1	1,227.3	78.6	174.3	3,162.8	281.7	\$488.7	5,363.4	—	—	8,502.3	-961.8	2,624.5	10,076.4
1981	923.4	1,240.3	2,063.7	1,558.5	1,369.2	120.2	181.5	3,651.3	170.7	\$736.6	6,109.5	—	—	9,732.7	-1,077.5	2,752.3	11,407.7
1982	676.4	1,262.5	1,937.9	1,818.7	1,328.1	176.9	177.1	3,103.4	90.8	\$583.3	6,429.4	—	—	9,074.0	-1,088.3	3,075.3	11,054.0
1983	686.3	1,337.4	1,938.6	2,019.6	\$1,236.3	\$1,168.6	103.0	2,757.5	69.2	\$588.1	\$4,068.9	—	—	\$6,921.1	-1,174.4	3,218.6	\$10,865.3
1984	682.9	1,533.0	2,115.9	2,150.1	\$1,365.3	\$1,368.6	147.9	2,685.2	44.8	\$609.2	\$5,392.7	—	—	\$5,668.7	-1,350.6	3,346.7	\$11,854.9
1985	660.1	1,546.3	2,186.1	1,855.4	\$1,376.7	\$507.4	153.5	2,884.9	57.9	\$682.4	\$5,352.2	—	—	\$6,485.8	-1,388.4	3,647.8	\$11,744.6
1986	429.4	1,452.5	1,881.9	1,778.1	\$1,070.0	\$400.2	172.4	2,043.5	44.8	\$432.9	\$4,163.9	—	—	\$7,821.8	-1,270.9	3,846.8	\$10,397.6
1987	464.8	1,357.7	1,812.4	1,838.6	\$1,125.7	\$429.4	164.1	2,299.7	43.7	\$440.4	\$4,492.0	—	—	\$7,944.0	-1,191.4	3,948.9	\$10,698.5
1988	561.8	1,427.8	1,989.6	1,820.7	\$983.1	\$350.1	182.0	2,340.0	29.9	\$437.5	\$4,302.6	—	—	\$8,212.9	-1,261.6	3,993.9	\$10,948.0
1989	502.0	1,409.0	1,911.0	2,043.6	\$1,237.0	\$429.8	258.1	2,450.7	35.7	\$422.3	\$4,843.6	—	—	\$8,798.3	-1,284.3	3,912.8	\$11,456.9
1990	437.9	1,446.6	1,983.5	\$1,875.8	\$1,440.5	\$686.3	325.3	2,827.0	47.7	\$605.5	\$5,713.5	—	—	\$21.5	\$9,804.1	-1,806.8	\$12,116.2
1991	438.9	1,519.2	1,958.5	1,903.3	\$1,538.5	\$493.5	318.9	2,788.6	31.0	\$523.7	\$5,443.1	—	—	23.4	\$9,328.0	-1,261.5	\$11,399.2
1992	384.2	1,460.2	1,844.6	1,975.6	\$1,254.6	\$389.7	228.0	2,897.2	40.9	\$518.6	\$5,146.9	—	—	23.7	\$8,991.6	-1,306.4	\$11,697.6
1993	344.5	1,400.4	1,805.1	2,280.8	\$1,308.7	\$360.9	\$259.5	\$2,789.3	\$29.5	\$578.9	\$5,335.2	—	—	14.0	\$9,434.9	-1,300.6	\$12,268.2
1994	246.4	1,502.3	1,748.7	2,697.0	\$1,433.8	\$374.5	214.4	2,641.3	29.3	\$606.3	\$5,497.4	—	—	14.0	\$8,887.1	-1,388.7	\$12,584.5

^a Liquid petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used as electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 96. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Indiana

Year	Primary Energy							Electricity	Total Energy ^c	
	Coal	Natural Gas	Petroleum			Biofuels ^b	Total ^a			
			Distillate Fuel	Kerosene	LPG ^a					
Prices in Nominal Dollars per Million Btu										
1970	1.16	1.06	1.21	1.69	2.10	1.52	—	1.18	6.66	2.82
1971	1.03	1.07	1.29	1.52	2.05	1.53	—	1.23	8.59	2.09
1972	1.18	1.13	1.30	1.39	2.16	1.57	—	1.29	7.03	2.22
1973	1.17	1.20	1.66	1.76	1.82	2.32	—	1.60	7.22	2.64
1974	2.29	1.28	2.59	2.83	3.30	2.82	—	1.61	7.81	2.94
1975	2.32	1.47	3.37	3.11	3.92	3.02	—	2.00	8.96	3.28
1976	2.62	1.71	2.81	3.25	4.17	3.23	—	2.26	8.54	3.65
1977	2.45	2.04	3.22	3.82	4.66	3.67	—	2.64	10.71	4.26
1978	2.57	2.19	3.50	4.01	4.66	3.85	—	2.77	12.04	4.58
1979	2.31	2.67	5.24	5.72	6.34	5.62	—	3.43	12.96	5.43
1980	2.49	3.19	7.79	8.55	7.37	7.31	—	4.90	13.86	6.42
1981	2.75	3.83	8.54	10.60	7.94	8.51	—	4.57	16.36	7.23
1982	2.80	4.32	8.24	10.44	8.65	8.53	—	5.05	17.76	8.15
1983	2.75	8.46	7.62	8.37	9.01	8.38	—	8.84	17.99	9.15
1984	2.82	8.85	7.61	8.18	8.64	8.31	—	6.98	19.62	9.64
1985	2.77	8.59	7.39	8.79	8.79	8.64	—	5.81	20.37	9.82
1986	2.83	8.47	8.86	8.64	7.64	8.40	—	5.65	21.14	10.02
1987	2.57	4.91	8.71	8.69	7.32	8.39	—	5.10	21.38	9.88
1988	2.54	5.05	8.71	8.69	7.46	8.48	—	5.25	20.96	9.72
1989	2.46	8.41	8.30	7.38	8.78	8.08	—	5.79	20.31	9.87
1990	2.62	5.28	7.82	8.81	10.00	8.95	^a 3.80	^a 5.47	26.13	^a 9.58
1991	2.62	5.38	8.85	8.15	8.67	8.02	3.65	^a 5.85	19.72	^a 9.61
1992	2.56	5.37	8.14	7.20	8.40	7.87	3.85	^a 5.59	20.11	^a 9.42
1993	2.53	5.69	8.13	7.19	9.01	7.62	3.65	^a 5.88	19.56	^a 9.76
1994	2.52	8.18	8.15	7.20	9.53	7.99	3.56	6.31	19.66	10.27
Expenditures in Million Nominal Dollars										
1970	6.3	190.3	86.3	16.4	26.2	124.1	—	249.8	391.8	891.5
1971	5.6	175.9	64.2	15.5	49.3	129.9	—	310.3	322.6	632.9
1972	7.7	192.9	66.7	15.2	50.4	144.3	—	344.8	368.0	712.6
1973	4.5	185.3	90.1	13.2	100.8	204.1	—	393.8	403.0	796.9
1974	9.7	202.4	131.7	14.5	82.7	228.9	—	441.5	440.8	881.6
1975	17.6	237.8	129.4	12.6	97.1	238.1	—	485.7	477.5	971.1
1976	12.4	259.0	159.4	20.7	106.6	286.6	—	568.0	542.6	1,006.6
1977	7.9	306.6	183.8	22.9	117.4	324.0	—	638.6	669.7	1,298.2
1978	8.5	365.2	204.1	26.5	111.1	341.7	—	710.5	750.5	1,461.0
1979	2.8	458.5	236.9	17.3	90.7	344.3	—	805.5	811.3	1,617.4
1980	4.1	518.3	225.8	23.9	99.8	346.4	—	890.9	918.5	1,771.8
1981	8.9	573.5	294.1	32.0	95.3	331.4	—	911.9	1,001.6	1,913.8
1982	12.7	702.6	202.7	30.3	81.9	314.9	—	1,030.1	1,170.1	2,250.3
1983	15.0	737.8	307.4	21.6	111.2	249.7	—	1,052.9	1,218.8	2,271.7
1984	14.8	682.3	118.7	27.9	87.3	233.8	—	1,110.9	1,344.7	2,456.8
1985	11.3	818.4	111.9	28.2	73.9	208.9	—	1,098.6	1,376.4	2,468.8
1986	12.2	772.9	66.1	14.8	72.4	182.3	—	957.4	1,479.4	2,446.8
1987	11.1	801.3	91.8	15.3	79.8	189.8	—	898.1	1,644.4	2,430.6
1988	12.7	792.6	92.9	19.7	92.3	204.6	—	1,010.2	1,607.0	2,617.2
1989	10.0	857.6	84.9	22.3	147.1	254.3	—	1,121.8	1,544.0	2,665.9
1990	11.4	785.6	75.3	13.9	127.9	217.8	^a 18.1	^a 1,002.3	^a 1,818.8	^a 2,821.8
1991	9.0	799.6	78.4	14.6	113.1	206.2	19.0	^a 1,033.7	1,830.0	^a 2,863.8
1992	8.4	829.1	67.8	7.8	117.3	192.8	20.9	^a 1,050.9	1,867.0	^a 2,637.3
1993	9.6	944.3	75.4	10.3	122.4	206.1	10.3	^a 1,160.8	1,868.0	^a 2,835.7
1994	7.2	982.6	65.4	11.2	126.2	204.8	10.1	1,204.7	1,697.0	2,901.7

^a Unrefined petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.^a Revised data.

—No consumption.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 97. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Indiana

Year	Primary Energy								Electricity	Total Energy ^a
	Coal	Natural Gas	Petroleum					Total		
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel			
Prices in Nominal Dollars per Million Btu										
1970	0.52	0.89	1.04	0.81	1.28	2.88	8.70	1.08	0.88	1.78
1971	0.43	0.88	1.10	0.83	1.38	3.01	0.73	1.00	0.90	1.83
1972	0.50	0.92	1.10	0.83	1.37	2.84	0.74	1.00	0.94	1.95
1973	0.59	0.99	1.44	1.13	1.43	2.14	0.75	1.28	1.05	2.34
1974	0.96	1.09	2.38	2.38	2.54	4.47	1.82	2.20	1.39	2.82
1975	1.36	1.28	2.39	2.41	2.63	4.75	1.74	2.37	1.58	3.83
1976	1.16	1.51	2.60	2.46	2.76	4.92	2.08	2.45	1.92	3.46
1977	1.28	1.68	2.90	2.89	3.40	5.21	2.54	2.90	2.24	4.18
1978	1.48	2.03	3.18	3.03	3.98	5.38	2.52	3.04	2.50	4.80
1979	1.47	2.48	4.02	4.05	3.53	7.25	3.47	4.23	2.99	5.34
1980	1.58	2.89	6.86	6.14	5.10	18.80	4.38	6.81	3.89	8.18
1981	1.68	3.41	8.03	7.03	4.86	11.06	5.84	7.58	3.82	8.97
1982	1.50	4.11	7.88	7.20	6.10	10.46	5.69	7.80	4.32	7.64
1983	1.43	5.14	^R 6.38	7.01	6.85	9.12	5.12	^R 6.32	^R 5.13	^R 7.79
1984	1.51	5.19	^R 6.46	7.24	6.81	8.74	4.55	^R 6.95	^R 5.18	^R 8.38
1985	1.86	5.08	^R 6.86	^R 6.88	8.46	8.86	4.46	^R 6.32	5.83	17.51
1986	1.53	4.90	^R 3.62	^R 4.41	7.83	6.48	2.81	^R 4.41	^R 4.51	18.42
1987	1.38	4.41	^R 4.19	^R 4.94	7.55	6.80	2.61	^R 4.92	4.22	18.34
1988	1.47	4.53	^R 3.73	^R 4.49	7.44	6.84	2.68	^R 4.88	4.26	18.72
1989	1.46	4.70	^R 4.44	^R 5.22	7.61	7.80	2.31	^R 5.28	^R 4.53	18.18
1990	1.44	4.82	^R 5.31	^R 6.84	9.38	6.74	2.34	^R 6.83	4.86	17.87
1991	1.44	4.55	^R 4.91	^R 5.57	9.81	6.80	2.38	^R 6.05	^R 4.54	17.64
1992	1.36	4.52	^R 4.62	^R 5.44	8.40	6.28	2.47	^R 5.78	^R 4.48	17.81
1993	1.35	4.93	^R 4.44	^R 5.33	9.23	^R 6.11	2.18	^R 5.65	^R 4.85	17.34
1994	1.39	5.28	4.21	5.16	7.75	6.21	2.21	5.24	5.05	17.60
Expenditures in Million Nominal Dollars										
1970	5.5	64.5	16.3	9.8	6.4	3.9	8.7	38.7	148.8	195.4
1971	4.4	68.7	18.0	0.5	5.8	3.3	7.0	36.1	108.2	286.9
1972	7.0	79.0	20.6	0.9	6.6	3.4	6.9	38.4	124.4	309.7
1973	4.2	75.7	27.1	0.6	6.8	3.8	7.8	45.9	125.8	331.8
1974	7.7	80.2	42.2	1.2	11.2	3.5	18.0	76.1	183.9	382.3
1975	17.8	87.7	49.8	1.8	11.5	3.8	18.0	75.3	188.7	444.7
1976	10.6	101.1	51.2	1.5	12.4	3.2	32.8	101.2	212.8	518.8
1977	7.7	118.3	59.4	1.7	15.1	7.0	42.1	125.3	248.3	638.0
1978	3.8	140.8	64.8	1.9	18.6	4.1	40.6	127.8	272.4	686.7
1979	3.3	182.5	75.8	1.2	9.9	5.3	48.1	140.1	325.9	767.0
1980	5.8	248.9	77.8	1.1	11.1	11.7	65.6	147.4	379.3	854.4
1981	7.8	240.3	53.3	0.4	9.9	12.9	2.9	79.3	327.9	888.1
1982	12.6	300.1	64.5	0.7	11.2	11.7	3.2	91.3	405.9	1,008.2
1983	14.4	338.2	^R 114.8	14.8	14.5	17.2	34.6	^R 195.6	^R 548.2	^R 1,135.6
1984	14.2	375.5	^R 125.6	10.0	11.5	15.6	20.5	^R 183.4	^R 573.1	^R 1,264.8
1985	12.1	358.9	^R 98.1	^R 8.2	12.9	16.3	16.7	^R 138.3	^R 481.3	^R 1,333.8
1986	12.1	320.3	^R 38.8	^R 9.4	13.3	16.8	4.0	^R 78.0	^R 406.5	^R 1,221.5
1987	11.0	286.8	^R 34.1	1.4	14.5	16.8	4.8	^R 71.4	^R 371.2	^R 1,243.0
1988	13.7	329.9	^R 28.1	2.0	18.2	16.5	3.1	^R 67.0	^R 410.5	^R 1,414.5
1989	11.0	351.9	^R 29.8	^R 1.2	20.7	17.1	5.1	^R 74.0	^R 436.9	^R 1,420.9
1990	11.6	^R 309.2	^R 33.1	1.3	20.8	25.6	1.8	^R 82.0	^R 482.8	^R 1,386.8
1991	9.1	^R 315.2	^R 33.7	^R 1.4	21.4	16.0	3.1	^R 75.4	^R 388.8	1,024.2
1992	8.2	^R 332.5	^R 28.1	1.8	18.4	14.5	0.3	^R 73.1	^R 413.7	1,014.1
1993	6.7	^R 389.5	^R 41.8	^R 1.5	22.2	^R 12.5	0.5	^R 78.3	^R 474.5	1,037.9
1994	7.2	404.1	37.7	2.0	18.4	11.2	0.8	88.8	481.1	1,080.0

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.^R Revised data.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 98. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Indiana

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Biofuels ^d	Total ^d		
	Colong Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^e	Lubricants	Motor Gasoline	Residual Fuel	Other ^f	Total				
Prices in Nominal Dollars per Million Btu																	
1970	0.44	0.52	0.47	0.47	0.78	0.74	0.81	1.28	5.08	2.28	0.88	4.88	1.05	—	0.58	3.52	8.75
1971	0.55	0.43	0.52	0.51	0.86	0.77	0.83	1.32	5.27	3.01	0.59	0.83	1.00	—	0.63	3.58	0.82
1972	0.59	0.58	0.58	0.55	0.88	0.77	0.83	1.37	5.58	2.84	0.60	0.81	1.02	—	0.67	3.88	0.87
1973	0.69	0.69	0.68	0.59	0.88	1.04	1.13	1.49	5.33	3.14	0.75	0.87	1.15	—	0.75	3.99	0.96
1974	1.38	0.98	1.30	0.70	1.81	2.18	2.38	2.54	7.22	4.47	1.83	1.42	2.15	—	1.33	4.64	1.57
1975	1.76	1.38	1.68	0.88	2.05	3.24	3.41	2.83	7.48	4.75	1.86	1.94	2.30	—	1.64	5.87	2.61
1976	1.52	1.16	1.44	1.09	2.00	2.26	2.46	2.76	7.05	4.92	1.80	1.99	2.28	—	1.58	6.24	2.08
1977	1.89	1.28	1.59	1.49	2.05	2.68	2.89	3.40	6.97	5.21	2.05	2.26	2.57	—	1.85	7.69	2.48
1978	2.02	1.46	1.84	1.71	2.14	2.77	3.03	3.99	7.90	5.38	2.22	2.24	2.71	—	2.06	9.11	2.82
1979	1.88	1.47	1.75	2.19	2.58	3.74	4.05	3.93	10.21	7.25	2.78	2.89	3.39	—	2.25	9.71	3.04
1980	2.13	1.58	1.89	2.63	3.72	5.67	6.14	5.18	14.38	16.08	3.43	4.68	4.76	—	2.78	11.00	3.67
1981	2.50	1.68	2.29	3.05	5.55	6.44	7.03	4.85	18.00	11.05	4.45	7.55	6.49	—	3.34	12.06	4.27
1982	2.69	1.50	2.24	3.70	4.35	6.62	7.20	6.10	17.25	10.48	4.11	6.71	6.15	—	3.49	14.00	4.75
1983	2.45	1.43	2.19	4.34	4.42	\$ 6.94	7.01	4.65	16.88	9.12	4.22	7.68	\$ 6.54	—	3.60	13.07	4.90
1984	2.30	1.51	2.08	4.23	4.65	\$ 6.53	7.24	6.61	17.83	9.74	4.55	6.89	\$ 6.82	—	3.46	14.37	4.74
1985	2.24	1.88	2.04	4.84	4.81	\$ 6.15	\$ 6.42	6.86	17.61	9.85	4.40	6.77	\$ 6.95	—	3.88	14.84	\$ 4.88
1986	2.05	1.83	1.87	3.78	3.94	\$ 6.97	\$ 6.41	7.93	15.59	5.48	2.81	\$ 6.40	\$ 6.80	—	3.01	16.13	\$ 4.72
1987	1.92	1.38	1.75	3.38	3.90	\$ 6.45	\$ 6.94	7.55	12.70	8.90	2.81	\$ 6.42	\$ 6.50	—	\$ 2.78	13.35	\$ 4.23
1988	2.02	1.47	1.87	3.69	3.93	\$ 6.89	\$ 6.43	7.44	14.81	8.94	2.88	\$ 6.57	\$ 6.39	—	\$ 2.86	12.43	4.12
1989	1.92	1.46	1.79	3.88	3.93	\$ 6.70	\$ 6.22	7.81	14.48	7.60	2.31	\$ 6.47	\$ 6.71	—	2.93	11.86	\$ 4.20
1990	1.84	1.44	1.73	3.87	3.14	\$ 6.88	\$ 6.54	9.28	14.80	8.74	3.84	\$ 6.74	\$ 6.19	\$ 1.65	\$ 3.04	11.84	\$ 4.20
1991	1.99	1.44	1.82	3.46	3.14	\$ 6.02	\$ 6.57	9.81	16.79	8.60	3.38	\$ 6.49	\$ 6.33	1.69	\$ 3.11	11.82	4.38
1992	2.00	1.39	1.79	3.36	2.62	\$ 6.91	\$ 6.44	8.43	19.43	8.28	2.47	\$ 6.88	\$ 4.86	1.65	\$ 3.01	11.73	\$ 4.37
1993	1.85	1.35	1.73	3.66	3.07	\$ 6.81	\$ 6.33	8.25	18.84	\$ 8.11	2.18	\$ 6.43	\$ 4.79	1.65	\$ 3.14	11.38	\$ 4.44
1994	1.80	1.39	1.68	4.54	3.08	4.66	6.17	6.80	19.18	8.21	2.21	4.20	4.53	1.84	3.65	11.64	4.93

Expenditures in Million Nominal Dollars

1970	161.8	76.9	238.6	123.8	34.7	43.6	6.6	6.9	34.0	35.0	8.2	37.1	182.2	—	894.7	249.8	749.8
1971	199.7	51.6	250.4	140.2	45.9	46.5	0.5	7.3	32.8	29.8	24.6	31.6	215.0	—	878.5	227.0	802.6
1972	215.9	80.7	296.6	157.7	40.9	47.0	0.3	8.8	36.9	24.2	24.6	33.1	215.9	—	870.2	256.0	936.2
1973	260.6	73.7	334.3	167.0	50.5	64.0	0.4	11.8	43.2	24.3	34.1	37.8	268.1	—	767.5	310.4	1,077.8
1974	623.1	101.2	824.3	188.2	99.0	121.0	0.6	29.5	55.2	36.2	89.5	57.9	490.0	—	1,302.5	361.4	1,663.9
1975	681.7	125.1	776.8	198.3	82.5	121.8	0.8	41.8	38.2	31.8	88.2	80.5	480.3	—	1,455.4	518.9	1,974.3
1976	503.6	110.7	614.3	210.7	71.1	133.7	1.3	63.0	40.0	29.7	124.7	71.1	534.5	—	1,359.4	635.3	1,994.7
1977	885.4	138.4	731.9	259.5	83.6	164.8	1.2	101.0	46.3	22.9	148.2	91.8	640.1	—	1,640.4	824.8	2,465.2
1978	827.5	209.7	837.1	325.4	118.9	163.1	1.5	98.4	54.2	30.5	150.0	98.1	684.5	—	1,857.0	883.6	2,840.7
1979	635.2	214.0	849.2	614.3	130.5	164.6	4.9	98.3	75.2	39.9	182.2	107.4	781.9	—	2,145.4	1,085.9	3,231.3
1980	684.0	161.8	845.8	615.0	127.8	162.6	4.7	70.8	95.5	39.8	198.3	98.8	946.8	—	2,307.4	1,136.6	3,444.0
1981	823.4	197.0	1,020.3	729.2	213.7	217.9	6.5	53.9	114.8	47.0	181.3	286.6	1,100.8	—	2,850.3	1,222.5	4,072.8
1982	575.4	169.7	735.1	804.4	158.0	202.6	9.4	70.8	100.3	33.6	86.6	198.2	855.2	—	2,384.7	1,303.9	3,688.6
1983	588.3	159.4	735.6	871.4	169.6	185.9	9.2	83.4	103.4	24.3	31.6	188.3	734.1	—	2,382.1	1,412.4	3,794.5
1984	682.9	170.2	753.0	905.4	185.1	178.4	9.5	43.8	114.6	44.3	19.1	170.9	783.6	—	2,423.0	1,310.5	3,733.6
1985	598.1	163.9	744.0	828.8	178.2	160.8	8.1	68.1	108.8	41.9	46.8	185.1	788.8	—	2,381.4	1,588.1	3,969.5
1986	429.4	170.7	600.2	877.9	188.5	123.6	8.0	82.5	92.2	28.3	39.8	81.2	811.4	—	1,889.5	1,554.2	3,443.7
1987	454.8	155.0	609.8	858.6	166.4	147.1	8.1	88.4	85.0	30.3	36.9	98.5	834.7	—	1,903.3	1,462.6	3,365.9
1988	561.8	158.4	720.2	789.2	153.5	98.8	2.8	68.4	94.3	29.3	24.5	87.8	860.9	—	2,069.8	1,382.8	3,452.7
1989	502.0	155.7	657.6	823.2	128.4	131.9	2.3	85.9	85.6	30.2	27.0	87.9	889.3	—	2,080.3	1,384.8	3,465.2
1990	437.8	181.8	619.6	793.3	178.1	188.2	2.0	171.3	99.4	26.5	43.3	127.8	808.5	0.55	2,183.8	1,418.0	3,601.8
1991	438.9	145.4	584.3	764.3	148.9	158.7	1.5	178.9	102.3	32.0	26.8	177.8	819.4	4.4	2,172.4	1,407.6	3,580.0
1992	384.2	134.6	518.8	795.7	108.0	155.7	1.7	85.2	120.7	27.8	37.5	150.4	728.0	3.6	2,045.1	1,480.4	3,525.5
1993	344.9	141.9	486.8	930.9	193.6	133.0	1.4	104.7	119.8	31.5	22.8	166.6	773.2	3.7	2,199.9	1,489.9	3,689.8
1994	246.4	133.0	379.4	1,188.6	207.6	139.6	2.0	80.6	126.8	38.1	24.1	189.8	766.3	3.8	2,335.1	1,578.0	3,913.2

* Liquidated petroleum gases

* "Other" is the "other petroleum products" category described in Appendix A

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

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

* Revised data

* No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 99. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Indiana

Year	Primary Energy										Total	Electricity	Total Energy
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
1970	0.52	—	2.17	1.23	0.74	1.26	5.09	2.85	0.85	2.57	2.57	—	2.57
1971	0.43	—	2.21	1.23	0.78	1.36	5.27	3.01	0.87	2.69	2.69	—	2.69
1972	0.59	—	2.10	1.28	0.78	1.37	5.58	2.84	0.85	2.54	2.54	—	2.54
1973	0.59	—	2.36	1.61	0.82	1.43	5.33	3.14	0.87	2.83	2.83	—	2.83
1974	0.66	—	3.23	2.69	1.56	2.64	7.22	4.47	1.44	4.96	4.96	—	4.96
1975	1.36	—	3.45	2.89	2.08	2.83	7.48	4.78	1.55	4.38	4.38	—	4.38
1976	1.16	—	3.59	2.81	2.35	2.76	7.05	4.82	1.80	4.50	4.50	—	4.50
1977	1.28	—	3.97	3.36	2.63	3.40	8.07	5.21	2.28	4.81	4.81	—	4.81
1978	—	—	4.29	3.37	2.87	3.86	7.60	5.38	2.24	5.00	5.00	—	5.00
1979	—	—	5.73	5.02	3.92	5.83	10.21	7.25	3.10	6.67	6.67	—	6.67
1980	—	—	5.02	7.17	5.38	8.10	14.36	10.09	3.27	8.25	8.25	—	8.25
1981	—	—	10.64	6.63	7.55	4.85	18.00	11.05	5.43	10.41	10.41	—	10.41
1982	—	—	10.82	8.30	7.22	5.10	17.25	10.46	5.14	9.81	9.81	—	9.81
1983	—	—	10.44	8.17	6.42	6.55	16.96	9.12	4.82	9.80	9.80	—	9.80
1984	—	—	10.27	8.18	6.14	6.61	17.53	8.74	5.00	9.83	9.83	—	9.83
1985	—	—	9.96	8.28	5.81	6.86	17.81	8.65	4.85	9.27	9.27	—	9.27
1986	—	—	9.41	6.45	5.90	7.83	16.59	6.48	3.35	8.93	8.93	—	8.93
1987	—	—	7.55	6.78	3.99	7.53	12.70	6.90	3.22	8.35	8.35	—	8.35
1988	—	—	7.41	6.31	3.74	7.44	14.61	6.94	2.87	8.31	8.31	—	8.31
1989	—	—	9.28	6.89	4.33	7.81	14.48	7.80	2.86	8.89	8.89	—	8.89
1990	—	—	9.32	8.00	6.82	9.96	14.88	8.74	3.80	8.83	8.83	—	8.83
1991	2.84	—	8.71	7.71	4.78	9.61	16.79	6.90	2.59	7.76	7.76	23.85	31.77
1992	4.20	—	8.54	7.46	4.41	8.43	19.43	6.28	2.41	7.52	7.52	24.15	31.67
1993	5.16	—	8.24	7.42	4.10	9.25	19.94	6.11	2.42	7.35	7.35	26.34	33.69
1994	6.05	—	7.96	7.54	3.82	9.65	19.18	6.21	2.56	7.38	7.38	26.34	33.72

Year	Expenditures in Million Nominal Dollars										Total	Electricity	Total Energy
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
1970	0.4	—	4.0	55.1	10.6	0.8	18.9	882.3	1.3	875.5	875.5	—	875.5
1971	0.2	—	3.9	61.0	11.7	0.6	19.4	821.6	1.0	1,019.3	1,019.3	—	1,019.3
1972	0.3	—	3.2	62.7	12.2	0.6	22.0	819.6	0.7	1,041.7	1,041.7	—	1,041.7
1973	0.2	—	3.3	109.2	14.7	0.7	23.4	1,083.5	0.5	1,215.4	1,215.4	—	1,215.4
1974	0.2	—	4.9	179.8	22.9	1.2	30.4	1,470.2	2.6	1,708.3	1,708.3	—	1,708.3
1975	0.1	—	3.8	173.3	30.4	1.2	34.6	1,578.7	3.2	1,826.1	1,826.1	—	1,826.1
1976	(a)	—	4.6	197.5	34.4	1.6	36.2	1,706.9	3.7	1,984.0	1,984.0	—	1,984.0
1977	(b)	—	5.3	258.2	39.4	2.0	35.3	1,816.9	4.3	2,156.3	2,156.3	—	2,156.3
1978	—	—	7.0	245.5	40.0	2.7	34.2	1,962.1	2.7	2,234.2	2,234.2	—	2,234.2
1979	—	—	7.4	514.5	55.9	1.9	48.1	2,445.7	2.5	3,075.8	3,075.8	—	3,075.8
1980	—	—	11.8	784.9	78.5	3.6	68.3	3,111.7	4.9	4,003.3	4,003.3	—	4,003.3
1981	—	—	10.3	861.4	120.2	3.0	72.6	3,491.4	6.5	4,565.3	4,565.3	—	4,565.3
1982	—	—	7.1	837.4	178.9	3.9	63.0	3,059.1	0.8	4,148.9	4,148.9	—	4,148.9
1983	—	—	7.9	834.9	159.6	3.9	65.3	2,710.0	2.8	3,783.5	3,783.5	—	3,783.5
1984	—	—	13.0	963.8	133.5	5.2	72.3	2,805.2	5.1	4,201.1	4,201.1	—	4,201.1
1985	—	—	13.4	984.8	160.4	4.6	57.3	2,836.0	0.9	4,232.9	4,232.9	—	4,232.9
1986	—	—	18.4	905.0	400.2	4.2	58.2	1,999.6	1.0	3,286.6	3,286.6	—	3,286.6
1987	—	—	14.4	844.2	428.4	3.6	53.6	2,242.6	2.3	3,589.0	3,589.0	—	3,589.0
1988	—	—	16.2	734.3	350.1	4.1	53.5	2,284.2	2.3	3,460.6	3,460.6	—	3,460.6
1989	—	—	12.0	691.3	428.8	4.4	60.5	2,413.4	3.5	3,904.9	3,904.9	—	3,904.9
1990	—	8.1	14.2	1,183.2	569.3	5.2	63.7	2,772.9	3.5	4,591.2	4,591.2	0.6	4,591.8
1991	—	0.2	13.3	1,060.6	463.5	5.5	64.8	2,721.6	1.3	4,330.3	4,330.3	0.8	4,331.1
1992	—	0.3	10.9	980.2	398.7	5.0	76.2	2,894.9	3.1	4,148.9	4,148.9	0.9	4,149.8
1993	—	0.3	8.4	1,048.9	360.3	4.2	75.6	2,745.5	6.2	4,268.2	4,268.2	1.0	4,269.2
1994	—	0.3	6.0	1,161.5	374.5	7.4	80.0	2,784.0	3.7	4,447.4	4,447.4	1.0	4,448.4

^a Leaked petroleum gases

Revised data

—No consumption, including cases where adjustments were made See explanation of adjustments in Section 7 of

Appendix A

(a) Value less than 0.05 million nominal dollars

Note: Expenditure data may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 100. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Indiana

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy *
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.25	0.26	0.75	0.77	0.24	0.58	—	—	0.26
1971	0.26	0.39	0.78	0.81	0.26	0.66	—	—	0.29
1972	0.31	0.42	0.79	0.80	0.27	0.70	—	—	0.32
1973	0.34	0.47	0.74	1.01	0.29	0.89	—	—	0.34
1974	0.46	0.54	1.61	1.74	0.29	1.39	—	—	0.50
1975	0.59	0.82	1.79	2.12	—	1.83	—	—	0.62
1976	0.66	1.09	2.11	2.01	—	2.09	—	—	0.70
1977	0.84	1.33	2.52	2.37	—	2.46	—	—	0.86
1978	1.11	1.86	2.57	2.66	—	2.59	—	—	1.17
1979	1.17	2.19	2.44	3.84	—	3.59	—	—	1.20
1980	1.27	2.51	—	5.99	—	5.99	—	—	1.36
1981	1.46	3.03	—	7.59	—	7.59	—	—	1.52
1982	1.09	3.85	—	6.86	—	6.86	—	—	1.64
1983	1.67	4.24	—	6.09	—	6.09	—	—	1.59
1984	1.64	4.13	—	6.05	—	6.05	—	—	1.62
1985	1.64	4.15	—	5.67	—	5.67	—	—	1.66
1986	1.68	4.54	—	3.89	0.89	2.55	—	—	1.59
1987	1.67	2.82	—	4.12	0.98	2.71	—	—	1.47
1988	1.43	2.59	—	3.93	0.93	2.37	—	—	1.44
1989	1.36	2.70	—	4.22	0.74	2.39	—	—	1.37
1990	1.38	2.99	—	5.13	0.71	2.09	—	—	1.39
1991	1.34	2.39	—	4.94	0.61	2.86	—	—	1.36
1992	1.31	2.49	—	4.43	0.60	2.41	—	—	1.32
1993	1.27	2.74	—	4.21	—	4.21	—	—	1.29
1994	1.27	2.66	—	2.90	—	3.96	—	—	1.29
Expenditures in Million Nominal Dollars									
1970	123.7	18.3	1.0	1.2	0.4	2.6	—	—	136.5
1971	148.1	12.2	2.1	1.2	0.3	3.6	—	—	165.9
1972	164.7	7.7	3.9	1.5	0.3	5.0	—	—	177.4
1973	198.6	4.4	3.7	1.0	1.1	5.8	—	—	207.3
1974	251.6	7.8	25.0	2.7	1.1	28.8	—	—	289.4
1975	343.1	9.6	14.7	9.9	—	24.6	—	—	372.8
1976	420.0	3.4	16.5	4.9	—	20.4	—	—	443.8
1977	518.6	1.4	20.2	6.9	—	25.1	—	—	555.3
1978	683.2	5.2	82.5	12.9	—	95.4	—	—	753.8
1979	795.8	6.1	19.4	12.1	—	31.7	—	—	834.6
1980	821.2	4.8	—	25.4	—	25.4	—	—	851.4
1981	1,026.5	15.9	—	32.8	—	32.8	—	—	1,077.3
1982	1,067.6	9.8	—	21.9	—	21.9	—	—	1,099.3
1983	1,149.6	12.2	—	12.8	—	12.8	—	—	1,174.6
1984	1,333.8	6.0	—	10.8	—	10.8	—	—	1,350.6
1985	1,346.7	4.7	—	14.2	—	14.2	—	—	1,369.6
1986	1,257.4	5.8	—	7.3	1.2	6.5	—	—	1,270.9
1987	1,180.5	3.7	—	6.5	1.7	10.1	—	—	1,194.4
1988	1,243.8	9.0	—	8.0	1.6	9.8	—	—	1,261.8
1989	1,232.3	11.0	—	8.1	2.0	11.1	—	—	1,254.3
1990	1,371.6	17.1	—	12.6	4.1	16.7	—	—	1,404.9
1991	1,355.8	23.9	—	10.1	1.7	11.8	—	—	1,391.5
1992	1,388.0	19.3	—	6.6	1.3	8.1	—	—	1,336.4
1993	1,305.3	15.7	—	9.6	—	9.8	—	—	1,330.6
1994	1,354.8	24.5	—	9.3	—	9.3	—	—	1,389.7

* There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
 — No consumption.

Note: Expenditure totals may not equal sums of components due to independent rounding.
 Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 101. Energy Price and Expenditure Estimates by Source, 1970-1994, Iowa

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum						Nuclear Fuel	Miscellaneous	Total ^c				
	Caking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Boiler Gasoline	Residual Fuel	Other ^b				Total			
Prices in Nominal Dollars per Million Btu																	
1970	—	0.36	0.36	0.57	1.01	0.75	1.00	2.03	0.61	\$1.56	2.11	—	0.65	1.00	0.30	0.30	1.00
1971	—	0.40	0.40	0.61	1.00	0.70	1.57	2.30	0.72	\$1.53	2.44	—	0.60	1.27	0.30	0.57	1.50
1972	—	0.41	0.41	0.76	1.00	0.76	1.57	2.60	0.76	\$1.60	2.92	—	0.72	1.32	0.40	0.70	2.00
1973	—	0.40	0.46	0.75	1.00	0.93	2.56	3.00	0.83	\$1.61	2.40	—	0.77	1.46	0.45	0.82	2.44
1974	—	0.69	0.69	0.90	2.31	1.60	2.99	4.70	1.72	\$2.05	3.30	0.19	0.84	1.80	0.57	7.94	2.70
1975	—	0.86	0.86	1.00	2.45	2.00	3.00	4.00	1.80	\$2.10	3.74	0.25	0.92	2.10	0.70	8.11	3.13
1976	—	0.90	0.90	1.23	2.60	2.26	3.10	4.00	1.91	\$2.15	3.80	0.25	0.90	2.37	0.83	0.87	3.41
1977	—	1.00	1.00	1.50	3.04	2.60	3.74	5.10	2.04	\$2.35	4.23	0.27	1.04	2.60	0.90	10.80	3.60
1978	—	1.24	1.24	1.83	3.13	2.90	3.90	5.42	1.96	\$2.51	4.41	0.34	1.12	2.90	1.10	11.34	4.31
1979	—	1.20	1.20	2.20	4.40	4.00	4.40	7.24	2.43	\$2.55	5.70	0.32	—	3.50	1.10	12.68	5.00
1980	—	1.42	1.42	2.70	6.41	6.47	5.57	9.87	3.10	\$2.74	6.10	0.30	1.74	4.00	1.32	13.87	6.72
1981	—	1.54	1.54	3.42	7.50	7.50	6.00	11.07	3.61	\$2.80	9.26	0.53	1.26	5.12	1.44	15.92	7.70
1982	—	1.62	1.62	4.10	7.32	7.10	6.09	10.62	3.60	\$2.80	8.06	0.54	1.26	5.25	1.50	17.36	8.00
1983	—	1.64	1.64	4.70	\$6.34	\$6.73	6.81	8.40	3.73	\$2.80	\$6.34	0.58	1.12	5.00	1.50	18.43	\$8.20
1984	—	1.50	1.50	4.71	\$6.00	\$6.54	6.44	9.34	4.00	\$2.83	\$6.30	0.70	1.20	4.85	1.48	18.97	8.12
1985	—	1.52	1.52	4.80	\$6.53	6.20	7.32	8.47	4.07	\$2.86	\$6.25	0.84	0.70	\$4.91	1.40	19.92	\$8.80
1986	—	1.41	1.41	4.22	\$5.50	4.36	7.23	7.10	2.66	\$2.52	\$6.56	0.75	0.52	4.00	1.31	18.25	\$7.50
1987	—	1.31	1.31	3.63	\$6.30	4.27	5.95	7.30	2.40	\$2.27	\$6.00	0.71	0.95	\$3.86	1.21	18.30	7.05
1988	—	1.20	1.20	3.00	\$5.64	4.12	5.81	7.37	2.30	\$2.02	\$6.00	0.60	0.87	\$3.60	1.10	17.00	\$6.80
1989	—	1.25	1.25	3.57	\$6.46	4.57	5.84	6.40	2.25	\$2.30	\$7.51	0.67	1.47	\$4.50	1.18	17.30	\$7.10
1990	—	1.16	1.16	3.80	\$7.40	6.11	6.30	6.30	2.36	\$2.62	\$6.30	0.66	\$3.66	\$4.20	1.10	17.37	\$7.00
1991	—	1.15	1.15	3.65	\$6.90	6.21	7.44	6.11	2.24	\$2.32	\$6.10	0.66	3.05	\$4.07	1.07	17.41	\$7.14
1992	—	1.14	1.14	4.24	\$6.00	4.70	7.42	6.72	2.21	\$2.15	\$7.00	0.50	3.12	\$4.25	1.08	17.50	\$7.02
1993	—	1.07	1.07	4.40	\$5.50	4.82	\$8.80	\$8.42	2.18	\$2.17	\$7.80	0.80	3.01	\$4.34	1.00	17.46	\$7.72
1994	—	1.06	1.06	4.51	6.53	4.26	8.73	8.71	2.10	7.40	7.69	0.86	2.90	4.20	0.97	17.36	7.84
Expenditures in Million Nominal Dollars																	
1970	—	47.8	47.8	190.2	80.7	3.0	85.2	300.1	1.0	\$60.0	730.5	—	0.3	800.4	307.5	1,055.5	
1971	—	40.8	40.8	201.0	87.7	2.9	86.1	500.1	1.0	\$61.0	777.5	—	0.3	1,020.5	308.3	1,337.7	
1972	—	50.0	50.0	230.0	85.0	3.2	78.0	601.2	2.4	\$63.0	800.3	—	0.3	1,123.5	312.0	1,435.1	
1973	—	71.1	71.1	267.7	122.0	3.7	121.4	690.8	3.0	\$61.3	900.0	—	0.4	1,317.2	401.0	1,697.7	
1974	—	86.5	86.5	283.1	180.0	6.7	140.3	806.7	7.6	\$60.4	1,200.4	2.0	0.3	1,601.1	500.2	2,081.7	
1975	—	120.4	120.4	332.4	209.0	9.6	153.2	842.1	7.2	\$64.6	1,400.5	4.3	0.4	1,800.0	620.4	2,380.9	
1976	—	165.2	165.2	375.6	285.2	12.3	219.2	1,040.7	10.0	\$127.5	1,600.6	7.0	0.4	2,100.0	700.0	2,780.4	
1977	—	200.1	200.1	437.4	283.1	15.2	245.8	1,122.0	14.0	\$147.5	1,827.9	6.4	0.2	2,474.0	820.0	3,103.2	
1978	—	250.1	250.1	451.2	300.0	18.4	220.0	1,165.3	11.5	\$170.0	1,902.1	4.5	0.1	2,600.0	820.5	3,302.4	
1979	—	283.0	283.0	644.0	500.0	23.6	242.5	1,460.1	18.5	\$200.3	2,500.6	9.9	—	3,470.3	1,040.2	4,280.6	
1980	—	303.3	303.3	779.9	594.0	20.6	236.5	1,203.2	8.3	\$170.5	3,020.6	10.0	0.5	4,094.1	1,100.5	4,994.6	
1981	—	305.0	305.0	831.7	633.0	30.8	212.0	1,993.7	2.4	\$203.4	3,100.9	12.0	0.2	4,300.0	1,230.5	5,460.5	
1982	—	304.5	304.5	963.0	602.1	25.6	283.0	1,843.2	7.7	\$227.3	3,000.9	13.5	0.3	4,431.1	1,061.0	5,492.0	
1983	—	415.2	415.2	1,025.3	\$569.8	\$22.3	290.3	1,515.3	4.9	\$180.9	\$2,700.6	17.0	0.5	\$4,104.9	1,061.0	\$5,522.4	
1984	—	302.7	302.7	1,071.6	\$622.8	\$22.6	170.1	1,500.0	4.4	\$200.6	\$2,621.1	23.0	0.6	\$4,100.0	1,061.0	\$5,261.0	
1985	—	407.0	407.0	1,065.4	\$600.0	20.0	230.5	1,500.7	4.7	\$213.6	\$2,500.0	10.0	0.6	\$4,000.0	1,000.0	\$5,000.0	
1986	—	370.6	370.6	851.0	\$510.0	14.5	230.0	1,174.7	8.1	\$180.1	\$2,000.0	24.4	0.2	\$3,307.3	1,031.1	\$4,338.4	
1987	—	375.2	375.2	713.4	\$644.0	18.7	130.0	1,292.9	1.0	\$130.9	\$2,004.0	10.3	0.7	\$3,463.2	1,007.0	\$4,470.2	
1988	—	300.6	300.6	874.1	\$54.2	19.6	140.2	1,200.5	3.0	\$146.7	\$2,000.0	23.0	0.5	\$3,300.2	1,031.0	\$4,331.2	
1989	—	307.0	307.0	777.2	\$60.0	19.3	180.0	1,200.0	2.6	\$131.2	\$2,300.0	22.6	0.4	\$3,630.1	1,000.0	\$4,630.1	
1990	—	306.2	306.2	800.0	\$670.0	30.7	130.1	1,000.0	1.0	\$130.4	\$2,300.0	21.0	0.4	\$3,600.0	1,000.0	\$4,600.0	
1991	—	307.0	307.0	833.2	\$684.0	26.1	105.1	1,500.0	1.4	\$154.4	\$2,500.0	20.2	0.7	\$3,774.0	1,000.0	\$4,774.0	
1992	—	373.1	373.1	963.1	\$600.0	21.6	241.5	1,400.0	1.5	\$143.0	\$2,500.0	20.4	0.8	\$3,650.7	1,000.0	\$4,650.7	
1993	—	304.0	304.0	1,004.0	\$650.0	19.3	\$467.0	\$1,400.0	2.3	\$140.0	\$2,727.2	20.0	0.5	\$4,204.0	1,000.0	\$5,204.0	
1994	—	305.0	305.0	1,001.2	711.1	21.5	300.0	1,500.0	2.4	160.0	2,600.0	20.0	0.8	4,917.2	1,000.0	5,917.2	

^a Liquefied petroleum gases.^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.^c These are net direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of hydroelectric beginning in 1990.

R-Flashed data.

—No measurement, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 102. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Iowa

Year	Primary Energy						Electricity	Total Energy ^c	
	Coal	Natural Gas	Distillate Fuel	Kerosene	Petroleum				Total ^c
					LPG ^a	Total			
Prices in Nominal Dollars per Million Btu									
1970	1.27	0.86	1.23	1.37	1.58	1.82	1.18	7.78	2.86
1971	1.22	1.02	1.25	1.82	1.77	1.82	1.20	7.93	2.20
1972	1.48	1.10	1.26	1.95	1.95	1.82	1.30	8.26	2.33
1973	1.16	1.15	1.59	1.88	3.44	2.79	1.67	8.47	2.77
1974	2.66	1.21	2.44	2.78	3.48	3.14	1.77	9.24	3.03
1975	2.69	1.22	2.56	2.98	3.55	3.25	1.84	10.46	3.44
1976	2.67	1.60	2.76	3.26	3.90	3.82	2.20	11.40	3.68
1977	2.28	1.83	3.00	3.73	4.52	4.20	2.57	12.64	4.02
1978	3.23	2.24	3.50	3.94	6.22	5.31	2.81	14.27	5.44
1979	3.27	2.68	4.43	5.43	6.86	6.84	4.89	16.13	6.87
1980	3.51	3.19	6.79	8.18	6.47	7.36	4.74	18.42	8.06
1981	3.81	3.68	6.08	8.91	7.20	7.86	5.38	19.87	8.76
1982	3.84	4.66	7.90	8.91	7.68	7.81	5.90	21.07	9.89
1983	3.67	5.45	7.41	9.02	7.01	7.52	5.75	21.90	9.81
1984	3.07	6.48	7.37	9.08	6.82	6.87	6.28	22.53	8.96
1985	3.41	5.39	5.32	7.59	6.46	6.46	6.11	22.56	8.63
1986	3.12	5.07	5.23	6.97	5.00	5.17	4.75	22.23	9.61
1987	2.89	4.76	4.80	5.52	5.31	5.14	4.75	22.19	9.61
1988	2.51	4.86	4.86	5.99	6.06	6.73	5.14	22.19	9.65
1989	2.80	4.98	6.73	7.37	7.19	7.39	4.54	22.89	9.89
1990	2.41	4.77	6.32	6.57	6.39	6.08	4.52	22.74	9.46
1991	2.32	5.21	5.39	6.63	6.82	6.51	4.58	23.50	9.96
1992	2.26	5.46	4.34	6.35	6.64	6.06	4.52	23.49	9.96
1993	2.41	5.83	4.34	6.05	6.30	5.90	4.42	23.71	10.08
1994	2.36	5.39	4.81	6.05	6.30	5.90	4.42	23.71	10.08
Expenditures in Million Nominal Dollars									
1970	1.8	92.8	15.3	2.8	47.6	68.4	168.9	171.3	332.2
1971	1.0	94.7	14.2	2.9	45.8	69.9	158.7	165.4	344.1
1972	0.8	106.7	17.2	3.2	55.8	75.1	183.0	205.0	388.4
1973	0.6	105.6	20.5	3.8	93.5	117.4	235.3	221.0	445.3
1974	2.1	112.3	27.9	3.4	67.9	119.1	253.4	246.9	479.3
1975	3.8	134.7	28.5	2.8	68.5	116.8	288.7	297.5	554.3
1976	3.8	144.6	29.6	2.3	106.2	137.7	282.7	327.6	610.3
1977	1.2	169.2	36.0	2.6	110.7	148.6	319.0	379.9	697.9
1978	6.5	182.1	41.4	3.0	100.3	144.9	332.8	427.0	719.5
1979	7.6	257.5	45.9	7.6	115.4	209.9	474.2	472.4	848.6
1980	2.1	271.2	94.8	2.2	38.0	194.6	467.9	592.6	1,034.5
1981	5.1	250.6	94.4	13.2	64.6	192.5	497.6	619.2	1,116.7
1982	5.1	397.9	97.1	16.6	99.0	211.9	614.9	691.4	1,306.3
1983	6.3	437.1	43.8	2.8	124.1	170.8	803.0	765.6	1,369.3
1984	4.6	443.2	47.0	6.9	74.3	129.2	579.2	737.6	1,313.6
1985	7.1	424.1	48.7	4.8	68.6	115.1	648.3	787.4	1,309.6
1986	6.6	379.6	43.6	2.8	65.9	111.3	497.1	770.4	1,267.5
1987	7.1	309.9	37.8	2.1	49.1	99.1	403.1	765.1	1,189.2
1988	7.2	384.6	31.2	2.6	59.6	99.4	465.3	810.0	1,275.3
1989	3.7	363.8	30.2	1.4	107.8	139.3	606.8	787.0	1,263.8
1990	5.0	346.2	26.6	1.0	71.8	98.1	468.3	821.0	1,261.0
1991	4.4	319.0	27.5	1.3	77.8	106.3	488.0	868.0	1,384.0
1992	1.2	391.6	34.4	0.8	68.3	110.4	512.0	865.0	1,387.0
1993	1.6	457.2	20.7	1.0	94.7	114.4	652.3	892.0	1,472.3
1994	0.8	423.6	27.8	0.6	69.6	119.3	548.8	836.0	1,443.8

^a Liquefied petroleum gases^b Commercial sector prices and expenditures for wood and waste are included in the residential sector^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the series between 1989 and 1990. Due to the expanded coverage of non-electric utility use of hydroelectric beginning in 1990.^e Revised data^f No consumption

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 103. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Iowa

Year	Primary Energy								Electricity	Total Energy ^b
	Coal	Natural Gas	Petroleum					Total		
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel			
Prices in Nominal Dollars per Million Btu										
1970	0.41	0.85	1.05	0.81	1.14	2.83	0.86	1.99	0.77	1.88
1971	0.45	0.73	1.10	0.84	1.23	2.90	0.74	1.39	0.82	1.92
1972	0.47	0.82	1.10	0.84	1.24	2.96	0.76	1.37	0.91	2.08
1973	0.52	0.89	1.40	1.13	1.37	3.08	0.80	1.58	0.99	2.18
1974	0.82	0.93	2.29	2.20	2.50	4.10	1.69	2.58	1.17	2.47
1975	1.34	1.85	2.40	2.30	2.46	4.89	1.99	2.71	1.39	2.94
1976	1.30	1.26	2.57	2.55	2.68	4.63	1.65	3.23	1.63	3.44
1977	1.32	1.84	2.99	2.78	3.25	5.18	1.99	3.82	2.09	4.08
1978	1.43	1.98	3.07	3.03	3.62	5.42	1.82	4.04	2.44	4.80
1979	1.49	2.38	4.33	4.02	3.58	7.24	2.32	5.06	2.96	5.23
1980	1.59	2.84	6.44	5.82	4.88	9.97	3.80	6.57	3.39	6.33
1981	1.78	3.50	7.74	6.17	5.55	11.07	4.84	7.85	4.03	8.12
1982	1.84	4.28	7.52	6.19	5.59	10.82	4.03	7.59	4.64	8.74
1983	1.69	4.97	\$6.37	6.82	6.90	9.49	4.08	\$6.70	\$6.15	\$9.68
1984	1.70	4.98	\$6.37	7.10	6.06	9.34	5.05	\$6.61	5.10	\$9.40
1985	1.66	4.89	\$6.83	\$6.76	6.25	9.47	4.87	\$6.31	4.84	\$8.32
1986	1.57	4.41	\$6.68	\$6.36	6.25	7.13	2.86	\$5.64	4.39	\$8.40
1987	1.62	3.84	\$6.21	\$6.84	6.46	7.38	2.48	\$5.26	3.64	\$8.97
1988	1.42	4.00	\$6.80	\$6.48	6.23	7.37	2.38	\$5.20	\$3.94	\$8.40
1989	1.35	3.96	\$6.44	\$6.07	5.21	6.40	2.25	\$5.38	\$3.92	\$8.46
1990	1.34	4.90	\$6.44	\$6.25	4.85	9.38	2.36	\$5.70	\$4.08	\$8.43
1991	1.31	3.96	\$6.83	\$6.56	6.34	9.11	2.24	\$7.38	\$4.34	\$8.97
1992	1.32	4.23	\$6.86	\$6.53	7.73	6.72	2.21	\$6.88	\$4.62	\$9.13
1993	1.39	4.51	\$6.50	\$6.38	8.84	\$6.42	2.18	\$7.50	\$4.85	\$9.31
1994	1.42	4.47	4.29	5.35	7.75	6.71	2.10	6.18	4.60	9.51
Expenditures in Million Nominal Dollars										
1970	1.0	39.4	5.8	0.1	5.3	4.0	6.3	15.1	55.3	181.3
1971	0.7	43.4	5.1	(b)	5.7	4.2	0.9	15.4	59.5	184.9
1972	0.6	51.3	5.9	0.1	5.2	4.5	0.3	17.0	68.8	195.3
1973	0.6	56.8	7.2	0.1	6.6	4.9	0.6	19.4	78.9	202.1
1974	1.2	80.1	10.5	0.1	11.1	6.6	1.8	30.2	91.5	239.8
1975	2.9	71.1	10.1	0.1	11.0	7.8	1.2	38.2	103.3	287.6
1976	1.0	83.8	11.1	0.1	12.3	21.1	1.7	48.4	131.2	336.2
1977	1.4	99.7	13.5	0.1	14.2	32.1	2.5	62.4	163.5	393.2
1978	4.6	97.6	16.5	0.1	14.2	33.9	1.8	65.5	167.6	423.2
1979	6.6	139.2	33.6	0.2	11.7	48.2	3.5	67.9	243.1	533.2
1980	1.9	144.6	28.2	0.2	12.9	18.3	1.9	68.6	204.7	608.7
1981	4.7	184.1	29.1	0.5	12.6	22.2	0.8	64.4	233.2	657.4
1982	4.4	222.3	29.3	1.3	13.4	21.3	0.7	65.0	291.6	753.4
1983	4.5	236.3	\$45.4	0.2	15.0	12.0	0.1	\$73.7	\$316.5	\$830.8
1984	5.0	242.9	\$49.0	0.2	11.3	10.0	0.1	\$70.6	\$318.5	\$788.3
1985	6.4	131.3	\$38.5	\$0.3	15.7	11.8	(b)	\$87.3	\$306.1	\$778.9
1986	5.5	124.7	\$14.6	(b)	17.3	10.2	0.7	\$82.9	\$243.1	\$730.5
1987	6.9	147.3	\$16.6	0.2	10.5	10.3	0.3	\$98.8	\$194.0	\$651.2
1988	7.2	181.2	\$15.2	0.1	12.3	13.1	0.3	\$41.1	\$229.5	\$693.5
1989	3.5	180.0	\$12.7	\$0.2	11.4	10.3	0.5	\$55.0	\$215.4	\$682.4
1990	5.1	177.1	\$15.7	\$1.3	6.5	6.9	0.5	\$33.6	\$215.2	\$688.3
1991	4.8	186.0	\$15.8	0.1	17.9	34.6	0.1	\$58.7	\$259.3	\$753.5
1992	1.3	198.8	\$13.3	0.1	16.8	29.8	0.5	\$60.3	\$258.4	\$753.3
1993	1.4	\$227.5	\$9.3	\$0.2	22.2	\$28.2	0.1	\$60.0	\$289.0	\$825.0
1994	0.9	216.1	9.8	0.4	19.5	1.8	(b)	31.3	248.3	787.2

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R=Revised data.

(b)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 104. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Iowa

Year	Primary Energy															Electricity	Total Energy ^c	
	Coal			Natural Gas	Petroleum									Biomass ^e	Total ^d			
	Caking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Other Gasoline	Residual Fuel	Other ^b	Total					
Prices in Nominal Dollars per Million Btu																		
1970	—	0.41	0.41	0.36	0.72	0.75	0.81	1.16	0.66	2.89	0.57	2.15	1.46	—	0.89	3.87	1.84	
1971	—	0.45	0.45	0.39	0.83	0.79	0.84	1.25	0.57	2.90	0.58	1.72	1.45	—	0.84	4.02	1.90	
1972	—	0.47	0.47	0.46	0.86	0.79	0.84	1.24	0.58	2.88	0.58	1.71	1.48	—	0.88	4.20	1.96	
1973	—	0.52	0.52	0.51	0.87	1.05	1.13	1.37	0.53	3.06	0.56	1.69	1.69	—	0.90	4.37	2.04	
1974	—	0.82	0.82	0.59	1.70	2.05	2.20	2.50	7.22	4.10	1.75	2.72	2.63	—	1.39	5.02	2.84	
1975	—	1.34	1.34	0.77	2.06	2.15	2.39	2.46	7.48	4.89	1.82	3.21	3.88	—	1.61	6.31	3.84	
1976	—	1.30	1.30	1.00	1.97	2.37	2.55	2.69	7.05	4.83	2.12	3.32	3.90	—	1.85	6.97	4.28	
1977	—	1.32	1.32	1.35	2.83	2.59	2.78	3.29	6.97	5.18	2.11	3.59	3.29	—	2.19	7.86	5.22	
1978	—	1.43	1.43	1.06	2.14	2.76	3.09	3.82	7.60	5.42	2.21	3.78	3.35	—	2.45	8.31	5.80	
1979	—	1.48	1.48	1.95	2.55	3.60	4.02	3.58	10.21	7.24	2.56	5.07	4.08	—	2.87	9.36	6.84	
1980	—	1.89	1.89	2.51	3.77	5.29	5.52	4.88	14.38	8.97	2.89	7.88	6.27	—	2.89	10.47	8.48	
1981	—	1.76	1.76	3.10	5.50	5.86	8.17	5.55	18.00	11.87	3.23	9.48	7.27	—	4.47	11.72	10.37	
1982	—	1.84	1.84	2.71	4.92	5.82	8.18	5.58	17.86	10.82	3.89	8.79	6.54	—	4.64	12.86	11.51	
1983	—	1.89	1.89	4.05	4.72	6.87	6.82	6.30	18.06	9.46	3.89	8.30	6.75	—	4.69	13.42	12.61	
1984	—	1.70	1.70	3.95	4.92	6.61	7.10	6.08	17.63	9.34	3.95	8.46	6.86	—	4.84	13.71	13.21	
1985	—	1.66	1.66	3.87	5.83	6.26	6.78	6.28	17.61	9.47	4.87	8.77	7.19	—	4.77	13.58	13.58	
1986	—	1.57	1.57	3.38	5.89	4.05	4.36	6.25	15.59	7.13	2.96	6.44	5.45	—	5.80	14.18	14.18	
1987	—	1.52	1.52	2.80	3.86	4.50	4.84	6.45	12.70	7.36	2.49	7.20	5.20	—	5.36	12.71	12.71	
1988	—	1.42	1.42	3.09	3.46	4.16	4.49	6.23	14.61	7.37	2.36	6.21	4.83	—	5.36	12.18	12.18	
1989	—	1.35	1.35	2.51	3.00	4.72	5.07	5.21	14.49	8.40	2.25	6.01	4.61	—	5.00	11.81	11.81	
1990	—	1.34	1.34	2.86	3.32	5.81	6.25	4.95	14.88	8.36	2.34	7.29	5.78	1.85	5.88	11.88	11.88	
1991	—	1.34	1.31	2.89	3.16	5.17	5.58	6.34	16.79	8.11	2.24	6.80	5.25	1.69	5.36	11.76	11.76	
1992	—	1.32	1.32	3.54	2.49	5.14	5.53	7.73	19.43	8.72	2.21	10.10	8.14	1.95	5.36	11.76	11.76	
1993	—	1.29	1.29	3.75	2.89	5.00	5.38	8.84	18.84	8.42	2.18	9.31	8.98	1.84	4.45	11.50	11.50	
1994	—	1.42	1.42	3.86	2.87	4.88	5.28	8.80	19.19	8.71	2.10	10.57	8.87	1.59	4.17	11.37	11.37	
Expenditures in Million Nominal Dollars																		
1970	—	17.8	17.8	38.8	71.9	25.8	8.7	13.9	8.8	80.8	8.9	7.1	148.2	—	282.4	78.8	272.8	
1971	—	14.4	14.4	40.1	17.1	25.2	0.5	14.3	8.0	87.1	0.9	8.3	140.5	—	185.0	77.8	272.7	
1972	—	18.1	18.1	49.0	15.9	25.0	0.7	16.5	8.3	95.0	0.7	9.1	143.8	—	208.9	91.1	300.0	
1973	—	18.1	18.1	68.2	15.0	34.5	1.8	21.0	7.9	78.1	1.8	10.8	171.0	—	257.2	104.6	361.8	
1974	—	23.5	23.5	79.9	39.3	60.7	1.7	49.7	18.3	82.4	4.5	15.5	255.3	—	358.7	123.2	481.9	
1975	—	36.1	36.1	84.6	31.4	96.9	6.8	81.2	7.8	91.6	3.4	16.4	289.8	—	380.5	149.8	530.3	
1976	—	42.4	42.4	123.4	31.8	83.4	1.3	181.1	7.3	70.8	5.1	57.2	336.0	—	500.6	175.2	675.8	
1977	—	41.9	41.9	151.8	34.3	71.8	1.8	120.3	8.1	68.9	7.2	75.5	363.9	—	577.4	215.4	792.8	
1978	—	42.6	42.6	157.7	49.4	86.7	1.1	112.8	8.5	54.4	5.9	65.8	395.7	—	589.0	243.9	832.9	
1979	—	53.7	53.7	239.4	52.4	149.3	4.7	114.9	13.3	68.2	10.4	129.1	541.2	—	825.3	292.7	1,118.1	
1980	—	51.6	51.6	288.2	42.5	144.4	8.7	117.8	16.7	186.7	8.8	196.2	682.9	—	1,082.7	332.8	1,415.5	
1981	—	58.5	58.5	357.5	72.0	147.1	4.4	112.2	28.1	168.8	1.2	100.7	635.5	—	1,040.6	390.0	1,430.6	
1982	—	57.4	57.4	344.5	58.2	155.0	4.0	149.5	17.6	120.8	4.3	77.4	587.5	—	979.4	408.8	1,388.2	
1983	—	53.4	53.4	349.4	58.2	146.2	1.2	151.0	18.1	46.3	4.3	71.5	480.8	—	889.5	405.5	1,295.0	
1984	—	54.9	54.9	373.0	66.1	158.6	1.7	81.9	28.0	35.4	3.9	72.5	483.5	—	882.2	445.8	1,328.0	
1985	—	88.1	88.1	348.2	67.9	175.9	1.3	145.3	18.6	94.8	4.6	86.2	683.8	—	983.1	488.4	1,471.5	
1986	—	85.6	85.6	272.6	52.6	138.2	1.0	143.8	36.1	98.5	3.4	87.2	443.9	—	772.1	473.2	1,245.3	
1987	—	84.8	84.8	249.1	42.1	129.9	1.3	72.8	14.9	57.5	1.4	36.7	350.5	—	654.4	445.1	1,099.5	
1988	—	80.4	80.4	317.3	50.8	124.5	0.6	67.2	36.5	54.8	3.8	25.8	340.5	—	720.1	467.0	1,187.1	
1989	—	72.7	72.7	285.9	34.1	112.9	0.7	85.8	36.8	57.5	2.7	27.8	312.6	—	612.2	444.0	1,056.2	
1990	—	71.3	71.3	289.9	31.8	144.1	0.7	54.9	17.4	52.5	1.4	33.3	338.4	0.89	681.7	459.0	1,140.7	
1991	—	77.9	77.9	250.2	32.6	130.6	0.5	98.2	17.9	55.5	1.2	30.0	374.6	1.1	711.9	499.0	1,210.9	
1992	—	89.9	89.9	357.7	23.2	105.4	0.6	158.2	21.1	48.2	1.8	37.9	455.1	1.0	886.6	487.0	1,373.6	
1993	—	70.6	70.6	385.9	25.9	179.3	1.0	348.9	21.8	36.3	2.2	34.6	482.2	1.0	1,105.0	499.0	1,604.0	
1994	—	78.2	78.2	433.8	37.4	189.1	0.8	272.8	22.2	60.7	2.4	33.8	608.1	1.1	1,122.2	513.8	1,636.0	

^a Liquefied petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.^e R-flavored data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 105. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Iowa

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Leakage	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.41	—	3.17	1.27	6.75	1.16	5.88	2.83	0.95	2.88	2.88	—	2.88
1971	0.45	—	2.21	1.29	0.78	1.25	5.27	2.00	0.73	2.65	2.65	—	2.65
1972	0.47	—	2.39	1.31	0.78	1.34	5.58	2.08	—	2.71	2.71	—	2.71
1973	0.52	—	2.38	1.65	0.92	1.57	5.33	3.08	—	2.82	2.82	—	2.82
1974	0.62	—	3.23	2.51	1.80	2.50	7.22	4.40	—	3.62	3.62	—	3.62
1975	1.24	—	3.45	2.85	2.08	2.46	7.48	4.88	—	4.24	4.24	—	4.24
1976	1.30	—	3.59	2.87	2.26	2.86	7.05	4.83	1.95	4.44	4.46	—	4.46
1977	1.32	—	3.97	3.31	2.68	3.28	6.97	5.18	1.95	4.80	4.80	—	4.80
1978	—	—	4.29	3.39	2.90	3.62	7.60	5.42	1.84	5.02	5.02	—	5.02
1979	—	—	5.73	5.05	4.03	3.56	10.21	7.24	—	6.75	6.75	—	6.75
1980	—	—	6.82	6.87	6.47	4.86	14.26	8.87	—	8.34	8.34	—	8.34
1981	—	—	10.64	6.28	7.00	5.85	18.00	11.07	4.50	10.53	10.53	—	10.53
1982	—	—	10.92	7.95	7.19	5.56	17.25	10.82	—	10.02	10.02	—	10.02
1983	—	—	10.44	7.10	^a 6.75	6.30	16.89	9.49	3.86	9.04	9.04	—	9.04
1984	—	—	10.27	7.18	^a 6.55	6.08	17.53	9.34	4.42	8.90	8.90	—	8.90
1985	—	—	8.88	6.88	6.28	3.88	17.61	9.47	—	8.86	8.86	—	8.86
1986	—	—	8.41	6.78	4.36	3.25	16.58	7.13	—	7.13	7.13	—	7.13
1987	—	—	7.55	7.01	4.27	4.45	12.70	7.38	2.33	7.30	7.30	—	7.30
1988	—	—	7.41	6.77	4.12	6.23	14.61	7.37	—	7.27	7.27	—	7.27
1989	—	—	8.28	7.55	4.57	5.21	14.46	8.40	2.08	8.20	8.20	—	8.28
1990	—	0.43	8.32	8.78	4.11	4.88	14.88	8.38	1.82	8.22	8.22	—	8.22
1991	—	3.08	8.71	8.32	6.21	6.34	15.79	9.11	—	8.94	8.94	—	8.94
1992	—	3.97	8.54	8.05	4.78	7.73	19.43	8.72	—	8.63	8.63	—	8.63
1993	—	3.63	8.24	7.89	4.52	8.84	19.84	^a 8.42	—	^a 8.36	^a 8.36	—	^a 8.36
1994	—	3.48	7.98	8.00	4.26	8.68	19.10	8.71	—	8.57	8.57	—	8.57

Expenditures in Million Nominal Dollars													
1970	(a)	—	2.8	32.2	3.8	6.3	34.8	448.8	0.1	498.1	498.2	—	498.2
1971	(a)	—	2.9	39.6	2.9	6.3	32.7	497.8	(a)	568.2	568.2	—	568.2
1972	(a)	—	2.8	43.0	3.2	6.3	34.4	529.6	—	592.3	592.3	—	592.3
1973	(a)	—	1.2	58.8	3.7	6.3	36.4	508.8	—	677.2	677.2	—	677.2
1974	(a)	—	3.8	98.9	6.7	6.5	21.2	747.7	—	878.9	878.9	—	878.9
1975	(a)	—	3.3	165.7	6.8	6.5	22.7	842.8	—	984.9	984.9	—	984.9
1976	(a)	—	3.7	194.6	12.3	6.5	23.8	941.9	0.2	1,106.8	1,106.8	—	1,106.8
1977	(a)	—	4.1	183.3	15.2	6.5	22.1	1,033.9	0.2	1,219.2	1,219.2	—	1,219.2
1978	—	—	4.6	152.9	18.4	6.8	25.8	1,877.0	0.1	1,279.8	1,279.8	—	1,279.8
1979	—	—	5.5	259.2	23.8	6.5	28.3	1,350.7	—	1,675.7	1,675.7	—	1,675.7
1980	—	—	8.4	321.8	29.8	6.8	46.4	1,888.2	—	2,188.8	2,188.8	—	2,188.8
1981	—	—	8.8	365.6	20.8	2.1	54.6	1,802.8	0.2	2,255.7	2,255.7	—	2,255.7
1982	—	—	6.1	408.2	25.6	2.1	47.7	1,701.3	—	2,189.1	2,189.1	—	2,189.1
1983	—	—	5.8	277.2	^a 22.3	2.8	40.2	1,567.0	0.1	^a 1,884.3	^a 1,884.3	—	^a 1,884.3
1984	—	—	4.8	364.4	^a 22.5	3.1	54.5	1,485.4	0.2	^a 1,834.7	^a 1,834.7	—	^a 1,834.7
1985	—	—	4.2	329.9	28.8	3.7	88.7	1,488.1	—	1,888.4	1,888.4	—	1,888.4
1986	—	—	6.4	372.8	14.8	4.2	43.9	1,488.9	—	1,488.9	1,488.9	—	1,488.9
1987	—	—	4.2	355.8	18.7	1.1	40.4	1,155.2	0.1	1,575.5	1,575.5	—	1,575.5
1988	—	—	5.4	350.6	16.5	1.0	44.9	1,162.8	—	1,611.3	1,611.3	—	1,611.3
1989	—	—	4.6	403.9	19.3	1.0	45.8	1,388.0	(a)	1,842.5	1,842.5	—	1,842.5
1990	—	(a)	4.7	462.3	26.7	0.7	47.3	1,482.7	(a)	2,088.4	2,088.4	—	2,088.4
1991	—	(a)	3.8	409.1	28.1	1.5	48.7	1,482.6	—	1,951.6	1,951.6	—	1,951.6
1992	—	(a)	3.2	412.1	21.6	1.3	57.4	1,375.7	—	1,871.3	1,871.3	—	1,871.3
1993	—	(a)	2.9	437.7	18.3	1.7	57.0	^a 1,352.0	—	^a 1,839.7	^a 1,839.7	—	^a 1,839.7
1994	—	(a)	2.8	480.2	21.5	4.8	80.3	1,488.2	—	2,087.7	2,087.8	—	2,087.8

^a Liquefied petroleum gases.^a Revised data.

— No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a) Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 106. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Iowa

Year	Coal		Natural Gas		Petroleum			Nuclear Fuel	Biomass	Total Energy *
					Heavy Oil	Light Oil	Petroleum Cuts			
1970	8.22	0.27	0.79	0.75	—	—	—	—	0.66	0.30
1971	0.37	0.32	0.78	0.84	—	—	—	—	0.69	0.36
1972	0.39	0.38	0.81	0.87	—	—	—	—	0.72	0.40
1973	0.46	0.41	0.79	1.16	—	—	—	—	0.77	0.45
1974	0.64	0.50	1.07	1.70	—	—	—	0.19	0.84	0.57
1975	0.86	0.66	1.83	2.11	—	—	—	0.25	0.92	0.75
1976	0.89	0.82	1.57	2.36	—	—	—	0.25	0.90	0.83
1977	1.03	1.30	1.95	2.67	—	—	—	0.27	1.04	0.96
1978	1.16	1.65	1.82	2.69	—	—	—	0.34	1.12	1.19
1979	1.22	2.90	2.44	3.88	—	1.32	—	0.32	—	1.16
1980	1.39	2.41	3.78	6.94	—	—	—	0.39	1.74	1.32
1981	1.49	2.97	4.93	7.59	—	—	—	0.53	1.24	1.44
1982	1.57	3.57	4.08	6.22	—	—	—	0.54	1.28	1.50
1983	1.82	3.75	4.20	6.16	—	—	—	0.68	1.12	1.56
1984	1.53	3.99	4.50	6.10	—	—	—	0.79	1.25	1.48
1985	1.48	3.61	3.98	5.83	—	—	—	0.94	0.79	1.49
1986	1.37	3.43	—	5.63	—	—	—	0.75	0.32	1.31
1987	1.24	2.15	—	4.06	—	—	—	0.71	0.85	1.21
1988	1.24	2.03	—	3.72	—	—	—	0.68	0.87	1.19
1989	1.22	2.07	—	4.45	—	—	—	0.67	1.47	1.18
1990	1.12	3.05	—	5.16	—	—	—	0.66	1.66	1.09
1991	1.10	2.69	—	4.38	—	—	—	0.69	1.67	1.07
1992	1.10	3.07	—	4.24	—	—	—	0.56	1.99	1.06
1993	1.01	3.10	—	4.06	—	—	—	0.60	1.90	1.00
1994	0.99	3.16	—	3.92	—	—	—	0.60	1.92	0.97

Expenditures in Million National Dollars									
1970	27.0	21.5	0.2	1.4	1.5	0.3	64.4		
1971	39.5	22.8	0.6	1.8	2.4	0.3	59.0		
1972	42.5	23.0	1.3	2.7	4.1	0.3	70.0		
1973	51.9	25.7	0.7	1.6	2.5	0.4	60.5		
1974	51.7	30.8	1.3	3.6	4.9	0.3	100.6		
1975	85.0	32.0	2.8	5.2	8.8	0.4	132.5		
1976	120.9	37.5	3.6	8.5	10.2	0.4	162.4		
1977	155.5	24.0	8.6	8.6	12.8	0.2	194.6		
1978	197.4	17.9	4.2	12.0	18.3	0.1	229.1		
1979	215.8	13.8	4.8	10.6	15.5	—	258.0		
1980	277.7	16.8	4.5	5.9	7.4	0.5	313.1		
1981	321.8	10.0	0.2	7.5	7.7	0.2	352.6		
1982	327.7	9.1	0.6	4.8	5.5	0.3	396.0		
1983	382.1	12.5	0.4	5.0	5.4	0.5	587.6		
1984	327.8	11.7	0.3	3.9	23.0	0.6	367.3		
1985	335.3	7.7	6.1	3.8	3.6	8.5	366.7		
1986	308.6	4.7	—	2.2	2.2	0.2	333.2		
1987	296.4	7.1	—	2.7	2.7	0.7	338.2		
1988	316.7	11.1	—	2.7	2.7	0.5	354.1		
1989	317.8	6.5	—	2.9	2.9	0.4	390.2		
1990	304.8	10.7	—	3.7	3.7	8.3	340.8		
1991	311.1	9.8	—	2.6	2.6	0.3	353.3		
1992	300.7	7.0	—	2.2	2.2	0.2	309.6		
1993	281.4	13.4	—	2.9	2.9	0.3	328.9		
1994	286.1	8.6	—	4.2	4.2	0.4	330.2		

■ There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy
—No carbon tax

Table 107. Energy Price and Expenditure Estimates by Source, 1970-1994, Kansas

Year	Primary Energy															Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biomass	Total ^d				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total							
Prices in Nominal Dollars per Million Btu																		
1970	—	0.34	0.34	0.39	0.99	0.75	1.27	2.64	0.47	A 1.34	1.97	—	—	B 96	0.38	5.74	1.64	
1971	—	0.34	0.34	0.41	1.01	0.78	1.26	2.65	0.62	A 1.40	1.98	—	—	B 99	0.39	5.82	1.66	
1972	—	0.36	0.36	0.46	1.02	0.78	1.30	2.68	0.57	A 1.43	1.94	—	—	B 101	0.36	5.98	1.67	
1973	—	0.33	0.33	0.44	1.27	0.93	2.18	3.03	0.69	A 1.53	2.28	—	—	B 116	0.32	5.96	1.63	
1974	—	0.41	0.41	0.52	2.24	1.60	2.57	4.19	1.54	A 2.35	3.24	—	—	B 160	0.43	6.59	2.42	
1975	—	0.69	0.69	0.67	2.49	2.09	2.85	4.50	1.80	A 2.88	3.42	—	—	B 189	0.72	7.72	2.86	
1976	—	0.75	0.75	1.01	2.54	2.26	2.83	4.75	1.61	A 2.74	3.60	—	—	B 213	0.87	8.59	3.15	
1977	—	0.76	0.76	1.22	2.89	2.89	3.39	5.01	1.96	A 2.93	3.87	—	—	B 232	1.04	10.12	3.62	
1978	—	0.81	0.81	1.35	3.06	2.90	3.34	5.11	1.77	A 2.97	3.90	—	—	B 235	1.13	11.01	3.67	
1979	—	1.02	1.02	1.68	4.39	4.03	4.01	6.81	2.13	A 3.82	5.21	—	—	B 301	1.26	11.71	4.38	
1980	—	1.08	1.08	2.14	5.22	4.47	4.41	8.27	3.24	A 5.46	7.39	—	—	B 386	1.38	13.75	5.83	
1981	—	1.20	1.20	2.77	7.64	7.60	5.51	10.11	4.28	A 6.59	9.71	—	—	B 463	1.51	18.56	7.66	
1982	—	1.36	1.36	3.19	7.47	7.19	5.11	10.09	3.80	A 7.86	8.36	—	—	B 470	1.64	17.67	7.41	
1983	—	1.43	1.43	3.91	A 6.81	A 6.60	5.84	8.99	4.04	A 9.01	A 7.78	—	—	A 4.71	1.72	19.63	A 7.98	
1984	—	1.51	1.51	3.99	5.84	A 6.46	5.17	9.18	4.21	A 8.43	A 7.41	—	—	4.67	1.71	19.32	7.52	
1985	—	1.41	1.41	3.88	A 5.86	5.84	4.28	8.28	3.81	A 8.24	A 7.20	B 84	—	A 4.30	1.44	19.07	A 7.23	
1986	—	1.33	1.33	3.30	A 5.67	3.73	6.04	6.72	2.28	A 7.77	A 6.39	0.63	—	3.76	1.22	20.63	A 7.04	
1987	—	1.27	1.27	3.15	A 6.06	4.01	7.51	7.65	2.36	A 6.27	A 6.57	0.51	—	A 3.75	1.16	20.08	A 6.97	
1988	—	1.24	1.24	3.03	A 5.67	3.81	7.51	6.78	1.89	A 5.49	A 6.24	0.45	—	A 3.65	1.13	19.22	A 6.76	
1989	—	1.24	1.24	3.36	A 6.25	4.27	7.24	7.66	2.06	A 6.00	A 6.85	0.32	—	3.80	1.04	18.83	A 7.22	
1990	—	1.34	1.34	3.30	A 7.82	5.57	4.40	9.89	2.70	A 6.83	A 7.29	0.30	A 3.41	A 2.38	1.08	18.31	A 7.84	
1991	—	1.23	1.23	3.11	A 7.03	4.81	3.79	8.72	1.47	A 5.30	8.99	0.31	3.37	A 3.78	1.12	19.30	7.31	
1992	—	1.18	1.18	3.38	A 6.88	4.38	7.74	8.49	2.20	A 6.37	A 7.34	0.29	3.42	A 3.99	0.90	19.27	A 7.49	
1993	—	1.03	1.03	3.59	A 6.74	4.19	A 4.79	A 9.31	2.07	A 6.78	A 6.98	0.39	3.39	A 3.67	0.95	19.39	A 7.42	
1994	—	1.03	1.03	3.43	6.53	4.13	6.99	9.29	2.18	6.46	7.14	0.35	3.38	3.64	0.94	19.42	7.30	

Expenditures in Million Nominal Dollars																		
1970	—	3.7	3.7	175.6	43.3	8.4	37.1	399.6	3.5	A 47.3	535.3	—	—	714.6	-53.8	286.8	918.7	
1971	—	3.7	3.7	193.7	49.2	8.6	38.1	406.3	1.3	A 53.9	533.4	—	—	750.8	-41.1	278.5	965.2	
1972	—	4.4	4.4	221.2	53.3	6.2	39.1	420.8	4.9	A 58.3	580.4	—	—	806.0	-74.8	265.6	1,027.0	
1973	—	8.2	8.2	201.9	78.2	7.2	87.2	497.6	7.9	A 63.1	719.1	—	—	929.2	-44.4	322.4	1,187.2	
1974	—	16.0	16.0	228.4	140.6	12.4	78.7	632.4	18.6	A 98.2	1,031.0	—	—	1,273.4	-91.9	360.0	1,541.5	
1975	—	42.6	42.6	348.1	188.0	18.0	89.3	768.3	48.8	A 98.1	1,462.8	—	—	1,483.4	-159.5	444.9	1,797.8	
1976	—	55.3	55.3	389.6	178.6	16.4	101.0	845.0	48.6	A 108.9	1,297.7	—	—	1,742.9	-194.9	510.8	2,058.7	
1977	—	68.1	68.1	471.7	209.5	21.1	120.3	873.2	60.9	A 128.0	1,415.0	—	—	1,964.8	-250.3	629.7	2,344.2	
1978	—	123.9	123.9	527.2	254.2	24.2	104.5	999.4	58.9	A 148.7	1,487.9	—	—	2,139.0	-314.2	740.3	2,665.1	
1979	—	149.7	149.7	743.0	800.6	43.2	139.0	1,159.6	42.8	A 203.1	2,086.2	—	—	2,978.5	-341.8	789.1	3,426.0	
1980	—	207.0	207.0	886.1	888.3	89.3	131.0	1,440.7	17.9	A 268.8	2,897.7	—	—	3,522.7	-384.3	986.7	4,185.0	
1981	—	254.6	254.6	960.7	886.0	103.7	147.6	1,554.8	24.1	A 321.9	2,748.1	—	—	3,983.7	-431.6	1,187.3	4,899.4	
1982	—	288.1	288.1	984.8	800.9	73.3	215.6	1,516.7	19.9	A 258.6	2,883.9	—	—	3,968.8	-436.4	1,300.3	4,820.7	
1983	—	330.1	330.1	1,067.4	A 865.5	A 84.4	241.5	1,380.9	36.8	A 239.1	A 2,477.0	—	—	A 3,864.8	-468.9	1,600.4	A 4,896.0	
1984	—	415.1	415.1	1,114.2	A 803.7	A 120.6	496.3	1,386.7	17.7	A 288.7	A 2,982.0	—	—	A 4,301.0	-513.3	1,520.2	A 5,269.8	
1985	—	385.8	385.8	960.1	A 874.1	147.6	388.0	1,378.2	1.3	A 348.7	A 2,715.8	34.9	—	A 4,076.8	-853.4	1,528.6	A 5,143.8	
1986	—	334.3	334.3	785.5	A 484.0	148.2	474.8	1,005.0	4.4	A 230.8	A 2,327.1	47.7	—	A 3,477.8	-412.3	1,685.3	A 4,721.6	
1987	—	340.5	340.5	809.7	A 589.6	96.7	432.4	1,077.4	3.8	A 225.7	A 2,425.8	35.7	—	A 3,611.6	-408.4	1,658.4	A 4,864.6	
1988	—	334.5	334.5	772.4	A 538.2	89.2	508.8	1,098.1	7.1	A 260.4	A 2,603.7	32.4	—	A 3,643.0	-404.4	1,680.9	A 4,919.8	
1989	—	330.4	330.4	826.9	A 674.9	91.5	479.5	1,200.6	3.6	A 231.8	A 2,581.9	33.3	—	A 3,774.4	-400.5	1,646.7	A 5,020.5	
1990	—	338.3	338.3	871.6	A 738.4	115.4	237.4	1,338.7	2.4	A 280.2	A 2,971.8	25.3	A 7.3	A 3,844.3	-410.7	1,774.8	A 5,278.3	
1991	—	329.6	329.6	889.5	A 843.4	88.2	177.3	1,284.5	0.6	A 205.5	A 2,398.8	19.4	8.0	A 3,546.1	-408.0	1,839.4	A 5,077.5	
1992	—	300.3	300.3	875.1	A 906.7	101.0	451.8	1,241.2	1.7	A 214.5	A 2,626.6	26.7	8.3	A 3,837.0	-351.7	1,785.3	A 5,250.6	
1993	—	310.0	310.0	1,035.9	A 938.0	84.7	A 139.4	A 1,243.9	A 3.6	A 222.4	A 2,331.5	26.0	8.8	A 3,712.3	-365.2	1,880.8	A 5,217.8	
1994	—	308.8	308.8	1,133.3	599.7	46.4	187.0	1,286.7	1.7	252.9	2,382.8	31.5	6.8	3,833.2	-389.4	1,948.7	5,380.5	

^a Liquefied petroleum gases.^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used in electric utilities), and the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

A=Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 105. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Kansas

Year	Primary Energy							Electricity	Total Energy ^c	
	Coal	Natural Gas	Petroleum				Nuclear ^b			Total ^c
			Distillate Fuel	Kerosene	LPG ^a	Total				
Prices in Nominal Dollars per Million Btu										
1970	0.91	0.60	1.10	1.40	1.53	1.52	—	0.92	7.17	1.60
1971	0.90	0.72	1.20	1.43	1.40	1.49	—	0.84	7.30	1.74
1972	1.07	0.74	1.30	1.48	1.59	1.56	—	0.87	7.31	1.81
1973	1.10	0.76	1.41	1.74	3.05	2.96	—	1.12	7.30	2.13
1974	1.14	0.92	2.43	2.71	3.08	3.05	—	1.20	7.94	2.40
1975	—	1.05	2.82	2.84	3.30	3.27	—	1.30	8.28	2.53
1976	—	1.51	2.96	3.02	3.51	3.46	—	1.83	10.05	3.00
1977	—	1.77	3.22	3.54	4.16	4.08	—	2.15	11.70	3.63
1978	1.90	1.90	3.30	3.70	3.90	3.65	—	2.11	12.82	3.63
1979	2.21	1.99	4.91	5.18	5.55	6.05	—	2.40	13.59	4.22
1980	2.15	2.38	6.85	7.08	6.89	6.89	—	2.79	15.75	5.48
1981	2.67	3.05	8.12	8.40	6.85	6.80	—	3.34	17.57	6.82
1982	2.20	4.03	7.84	9.40	7.51	7.58	—	4.31	20.17	7.93
1983	2.87	4.65	6.57	8.55	7.04	7.08	—	4.85	22.50	9.16
1984	2.72	4.52	7.43	8.82	7.26	7.35	—	4.65	22.00	9.06
1985	2.81	4.12	8.48	7.47	6.82	6.54	—	4.29	21.96	8.79
1986	2.33	3.08	5.45	6.53	5.37	5.39	—	4.04	24.01	9.57
1987	1.84	3.09	3.53	4.08	4.73	4.89	—	3.95	23.83	9.34
1988	1.80	4.08	3.55	4.12	4.94	4.79	—	4.13	22.94	9.36
1989	1.85	4.20	6.16	7.15	6.57	6.40	—	4.49	22.46	9.39
1990	1.86	4.44	6.22	7.23	7.86	7.80	2.58 ^d	4.85 ^d	22.86	9.88 ^d
1991	1.82	4.33	5.78	6.71	8.98	8.95	3.68 ^d	4.47 ^d	22.93	9.46 ^d
1992	1.83	4.70	5.86	6.91	7.83	7.73	3.58 ^d	4.88 ^d	23.16	9.61 ^d
1993	1.40	4.97	7.54	6.75	8.00	8.56	3.58 ^d	5.10 ^d	23.04	9.71 ^d
1994	1.38	5.11	5.80	6.85	7.69	7.91	3.58 ^d	5.19 ^d	23.11	10.24
Expenditures in Million Nominal Dollars										
1970	0.1	48.7	0.4	0.9	27.9	29.2	—	95.8	130.6	226.7
1971	0.1	70.7	0.4	0.5	26.0	26.8	—	97.7	138.6	236.6
1972	0.1	74.1	0.8	0.8	26.9	30.1	—	104.3	146.7	253.0
1973	0.1	72.1	0.7	0.8	54.4	55.9	—	128.0	161.1	289.1
1974	(9)	84.0	1.2	1.0	50.7	53.0	—	137.0	179.8	316.6
1975	—	101.2	1.6	1.8	55.8	58.3	—	158.8	179.4	339.0
1976	—	155.2	2.7	2.8	57.2	62.7	—	216.8	187.5	414.3
1977	—	164.0	3.8	4.4	70.7	75.1	—	242.1	236.0	480.2
1978	0.2	176.0	3.5	2.5	60.8	65.8	—	243.0	262.9	525.9
1979	0.5	493.9	10.8	9.7	59.3	79.8	—	280.2	291.8	571.9
1980	0.1	381.9	6.9	6.2	52.2	84.4	—	298.4	306.2	604.6
1981	0.1	285.2	0.9	0.5	40.7	42.1	—	286.4	455.6	724.0
1982	0.2	332.2	7.9	1.0	43.7	52.5	—	384.8	538.1	918.0
1983	0.1	577.0	1.8	1.4	46.7	51.7	—	428.8	642.4	1,071.2
1984	0.1	568.0	2.8	2.8	26.4	30.4	—	366.4	621.5	1,007.0
1985	(9)	323.7	2.5	1.1	84.5	36.1	—	380.8	644.6	976.4
1986	(5)	274.9	0.8	0.7	23.6	25.0	—	289.8	603.9	903.4
1987	(8)	284.9	0.4	0.4	22.2	23.1	—	308.0	694.6	1,002.6
1988	(8)	307.2	0.6	0.6	26.4	26.5	—	333.7	714.0	1,047.7
1989	0.1	217.1	1.1	0.7	45.8	47.7	—	364.9	682.0	1,046.8
1990	(6)	316.5	0.9	0.5	33.7	35.6	7.2 ^d	361.7 ^d	743.8	1,106.7 ^d
1991	(6)	327.7	0.8	0.4	32.9	34.1	7.5	368.4 ^d	777.0	1,148.4 ^d
1992	(5)	336.2	1.0	0.5	30.6	32.1	7.9	376.2 ^d	701.0	1,077.2 ^d
1993	(3)	416.8	1.2	1.0	33.6	38.0	6.6	459.7 ^d	796.0	1,244.7 ^d
1994	0.4	378.9	0.9	0.3	29.5	30.7	6.5	418.5 ^d	799.0	1,215.4

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.

Revised data.

—No consumption.

(9)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 109. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Kansas

Year	Primary Energy								Electricity	Total Energy ^a	
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^b	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	8.45	8.46	1.03	0.69	0.85	2.64	8.58	1.22	0.53	8.82	1.56
1971	0.50	0.47	1.11	0.74	0.80	2.85	0.64	1.31	0.54	6.13	1.60
1972	0.50	0.51	1.12	0.74	0.87	2.56	0.62	1.27	0.57	6.16	1.62
1973	0.45	0.54	1.24	0.86	0.86	3.03	0.77	1.49	0.64	6.35	1.89
1974	0.86	0.81	2.22	1.86	1.86	4.19	1.56	2.55	0.80	6.87	2.14
1975	—	8.88	2.48	2.27	1.81	4.68	1.88	2.88	0.88	8.28	2.78
1976	—	1.12	2.67	2.46	2.16	4.75	1.57	2.93	1.31	9.31	3.22
1977	—	1.22	3.01	2.77	2.64	5.01	1.97	3.20	1.46	10.88	3.95
1978	1.27	1.19	3.07	3.04	2.79	5.11	1.73	3.30	1.41	11.85	3.90
1979	1.56	1.64	4.80	3.65	3.11	5.91	2.11	4.83	2.01	12.76	4.82
1980	1.32	1.91	6.49	8.22	3.88	9.27	—	8.51	2.27	14.81	5.82
1981	1.53	2.42	7.80	8.95	5.13	10.11	—	7.86	2.83	16.88	7.04
1982	1.72	3.22	7.48	8.97	4.73	10.09	3.89	7.70	3.48	18.12	7.76
1983	1.75	4.53	R 6.31	8.74	6.37	8.89	4.56	R 6.50	R 4.77	19.85	R 9.28
1984	1.79	3.48	R 6.31	7.18	6.09	9.12	4.12	R 6.53	3.83	20.09	8.63
1985	1.88	3.35	R 6.57	R 8.81	4.44	8.38	—	R 6.31	R 3.44	19.87	R 8.51
1986	1.74	2.80	R 5.89	R 4.44	8.25	8.72	2.28	R 5.35	R 3.06	21.09	R 8.93
1987	1.58	2.88	R 4.21	R 4.92	7.73	7.05	2.36	R 5.89	R 3.05	20.37	R 8.73
1988	1.42	3.07	R 3.90	R 4.65	7.73	6.78	1.87	R 5.33	R 3.22	19.25	R 8.40
1989	1.26	3.16	R 4.45	R 5.17	7.13	7.66	2.04	R 5.76	3.32	19.17	R 8.61
1990	1.18	3.28	R 5.46	R 4.37	4.48	8.90	2.13	R 5.85	R 3.51	18.86	R 8.22
1991	1.26	3.28	R 4.84	R 5.67	3.43	8.72	1.46	R 5.17	R 3.30	19.56	R 8.06
1992	1.31	3.67	R 4.68	R 5.83	7.73	8.40	2.21	R 5.58	R 3.73	19.79	R 8.60
1993	1.40	4.11	R 4.49	R 5.47	4.18	R 6.31	2.09	R 4.58	R 4.13	19.90	R 9.86
1994	1.35	4.12	4.28	5.35	7.76	8.29	2.22	5.26	4.18	19.89	10.29
Expenditures in Million Nominal Dollars											
1970	0.1	23.9	0.7	0.1	2.7	3.8	0.1	6.8	30.8	81.4	112.8
1971	0.1	20.5	0.7	0.1	2.9	3.1	0.1	6.7	33.3	88.0	121.2
1972	0.1	31.2	1.1	0.1	2.9	3.2	0.1	7.3	38.8	96.2	133.8
1973	(5)	28.1	1.4	0.1	3.1	4.1	0.1	8.8	38.9	102.7	139.6
1974	0.1	32.0	2.5	0.2	5.8	5.6	0.2	14.3	46.3	112.4	156.7
1975	—	34.7	3.8	0.2	5.7	6.3	0.4	15.8	80.3	156.1	208.4
1976	—	62.9	5.4	0.8	6.7	6.7	0.3	19.8	82.7	185.2	287.8
1977	—	81.9	6.1	1.0	8.0	7.9	0.7	23.0	84.9	227.1	342.0
1978	0.3	76.6	7.1	0.6	7.7	7.6	0.6	23.7	98.5	282.6	382.3
1979	0.6	97.9	22.9	1.9	6.0	8.8	0.7	39.3	137.9	261.5	419.4
1980	8.1	111.7	13.6	0.3	4.8	13.8	—	32.3	144.1	343.8	483.8
1981	0.1	125.2	13.5	0.2	5.4	13.8	—	32.6	157.9	407.0	584.8
1982	0.3	178.7	6.3	0.3	4.9	14.1	0.1	25.6	206.6	446.6	651.2
1983	0.1	209.4	R 33.8	0.4	6.6	8.7	0.1	R 48.6	R 289.0	505.9	R 794.9
1984	0.1	199.0	R 36.5	0.4	3.3	7.9	0.1	R 48.1	R 247.1	545.4	R 790.5
1985	(8)	178.8	R 24.3	0.4	3.8	8.8	—	R 37.2	R 215.2	564.2	R 788.8
1986	(5)	159.6	R 7.3	0.2	8.4	6.2	0.1	R 20.3	R 179.9	589.8	R 779.7
1987	(5)	181.9	R 6.6	R 0.4	5.4	7.0	(5)	R 20.6	R 182.4	595.9	R 776.4
1988	(8)	185.2	R 8.8	0.2	7.1	5.8	(8)	R 21.9	R 207.1	591.0	R 790.1
1989	0.1	163.8	R 6.6	0.5	6.7	6.2	0.1	R 22.1	R 206.1	597.0	R 808.1
1990	(8)	188.3	R 9.8	0.2	3.1	7.5	0.4	R 28.2	R 288.5	648.0	R 888.5
1991	(8)	194.5	R 10.2	0.1	2.9	5.7	0.1	R 18.9	R 213.4	683.0	R 876.4
1992	(8)	190.6	R 13.6	0.1	5.3	4.8	0.3	R 24.3	R 214.6	658.0	R 872.8
1993	0.5	227.5	R 16.9	0.2	2.9	R 2.4	0.4	R 22.6	R 250.7	687.0	R 937.7
1994	0.7	215.3	12.4	0.1	5.2	3.8	(8)	21.1	257.1	715.0	952.1

* Liquid petroleum gases

^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R=Revised data

—No consumption

(8)=Value less than 0.05 million nominal dollars

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 110. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Kansas

Year	Primary Energy																Electricity	Total Energy ^a
	Coal			Natural Gas	Petroleum										Biofuels ^c	Total ^c		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^d	Lubricants	Motor Gasoline	Residual Fuel	Other ^e	Total					
Prices in Nominal Dollars per Million Btu																		
1970	—	0.45	0.45	0.27	0.74	0.64	0.68	0.83	0.08	2.04	0.43	0.83	1.24	—	0.80	3.50	0.78	
1971	—	0.50	0.50	0.29	0.86	0.69	0.74	0.90	0.27	2.05	0.58	0.80	1.26	—	0.81	3.50	0.79	
1972	—	0.50	0.50	0.30	0.88	0.69	0.74	0.87	0.59	2.58	0.63	0.79	1.19	—	0.63	3.57	0.81	
1973	—	0.45	0.45	0.37	0.89	0.62	0.86	0.98	0.33	3.03	0.83	0.80	1.31	—	0.73	3.75	0.92	
1974	—	0.96	0.96	0.41	1.85	1.73	1.88	1.99	7.22	4.10	1.81	1.23	2.16	—	1.11	4.26	1.39	
1975	—	0.92	0.92	0.55	2.10	2.12	2.27	1.91	7.49	4.58	1.84	1.79	2.46	—	1.43	4.62	1.84	
1976	—	1.19	1.19	0.63	2.06	2.29	2.40	2.18	7.05	4.76	1.86	1.99	2.55	—	1.80	6.43	2.09	
1977	—	1.05	1.05	1.01	2.07	2.57	2.77	2.54	6.97	5.01	2.00	2.24	2.80	—	1.81	7.84	2.34	
1978	—	1.27	1.27	1.17	2.19	2.79	3.04	2.79	7.60	5.11	1.89	2.15	2.91	—	1.93	8.86	2.55	
1979	—	1.56	1.56	1.66	2.57	3.46	3.65	3.11	10.21	6.91	2.29	2.69	3.45	—	2.41	9.05	2.90	
1980	—	1.32	1.32	2.85	4.88	4.88	5.22	3.58	14.38	8.27	2.53	3.55	4.74	—	3.26	18.80	3.84	
1981	—	1.53	1.53	3.04	5.68	6.22	6.56	6.13	18.00	10.11	4.04	7.48	6.72	—	4.29	12.32	5.08	
1982	—	1.72	1.72	2.92	4.60	6.48	6.87	4.73	17.25	10.09	3.97	7.05	6.03	—	4.25	14.24	5.20	
1983	—	1.76	1.76	3.37	4.89	6.60	6.74	6.37	16.98	8.99	3.89	6.63	6.33	—	4.71	15.44	5.50	
1984	—	1.78	1.78	4.11	4.96	6.54	7.16	5.09	17.63	9.12	4.12	7.45	6.65	—	5.02	16.10	5.64	
1985	—	1.98	1.98	3.84	5.22	6.22	6.81	4.14	17.61	8.29	3.86	6.52	6.28	—	4.59	14.74	5.27	
1986	—	1.74	1.74	3.17	3.98	4.08	4.44	8.25	16.58	6.72	2.26	7.01	6.51	—	4.93	15.75	5.80	
1987	—	1.58	1.58	2.83	3.70	4.50	4.92	7.76	12.70	7.05	2.36	6.59	6.33	—	4.58	15.33	5.59	
1988	—	1.42	1.42	2.39	3.49	4.18	4.55	7.73	14.81	6.78	1.87	6.72	6.06	—	4.38	14.68	5.37	
1989	—	1.28	1.28	3.08	3.00	4.79	5.17	7.12	14.48	7.66	2.04	6.80	6.06	—	4.09	14.17	5.69	
1990	—	1.18	1.18	2.86	2.84	5.93	6.37	4.19	14.88	6.90	2.13	6.40	6.40	1.71	4.32	14.80	5.84	
1991	—	1.26	1.26	2.64	2.98	6.19	6.57	3.43	16.79	6.72	1.48	6.68	6.28	1.75	4.39	14.81	5.60	
1992	—	1.31	1.31	2.64	2.64	6.15	6.53	7.70	19.49	6.49	2.21	6.65	6.05	1.71	4.29	14.45	5.39	
1993	—	1.40	1.40	2.97	3.16	6.00	6.47	4.18	18.94	6.31	2.09	6.70	6.60	1.71	4.49	14.45	5.74	
1994	—	1.35	1.35	2.75	3.17	4.86	5.31	5.80	19.19	6.29	2.22	3.78	5.15	1.71	3.90	14.46	4.94	

Expenditures in Million Nominal Dollars																		
1970	—	1.0	1.0	36.5	18.7	6.4	0.6	5.4	0.4	98.5	0.2	11.2	62.4	—	178.8	46.8	166.8	
1971	—	0.9	0.9	40.2	14.4	11.4	0.4	6.9	7.3	99.0	(6)	11.6	90.1	—	131.1	49.7	160.8	
1972	—	1.0	1.0	47.8	14.0	13.2	0.2	6.2	8.3	36.8	2.2	11.8	91.7	—	140.4	51.8	192.1	
1973	—	1.0	1.0	50.9	15.5	18.1	0.2	6.5	10.4	43.8	2.6	13.9	113.7	—	165.3	58.7	224.0	
1974	—	2.8	2.8	52.4	33.6	38.3	0.3	19.3	13.5	65.2	4.5	20.1	184.9	—	240.1	68.0	308.1	
1975	—	2.8	2.8	51.5	36.1	43.8	0.3	18.7	11.8	66.8	8.0	25.3	199.8	—	253.7	105.5	360.2	
1976	—	2.2	2.2	90.5	32.0	83.3	0.4	29.7	12.0	62.7	7.2	32.2	229.5	—	322.2	127.7	450.0	
1977	—	3.6	3.6	117.8	35.7	70.6	0.8	37.7	17.2	59.1	14.0	36.3	273.5	—	396.0	164.6	559.6	
1978	—	2.8	2.8	136.7	49.1	65.3	1.0	31.4	20.2	47.3	15.1	36.9	289.3	—	428.8	194.6	623.3	
1979	—	7.2	7.2	283.9	53.9	143.6	7.9	72.6	28.4	61.2	15.2	62.4	435.2	—	725.3	215.9	941.2	
1980	—	8.4	8.4	322.0	60.8	181.8	14.1	72.6	35.8	66.3	6.1	75.8	443.3	—	774.8	256.6	1,031.4	
1981	—	11.6	11.6	442.3	70.2	127.5	8.4	97.1	42.7	71.7	13.5	125.0	556.2	—	1,010.1	304.6	1,314.9	
1982	—	13.7	13.7	328.0	58.4	146.4	7.6	163.0	37.3	56.9	13.0	90.0	573.0	—	914.6	321.6	1,236.2	
1983	—	10.7	10.7	308.1	47.1	131.3	5.4	180.8	39.6	39.8	25.6	80.1	548.8	—	867.4	352.0	1,219.5	
1984	—	11.7	11.7	458.0	63.5	140.7	9.7	453.8	42.6	82.5	15.1	85.5	688.4	—	1,339.1	355.4	1,693.5	
1985	—	13.1	13.1	485.3	58.8	141.3	6.8	326.2	38.8	81.9	8.6	82.2	784.7	—	1,118.2	351.8	1,470.0	
1986	—	9.7	9.7	297.7	66.4	107.8	1.2	441.6	34.3	32.8	4.0	68.4	759.4	—	1,055.8	372.9	1,428.7	
1987	—	8.7	8.7	328.4	64.2	112.4	1.1	400.8	31.6	36.1	3.4	79.8	725.9	—	1,063.0	368.8	1,431.7	
1988	—	6.5	6.5	241.3	101.4	107.7	0.3	473.3	35.1	30.2	6.0	85.6	818.5	—	1,066.9	375.9	1,442.2	
1989	—	5.2	5.2	291.2	61.9	106.0	0.6	422.0	35.6	33.7	2.7	73.2	737.9	—	1,034.2	367.7	1,401.9	
1990	—	4.5	4.5	316.4	75.7	132.6	0.4	196.7	37.8	35.8	1.8	76.3	857.1	0.3	878.2	369.8	1,248.1	
1991	—	4.6	4.6	307.8	73.5	138.2	0.3	140.2	38.1	34.6	0.7	81.3	856.6	0.5	857.6	399.4	1,257.0	
1992	—	5.1	5.1	321.3	82.7	138.1	0.6	422.8	44.9	30.1	1.4	83.2	731.7	0.3	1,066.4	405.3	1,471.7	
1993	—	4.5	4.5	342.7	78.2	148.3	0.3	101.3	44.6	38.9	2.8	87.9	840.2	0.3	878.6	418.7	1,297.3	
1994	—	4.4	4.4	487.8	99.6	152.1	0.2	147.5	47.2	41.1	1.5	99.5	515.7	0.3	1,011.0	422.9	1,433.9	

^a Liquid petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990^e Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

(e)=Value less than 0.05 million nominal dollars

Note: Expenditures totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 111. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Kansas

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
													Total
Prices in Nominal Dollars per Million Btu													
1970	0.45	—	2.17	1.18	0.75	0.83	5.08	2.64	0.49	2.34	2.34	—	2.34
1971	0.50	—	2.21	1.18	0.78	0.90	5.27	2.85	0.63	2.35	2.35	—	2.35
1972	0.50	—	2.18	1.23	0.78	0.87	5.58	2.58	0.61	2.32	2.32	—	2.32
1973	0.45	—	2.36	1.66	0.83	0.98	5.33	3.03	0.78	2.71	2.71	—	2.71
1974	0.98	—	3.23	2.57	1.60	1.86	7.22	4.19	1.60	3.83	3.83	—	3.83
1975	0.92	—	3.43	2.76	2.06	1.81	7.48	4.89	1.66	4.13	4.13	—	4.13
1976	1.19	—	3.59	2.80	2.25	2.16	7.05	4.75	1.69	4.38	4.38	—	4.38
1977	1.05	—	3.97	3.14	2.69	2.54	6.97	5.01	1.94	4.80	4.80	—	4.80
1978	—	—	4.29	3.29	2.90	2.79	7.60	5.11	1.73	4.89	4.89	—	4.89
1979	—	—	5.73	5.02	4.09	3.11	10.21	6.91	2.08	6.32	6.32	—	6.32
1980	—	—	8.03	7.06	6.47	3.88	14.38	9.27	3.82	8.88	8.88	—	8.88
1981	—	—	10.84	8.16	7.60	5.13	16.00	10.11	4.83	9.89	9.89	—	9.89
1982	—	—	10.92	7.90	7.19	4.73	17.25	10.09	—	9.48	9.48	—	9.48
1983	—	—	10.44	6.98	^R 6.80	5.37	19.88	8.99	4.46	^R 9.48	^R 9.48	—	^R 9.48
1984	—	—	10.27	7.02	^R 6.45	5.09	17.63	9.12	4.84	^R 9.47	^R 9.47	—	^R 9.47
1985	—	—	8.98	6.78	5.94	4.14	17.61	8.28	—	8.38	8.38	—	8.38
1986	—	—	8.41	6.43	3.73	6.25	16.59	6.72	2.34	8.30	8.30	—	8.30
1987	—	—	7.55	6.69	4.01	7.76	12.70	7.06	—	6.74	6.74	—	6.74
1988	—	—	7.41	6.21	3.81	7.73	14.61	6.78	—	6.47	6.47	—	6.47
1989	—	—	8.28	6.87	4.27	7.13	14.48	7.98	—	7.25	7.25	—	7.25
1990	—	—	8.32	6.29	5.57	4.19	14.86	8.89	—	8.51	8.51	—	8.51
1991	—	—	8.71	7.94	4.61	3.43	16.78	8.72	—	8.31	8.31	—	8.31
1992	—	—	8.54	7.60	4.38	7.73	19.43	8.49	—	8.06	8.06	—	8.06
1993	—	—	9.24	7.79	4.19	4.16	16.94	^R 8.91	—	^R 7.98	^R 7.98	—	^R 7.98
1994	—	3.19	7.95	7.61	4.13	6.68	19.19	6.29	—	9.09	9.09	—	9.09
Expenditures in Million Nominal Dollars													
1970	(8)	—	3.6	32.2	6.4	1.1	13.6	359.2	(8)	416.3	416.3	—	416.3
1971	(8)	—	3.3	36.9	6.6	1.3	16.2	364.2	0.1	427.8	427.8	—	427.8
1972	(8)	—	2.9	37.4	5.2	1.3	16.4	361.6	0.2	448.1	448.1	—	448.1
1973	(8)	—	2.5	59.7	7.2	1.4	19.9	449.7	0.3	534.6	534.6	—	534.6
1974	(8)	—	3.9	91.2	12.4	2.9	25.7	621.7	0.5	738.1	738.1	—	738.1
1975	(8)	—	3.1	92.9	15.0	2.5	23.6	693.1	0.2	838.4	838.4	—	838.4
1976	(8)	—	4.2	93.0	15.4	3.4	24.7	765.6	0.2	826.5	826.5	—	826.5
1977	(8)	—	8.1	117.7	21.1	3.9	25.5	806.7	0.5	982.4	982.4	—	982.4
1978	—	—	4.6	145.5	24.2	4.6	29.6	944.5	0.9	1,053.6	1,053.6	—	1,053.6
1979	—	—	7.1	311.5	43.2	1.9	41.9	1,066.6	0.3	1,492.5	1,492.5	—	1,492.5
1980	—	—	15.1	428.9	66.3	1.5	62.5	1,388.8	(8)	1,949.1	1,949.1	—	1,949.1
1981	—	—	11.7	443.0	103.7	4.5	63.2	1,489.4	(8)	2,095.6	2,095.6	—	2,095.6
1982	—	—	10.5	427.5	73.3	4.1	65.2	1,444.7	—	2,018.3	2,018.3	—	2,018.3
1983	—	—	9.3	379.6	^R 54.4	8.5	36.9	1,302.5	2.8	^R 1,810.4	^R 1,810.4	—	^R 1,810.4
1984	—	—	6.0	416.9	^R 120.6	1.9	63.0	1,294.3	1.3	^R 1,907.0	^R 1,907.0	—	^R 1,907.0
1985	—	—	6.9	398.8	147.6	1.4	68.8	1,314.7	—	1,829.8	1,829.8	—	1,829.8
1986	—	—	6.9	344.9	148.2	3.0	50.6	988.1	(8)	1,519.6	1,519.6	—	1,519.6
1987	—	—	4.6	487.2	96.7	3.2	46.6	1,034.3	—	1,652.7	1,652.7	—	1,652.7
1988	—	—	5.5	419.1	69.2	4.0	51.9	1,053.0	—	1,631.6	1,631.6	—	1,631.6
1989	—	—	6.5	452.3	91.5	4.6	52.7	1,180.7	—	1,768.7	1,768.7	—	1,768.7
1990	—	—	6.4	558.7	135.4	2.1	54.7	1,287.8	—	2,055.9	2,055.9	—	2,055.9
1991	—	—	5.5	490.3	68.2	1.9	66.9	1,244.2	—	1,895.8	1,895.8	—	1,895.8
1992	—	—	6.1	453.4	101.0	2.6	66.4	1,208.2	—	1,836.0	1,836.0	—	1,836.0
1993	—	—	6.3	468.6	64.7	1.5	65.9	^R 1,202.0	—	^R 1,829.9	^R 1,829.9	—	^R 1,829.9
1994	—	(8)	5.7	431.2	45.4	4.7	69.7	1,222.3	—	1,779.2	1,779.2	—	1,779.2

^a Liquidated petroleum gases^R—Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(8)—Value less than 0.05 million nominal dollars

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 112. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Kansas

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy *
			Heavy Oil	Light Oil	Petroleum Cuts	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.31	0.30	0.07	0.02	—	0.02	—	—	0.30
1971	0.31	0.32	0.01	0.02	—	0.00	—	—	0.33
1972	0.32	0.30	0.00	0.00	—	0.00	—	—	0.30
1973	0.32	0.29	0.70	1.35	—	0.01	—	—	0.32
1974	0.30	0.35	1.55	2.10	—	1.71	—	—	0.43
1975	0.67	0.40	1.05	2.00	0.05	1.00	—	—	0.72
1976	0.74	0.71	1.50	2.25	—	1.71	—	—	0.87
1977	0.75	1.01	1.04	2.02	—	2.05	—	—	1.04
1978	0.00	1.22	1.73	2.05	0.71	1.07	—	—	1.13
1979	0.00	1.44	2.04	3.52	—	2.35	—	—	1.20
1980	1.07	1.70	3.70	5.74	—	4.00	—	—	1.30
1981	1.40	2.19	4.03	7.12	—	5.65	—	—	1.51
1982	1.34	2.40	3.00	6.00	—	5.14	—	—	1.64
1983	1.42	2.05	4.40	6.00	—	5.22	—	—	1.72
1984	1.50	2.22	4.04	6.11	—	5.00	—	—	1.77
1985	1.40	2.00	3.00	5.00	—	6.30	0.04	—	1.44
1986	1.32	2.50	2.50	3.30	—	3.27	0.03	—	1.22
1987	1.27	2.16	2.30	3.07	—	3.02	0.51	—	1.10
1988	1.24	2.00	2.75	3.05	—	3.12	0.45	—	1.13
1989	1.24	1.90	2.13	4.35	—	3.51	0.32	—	1.04
1990	1.24	1.70	1.00	5.00	—	4.00	0.00	—	1.00
1991	1.29	1.71	1.41	4.32	—	4.25	0.31	—	1.12
1992	1.16	2.00	1.07	4.30	—	4.30	0.20	—	0.90
1993	1.02	2.32	2.00	4.10	—	3.61	0.33	—	0.95
1994	1.03	1.92	1.50	4.05	—	3.02	0.35	—	0.94
Expenditures in Million Nominal Dollars									
1970	2.6	48.5	1.1	0.6	—	1.0	—	—	52.9
1971	2.7	55.3	1.2	0.0	—	2.0	—	—	61.1
1972	3.3	60.0	2.3	1.0	—	3.3	—	—	74.6
1973	6.0	51.4	3.0	2.3	—	6.2	—	—	64.4
1974	13.1	50.0	13.4	7.4	—	20.7	—	—	91.9
1975	30.0	00.0	00.3	10.0	(a)	50.0	—	—	100.0
1976	53.0	00.3	00.0	14.4	—	05.3	—	—	104.0
1977	04.4	120.0	45.0	12.1	—	57.0	—	—	250.3
1978	120.0	130.0	42.0	11.7	(a)	04.5	—	—	314.2
1979	141.4	101.0	20.0	11.0	—	30.3	—	—	341.0
1980	107.4	172.4	11.7	10.0	—	24.0	—	—	304.3
1981	243.0	107.0	10.5	11.1	—	21.0	—	—	431.0
1982	273.0	145.0	0.0	10.0	—	17.5	—	—	430.4
1983	319.2	132.0	7.0	4.2	—	16.0	—	—	400.9
1984	403.3	101.2	1.2	7.0	—	0.0	—	—	513.3
1985	303.0	00.1	0.0	0.0	—	0.0	34.0	—	003.4
1986	324.0	00.4	0.2	3.4	—	3.0	47.7	—	412.3
1987	331.0	34.5	0.4	3.0	—	3.5	35.7	—	405.4
1988	320.0	30.0	2.1	3.2	—	0.3	32.4	—	404.4
1989	324.0	30.7	0.7	4.0	—	0.0	33.3	—	400.5
1990	333.0	47.5	0.3	4.1	—	4.5	25.3	—	400.7
1991	325.0	50.7	(a)	3.0	—	3.0	19.4	—	400.0
1992	295.2	27.1	(a)	2.0	—	2.0	20.7	—	351.7
1993	304.7	40.0	0.0	3.1	—	3.0	20.0	—	305.2
1994	303.3	51.5	0.1	3.1	—	3.2	31.5	—	309.4

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

—No consumption.

(a) Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 113. Energy Price and Expenditure Estimates by Source, 1970-1994, Kentucky

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c	
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Renewables	Total ^a				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^b	Motor Gasoline	Residual Fuel	Other ^b	Total							
Prices in Nominal Dollars per Million Btu																		
1970	0.38	0.25	0.28	0.66	1.21	0.72	1.80	2.93	0.58	\$1.34	2.12	—	—	0.94	0.22	3.37	1.06	
1971	0.44	0.26	0.29	0.68	1.18	0.78	1.94	3.00	0.79	\$1.40	2.22	—	—	0.99	0.28	3.35	1.75	
1972	0.57	0.31	0.33	0.72	1.23	0.78	2.03	2.98	0.86	\$1.44	2.23	—	—	1.02	0.29	3.33	1.62	
1973	0.66	0.35	0.36	0.76	1.41	0.90	2.62	3.22	0.86	\$1.51	2.45	—	—	1.15	0.31	3.64	2.03	
1974	1.23	0.58	0.62	0.87	2.45	1.58	3.36	4.42	1.97	\$2.45	3.62	—	—	1.65	0.55	4.24	2.73	
1975	1.80	0.78	0.75	1.82	2.88	2.63	3.80	4.89	2.86	\$2.82	3.81	—	—	1.88	0.84	5.32	3.27	
1976	1.87	0.73	0.78	1.19	2.73	2.18	4.03	4.94	2.04	\$2.97	3.92	—	—	1.93	0.69	5.58	3.57	
1977	1.76	0.86	0.92	1.63	3.08	2.65	4.39	5.13	2.26	\$3.12	4.14	—	—	2.23	0.65	6.32	3.83	
1978	1.89	1.14	1.17	1.79	3.19	2.86	4.21	5.28	2.27	\$3.34	4.22	—	—	2.44	1.11	7.72	4.15	
1979	1.75	1.18	1.20	2.19	4.44	3.80	4.49	7.08	2.73	\$4.04	5.60	—	—	3.04	1.14	8.46	5.05	
1980	1.81	1.35	1.37	2.85	6.41	6.39	5.85	9.55	3.84	\$7.82	7.82	—	—	4.89	1.32	10.87	6.74	
1981	2.03	1.51	1.52	3.30	7.68	7.67	6.94	10.74	4.83	\$8.32	9.30	—	—	4.38	1.49	12.90	8.02	
1982	2.04	1.69	1.60	4.27	7.48	7.42	7.08	10.30	4.67	\$7.53	8.69	—	—	4.47	1.39	13.79	8.35	
1983	1.58	1.55	1.56	4.91	\$6.96	\$6.95	6.39	9.96	4.89	\$6.47	\$6.16	—	—	4.26	1.55	14.24	\$8.11	
1984	1.91	1.51	1.53	4.78	\$6.96	\$6.63	6.22	9.72	5.89	\$6.27	6.01	—	—	4.18	1.40	13.78	7.88	
1985	1.89	1.48	1.48	4.77	\$6.84	6.17	6.08	9.66	4.89	\$7.58	\$7.82	—	—	\$3.96	1.43	14.84	\$8.08	
1986	1.78	1.38	1.39	4.38	\$5.47	4.39	6.97	9.68	3.99	\$7.05	\$6.28	—	—	\$3.29	1.54	15.28	\$7.28	
1987	1.63	1.32	1.33	3.91	\$5.92	4.19	7.97	7.26	2.98	\$5.71	\$5.60	—	—	3.38	1.26	15.16	\$7.35	
1988	1.79	1.24	1.26	3.89	\$6.78	3.93	7.18	7.42	2.91	\$5.58	\$5.50	—	—	3.27	1.29	15.46	7.29	
1989	1.75	1.20	1.22	4.07	\$6.41	4.45	6.02	9.88	3.05	\$5.99	\$5.99	—	—	\$3.54	1.14	14.17	\$7.42	
1990	1.88	1.24	1.27	4.12	\$7.67	5.82	6.91	9.28	3.51	\$6.89	\$7.39	—	2.88	\$3.78	1.28	15.17	\$7.83	
1991	1.72	1.23	1.24	3.90	\$7.02	4.82	6.45	8.94	3.12	\$5.55	\$7.44	—	2.84	\$3.69	1.18	12.95	\$7.53	
1992	1.74	1.20	1.22	3.92	\$6.88	4.61	6.52	8.85	2.71	\$5.24	\$7.17	—	2.89	\$3.62	1.17	12.35	\$7.30	
1993	1.69	1.21	1.22	4.20	\$6.98	4.36	9.72	\$6.51	2.76	\$5.12	\$7.28	—	2.85	\$3.57	1.17	12.70	\$7.39	
1994	1.57	1.20	1.22	4.25	6.78	4.09	6.37	8.72	2.56	4.98	7.17	—	2.73	3.53	1.17	12.54	7.40	
Expenditures in Million Nominal Dollars																		
1970	88.4	122.4	136.9	136.7	58.9	12.8	67.5	517.3	3.2	\$181.2	788.8	—	—	1,888.3	-80.4	354.9	1,208.6	
1971	20.1	140.0	160.1	144.5	53.7	11.6	70.4	562.9	1.9	\$155.4	805.8	—	—	1,111.4	-119.3	376.6	1,370.7	
1972	24.8	167.1	191.9	155.8	66.4	8.4	82.8	585.6	3.4	\$159.3	861.8	—	—	1,210.8	-142.7	429.1	1,497.0	
1973	21.4	179.5	200.9	161.2	89.1	12.0	116.8	666.6	0.8	\$129.9	1,814.1	—	—	1,375.3	-152.5	484.8	1,707.9	
1974	47.6	223.4	271.0	171.3	149.5	17.8	147.3	916.6	11.8	\$185.7	1,429.7	—	—	1,972.1	-277.0	576.7	2,271.8	
1975	62.1	368.8	430.9	185.7	184.4	24.6	443.7	1,805.6	11.1	\$285.8	1,554.6	—	—	2,181.3	-389.9	862.2	2,703.7	
1976	36.1	433.6	469.7	267.3	217.4	26.5	166.6	1,089.3	23.9	\$233.1	1,756.4	—	—	2,433.4	-379.5	974.1	3,088.0	
1977	36.2	527.6	563.8	327.5	306.7	31.9	181.5	1,163.6	30.6	\$289.1	2,002.8	—	—	2,804.1	-466.4	1,144.4	3,522.2	
1978	47.3	677.6	724.9	337.9	384.9	41.8	185.6	1,228.0	22.4	\$298.7	2,131.3	—	—	3,194.1	-601.2	1,288.4	3,851.3	
1979	41.0	693.0	734.0	413.4	550.3	56.5	175.5	1,564.6	20.6	\$488.8	2,884.3	—	—	4,003.7	-597.2	1,445.1	4,851.6	
1980	44.8	834.8	879.6	511.8	885.7	164.4	216.4	2,018.1	28.9	\$554.8	3,378.9	—	—	5,281.6	-743.7	1,988.8	6,235.4	
1981	10.3	889.4	1,007.7	573.0	813.6	139.7	262.4	2,267.4	29.0	\$421.5	3,923.6	—	—	5,504.3	-893.5	2,004.9	6,515.7	
1982	25.4	976.6	1,002.0	676.6	761.7	154.9	193.5	2,167.0	26.0	\$388.2	3,891.3	—	—	5,370.1	-833.8	2,173.6	6,559.9	
1983	47.0	945.0	992.0	745.7	\$627.4	\$154.9	214.4	1,896.2	24.2	\$374.6	3,480.8	—	—	\$5,226.5	-865.6	2,261.9	\$6,623.8	
1984	69.5	956.0	1,024.5	780.6	\$689.5	\$121.9	168.2	1,588.9	14.1	\$432.4	3,473.6	—	—	\$5,276.8	-857.2	2,432.9	\$6,654.5	
1985	90.5	1,800.5	1,891.1	722.4	\$641.7	118.3	129.9	1,845.7	9.8	\$372.6	3,578.9	—	—	\$5,181.4	-882.4	2,528.3	\$6,748.3	
1986	52.2	933.2	1,045.4	630.7	\$640.6	87.8	127.8	1,484.7	8.9	\$254.7	3,283.5	—	—	\$4,329.6	-686.1	2,552.6	\$6,008.0	
1987	57.1	936.2	993.3	587.4	\$707.9	113.5	193.6	1,658.9	11.2	\$275.1	3,580.4	—	—	\$4,641.1	-832.6	2,506.4	\$6,304.9	
1988	60.4	973.2	1,033.6	637.0	\$631.3	110.8	173.7	1,722.4	7.4	\$273.0	3,116.5	—	—	\$4,789.1	-894.6	2,747.0	\$6,651.9	
1989	60.6	873.3	933.9	689.6	\$1,050.3	127.7	136.1	1,841.4	8.3	\$274.7	3,436.4	—	—	\$5,069.9	-708.0	2,792.2	\$7,084.1	
1990	55.9	961.8	1,017.8	688.4	\$1,831.7	188.2	149.4	2,879.8	8.9	\$287.7	3,748.7	—	23.8	\$5,448.5	-888.2	2,703.4	\$7,292.7	
1991	39.4	959.9	999.3	683.4	\$1,326.7	177.3	153.7	2,054.4	5.4	\$484.5	3,612.0	—	25.4	\$5,495.1	-652.0	2,800.1	\$7,433.2	
1992	52.7	938.4	991.1	696.2	\$1,026.6	178.7	149.7	2,213.4	4.6	\$491.2	3,864.1	—	26.0	\$5,577.4	-652.7	\$2,780.9	\$7,488.6	
1993	52.9	1,076.3	1,129.2	799.9	\$1,135.7	140.8	\$201.9	\$2,045.8	\$9.9	\$486.8	3,882.0	—	21.0	\$5,942.2	-689.9	\$2,911.8	\$7,884.6	
1994	52.4	1,039.1	1,091.5	813.5	1,107.4	146.8	169.1	2,118.1	3.3	486.8	4,005.7	—	20.8	5,934.6	-647.6	3,059.4	8,046.2	

^a Liquidated petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A^c These are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

Revised data.

—No comparison, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 114. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Kentucky

Year	Primary Energy								Electricity	Total Energy ^c
	Coal	Natural Gas	Petroleum				Biofuels ^b	Total ^d		
			Distillate Fuel	Kerosene	LPG ^a	Total				
Prices in Nominal Dollars per Million Btu										
1970	0.86	0.81	1.19	1.73	2.26	1.26	—	1.06	6.65	1.67
1971	0.82	0.87	1.30	1.89	2.28	1.92	—	1.10	5.36	1.88
1972	0.95	0.91	1.32	1.60	2.48	2.06	—	1.16	5.44	1.91
1973	1.13	0.97	1.57	1.89	3.98	3.14	—	1.47	6.22	2.42
1974	1.86	1.08	2.41	2.96	4.11	3.59	—	1.66	6.94	2.78
1975	1.91	1.22	2.49	3.13	4.16	3.68	—	1.77	7.89	3.21
1976	2.14	1.31	2.77	3.50	4.71	4.00	—	1.85	8.29	3.25
1977	2.41	1.77	3.20	3.59	5.06	4.98	—	2.30	9.09	3.93
1978	2.46	1.92	3.36	3.87	4.94	4.43	—	2.46	10.06	4.49
1979	2.16	2.33	4.62	6.19	5.88	5.79	—	3.11	10.87	5.22
1980	2.30	3.00	6.80	9.82	8.31	8.18	—	4.13	12.81	6.84
1981	2.63	3.44	6.54	10.41	8.61	8.97	—	4.20	14.84	7.88
1982	2.59	4.41	8.11	10.27	9.32	9.18	—	5.03	16.24	9.03
1983	2.41	5.20	7.63	9.10	9.67	8.97	—	5.81	17.32	10.10
1984	2.46	5.06	7.96	8.18	9.43	9.46	—	5.54	16.63	9.54
1985	2.45	5.16	7.87	6.19	9.78	8.62	—	5.76	17.96	10.10
1986	2.23	4.75	5.10	5.45	9.15	6.96	—	5.06	16.94	9.83
1987	2.12	4.37	5.25	5.41	8.83	7.34	—	4.88	16.58	9.70
1988	2.04	4.32	5.80	5.08	6.34	6.97	—	4.75	16.60	9.48
1989	2.01	4.50	5.14	6.55	11.02	8.75	—	5.23	18.51	9.78
1990	2.26	4.74	6.76	7.22	11.88	9.59	^d 2.53	^d 6.38	18.70	^d 9.81
1991	2.12	4.65	6.27	6.70	10.54	6.70	^R 3.53	^R 5.21	16.66	^R 9.58
1992	2.09	4.74	6.42	6.85	11.12	6.97	^R 3.53	^R 5.27	16.68	^R 9.37
1993	2.19	5.01	7.09	7.66	10.22	6.80	^R 3.53	^R 5.61	16.71	^R 9.73
1994	2.16	5.14	5.17	5.59	10.41	6.53	^R 3.53	^R 5.66	16.93	^R 9.69
Expenditures in Million Nominal Dollars										
1970	3.6	71.6	2.6	26.4	30.0	63.1	—	129.4	139.4	268.1
1971	2.6	74.1	2.7	17.0	29.5	49.2	—	125.8	136.4	254.3
1972	2.6	79.4	2.8	12.6	34.3	49.8	—	131.5	131.3	262.9
1973	3.3	79.3	3.6	14.1	60.9	78.5	—	161.2	169.5	330.7
1974	5.7	83.7	5.5	21.5	57.6	84.8	—	174.2	191.9	366.1
1975	4.8	87.1	4.4	18.0	57.6	81.3	—	186.8	236.0	441.0
1976	5.4	127.2	10.6	15.7	66.0	94.4	—	227.1	283.7	510.7
1977	10.2	169.2	17.7	16.2	79.2	107.1	—	266.6	356.0	642.4
1978	11.0	163.6	17.1	18.5	71.1	104.7	—	279.3	413.7	693.0
1979	13.7	182.2	22.4	72.6	80.1	145.4	—	341.3	443.9	785.2
1980	5.8	284.9	22.9	84.6	63.0	190.4	—	490.8	575.3	986.8
1981	11.2	246.0	28.4	28.0	56.7	115.1	—	372.4	683.6	1,055.8
1982	8.9	302.1	30.8	30.7	51.3	112.8	—	423.8	758.7	1,182.3
1983	7.5	334.7	30.2	47.0	63.3	140.6	—	482.7	854.5	1,337.2
1984	7.8	347.4	32.7	39.6	45.7	116.0	—	473.8	832.6	1,304.1
1985	6.2	318.5	36.6	58.7	58.9	131.4	—	486.6	846.3	1,301.7
1986	6.7	292.7	20.3	20.7	54.9	95.9	—	364.4	684.7	1,279.1
1987	5.3	267.7	23.2	14.2	77.0	114.4	—	387.4	615.1	1,302.6
1988	6.3	268.6	28.9	21.6	66.4	116.2	—	406.4	652.0	1,361.4
1989	3.9	304.6	26.7	21.7	80.3	138.6	—	447.1	653.0	1,400.1
1990	2.8	276.4	25.4	13.1	78.5	117.6	^d 18.8	^d 415.1	686.8	^d 1,372.1
1991	3.4	269.6	25.7	14.4	81.9	122.0	19.8	^R 434.8	1,059.0	^R 1,483.9
1992	3.6	310.2	28.8	14.2	81.6	124.6	20.8	^R 459.5	1,013.0	^R 1,472.5
1993	5.1	351.3	32.2	17.0	80.5	136.7	15.6	^R 527.8	1,096.0	^R 1,603.9
1994	5.4	341.4	29.3	14.6	85.8	129.8	15.6	^R 482.2	1,125.0	^R 1,617.2

^a Liquefied petroleum gases^b Commercial sector prices and expenditures for wood and waste are included in the residential sector^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990^R Revised data

— No consumption

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 115. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Kentucky

Year	Primary Energy								Electricity	Total Energy ^b
	Coal	Natural Gas	Petroleum					Total		
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel			
Prices in Nominal Dollars per Million Btu										
1970	0.44	0.68	1.02	0.79	1.85	2.93	0.78	1.31	0.75	1.51
1971	0.39	0.69	1.11	0.85	1.76	3.00	0.74	1.44	0.79	1.54
1972	0.50	0.74	1.12	0.86	1.61	2.98	0.74	1.49	0.84	1.69
1973	0.52	0.78	1.34	1.00	1.61	3.22	0.80	1.67	0.91	1.58
1974	0.91	0.90	2.18	2.23	3.01	4.42	1.64	2.67	1.19	2.03
1975	1.39	1.06	2.29	2.63	3.29	4.89	1.98	2.88	1.43	2.85
1976	1.18	1.14	2.56	2.58	3.06	4.94	1.89	3.00	1.46	2.42
1977	1.23	1.64	2.99	2.63	4.02	5.13	1.81	3.27	1.95	3.06
1978	1.45	1.81	3.07	3.21	3.85	5.20	1.74	3.41	2.12	3.39
1979	1.50	2.18	4.41	4.60	4.10	7.00	2.24	4.63	2.62	4.24
1980	1.75	2.89	6.49	6.08	5.22	8.85	4.12	6.53	4.81	5.99
1981	1.86	3.35	8.06	6.94	8.91	10.74	5.47	8.57	3.82	6.80
1982	1.91	4.33	7.57	7.17	7.22	10.30	5.26	8.13	4.46	8.56
1983	1.76	5.09	^a 6.44	6.53	7.06	8.96	4.64	^a 6.56	^a 5.16	^a 8.58
1984	1.61	4.93	^a 6.43	7.71	7.55	8.72	6.09	^a 6.85	^a 5.08	^a 7.78
1985	1.68	4.86	^a 6.09	^a 7.33	5.26	8.80	4.88	^a 6.51	^a 5.89	^a 7.90
1986	1.79	4.55	^a 3.72	^a 4.73	5.91	8.58	3.08	^a 4.64	^a 4.31	7.84
1987	2.00	4.11	^a 4.25	^a 8.25	7.44	7.36	2.98	^a 5.92	^a 4.18	^a 9.11
1988	1.78	4.09	^a 3.64	^a 4.88	6.84	7.42	2.81	^a 6.02	^a 4.00	^a 8.64
1989	1.63	4.19	^a 4.48	^a 6.50	3.18	6.08	3.05	^a 5.27	^a 4.19	^a 9.01
1990	1.88	4.36	^a 5.86	^a 6.84	4.73	8.26	3.61	^a 6.86	^a 4.82	^a 9.78
1991	1.67	4.24	^a 4.92	^a 6.08	4.47	8.84	—	^a 5.78	^a 4.35	^a 9.59
1992	1.79	4.22	^a 4.72	^a 6.02	4.36	8.65	—	^a 5.41	^a 4.25	^a 9.22
1993	1.70	4.60	^a 4.54	^a 5.84	9.38	^a 5.51	2.78	^a 5.97	^a 4.62	^a 9.41
1994	1.75	4.89	4.33	5.84	7.73	8.72	2.56	5.15	4.60	9.40
Expenditure (in Million Nominal Dollars)										
1970	3.5	28.3	5.0	1.8	3.7	4.1	0.1	14.8	46.5	111.2
1971	2.2	29.9	4.8	1.8	4.0	3.7	(s)	14.3	46.4	109.4
1972	2.4	32.2	4.8	1.3	4.5	3.5	(e)	13.9	48.4	121.7
1973	2.7	36.6	6.3	1.8	8.1	4.1	(s)	17.0	66.5	133.9
1974	4.4	38.5	10.3	9.2	7.8	6.6	0.1	26.6	69.7	155.2
1975	5.6	40.8	18.2	3.0	6.1	6.8	0.1	36.2	78.6	183.0
1976	6.4	65.6	20.7	2.4	9.9	6.3	0.2	38.8	109.9	239.6
1977	9.5	63.1	33.6	2.5	10.2	7.0	0.2	53.6	146.1	311.0
1978	11.5	85.4	32.4	2.8	9.8	7.6	0.1	62.6	149.6	347.7
1979	17.3	89.3	44.2	10.6	6.2	9.4	0.2	70.8	177.3	401.9
1980	7.7	114.9	96.6	21.4	7.6	12.7	4.5	141.1	363.8	662.7
1981	14.4	123.4	29.2	4.9	10.7	14.5	0.9	59.0	188.8	553.4
1982	12.2	164.9	21.6	3.4	7.0	14.3	0.1	46.4	213.6	572.9
1983	10.0	175.9	^a 69.4	7.4	9.2	18.0	1.4	^a 82.3	^a 276.3	^a 736.3
1984	10.3	182.2	^a 64.1	7.1	6.7	19.5	1.0	^a 92.6	^a 283.3	^a 801.6
1985	7.4	172.1	^a 53.9	^a 3.8	5.3	17.8	(e)	^a 80.5	^a 288.8	^a 884.7
1986	8.4	154.4	^a 22.2	^a 4.0	6.3	14.2	0.6	^a 47.3	^a 210.1	^a 647.9
1987	9.2	141.6	^a 13.2	2.0	11.3	16.2	(s)	^a 42.7	^a 193.7	^a 740.8
1988	10.1	150.4	^a 21.8	^a 5.9	9.2	15.8	0.7	^a 61.4	^a 211.9	^a 776.9
1989	8.6	157.2	^a 16.9	^a 5.1	4.6	16.7	(s)	^a 43.9	^a 207.2	^a 795.2
1990	4.8	143.8	^a 21.2	^a 3.7	8.8	21.5	(e)	^a 61.9	^a 286.1	^a 814.1
1991	5.6	149.6	^a 20.5	^a 3.5	6.1	15.0	—	^a 45.2	^a 200.4	^a 654.4
1992	6.0	158.3	^a 24.2	^a 2.0	5.8	12.8	—	^a 44.4	^a 208.7	^a 636.7
1993	7.3	162.3	^a 17.5	^a 2.6	14.0	1.8	(s)	^a 36.9	^a 225.5	^a 674.5
1994	8.0	183.0	24.9	2.3	11.0	1.8	(s)	40.4	231.4	698.4

^a Liquefied petroleum gases^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R=Revised data

—No consumption

(s)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 116. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Kentucky

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Nuclear ^e	Total ^c		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	0.39	0.44	0.42	0.40	0.67	0.73	0.79	1.00	0.89	2.03	0.44	1.07	1.17	—	0.79	2.90	1.00
1971	0.44	0.39	0.41	0.53	0.72	0.78	0.85	1.76	0.27	3.00	0.60	1.17	1.29	—	0.77	2.37	1.12
1972	0.57	0.50	0.53	0.54	0.78	0.78	0.85	1.81	0.58	2.98	0.56	1.16	1.32	—	0.83	2.48	1.24
1973	0.66	0.52	0.59	0.65	0.83	0.83	1.00	1.91	0.58	3.22	0.66	1.23	1.41	—	0.93	2.64	1.37
1974	1.23	0.81	0.90	0.65	1.41	2.06	2.23	3.01	7.22	4.42	1.69	2.01	2.34	—	1.48	3.32	1.92
1975	1.00	1.30	1.44	0.75	1.08	2.31	2.53	3.29	7.46	4.68	2.11	2.48	2.67	—	1.81	4.56	2.44
1976	1.07	1.19	1.35	1.07	1.02	2.34	2.56	3.69	7.85	4.64	2.07	2.77	2.79	—	1.99	4.60	2.54
1977	1.76	1.23	1.42	1.40	1.99	2.74	2.83	4.02	6.87	6.13	2.53	3.02	3.02	—	2.34	5.37	3.27
1978	1.69	1.45	1.62	1.59	2.80	2.92	3.21	3.86	7.89	6.20	2.54	3.16	3.16	—	2.46	6.90	3.63
1979	1.75	1.50	1.59	1.98	2.59	3.61	4.40	4.30	10.21	7.00	2.85	4.39	4.01	—	2.95	7.55	4.13
1980	1.81	1.75	1.77	2.46	3.05	5.43	6.48	5.22	14.38	9.85	3.09	6.93	5.82	—	4.10	8.63	5.23
1981	2.03	1.86	1.89	3.14	4.81	8.34	8.94	8.91	18.03	10.74	4.68	7.57	7.22	—	4.70	10.55	6.40
1982	2.04	1.91	1.84	4.06	4.57	6.54	7.17	7.22	17.25	10.30	4.87	7.22	6.57	—	4.96	11.99	6.88
1983	1.59	1.76	1.68	4.48	4.57	\$4.73	4.83	7.86	16.09	8.86	4.89	6.89	\$7.30	—	\$4.60	12.23	\$6.70
1984	1.91	1.81	1.86	4.29	4.40	\$4.67	7.71	7.86	17.63	8.72	6.90	8.20	\$7.30	—	\$4.45	12.99	\$6.84
1985	1.83	1.89	1.90	4.25	4.34	\$7.39	8.28	8.28	17.81	8.89	4.89	7.89	\$6.63	—	\$4.22	14.51	\$7.41
1986	1.76	1.79	1.78	3.79	4.98	\$4.10	4.73	5.94	15.59	6.89	3.08	\$6.54	\$6.40	—	\$3.82	15.14	\$6.79
1987	1.63	2.00	1.84	3.27	3.19	\$4.84	\$5.25	7.44	12.70	7.36	2.88	\$5.73	\$6.31	—	3.80	13.98	\$6.29
1988	1.73	1.75	1.74	3.32	3.95	\$4.20	4.86	6.84	14.61	7.42	2.91	\$4.91	\$5.90	—	\$3.45	14.00	6.35
1989	1.76	1.83	1.80	3.55	2.88	\$4.76	\$5.50	3.18	14.40	6.08	3.05	\$5.27	\$4.74	—	\$3.53	12.46	\$6.01
1990	1.89	1.86	1.84	3.47	2.94	\$5.88	\$6.80	4.73	14.80	6.38	3.61	\$5.67	\$5.38	1.85	\$3.89	19.48	\$6.86
1991	1.72	1.67	1.62	3.09	3.30	\$5.27	\$6.00	4.47	16.70	6.94	3.12	\$5.50	\$5.18	1.67	\$3.74	8.93	\$6.17
1992	1.74	1.76	1.75	3.06	2.03	\$5.21	\$6.62	4.39	18.45	6.45	2.71	\$4.71	\$4.98	1.69	\$3.82	9.25	\$6.30
1993	1.66	1.70	1.70	3.40	2.30	\$5.05	\$6.04	3.38	18.34	6.51	2.76	\$4.42	\$5.29	1.66	\$3.85	9.67	\$6.39
1994	1.57	1.75	1.67	3.43	2.44	4.91	5.67	5.89	19.10	6.72	2.90	4.13	4.82	1.96	3.86	8.51	6.35
Expenditures in Million Nominal Dollars																	
1970	36.4	27.5	44.0	34.3	73.9	8.9	2.7	33.5	14.6	3.2	1.0	33.8	112.3	—	188.8	180.5	341.1
1971	20.1	20.1	40.2	37.6	15.0	10.4	2.5	36.4	10.5	4.1	0.4	30.0	124.4	—	202.1	177.2	379.3
1972	24.8	25.1	49.9	41.5	16.6	11.0	2.9	43.8	18.7	3.3	0.5	42.3	138.7	—	230.1	204.5	454.6
1973	21.4	24.5	45.9	42.3	19.9	14.8	3.3	60.9	20.1	3.8	(4)	52.0	163.9	—	252.1	247.3	499.4
1974	47.0	40.5	86.2	48.9	24.1	35.7	4.4	81.2	24.2	4.7	9.7	61.5	247.4	—	402.5	290.3	701.8
1975	52.1	88.1	140.2	47.5	31.3	44.7	4.2	77.8	23.6	4.8	8.9	98.2	283.6	—	443.4	479.9	923.2
1976	36.1	46.5	82.5	74.3	32.2	56.9	7.7	88.7	24.6	4.8	21.7	123.1	359.0	—	515.8	560.7	1,076.6
1977	36.2	45.5	81.7	74.4	36.7	100.8	7.4	87.3	22.9	4.1	28.7	190.4	456.9	—	613.0	623.6	1,236.6
1978	47.3	87.9	135.2	87.6	43.2	109.2	9.1	103.8	29.8	3.1	20.3	172.7	487.9	—	680.8	676.6	1,357.5
1979	41.0	98.7	139.7	140.3	50.6	122.3	27.7	118.8	37.5	3.5	17.7	249.7	627.6	—	877.5	776.5	1,654.1
1980	44.8	98.6	143.4	167.8	47.8	203.4	19.8	146.2	48.9	4.8	17.1	385.8	689.6	—	1,172.8	822.8	1,994.6
1981	18.3	91.4	110.7	196.7	51.8	186.8	22.2	180.2	58.4	4.1	20.3	188.8	730.4	—	1,007.8	954.7	1,962.5
1982	29.4	90.0	119.4	214.5	87.9	187.1	21.5	127.9	49.3	3.3	25.6	143.1	645.6	—	970.7	956.6	1,907.3
1983	47.9	74.6	121.5	230.5	83.7	\$185.4	17.3	132.5	50.8	2.3	22.5	134.5	\$587.1	—	\$939.1	947.3	\$1,886.4
1984	69.5	97.1	166.6	244.1	83.3	\$175.1	15.5	107.5	56.3	29.3	13.0	162.1	\$622.0	—	\$1,032.7	1,204.1	\$2,236.8
1985	69.5	117.9	178.3	227.4	98.9	\$287.2	24.2	68.9	52.4	28.9	8.5	143.1	\$588.0	—	\$1,083.7	1,284.4	\$2,368.1
1986	62.2	90.2	151.4	182.3	74.3	\$118.5	17.2	64.9	46.3	26.9	8.3	\$95.9	\$443.3	—	\$778.9	1,230.1	\$2,007.0
1987	57.1	95.4	152.5	176.3	57.2	\$144.0	4.9	303.6	41.8	32.6	11.2	\$113.5	\$507.6	—	\$837.2	1,194.8	\$1,972.0
1988	60.4	77.9	138.4	198.6	53.0	\$127.4	5.2	87.4	46.3	30.6	6.6	\$95.9	\$462.3	—	\$799.3	1,230.0	\$2,029.3
1989	60.8	102.0	162.5	228.9	52.4	\$132.7	6.1	40.4	47.1	35.6	6.3	\$94.6	\$415.3	—	\$804.7	1,251.2	\$2,056.0
1990	96.9	103.2	190.0	235.4	58.1	\$179.7	5.9	94.3	49.4	41.0	8.9	\$107.7	\$515.4	4.9	\$1,112.7	1,195.4	\$2,308.1
1991	39.4	95.2	134.6	219.8	61.3	\$190.4	2.5	94.8	50.3	40.6	6.4	\$112.0	\$497.1	5.5	\$1,068.6	1,087.1	\$2,145.9
1992	62.7	72.1	124.8	228.9	54.1	\$175.6	2.8	61.5	59.3	39.1	4.5	\$118.4	\$595.4	5.2	\$1,063.3	\$1,139.9	\$2,193.2
1993	62.9	101.2	154.0	264.9	40.0	\$154.4	4.8	\$98.9	58.9	\$48.6	3.8	\$284.6	\$691.7	5.2	\$1,115.8	1,165.6	\$2,282.2
1994	52.4	88.2	130.6	268.1	45.1	182.6	3.2	88.0	62.3	51.0	3.3	278.7	694.1	5.4	1,125.2	1,268.1	2,392.4

^a Liquefied petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

R-Projected data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(c) Values less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 117. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Kentucky

Year	Primary Energy										Total	Electricity	Total Energy
	Coal	Natural Gas	Petroleum										
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG*	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.44	—	2.17	1.45	0.73	1.85	0.98	2.83	0.77	2.86	2.86	—	2.86
1971	0.50	—	2.21	1.40	0.76	1.78	0.97	3.00	0.73	2.89	2.89	—	2.89
1972	0.50	—	2.19	1.41	0.76	1.81	0.98	2.98	0.65	2.67	2.67	—	2.67
1973	0.52	—	2.38	1.50	0.80	1.81	0.98	3.22	0.79	2.88	2.88	—	2.88
1974	0.67	—	3.23	2.67	1.56	3.01	1.22	4.42	1.44	4.08	4.08	—	4.08
1975	1.38	—	3.46	2.78	2.08	3.29	1.48	4.49	1.46	4.34	4.34	—	4.34
1976	1.18	—	3.59	2.98	2.16	3.86	1.05	4.84	1.54	4.47	4.47	—	4.47
1977	1.23	—	3.87	3.36	2.54	4.82	0.87	5.13	1.59	4.76	4.76	—	4.76
1978	—	—	4.28	3.57	2.88	3.85	1.00	5.20	1.51	4.78	4.78	—	4.78
1979	—	—	5.73	4.80	3.90	4.40	10.21	7.00	2.08	6.38	6.38	—	6.38
1980	—	—	9.02	6.86	6.38	8.22	14.38	8.85	3.94	8.82	8.82	—	8.82
1981	—	—	10.84	8.25	7.67	8.31	18.00	10.74	5.20	10.05	10.05	—	10.05
1982	—	—	10.82	7.86	7.42	7.22	17.25	10.30	5.08	9.82	9.82	—	9.82
1983	—	—	10.44	7.08	^A 6.85	7.95	16.98	8.98	4.84	^A 8.40	^A 8.40	—	^A 8.40
1984	—	—	10.27	7.08	^A 6.63	7.85	17.63	8.72	4.80	^A 8.24	^A 8.24	—	^A 8.24
1985	—	—	9.98	6.78	6.17	5.26	17.81	8.38	—	8.19	8.19	—	8.19
1986	—	—	6.41	6.16	4.99	5.81	15.59	8.09	—	8.50	8.50	—	8.50
1987	—	—	7.55	6.61	4.18	7.44	12.70	7.38	—	8.97	8.97	—	8.97
1988	—	—	7.41	6.40	3.93	6.84	14.61	7.42	—	8.82	8.82	—	8.82
1989	—	—	8.28	6.88	4.45	3.18	14.48	8.08	—	7.46	7.46	—	7.46
1990	—	—	8.32	6.21	5.82	4.78	14.88	8.38	—	8.78	8.78	—	8.78
1991	—	—	6.71	7.75	4.82	4.47	16.79	8.94	—	8.28	8.28	—	8.28
1992	—	3.57	8.54	7.58	4.61	4.38	19.43	8.65	—	8.91	8.91	—	8.91
1993	—	8.08	8.24	7.58	4.36	8.28	18.94	^A 8.51	^A 7.95	^A 7.95	^A 7.95	—	^A 7.95
1994	—	4.35	7.88	7.58	4.08	8.88	18.38	8.72	—	8.05	8.05	—	8.05

Expenditures in Million Nominal Dollars													
1970	0.1	—	3.6	41.4	12.8	8.5	11.4	818.8	8.7	888.8	888.1	—	888.1
1971	(a)	—	2.0	35.8	11.5	0.4	12.6	895.1	0.2	817.6	817.7	—	817.7
1972	(a)	—	1.9	80.1	9.4	0.4	14.3	581.8	(a)	657.8	657.9	—	657.9
1973	(a)	—	1.7	83.5	12.0	0.5	17.4	658.0	(a)	753.9	753.9	—	753.9
1974	(a)	—	2.4	98.9	17.8	0.8	22.0	988.1	(a)	1,048.0	1,048.7	—	1,048.7
1975	(a)	—	2.2	108.8	26.8	0.8	24.8	884.8	(a)	1,148.6	1,148.6	—	1,148.6
1976	(a)	—	2.3	127.2	26.5	1.0	25.2	1,078.9	(a)	1,281.1	1,281.1	—	1,281.1
1977	(a)	—	2.2	152.5	31.9	1.2	21.9	1,172.4	(a)	1,382.1	1,382.1	—	1,382.1
1978	—	—	2.3	195.0	41.4	1.3	25.0	1,217.2	(a)	1,483.0	1,483.0	—	1,483.0
1979	—	—	3.9	381.2	56.5	0.4	36.0	1,561.7	0.7	2,010.4	2,010.4	—	2,010.4
1980	—	—	6.1	811.8	88.4	9.3	45.1	2,888.8	3.4	2,871.1	2,871.1	—	2,871.1
1981	—	—	8.0	645.1	139.7	2.8	54.3	2,249.8	6.2	3,003.8	3,003.8	—	3,003.8
1982	—	—	4.8	506.3	154.9	7.2	47.4	2,149.4	0.3	2,873.5	2,873.5	—	2,873.5
1983	—	—	5.0	585.4	154.9	9.4	46.9	1,877.9	0.3	^A 2,681.9	^A 2,681.9	—	^A 2,681.9
1984	—	—	3.8	615.3	121.8	8.3	34.1	1,828.0	0.2	^A 2,630.0	^A 2,630.0	—	^A 2,630.0
1985	—	—	3.3	834.7	119.3	1.9	48.4	1,788.3	—	2,488.8	2,488.8	—	2,488.8
1986	—	—	3.8	483.8	87.8	1.7	48.8	1,451.4	—	2,072.1	2,072.1	—	2,072.1
1987	—	—	2.4	522.1	119.5	1.9	40.2	1,810.1	—	2,290.2	2,290.2	—	2,290.2
1988	—	—	2.3	688.7	110.8	1.8	44.5	1,878.0	—	2,484.1	2,484.1	—	2,484.1
1989	—	—	2.2	867.7	127.7	0.9	45.3	1,788.1	—	2,832.8	2,832.8	—	2,832.8
1990	—	—	2.4	798.4	188.2	1.1	47.8	2,817.3	—	3,884.4	3,884.4	—	3,884.4
1991	—	—	2.3	713.4	177.3	0.9	48.3	1,888.9	—	2,841.0	2,841.0	—	2,841.0
1992	—	(a)	2.4	791.8	179.7	0.9	57.9	1,861.7	—	2,893.3	2,893.3	—	2,893.3
1993	—	(a)	1.7	886.1	140.8	1.8	96.8	^A 1,987.2	—	^A 3,124.3	^A 3,124.3	—	^A 3,124.3
1994	—	(a)	1.8	882.6	148.3	2.9	98.9	2,083.3	—	3,137.3	3,137.3	—	3,137.3

* Liquefied petroleum gases.

(a) Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)—Value less than \$0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 118. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Kentucky

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.21	0.29	0.87	1.12	—	0.88	—	—	0.32
1971	0.26	0.33	0.78	0.99	—	0.79	—	—	0.28
1972	0.28	0.36	0.78	0.98	—	0.79	—	—	0.28
1973	0.31	0.33	0.86	0.81	—	0.86	—	—	0.31
1974	0.55	0.41	1.82	2.21	—	1.83	—	—	0.55
1975	0.84	0.68	1.89	2.25	—	1.72	—	—	0.84
1976	0.89	0.83	1.69	2.48	—	2.06	—	—	0.89
1977	0.85	1.06	1.79	2.61	—	2.15	—	—	0.85
1978	1.11	1.05	1.78	2.87	—	2.08	—	—	1.11
1979	1.14	1.08	2.18	4.48	—	2.91	—	—	1.14
1980	1.31	2.16	—	6.54	—	6.54	—	—	1.32
1981	1.47	2.58	—	9.09	—	8.09	—	—	1.49
1982	1.55	3.39	—	7.80	—	7.80	—	—	1.58
1983	1.53	3.79	—	6.28	—	6.28	—	—	1.55
1984	1.47	3.60	—	6.13	—	6.13	—	—	1.49
1985	1.47	3.54	—	6.88	—	6.88	—	—	1.49
1986	1.34	2.97	—	3.50	—	3.50	—	—	1.34
1987	1.28	2.78	—	4.07	—	4.07	—	—	1.28
1988	1.20	2.48	—	3.85	—	3.85	—	—	1.20
1989	1.14	2.87	—	4.75	—	4.75	—	—	1.14
1990	1.18	2.98	—	5.78	—	5.78	—	—	1.28
1991	1.18	2.80	—	5.05	—	5.05	—	—	1.18
1992	1.18	2.72	—	4.79	—	4.79	—	—	1.17
1993	1.17	3.01	—	4.38	—	4.38	—	—	1.17
1994	1.16	2.87	—	4.33	—	4.33	—	—	1.17
Expenditures in Million Nominal Dollars									
1970	87.4	2.5	0.7	(a)	—	8.7	—	—	90.8
1971	115.0	3.0	1.2	(a)	—	1.3	—	—	119.3
1972	137.1	3.7	1.8	0.1	—	1.9	—	—	142.7
1973	149.0	2.7	0.8	(a)	—	0.8	—	—	152.6
1974	272.7	2.3	2.0	0.1	—	2.1	—	—	277.0
1975	308.4	8.2	1.1	0.1	—	1.2	—	—	389.8
1976	379.4	0.1	1.4	1.7	—	3.1	—	—	379.6
1977	482.4	0.8	1.7	1.5	—	3.2	—	—	488.4
1978	598.9	1.3	1.9	1.1	—	3.0	—	—	601.2
1979	583.3	1.6	2.0	0.9	—	2.9	—	—	587.2
1980	730.9	4.2	—	8.6	—	8.6	—	—	743.7
1981	871.5	5.8	—	15.2	—	15.2	—	—	893.5
1982	885.6	5.3	—	13.1	—	13.1	—	—	883.8
1983	893.0	4.8	—	10.0	—	10.0	—	—	898.8
1984	838.9	5.5	—	10.8	—	10.8	—	—	857.2
1985	870.2	4.1	—	8.1	—	8.1	—	—	883.4
1986	879.9	1.3	—	4.8	—	4.8	—	—	886.1
1987	826.3	1.0	—	5.3	—	5.3	—	—	832.6
1988	876.9	1.1	—	4.5	—	4.5	—	—	884.5
1989	780.5	0.9	—	6.4	—	6.4	—	—	789.0
1990	851.3	0.8	—	7.1	—	7.1	—	—	859.2
1991	854.7	0.6	—	6.7	—	6.7	—	—	862.0
1992	856.5	0.7	—	5.5	—	5.5	—	—	862.7
1993	862.7	0.8	—	5.5	—	5.5	—	—	869.0
1994	838.4	1.0	—	8.0	—	8.0	—	—	847.5

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

—No consumption.

(a)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 119. Energy Price and Expenditure Estimates by Source, 1970-1994, Louisiana

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biomass	Total ^d			
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Heating Fuel	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																	
1970	—	—	—	0.27	0.88	0.72	1.32	2.98	6.45	\$1.08	1.48	—	—	8.65	0.21	4.88	8.94
1971	—	—	—	0.29	0.90	0.75	1.12	2.84	6.49	\$1.04	1.48	—	—	8.69	0.24	4.75	8.98
1972	—	—	—	0.34	0.99	0.76	1.14	2.73	6.82	\$1.04	1.45	—	—	8.73	0.27	4.64	1.06
1973	—	—	—	0.36	1.18	0.89	1.30	2.92	6.68	\$1.13	1.52	—	—	8.82	0.35	5.20	1.16
1974	—	—	—	0.60	2.17	1.54	2.36	3.99	1.56	\$2.03	2.44	—	—	1.33	0.58	9.11	1.73
1975	—	—	—	0.75	2.34	2.01	2.82	4.49	1.82	\$2.58	2.80	—	—	1.80	0.79	8.24	2.83
1976	—	—	—	0.89	2.47	2.12	2.79	4.83	1.65	\$2.89	2.98	—	—	1.84	0.95	8.81	2.92
1977	—	1.34	1.34	1.14	2.85	2.46	3.03	5.04	1.81	\$3.19	3.11	—	—	2.06	1.18	7.23	2.65
1978	—	1.69	1.69	1.07	2.66	2.66	3.85	5.92	1.72	\$3.30	3.28	—	—	2.07	1.31	7.82	2.69
1979	—	1.70	1.70	1.24	4.20	3.99	3.99	7.06	2.58	\$4.43	4.33	—	—	2.71	1.69	8.64	3.27
1980	—	1.26	1.26	1.68	8.02	8.34	5.30	8.98	3.31	\$6.40	5.98	—	—	3.78	2.46	11.48	4.60
1981	—	1.97	1.97	2.28	7.69	7.47	5.04	11.03	4.16	\$6.43	7.07	—	—	4.59	2.51	14.07	5.61
1982	—	2.20	2.20	3.23	7.07	7.09	6.27	10.25	3.85	\$7.56	8.88	—	—	5.19	3.02	15.48	6.49
1983	—	2.24	2.24	3.35	\$6.62	\$6.25	6.80	9.93	3.77	\$7.25	\$6.67	—	—	\$5.04	2.96	15.86	\$6.37
1984	—	2.21	2.21	3.29	\$6.52	\$6.07	6.77	8.99	3.68	\$7.34	\$6.62	—	—	\$4.66	2.84	16.50	\$6.36
1985	—	2.14	2.14	3.89	\$6.26	6.70	5.82	9.36	3.68	\$7.20	\$6.48	0.86	—	\$4.80	2.86	18.23	\$6.46
1986	—	1.80	1.80	2.15	\$5.11	6.67	5.58	7.04	1.39	\$4.48	\$4.69	1.04	—	\$3.35	1.87	17.40	\$5.90
1987	—	1.68	1.68	2.00	\$5.60	3.90	6.95	7.14	2.55	\$5.01	\$5.32	0.97	—	\$3.43	1.48	17.33	\$5.23
1988	—	1.57	1.57	2.14	\$6.36	3.81	6.77	7.26	2.55	\$5.41	\$5.09	0.82	—	\$3.38	1.44	17.30	\$5.21
1989	—	1.62	1.62	2.12	\$5.10	4.12	6.46	7.90	2.52	\$5.16	\$5.45	0.90	—	3.49	1.51	17.64	5.26
1990	—	1.68	1.68	2.11	\$6.46	6.79	7.82	8.47	2.19	\$5.14	\$5.76	0.88	1.42	\$3.98	1.89	17.77	\$5.32
1991	—	1.65	1.65	1.89	\$6.94	4.67	7.83	9.81	2.84	\$5.64	6.42	0.84	1.83	\$3.73	1.40	17.58	\$5.63
1992	—	1.54	1.54	2.09	\$6.85	4.29	4.28	9.23	1.90	\$5.27	6.49	0.81	1.83	\$3.48	1.52	17.81	\$5.27
1993	—	1.58	1.58	2.50	\$6.82	4.02	4.33	\$9.14	1.88	\$4.68	\$5.41	0.69	1.47	\$3.55	1.63	18.58	\$5.46
1994	—	1.55	1.55	2.32	6.62	3.77	4.93	9.04	1.87	4.76	5.45	0.70	1.45	3.52	1.59	18.00	5.36
Expenditures in Million Nominal Dollars																	
1970	—	—	—	378.4	68.1	22.4	188.3	823.4	31.1	\$125.8	864.8	—	—	1,341.4	-72.8	435.9	1,704.4
1971	—	—	—	410.7	72.6	24.7	200.6	835.9	24.5	\$191.4	1,049.7	—	—	1,489.4	-86.8	477.6	1,949.2
1972	—	—	—	508.6	97.9	24.3	237.8	858.2	32.7	\$209.0	1,189.9	—	—	1,688.7	-111.0	548.4	2,106.1
1973	—	—	—	602.6	136.6	26.2	291.4	639.7	80.2	\$289.7	1,429.8	—	—	2,032.4	-151.9	831.4	2,512.0
1974	—	—	—	909.9	241.5	67.6	509.4	867.7	256.8	\$480.0	2,431.2	—	—	3,341.1	-243.9	788.1	3,886.2
1975	—	—	—	1,036.2	288.9	87.9	491.4	1,095.8	380.6	\$688.4	2,786.4	—	—	3,741.5	-383.4	718.4	4,146.8
1976	—	—	—	1,261.3	302.9	80.4	549.2	1,174.7	377.2	\$771.2	3,234.7	—	—	4,486.9	-447.3	829.3	4,877.9
1977	—	2.4	2.4	1,684.8	432.2	74.8	591.5	1,278.1	574.4	\$897.3	3,948.2	—	—	5,815.2	-801.5	1,019.9	6,033.6
1978	—	6.3	6.3	1,878.7	467.0	89.0	720.8	1,399.2	540.5	\$1,094.6	4,301.1	—	—	5,880.1	-717.3	1,188.1	6,463.9
1979	—	4.3	4.3	1,984.5	748.7	162.9	913.8	1,824.8	918.0	\$1,655.8	5,173.9	—	—	6,142.7	-664.2	1,416.8	6,895.2
1980	—	3.1	3.1	2,396.3	752.1	306.8	1,092.5	2,488.2	1,255.9	\$2,410.8	6,196.5	—	—	10,395.9	-1,078.1	1,898.8	11,416.4
1981	—	48.8	48.8	3,270.7	1,693.2	328.6	1,347.8	2,835.1	1,408.1	\$2,187.2	9,799.1	—	—	13,118.7	-1,346.0	2,655.7	14,428.3
1982	—	141.1	141.1	3,483.0	1,259.0	325.0	1,378.4	2,713.8	1,112.8	\$1,585.1	8,981.8	—	—	12,605.9	-1,378.1	2,889.7	14,117.5
1983	—	238.7	238.7	3,889.5	\$1,180.6	\$383.7	2,110.1	2,394.3	940.9	\$1,252.8	\$6,182.2	—	—	\$11,770.5	-1,226.1	2,859.4	\$13,403.7
1984	—	282.6	282.6	3,799.7	\$1,190.3	\$433.0	1,536.4	2,375.9	702.0	\$1,197.9	\$7,437.4	—	—	\$11,498.9	-1,214.1	3,323.1	\$13,608.6
1985	—	340.8	340.8	3,882.5	\$1,225.8	410.6	1,288.9	2,434.2	548.8	\$1,808.8	\$7,010.0	22.9	—	\$10,525.4	-1,188.2	3,884.5	\$13,821.7
1986	—	308.6	308.6	2,249.7	\$1,040.5	349.3	1,249.6	1,847.2	228.6	\$948.6	\$6,682.8	119.4	—	\$8,580.5	-942.4	3,408.8	\$10,827.0
1987	—	286.7	286.7	2,096.4	\$1,193.6	418.1	1,138.5	1,804.3	377.3	\$1,045.2	\$6,973.8	128.5	—	\$8,484.3	-811.9	3,379.5	\$11,052.0
1988	—	332.9	332.9	2,203.4	\$1,219.0	436.5	1,106.1	1,882.1	416.0	\$984.7	\$6,996.4	135.7	—	\$8,870.4	-888.9	3,430.5	\$11,214.0
1989	—	335.6	335.6	2,440.3	\$1,315.9	518.2	1,012.0	1,944.6	406.6	\$1,103.5	\$8,300.9	119.8	—	\$8,186.5	-881.3	3,804.0	\$11,919.2
1990	—	361.2	361.2	\$2,468.4	\$1,703.2	845.1	1,343.2	2,174.1	982.9	\$1,442.3	\$7,910.8	133.8	48.9	\$10,808.9	-831.6	3,738.8	\$13,816.8
1991	—	353.9	353.9	2,307.6	\$1,408.6	848.7	1,468.7	2,148.7	457.3	\$1,057.9	\$7,427.2	125.4	82.5	\$10,186.6	-889.3	3,764.5	\$13,051.8
1992	—	344.6	344.6	2,439.5	\$1,268.3	853.1	840.8	2,189.1	354.4	\$1,090.7	\$6,388.1	89.2	63.6	\$9,313.1	-903.4	3,823.6	\$12,233.3
1993	—	354.0	354.0	\$2,370.2	\$1,398.9	571.2	\$968.6	\$2,210.8	\$372.8	\$908.8	\$6,371.6	105.5	53.9	\$9,855.1	-1,058.1	4,127.9	\$12,825.0
1994	—	357.4	357.4	2,699.9	1,494.3	686.3	1,210.1	2,168.1	288.8	1,000.6	6,850.2	98.1	55.6	10,258.2	-1,041.2	4,103.3	13,320.3

^a Liquefied petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used as electric utility), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 120. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Louisiana

Year	Primary Energy							Electricity	Total Energy ^c	
	Coal	Natural Gas	Petroleum			Nuclear ^b	Total ^a			
			Distillate Fuel	Kerosene	LPG ^a					Total
Prices in Nominal Dollars per Million Btu										
1970	—	0.75	0.95	1.00	2.28	2.99	—	0.99	6.88	2.29
1971	—	0.69	1.06	1.89	2.00	2.00	—	0.85	6.65	2.41
1972	—	0.80	1.07	1.75	2.42	2.41	—	1.05	6.73	2.73
1973	—	0.95	1.24	2.02	3.94	3.99	—	1.24	6.93	2.86
1974	—	1.09	2.12	3.25	5.49	5.44	—	1.50	7.90	3.33
1975	—	1.33	2.39	3.46	4.98	4.98	—	1.85	7.98	3.81
1976	—	1.62	2.54	3.78	6.04	5.97	—	1.83	8.43	3.72
1977	—	1.81	2.62	4.41	4.73	4.69	—	2.12	9.00	4.29
1978	—	2.37	2.96	4.94	4.66	4.62	—	2.53	9.51	5.07
1979	—	2.82	4.61	5.61	5.95	5.91	—	2.79	10.66	5.60
1980	2.97	3.20	6.85	—	8.59	8.92	—	3.96	13.41	7.84
1981	—	4.01	—	12.89	8.03	8.17	—	4.21	17.03	9.38
1982	3.30	5.86	7.81	12.02	8.55	9.59	—	5.32	18.47	11.20
1983	—	5.86	4.25	10.67	8.43	9.56	—	6.08	18.22	11.43
1984	3.27	6.72	7.09	10.42	8.90	9.88	—	5.93	18.87	12.38
1985	—	6.47	3.39	4.77	7.88	7.84	—	6.58	20.27	13.84
1986	2.89	6.66	5.08	7.44	8.99	8.90	—	5.79	20.75	13.52
1987	—	6.35	5.09	7.37	8.13	8.16	—	5.66	21.05	13.34
1988	2.62	5.51	6.69	9.85	8.26	9.26	—	5.72	20.89	13.47
1989	—	5.72	5.82	8.29	10.44	10.27	—	5.98	21.50	14.10
1990	—	5.85	6.46	9.59	11.49	11.29	4.53	4.53	21.79	14.98
1991	2.81	5.51	5.94	8.75	12.86	12.75	3.53	3.53	21.68	13.74
1992	—	5.36	6.91	12.09	11.68	11.69	3.53	3.53	22.02	13.68
1993	2.79	5.86	7.73	11.38	11.89	11.87	3.53	3.53	22.75	14.57
1994	—	6.01	5.18	7.62	13.34	13.04	3.53	3.53	22.90	14.68
Expenditures in Million Nominal Dollars										
1970	—	68.7	(a)	8.2	22.8	22.8	—	88.4	299.6	299.1
1971	—	56.8	(a)	0.1	22.8	22.1	—	78.9	299.6	309.5
1972	—	75.4	(a)	0.1	27.6	27.7	—	103.5	297.6	371.1
1973	—	90.4	0.1	0.4	40.5	40.9	—	131.4	290.9	422.3
1974	—	102.9	0.1	0.4	51.9	52.5	—	155.3	326.9	482.3
1975	—	131.4	0.1	0.4	34.9	34.6	—	166.2	322.8	498.0
1976	—	150.0	0.2	0.3	49.5	44.1	—	194.0	368.9	562.9
1977	—	186.2	0.4	0.7	37.4	36.5	—	224.8	438.2	662.9
1978	—	202.5	0.4	0.6	28.9	31.1	—	233.5	501.3	734.9
1979	—	237.9	1.1	1.2	27.9	36.2	—	269.1	564.8	832.8
1980	0.1	268.7	4.2	—	26.9	26.2	—	295.9	792.9	1,477.9
1981	—	337.9	—	1.8	33.5	35.4	—	373.4	1,022.8	1,964.0
1982	0.1	364.7	3.7	5.2	28.5	38.4	—	403.2	1,133.5	1,536.7
1983	—	416.1	0.1	5.5	34.7	42.3	—	458.3	1,078.8	1,537.1
1984	0.3	414.1	0.1	8.7	38.9	39.7	—	454.1	1,308.1	1,762.2
1985	—	444.3	0.2	6.5	27.3	26.4	—	472.3	1,395.8	1,787.3
1986	(a)	335.6	0.3	0.7	34.7	35.6	—	371.3	1,434.7	1,808.0
1987	—	341.3	0.1	0.4	39.8	34.3	—	379.5	1,435.7	1,811.3
1988	(a)	342.7	0.1	0.8	32.6	33.4	—	371.1	1,436.0	1,811.1
1989	—	344.5	0.3	1.5	34.9	35.5	—	381.0	1,505.0	1,886.0
1990	—	328.2	0.4	0.7	32.1	33.1	411.6	411.6	1,847.0	1,956.9
1991	(a)	318.0	0.1	0.7	38.4	39.1	12.2	12.2	1,982.4	1,982.4
1992	—	309.2	(a)	0.7	44.6	45.4	12.9	12.9	1,992.0	1,988.8
1993	(a)	344.7	(a)	0.5	30.5	31.0	11.2	11.2	1,987.0	2,128.0
1994	—	330.6	0.4	0.2	33.1	33.7	11.0	11.0	1,721.5	2,097.2

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-recycled utility use of biomass beginning in 1990.

R=Revised data.

—No consumption.

(a)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 121. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Louisiana

Year	Primary Energy								Electricity	Total Energy ^a
	Coal	Natural Gas	Petroleum					Total		
			Distillate Fuel	Kerosene	LPG ^b	Motor Gasoline	Residual Fuel			
Prices in Nominal Dollars per Million Btu										
1970	—	0.37	0.89	0.59	1.06	2.86	0.60	1.84	0.68	1.82
1971	—	0.40	0.97	0.63	1.06	2.94	0.62	1.14	0.51	1.79
1972	—	0.45	0.87	0.69	1.07	2.79	0.68	1.15	0.56	1.94
1973	—	0.50	1.14	0.75	1.19	2.89	0.70	1.13	0.60	2.23
1974	—	0.69	1.99	1.72	2.21	3.99	1.63	2.09	1.01	2.78
1975	—	0.77	2.14	2.91	2.44	4.49	1.76	2.19	1.25	3.89
1976	—	1.06	2.42	2.90	2.67	4.83	1.70	2.32	1.59	3.60
1977	—	1.35	2.71	2.54	2.89	5.84	1.80	2.49	1.94	3.77
1978	—	1.99	2.65	2.36	3.92	6.32	1.78	2.61	1.85	3.70
1979	—	2.20	4.41	3.79	3.85	7.06	2.74	3.50	2.70	3.97
1980	1.34	2.80	6.38	5.59	5.29	8.39	3.55	3.77	3.49	5.54
1981	—	3.67	7.88	7.27	4.99	11.09	4.39	4.89	4.54	6.26
1982	1.63	4.70	7.29	7.51	6.94	10.25	3.90	4.09	4.24	6.99
1983	—	5.49	^R 4.07	6.86	6.57	9.03	3.40	^R 5.39	^R 5.43	^R 10.11
1984	1.63	5.33	^R 6.14	7.85	6.73	8.80	4.59	^R 6.00	^R 5.59	^R 11.83
1985	—	6.89	^R 6.13	^R 7.49	5.98	8.39	4.12	^R 6.99	^R 6.52	^R 12.71
1986	1.63	5.05	^R 3.59	^R 4.50	5.62	7.04	2.14	^R 3.73	^R 4.41	^R 11.86
1987	—	4.79	^R 4.04	^R 5.25	5.79	7.14	2.67	^R 4.25	^R 4.60	^R 12.76
1988	1.88	4.94	^R 3.83	^R 4.67	5.79	7.25	1.91	^R 3.99	^R 4.67	^R 13.23
1989	—	4.88	^R 4.15	^R 5.33	5.36	7.80	2.29	^R 4.43	^R 4.85	^R 14.02
1990	—	5.64	^R 5.47	^R 7.99	7.79	8.47	2.62	^R 6.39	^R 6.39	^R 14.78
1991	1.73	4.86	^R 4.77	^R 6.16	7.76	8.51	2.03	^R 5.33	^R 4.67	^R 14.43
1992	—	4.89	^R 4.43	^R 5.47	4.14	8.23	2.02	^R 5.60	^R 4.73	^R 14.55
1993	1.68	5.15	^R 4.30	^R 5.72	4.23	^R 9.14	1.92	^R 4.51	^R 5.03	^R 15.63
1994	—	5.22	3.98	5.19	6.29	8.04	—	4.51	5.09	15.65
Expenditures in Million Nominal Dollars										
1970	—	98.6	4.3	1.5	1.9	5.7	1.8	15.0	41.8	187.4
1971	—	27.7	4.2	0.6	2.1	5.9	1.6	14.6	42.2	203.1
1972	—	30.6	5.8	0.9	2.1	6.0	2.1	17.0	47.6	227.9
1973	—	30.4	8.2	2.9	2.1	6.9	4.6	24.8	55.0	270.0
1974	—	34.9	18.9	5.3	2.7	9.4	14.9	50.1	85.0	341.3
1975	—	40.6	18.2	6.2	3.3	11.8	29.3	69.6	98.5	418.8
1976	—	47.9	32.2	4.6	3.4	12.6	23.6	76.4	124.2	392.1
1977	—	62.2	56.8	3.6	4.1	13.6	40.9	124.2	166.4	507.5
1978	—	94.1	56.0	9.1	4.2	15.0	37.1	121.4	215.5	589.7
1979	—	263.9	149.9	14.6	3.3	20.1	152.9	338.9	602.8	1,025.2
1980	6.1	167.7	14.8	17.2	3.9	6.7	366.8	345.4	483.2	991.9
1981	—	148.9	23.7	104.3	3.7	10.9	423.6	585.5	711.4	1,395.3
1982	0.1	166.2	14.7	14.1	3.4	9.9	407.8	449.9	614.2	1,360.3
1983	—	198.5	^R 74.8	3.1	4.3	11.1	26.0	^R 119.9	^R 518.3	^R 1,078.7
1984	0.2	193.4	^R 74.3	0.9	3.9	9.6	23.9	^R 120.7	^R 504.4	^R 1,293.4
1985	—	199.7	^R 133.6	^R 2.8	3.2	11.6	14.9	^R 166.0	^R 325.7	^R 1,498.3
1986	(a)	149.9	^R 84.3	^R 0.5	3.9	8.6	3.1	^R 100.6	^R 247.5	^R 1,334.3
1987	—	139.4	^R 44.3	^R 0.6	3.3	9.3	4.5	^R 62.5	^R 208.9	^R 1,263.6
1988	(b)	141.2	^R 27.4	^R 2.8	3.5	9.0	2.6	^R 45.5	^R 186.7	^R 1,275.5
1989	—	140.9	^R 20.5	1.1	3.1	9.2	3.6	^R 37.5	^R 178.5	^R 1,308.3
1990	—	^R 139.8	^R 34.7	^R 8.8	3.6	18.7	8.7	^R 65.8	^R 166.7	^R 1,348.8
1991	(b)	^R 124.7	^R 25.0	0.8	4.1	12.9	1.5	^R 44.2	^R 188.9	^R 1,314.6
1992	—	138.3	^R 15.6	0.3	2.8	11.9	0.1	^R 30.7	^R 167.0	^R 1,329.6
1993	(a)	134.1	^R 21.7	0.8	1.9	2.6	(a)	^R 29.4	^R 180.5	^R 1,369.4
1994	—	131.1	29.1	0.4	3.6	1.9	—	26.0	167.1	1,416.1

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.^R Revised data.

— No consumption.

(a) Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 122. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Louisiana

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Biomass ^d	Total ^c		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	—	—	0.23	0.86	0.51	0.59	1.09	5.98	2.86	0.48	0.70	0.97	—	0.42	2.48	0.48
1971	—	—	—	0.28	0.71	0.55	0.63	1.06	5.27	2.84	0.67	0.84	0.98	—	0.47	2.52	0.53
1972	—	—	—	0.32	0.64	0.65	0.63	1.07	5.58	2.73	0.62	0.83	0.98	—	0.52	2.60	0.58
1973	—	—	—	0.37	0.69	0.65	0.75	1.18	5.33	2.92	0.73	0.94	1.09	—	0.60	2.64	0.67
1974	—	—	—	0.62	0.77	1.48	1.72	2.21	7.22	3.99	1.82	1.91	2.04	—	1.07	3.98	1.16
1975	—	—	—	0.74	1.76	1.81	2.01	2.44	7.48	4.49	1.72	2.48	2.41	—	1.32	3.99	1.48
1976	—	—	—	0.91	1.79	2.07	2.38	2.67	7.05	4.83	1.75	2.78	2.66	—	1.58	4.16	1.67
1977	—	1.34	1.34	1.14	1.97	2.18	2.64	2.98	6.97	5.04	1.98	3.12	2.93	—	1.82	4.82	1.92
1978	—	1.89	1.89	0.92	2.19	2.02	2.36	3.62	7.80	5.32	1.74	3.23	3.18	—	1.75	5.54	1.88
1979	—	1.70	1.70	0.89	2.58	3.37	3.73	3.95	10.21	7.08	2.53	4.32	3.84	—	2.20	6.75	2.37
1980	—	1.34	1.34	1.34	3.62	4.89	5.53	5.22	14.38	9.88	3.68	6.28	5.88	—	2.67	9.02	3.30
1981	—	1.66	1.66	1.61	3.94	6.48	7.27	4.99	18.00	11.03	4.68	8.49	6.34	—	3.73	11.68	4.12
1982	—	1.63	1.63	3.02	3.55	6.54	7.51	6.24	17.25	10.25	4.38	7.40	6.48	—	4.84	13.16	5.33
1983	—	1.63	1.63	3.01	4.17	6.34	6.86	6.57	16.99	9.03	4.40	6.83	6.31	—	4.72	13.54	5.22
1984	—	1.53	1.53	3.06	4.15	6.41	7.85	6.73	17.63	9.99	4.86	6.68	6.50	—	4.43	12.67	4.94
1985	—	1.46	1.46	2.92	4.17	6.89	7.46	8.08	17.61	9.38	4.72	6.87	6.89	—	4.11	14.33	4.79
1986	—	1.83	1.83	1.84	4.57	6.67	6.50	5.62	15.59	7.04	2.14	6.32	6.73	—	3.06	12.63	4.60
1987	—	2.03	2.03	1.73	3.16	6.29	5.25	5.79	12.70	7.14	2.87	4.63	5.08	—	3.10	12.30	4.32
1988	—	1.95	1.95	1.91	3.14	6.91	6.67	5.70	14.61	7.25	1.91	6.67	6.66	—	3.06	12.26	4.30
1989	—	1.55	1.55	1.89	2.89	6.51	6.53	5.36	14.48	7.90	2.29	4.71	6.02	—	3.02	12.48	3.68
1990	—	1.58	1.58	1.82	2.91	6.76	7.08	7.76	14.69	8.47	2.82	5.90	6.84	1.18	3.57	12.27	4.97
1991	—	1.73	1.73	1.86	3.09	6.93	8.16	7.75	16.79	9.51	2.03	6.48	6.23	1.30	3.24	12.15	4.77
1992	—	1.68	1.68	1.85	2.17	6.79	5.67	4.14	19.43	9.23	2.02	6.71	6.65	1.30	2.81	12.38	4.40
1993	—	1.66	1.66	2.22	2.30	6.67	6.72	4.23	18.94	9.14	1.92	6.32	6.54	1.28	2.96	13.01	4.60
1994	—	1.74	1.74	2.09	2.40	6.41	5.40	4.84	19.18	9.04	2.07	6.08	6.70	1.27	3.01	12.38	4.56
Expenditures in Million Nominal Dollars																	
1970	—	—	—	240.8	9.7	12.4	6.8	173.3	32.4	4.5	2.5	56.6	286.4	—	905.2	80.5	985.8
1971	—	—	—	239.1	10.7	12.9	6.0	175.0	28.5	4.1	2.7	123.5	353.4	—	902.5	87.1	989.6
1972	—	—	—	297.3	8.8	15.1	8.5	208.4	32.3	3.6	2.6	135.8	412.1	—	709.4	100.5	809.9
1973	—	—	—	363.8	11.4	21.0	11.2	247.3	40.8	3.4	2.1	171.8	509.1	—	872.6	125.5	998.1
1974	—	—	—	620.2	16.7	37.9	22.4	460.2	53.0	4.4	29.2	354.3	988.1	—	1,589.3	175.6	1,764.1
1975	—	—	—	634.6	33.3	49.8	22.0	441.2	69.8	4.1	23.8	436.5	1,081.6	—	1,708.1	194.6	1,902.7
1976	—	—	—	759.9	28.9	74.5	25.5	467.8	61.7	3.7	30.8	622.4	1,349.0	—	2,101.9	202.5	2,304.4
1977	—	2.4	2.4	1,081.1	28.3	131.2	33.6	545.7	54.0	3.5	48.3	636.8	1,580.4	—	2,769.9	260.5	3,030.4
1978	—	6.3	6.3	946.3	36.5	130.0	34.2	680.4	63.2	2.9	34.1	908.3	1,691.6	—	2,844.2	329.5	3,173.7
1979	—	4.3	4.3	844.9	46.4	204.0	62.1	874.5	88.9	3.0	168.3	1,345.3	2,810.5	—	3,659.7	429.4	4,089.1
1980	—	2.9	2.9	1,156.2	46.8	210.9	161.9	969.8	111.3	3.2	296.8	1,998.3	3,718.8	—	4,964.0	573.8	5,442.5
1981	—	9.8	9.8	1,614.9	69.9	543.9	177.5	1,306.9	133.8	5.1	338.2	1,603.5	4,178.8	—	6,801.4	949.9	7,751.4
1982	—	11.9	11.9	1,748.8	69.9	569.0	227.7	1,937.8	116.9	42.3	263.9	1,071.3	4,298.8	—	6,059.6	1,021.9	7,081.4
1983	—	11.6	11.6	1,772.3	72.3	634.9	39.5	2,064.2	120.6	24.8	459.4	931.9	4,054.8	—	6,838.6	1,020.1	7,858.8
1984	—	13.4	13.4	2,244.6	55.9	639.7	41.1	1,482.1	133.5	16.3	315.4	885.1	3,258.9	—	6,516.8	1,025.8	7,542.7
1985	—	15.8	15.8	1,831.1	90.8	638.2	6.4	1,281.4	124.2	23.9	199.8	847.3	2,811.9	—	6,980.9	1,126.7	8,107.6
1986	—	11.5	11.5	1,248.4	64.3	625.1	6.4	1,208.1	107.5	14.6	18.6	771.3	2,376.2	—	6,836.1	887.1	7,723.2
1987	—	17.6	17.6	1,203.7	47.5	684.8	6.2	1,086.5	99.1	14.0	27.3	635.4	2,458.1	—	6,679.4	880.9	7,560.3
1988	—	19.5	19.5	1,282.6	46.9	612.1	6.6	1,067.2	109.9	13.1	25.9	731.2	2,313.0	—	6,625.3	906.5	7,531.8
1989	—	22.0	22.0	1,519.5	44.4	612.5	6.2	972.7	111.7	12.1	13.9	879.9	2,344.4	—	6,865.9	969.0	7,834.9
1990	—	24.6	24.6	1,544.3	32.3	662.8	1.8	1,386.2	115.0	16.7	13.6	1,220.3	3,189.5	36.3	6,763.8	992.3	7,755.3
1991	—	17.8	17.8	1,382.2	30.9	675.6	1.8	1,423.6	119.3	17.6	7.7	873.3	2,849.7	40.3	6,270.0	1,012.5	7,282.5
1992	—	19.7	19.7	1,507.9	24.3	617.5	0.9	792.1	140.7	10.7	5.7	840.7	2,138.5	40.7	6,705.9	1,096.6	7,802.5
1993	—	18.1	18.1	1,884.4	28.4	633.1	0.9	833.2	139.6	31.6	2.8	740.7	2,109.9	42.6	6,555.1	1,147.9	7,703.0
1994	—	19.9	19.9	1,838.0	26.8	647.0	1.0	1,170.0	147.8	37.6	2.3	738.1	2,468.7	44.6	6,388.1	1,122.3	7,510.4

^a Liquefied petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990

R- Revised data

— No consumption, including cases where adjustments were made See explanation of adjustments in Section 7 of Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 123. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1984, Louisiana

Year	Primary Energy											Electricity	Total Energy
	Coal	Natural Gas	Petroleum								Total		
			Aviation Gasoline	Oilfield Fuel	Jet Fuel	LP Gas	Lubricants	Motor Gasoline	Residual Fuel				
										Total			
Prices in Nominal Dollars per Million Btu													
1970	—	—	2.17	1.06	0.72	1.06	6.06	2.86	0.44	1.87	1.97	5.07	1.87
1971	—	—	2.21	1.16	0.75	1.06	5.27	2.64	0.47	2.07	2.07	5.12	2.06
1972	—	—	2.19	1.18	0.73	1.07	5.56	2.73	0.50	2.09	2.09	5.19	2.09
1973	—	—	2.06	1.42	0.89	1.16	5.83	2.92	0.53	2.08	2.08	5.63	2.08
1974	—	—	3.23	2.40	1.54	2.01	7.22	3.99	1.45	3.94	2.84	6.82	2.84
1975	—	—	3.45	2.54	2.01	2.44	7.48	4.49	1.54	3.29	3.29	6.94	3.29
1976	—	—	3.59	2.67	2.12	2.67	7.06	4.83	1.50	3.51	3.51	7.84	3.51
1977	1.34	—	3.87	3.00	2.49	2.98	6.97	5.04	1.69	3.88	3.88	8.39	3.88
1978	—	—	4.29	3.09	2.88	3.82	7.80	5.32	1.59	3.91	3.91	8.93	3.91
1979	—	—	5.73	4.79	3.96	3.94	10.21	7.08	2.41	5.27	5.27	10.05	5.27
1980	—	—	9.02	6.84	4.34	5.22	14.36	9.38	3.88	6.87	6.87	12.08	6.87
1981	—	—	10.84	8.80	7.47	6.24	18.00	11.03	3.78	6.42	6.42	14.62	6.42
1982	—	—	10.82	7.61	7.09	6.24	17.25	10.25	3.53	6.06	6.06	15.36	6.06
1983	—	—	10.44	6.86	6.25	6.57	16.99	9.03	3.90	7.14	7.14	16.83	7.14
1984	—	—	10.27	6.61	6.07	6.73	17.63	8.99	3.40	7.13	7.13	18.10	7.13
1985	—	—	8.96	6.28	5.78	6.06	17.21	8.46	3.40	7.16	7.16	20.24	7.16
1986	—	—	8.41	6.35	5.67	5.82	16.88	7.04	1.34	5.99	6.08	19.24	5.98
1987	—	—	7.55	6.56	5.90	6.79	12.70	7.14	2.64	5.50	5.50	17.55	5.50
1988	—	—	7.41	6.40	5.91	6.79	14.61	7.26	2.61	5.43	5.43	18.24	5.43
1989	—	—	6.28	6.87	4.12	5.87	14.48	7.90	2.53	6.31	6.31	17.90	6.31
1990	—	—	6.28	6.87	4.12	5.87	14.48	7.90	2.53	6.31	6.31	20.18	6.31
1991	—	—	3.40	6.48	4.67	7.75	16.79	9.51	2.87	6.53	6.53	18.62	6.53
1992	—	—	4.12	6.14	4.29	4.14	19.43	9.23	1.90	6.08	6.08	18.90	6.08
1993	—	—	8.24	6.18	4.02	4.23	18.94	9.19	1.87	6.14	6.14	20.81	6.14
1994	—	—	2.27	7.95	3.77	8.04	19.18	9.04	1.87	6.03	6.03	20.01	6.03

Expenditures in Million Nominal Dollars

Year	Coal	Natural Gas	Aviation Gasoline	Oilfield Fuel	Jet Fuel	LP Gas	Lubricants	Motor Gasoline	Residual Fuel	Total	Total	Electricity	Total Energy
1970	—	—	4.8	42.1	23.4	1.4	16.8	613.2	26.8	636.2	636.2	6.07	636.2
1971	—	—	5.1	55.3	24.7	1.6	16.7	625.9	16.7	642.6	642.6	6.11	642.6
1972	—	—	4.8	75.9	24.3	1.6	16.9	646.6	20.1	666.7	666.7	6.11	666.7
1973	—	—	4.4	109.6	29.2	1.6	18.8	670.5	40.1	710.6	710.6	6.11	710.6
1974	—	—	6.0	165.0	67.9	2.6	21.9	853.9	131.3	985.2	985.2	6.11	985.2
1975	—	—	5.1	200.6	67.9	2.6	23.8	903.8	163.2	1,067.0	1,067.0	6.11	1,067.0
1976	—	—	4.7	164.8	60.4	2.8	26.0	1,168.5	181.3	1,349.8	1,349.8	6.11	1,349.8
1977	(a)	—	5.0	246.8	60.4	4.9	30.5	1,261.0	220.0	1,481.0	1,481.0	6.11	1,481.0
1978	—	—	4.6	288.7	69.0	6.4	35.7	1,361.2	195.8	1,557.0	1,557.0	6.11	1,557.0
1979	—	—	7.0	380.0	162.3	8.1	32.5	1,901.7	325.1	2,226.8	2,226.8	6.11	2,226.8
1980	—	—	11.8	494.3	308.8	12.0	62.8	2,437.3	508.5	3,945.8	3,945.8	6.11	3,945.8
1981	—	—	20.7	1,074.2	328.8	13.8	66.9	2,616.7	563.6	3,180.3	3,180.3	6.11	3,180.3
1982	—	—	14.0	867.3	325.0	5.6	65.9	2,861.6	409.4	3,271.0	3,271.0	6.11	3,271.0
1983	—	—	11.8	731.4	383.7	7.0	58.0	2,358.2	348.0	2,706.2	2,706.2	6.11	2,706.2
1984	—	—	9.7	771.3	423.0	8.5	75.3	2,358.7	353.9	2,712.6	2,712.6	6.11	2,712.6
1985	—	—	8.6	746.4	410.8	2.0	70.9	2,306.8	304.9	2,611.7	2,611.7	6.11	2,611.7
1986	—	—	7.0	689.4	389.3	1.9	60.8	1,823.0	201.1	2,024.1	2,024.1	6.11	2,024.1
1987	—	—	5.0	813.1	415.1	1.9	55.8	1,790.8	344.7	2,135.5	2,135.5	6.11	2,135.5
1988	—	—	4.5	671.6	435.5	1.7	62.0	1,853.8	380.1	2,233.9	2,233.9	6.11	2,233.9
1989	—	—	4.6	574.0	518.2	1.4	63.0	1,923.3	364.0	2,287.3	2,287.3	6.11	2,287.3
1990	—	—	5.1	1,210.7	583.1	2.1	68.3	2,441.7	447.7	2,889.4	2,889.4	6.11	2,889.4
1991	—	—	4.1	1,004.0	488.7	2.1	67.2	2,116.0	448.4	2,564.4	2,564.4	6.11	2,564.4
1992	—	—	3.6	823.3	653.1	1.0	79.3	2,160.5	448.4	2,608.9	2,608.9	6.11	2,608.9
1993	—	—	8.1	1,040.2	571.2	1.0	78.7	2,177.2	317.0	2,494.2	2,494.2	6.11	2,494.2
1994	—	—	5.3	1,124.5	688.3	2.3	63.3	2,126.4	282.2	2,408.6	2,408.6	6.11	2,408.6

^a Unpublished petroleum prices
 Rebased data
 —No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(b) Value less than 0.05 million nominal dollars
 Note: Expenditure totals may not equal sum of components due to independent rounding
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 124. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Louisiana

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	—	0.21	0.55	0.60	—	0.57	—	—	0.21
1971	—	0.23	0.57	0.63	—	0.59	—	—	0.24
1972	—	0.25	0.77	0.67	—	0.78	—	—	0.27
1973	—	0.31	0.69	1.45	—	0.70	—	—	0.35
1974	—	0.42	1.84	3.22	—	1.85	—	—	0.58
1975	—	0.84	1.75	1.92	—	1.76	—	—	0.73
1976	—	0.78	1.73	2.37	—	1.73	—	—	0.95
1977	—	0.91	1.90	2.42	—	1.89	—	—	1.18
1978	—	1.11	1.82	2.53	—	1.82	—	—	1.31
1979	—	1.47	2.70	2.80	—	2.70	—	—	1.69
1980	—	2.01	3.58	4.37	—	3.68	—	—	2.19
1981	2.13	2.71	4.36	6.16	—	4.90	—	—	2.81
1982	2.27	3.09	3.91	6.31	—	4.44	—	—	3.02
1983	2.28	3.15	3.41	6.07	—	4.74	—	—	2.98
1984	2.26	3.04	3.52	5.91	—	4.71	—	—	2.84
1985	2.19	2.79	3.51	5.84	—	5.06	0.86	—	2.86
1986	1.79	1.85	1.46	3.20	—	1.83	1.04	—	1.67
1987	1.64	1.80	2.72	3.83	—	3.24	0.97	—	1.46
1988	1.58	1.63	2.98	4.42	—	3.35	0.92	—	1.44
1989	1.63	1.70	2.65	5.01	—	4.04	0.90	—	1.51
1990	1.29	1.66	2.47	5.61	—	4.45	0.86	—	1.49
1991	1.65	1.53	3.80	4.58	—	4.32	0.84	—	1.40
1992	1.64	1.83	2.16	4.31	(b)	0.57	0.81	—	1.52
1993	1.59	2.39	2.07	4.12	(b)	0.47	0.69	—	1.65
1994	1.54	2.07	1.83	4.06	(b)	0.78	0.70	—	1.59
Expenditures in Million Nominal Dollars									
1970	—	72.3	6.3	0.2	—	6.5	—	—	72.8
1971	—	87.2	1.4	0.2	—	1.7	—	—	88.8
1972	—	105.1	5.0	1.9	—	6.0	—	—	111.0
1973	—	117.9	38.4	0.7	—	34.0	—	—	161.9
1974	—	151.3	90.3	1.6	—	92.0	—	—	243.9
1975	—	236.5	68.9	1.0	—	83.8	—	—	386.4
1976	—	304.6	141.5	1.2	—	142.7	—	—	447.3
1977	—	335.1	286.2	1.2	—	288.4	—	—	601.5
1978	—	432.8	283.6	0.9	—	284.5	—	—	717.3
1979	—	617.8	245.7	0.7	—	246.4	—	—	864.2
1980	—	986.7	186.3	29.8	—	188.4	—	—	1,075.1
1981	37.0	1,172.0	85.5	51.4	—	136.9	—	—	1,346.0
1982	129.0	1,203.2	31.4	14.4	—	45.8	—	—	1,376.1
1983	227.1	979.7	6.9	12.3	—	19.3	—	—	1,226.1
1984	248.6	957.6	2.9	4.9	—	7.7	—	—	1,214.1
1985	294.2	815.3	1.3	4.8	—	6.8	22.9	—	1,188.2
1986	297.1	518.7	5.7	1.4	—	7.2	119.4	—	942.4
1987	269.1	412.0	0.8	1.6	—	2.3	128.5	—	811.9
1988	313.4	426.8	7.4	2.9	—	11.2	135.7	—	866.9
1989	313.5	425.3	4.0	3.7	—	12.7	119.8	—	861.3
1990	386.3	465.9	1.2	4.7	—	6.8	133.8	—	931.6
1991	336.0	405.8	0.3	1.9	—	2.3	125.4	—	868.3
1992	326.1	486.0	0.2	1.9	(b)	2.1	80.2	—	903.4
1993	336.8	808.9	8.2	1.7	(b)	9.9	105.5	—	1,056.7
1994	337.5	601.2	4.1	2.3	(b)	6.4	96.1	—	1,041.2

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^b Utilities used petroleum coke at no charge.

—No consumption.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 125. Energy Price and Expenditure Estimates by Source, 1970-1994, Maine

Year	Primary Energy													Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c	
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biomass				Total ^c
	Colony Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																	
1970	—	1.08	1.08	1.48	1.37	0.78	2.37	3.02	0.38	R1.53	1.46	—	—	1.45	4.35	5.32	1.85
1971	—	1.00	1.00	1.53	1.43	0.79	1.96	3.12	0.47	R1.62	1.38	—	—	1.37	4.30	5.64	1.80
1972	—	1.24	1.24	1.63	1.44	0.78	2.87	3.05	0.41	R1.69	1.33	0.24	—	1.33	4.39	6.45	1.80
1973	—	1.31	1.31	1.64	1.67	0.83	3.06	3.21	0.48	R1.71	1.48	0.27	—	1.36	4.33	6.65	1.86
1974	—	1.66	1.66	1.82	2.61	1.61	4.11	4.35	1.72	R2.70	2.70	0.30	—	2.37	4.62	6.29	3.25
1975	—	2.88	2.88	2.80	2.78	2.88	4.29	4.56	1.78	R3.88	3.88	0.32	—	2.84	4.71	5.79	3.77
1976	—	1.99	1.99	2.46	2.87	2.29	4.43	4.71	1.77	R3.10	3.07	0.20	—	2.40	4.44	5.25	3.67
1977	—	2.56	2.56	3.10	3.36	2.84	5.04	5.03	2.13	R3.40	3.44	0.30	—	2.80	4.63	10.13	4.26
1978	—	2.34	2.34	3.12	3.47	2.97	6.29	5.21	2.08	R3.72	3.61	0.32	—	2.89	4.60	10.45	4.38
1979	—	1.96	1.96	3.65	4.01	3.99	6.95	6.89	2.82	R5.39	4.93	0.36	—	4.10	4.93	12.46	6.90
1980	—	1.88	1.88	6.89	6.83	6.81	7.88	8.88	4.78	R7.34	7.88	0.68	—	6.70	1.88	14.39	8.44
1981	—	2.38	2.38	6.03	6.43	7.80	8.59	10.75	5.10	R9.12	8.08	0.67	—	6.34	2.03	18.65	9.74
1982	—	2.24	2.24	7.22	8.18	7.81	9.54	10.08	4.69	R8.36	7.22	0.68	—	5.95	1.81	18.74	8.84
1983	—	2.14	2.14	8.50	R7.98	R6.93	10.26	8.49	4.89	R7.87	R7.49	0.62	—	5.65	1.69	18.14	R9.41
1984	—	2.67	2.67	8.13	R8.94	R6.69	9.96	9.05	4.96	R6.94	R7.26	0.63	—	5.78	1.69	19.10	9.20
1985	—	2.58	2.58	7.41	R7.87	6.16	10.89	8.25	4.37	R6.85	R7.37	0.63	—	5.84	1.69	20.16	9.49
1986	—	2.27	2.27	7.06	R5.97	4.50	10.53	7.39	2.44	R6.77	R6.25	0.58	—	R4.20	1.11	19.46	R7.43
1987	—	2.48	2.48	6.46	R6.16	4.41	10.66	7.72	2.93	R6.72	R6.33	0.60	—	R4.84	1.80	19.10	R8.04
1988	—	2.43	2.43	5.84	R6.16	4.13	10.58	8.15	2.33	R6.19	R6.62	0.64	—	R4.76	1.27	19.62	R7.76
1989	—	2.66	2.66	5.79	R6.82	4.79	10.31	8.60	2.80	R6.14	R6.15	0.64	—	R4.84	1.21	20.63	R8.63
1990	—	2.72	2.72	6.88	7.87	6.89	13.84	9.74	3.88	R7.84	7.88	0.66	R1.27	R6.18	1.47	22.42	R9.32
1991	—	2.67	2.67	5.50	R7.53	5.07	14.45	9.64	2.33	R6.25	6.71	0.43	1.26	R4.71	0.73	25.21	R8.27
1992	—	2.67	2.67	5.43	R6.85	5.20	11.38	9.83	2.42	R6.01	6.57	0.39	1.37	R4.83	0.76	26.62	R9.12
1993	—	2.36	2.36	6.06	R6.82	4.43	12.58	R9.33	2.38	R6.20	R6.46	0.37	1.26	R4.59	0.80	26.68	R8.11
1994	—	2.28	2.28	6.27	6.71	4.16	10.78	9.41	2.41	7.48	8.35	0.39	1.26	4.50	0.67	28.25	8.12
Expenditures in Million Nominal Dollars																	
1970	—	2.3	2.3	1.9	94.2	8.4	5.7	174.8	27.5	R25.4	837.1	—	—	34.3	-18.8	162.3	483.1
1971	—	2.3	2.3	2.3	101.2	10.6	4.6	189.7	35.1	R27.6	397.7	—	—	39.2	-12.6	109.7	489.3
1972	—	1.7	1.7	2.5	109.4	10.1	9.3	193.9	56.0	R29.5	404.1	9.1	—	406.5	-13.7	129.3	523.1
1973	—	1.9	1.9	2.7	121.3	12.3	8.6	210.7	59.6	R29.9	430.6	9.7	—	453.8	-22.9	139.8	571.1
1974	—	3.3	3.3	3.0	182.9	18.8	12.2	283.1	163.4	R37.0	688.1	11.6	—	716.2	-53.5	179.5	842.2
1975	—	3.4	3.4	4.8	286.5	22.7	15.1	388.1	111.7	R38.2	678.1	16.1	—	694.6	-48.1	216.1	886.7
1976	—	2.1	2.1	6.1	336.6	24.3	18.9	326.6	141.4	R48.3	794.0	13.1	—	811.3	-34.2	224.9	1,065.1
1977	—	1.6	1.6	6.3	289.4	33.6	22.3	356.1	162.8	R41.6	908.8	10.4	—	919.6	-23.6	261.8	1,158.2
1978	—	1.7	1.7	6.8	276.0	39.2	21.3	374.3	136.0	R38.2	889.1	10.0	—	919.6	-42.1	264.4	1,162.9
1979	—	1.8	1.8	7.9	327.1	49.4	43.8	456.5	184.1	R39.7	1,089.6	17.4	—	1,126.8	-68.6	349.2	1,411.2
1980	—	6.7	6.7	11.2	422.8	68.7	25.3	586.7	220.7	R39.9	1,398.1	27.9	—	1,426.0	-129.8	465.3	1,798.3
1981	—	7.5	7.5	14.3	464.3	85.7	22.3	653.1	310.9	R56.6	1,671.9	38.5	—	1,632.1	-164.7	524.3	1,891.7
1982	—	15.4	15.6	19.4	436.7	85.1	28.8	624.9	456.9	R51.1	1,882.6	29.2	—	1,726.6	-127.0	557.9	2,157.7
1983	—	12.4	12.6	21.1	R341.8	R56.7	31.3	602.7	243.2	R58.3	R1,331.0	38.3	—	R1,403.5	-148.2	584.1	R1,945.4
1984	—	13.2	13.2	20.6	R292.8	R55.3	20.8	583.9	322.0	R73.8	R1,446.5	36.9	—	R1,517.3	-147.4	627.0	R1,996.9
1985	—	12.3	12.3	19.3	R446.8	64.4	26.8	615.9	217.3	R48.7	R1,687.7	36.7	—	R1,676.5	-137.6	675.7	R2,124.6
1986	—	21.1	21.1	17.9	R389.8	35.6	30.8	529.9	191.6	R67.6	R1,284.4	38.9	—	R1,342.4	-106.0	692.1	R1,929.4
1987	—	17.0	17.0	17.6	R425.6	43.7	50.8	579.3	170.3	R65.8	R1,327.4	26.9	—	R1,388.0	-106.3	694.4	R1,939.0
1988	—	18.2	18.2	18.5	R492.2	47.7	62.2	658.6	177.4	R91.8	R1,530.1	34.2	—	R1,601.0	-107.3	754.0	R2,247.8
1989	—	18.0	18.0	21.3	R494.2	59.6	59.8	847.4	230.6	R83.0	R1,553.4	40.0	—	R1,632.7	-129.9	801.0	R2,304.6
1990	—	18.8	18.8	28.4	540.8	82.9	68.7	718.8	192.7	R67.1	1,879.8	24.1	R58.6	R1,802.1	-86.5	862.9	R2,597.8
1991	—	25.0	25.0	26.5	R454.6	66.7	77.0	714.7	149.1	R80.0	R1,542.4	29.0	64.4	R1,667.3	-59.3	879.1	R2,607.0
1992	—	67.3	67.3	28.2	R441.0	64.8	60.9	714.3	146.9	R73.9	R1,481.2	22.2	65.2	R1,654.1	-54.4	1,008.0	R2,638.6
1993	—	26.5	26.5	30.6	R492.7	36.9	82.1	R706.0	135.7	R91.0	R1,627.1	22.9	68.4	R1,676.5	-41.7	1,008.0	R2,721.8
1994	—	26.1	26.1	32.1	630.6	23.3	64.2	717.6	174.1	61.1	1,660.9	27.6	68.1	1,732.7	-45.0	1,118.9	2,800.6

^a Liquefied petroleum gases.
^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used as electric utility), and the "other petroleum products" category described in Appendix A.
^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

^a Revised data.
 — No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.
 Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, selection procedures, and assumptions are described in Appendix A.

Table 126. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1984, Maine

Year	Primary Energy							Electricity	Total Energy ^c	
	Coal	Natural Gas	Petroleum			Renewables ^d				
			Distillate Fuel	Kerosene	LPG ^e					
							Total			
Prices in Nominal Dollars per Million Btu										
1970	1.29	1.94	1.51	1.80	2.04	1.85	—	1.84	8.12	2.17
1971	1.56	2.00	1.58	1.86	2.17	1.61	—	1.81	8.08	2.26
1972	1.58	2.12	1.59	1.89	3.01	1.67	—	1.87	8.42	2.35
1973	1.83	2.15	1.79	1.94	4.13	1.84	—	1.99	8.65	2.48
1974	2.18	2.36	2.22	3.01	5.10	2.83	—	2.82	10.07	3.17
1975	2.82	2.82	2.87	2.16	4.78	3.86	—	2.98	11.67	4.17
1976	2.84	2.82	3.04	3.25	4.87	3.17	—	3.16	11.02	4.19
1977	3.12	3.49	3.42	3.75	6.71	3.65	—	3.55	12.21	4.66
1978	3.64	3.80	3.96	4.01	6.09	3.93	—	3.85	12.57	4.84
1979	3.64	4.10	4.96	8.39	8.06	5.27	—	5.25	14.63	6.85
1980	3.80	4.29	4.84	8.39	8.04	7.12	—	7.09	14.30	6.78
1981	4.07	4.29	4.84	10.54	10.82	8.94	—	8.83	21.02	11.61
1982	4.43	4.43	4.83	10.70	12.01	8.82	—	8.83	21.71	11.80
1983	4.38	4.54	4.79	9.35	12.23	8.24	—	8.19	21.63	12.51
1984	4.38	4.54	4.79	9.35	12.23	8.16	—	8.10	22.35	12.87
1985	4.38	4.54	4.79	9.35	11.44	7.50	—	7.38	23.71	11.78
1986	4.38	4.54	4.79	9.35	9.79	6.83	—	6.60	23.66	10.18
1987	4.38	4.54	4.79	9.35	10.37	6.12	—	6.11	23.79	10.42
1988	3.96	4.02	4.77	8.02	10.37	6.23	—	6.23	24.17	10.82
1989	3.96	4.02	4.77	8.02	10.37	6.23	—	6.23	24.17	11.35
1990	4.31	4.31	4.87	7.40	8.46	6.23	—	6.23	27.28	12.41
1991	4.07	4.07	4.87	9.70	18.68	6.23	—	6.23	30.64	12.84
1992	3.84	3.84	4.86	7.89	18.28	7.16	—	7.16	33.36	12.85
1993	3.84	3.84	4.86	7.89	13.72	7.05	—	7.05	33.53	12.86
1994	4.07	4.07	4.86	7.41	11.61	6.94	—	6.94	36.12	12.84

Expenditures in Million Nominal Dollars

1970	4.3	1.0	49.1	14.8	4.4	44.4	—	44.2	47.7	127.5
1971	0.4	1.1	73.0	18.7	3.1	81.8	—	80.8	82.1	145.6
1972	0.7	1.3	79.0	18.9	0.5	100.4	—	100.3	81.1	183.6
1973	0.7	1.3	64.0	13.4	7.0	105.4	—	107.5	86.8	174.2
1974	0.8	1.3	125.8	17.8	8.5	152.9	—	156.1	92.7	237.0
1975	0.8	1.9	187.4	18.7	10.7	205.3	—	200.9	89.4	297.8
1976	0.7	2.1	161.4	23.1	13.8	198.1	—	200.9	104.2	305.1
1977	0.9	2.7	180.3	20.2	16.8	218.3	—	238.9	119.2	358.1
1978	0.9	2.7	184.0	18.7	15.8	218.5	—	251.3	120.6	361.9
1979	0.6	3.0	210.5	16.9	30.8	267.7	—	298.6	187.2	455.8
1980	1.1	3.5	287.7	14.7	14.7	317.1	—	317.1	217.6	534.7
1981	2.6	4.3	294.0	13.9	17.5	325.9	—	325.9	235.7	561.6
1982	2.7	5.1	259.7	18.2	17.5	279.9	—	281.7	235.7	517.3
1983	1.9	6.3	146.9	14.1	21.2	162.9	—	168.6	227.4	427.0
1984	2.7	6.2	153.2	14.4	10.7	177.4	—	185.3	258.8	442.3
1985	2.2	4.9	164.4	44.2	14.4	223.1	—	235.2	278.8	503.7
1986	2.6	4.6	198.4	23.6	18.2	240.4	—	255.6	282.7	538.3
1987	2.0	4.2	178.9	24.0	34.3	236.8	—	247.5	302.4	549.9
1988	1.8	4.1	204.6	31.0	34.3	269.8	—	275.5	322.0	597.5
1989	1.1	4.8	223.9	35.6	36.2	295.5	—	301.3	341.0	642.3
1990	1.9	4.8	270.8	28.8	48.1	346.7	—	346.7	346.8	693.5
1991	0.8	6.0	320.4	29.2	53.9	404.5	—	404.5	380.0	784.5
1992	1.5	6.1	304.8	31.2	34.1	369.1	—	369.1	439.0	808.1
1993	1.1	6.7	210.4	31.4	47.1	289.2	—	289.2	443.0	732.2
1994	0.4	7.0	205.5	31.9	41.2	278.6	—	278.6	448.0	726.6

a. Unstacked petroleum gases.
 b. Commercial sector gases and expenditures for wood and waste are included in the residential sector.
 c. There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
 d. There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

Revised data.
 —No consumption.
 Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data Resources, estimation procedures, and assumptions are discussed in Appendix A.

Table 127. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Maine

Year	Primary Energy										Electricity	Total Energy ^a
	Coal	Natural Gas	Petroleum					Total	Total			
			Distillate Fuel	Kerosene	LPG ^b	Motor Gasoline	Residual Fuel					
Prices in Monthly Dollars per Million Btu												
1970	0.88	1.42	1.11	0.83	1.25	3.02	0.35	1.82	1.03	7.86	2.40	
1971	0.84	1.46	1.17	0.72	1.45	3.12	0.39	0.87	0.99	7.90	2.28	
1972	1.09	1.61	1.16	0.72	1.46	3.05	0.38	0.88	1.00	8.90	2.46	
1973	1.11	1.66	1.18	0.82	1.45	3.21	0.39	1.14	1.16	9.55	2.77	
1974	1.54	1.89	2.32	2.43	2.43	4.35	1.62	2.17	2.15	11.46	3.92	
1975	2.59	2.07	2.45	2.76	3.24	4.58	1.73	2.41	2.40	11.46	5.06	
1976	1.79	2.59	2.64	3.12	3.70	4.71	1.73	2.60	2.50	11.35	4.82	
1977	2.08	3.46	2.89	3.12	3.70	5.02	2.07	2.85	2.84	12.80	5.01	
1978	1.82	3.19	3.09	3.03	3.84	5.21	2.03	2.95	2.85	13.05	5.62	
1979	1.54	3.61	4.44	4.09	4.47	5.89	2.91	4.19	4.14	15.29	7.57	
1980	1.83	3.00	4.82	4.89	6.86	6.89	4.33	5.44	6.72	19.30	9.16	
1981	1.90	5.86	8.03	7.03	8.41	10.75	4.59	7.57	7.30	21.55	11.57	
1982	2.03	7.15	7.70	7.89	7.24	10.08	4.77	8.64	8.63	22.55	11.34	
1983	1.86	8.87	7.18	7.89	7.72	9.49	4.64	8.43	8.33	22.82	11.07	
1984	2.39	8.34	8.71	8.09	7.83	9.05	4.96	8.35	8.33	22.19	11.18	
1985	2.39	8.34	8.81	8.49	10.29	9.25	4.98	8.89	8.87	23.49	11.86	
1986	2.13	7.29	8.72	8.46	11.25	7.88	2.47	8.96	8.96	23.53	11.86	
1987	2.37	6.71	8.66	8.46	11.14	7.72	2.99	8.84	8.86	20.89	11.03	
1988	2.55	6.09	8.71	8.51	10.83	8.15	2.93	8.79	8.59	21.15	11.03	
1989	2.81	6.29	8.50	8.16	10.22	8.89	2.83	8.34	8.44	22.08	11.44	
1990	2.81	6.48	8.44	8.71	10.80	8.74	2.81	8.48	8.44	22.08	11.44	
1991	2.85	6.88	8.55	8.72	11.94	9.64	2.41	8.40	8.43	27.09	12.14	
1992	2.85	8.11	8.45	8.72	9.86	9.83	2.47	8.40	8.44	27.75	12.37	
1993	2.32	6.67	8.20	8.87	10.02	9.83	2.44	8.40	8.44	26.34	12.37	
1994	2.84	6.87	5.21	8.87	9.83	9.41	2.46	4.72	4.95	30.67	12.82	

Expenditures in Million Monthly Dollars

1970	0.4	8.5	10.4	0.3	0.3	0.6	0.6	13.7	13.7	28.1	38.9
1971	0.4	0.7	11.4	0.3	0.4	0.7	1.6	14.4	14.4	29.4	49.8
1972	0.4	0.6	12.2	0.3	0.4	0.7	1.8	15.1	15.1	36.7	64.5
1973	0.4	0.7	14.0	0.3	0.4	0.6	1.8	16.7	17.2	40.4	71.6
1974	0.6	0.8	22.6	0.6	0.8	0.7	6.2	29.8	31.2	48.4	86.9
1975	0.7	1.1	23.1	0.8	1.2	1.8	8.7	32.7	34.5	55.7	106.2
1976	0.3	1.3	29.4	0.9	1.3	1.8	5.6	38.9	40.5	65.7	124.2
1977	0.5	1.6	38.4	0.8	1.9	1.1	7.2	47.5	49.8	74.6	136.8
1978	0.2	1.9	24.4	0.6	1.6	1.2	5.8	43.7	45.9	69.9	144.3
1979	0.2	2.4	39.7	0.7	2.7	1.6	7.9	52.0	54.5	89.8	164.3
1980	0.4	4.4	67.7	2.6	1.6	2.6	16.3	82.9	87.4	112.3	210.3
1981	0.7	6.4	81.4	1.8	1.9	3.0	12.0	94.9	106.7	133.1	239.9
1982	1.4	8.7	93.5	1.0	1.9	2.9	19.2	98.8	98.7	141.0	246.7
1983	1.1	10.0	86.4	3.0	2.4	4.9	21.5	101.4	101.4	146.3	263.4
1984	1.6	9.7	85.7	2.0	1.5	5.4	31.6	99.8	111.1	172.8	283.2
1985	1.8	8.4	83.5	1.4	1.5	4.1	28.4	99.5	104.3	180.8	295.2
1986	2.0	9.1	82.9	0.6	3.7	4.1	22.7	97.1	95.2	196.9	305.1
1987	1.7	8.7	84.0	1.3	5.8	3.6	13.0	95.9	92.8	195.4	300.6
1988	1.4	9.1	84.0	1.3	8.3	4.6	27.5	92.0	92.8	195.4	300.6
1989	1.4	9.1	84.0	1.3	8.3	4.6	27.5	92.0	92.8	195.4	300.6
1990	1.4	9.1	84.0	1.3	8.3	4.6	27.5	92.0	92.8	195.4	300.6
1991	1.4	9.1	84.0	1.3	8.3	4.6	27.5	92.0	92.8	195.4	300.6
1992	1.4	9.1	84.0	1.3	8.3	4.6	27.5	92.0	92.8	195.4	300.6
1993	0.8	15.6	84.0	1.3	8.3	4.6	27.5	92.0	92.8	195.4	300.6
1994	0.1	16.6	69.8	5.0	8.2	0.0	11.9	83.4	110.1	307.8	418.0

^a Liquid petroleum gases.
^b There are no direct fuel costs for production and other thermal energy sources. Commercial sector profits and expenditures for wood and waste are included in the residential sector.

Revised data.
 Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and seasonal data described in Appendix A.

Table 128. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Maine

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Biomass ^c	Total ^c		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	0.88	0.98	0.94	0.73	0.83	0.68	1.35	5.88	3.82	0.43	0.88	0.98	—	0.98	3.52	1.83
1971	—	0.84	0.84	0.92	0.87	0.87	0.72	1.46	5.27	3.12	0.52	—	0.90	—	0.91	3.89	0.86
1972	—	1.09	1.09	1.00	0.87	0.86	0.72	1.48	5.58	3.08	0.46	—	0.85	—	0.85	3.91	0.88
1973	—	1.11	1.11	1.06	0.86	0.84	0.82	1.45	5.39	3.21	0.57	—	0.89	—	0.87	4.08	1.00
1974	—	1.54	1.54	1.19	1.80	1.93	2.08	2.43	7.22	4.36	1.83	—	1.87	—	1.88	5.97	2.34
1975	—	2.58	2.58	1.42	1.99	2.58	2.88	3.24	7.88	4.88	1.82	—	1.87	—	1.87	6.88	2.84
1976	—	1.79	1.79	2.21	2.01	2.56	2.78	3.68	7.95	4.71	1.95	—	1.93	—	1.93	6.09	2.39
1977	—	2.06	2.06	2.63	2.08	2.90	3.12	3.70	6.97	5.08	2.18	—	2.27	—	2.27	6.73	2.81
1978	—	1.82	1.82	2.71	2.28	3.09	3.33	3.84	7.80	5.21	2.07	—	2.24	—	2.24	6.96	2.95
1979	—	1.54	1.54	3.28	2.85	4.45	4.88	4.47	10.21	6.98	2.84	—	3.12	—	3.11	9.04	4.13
1980	—	1.68	1.68	4.18	3.73	5.94	6.88	6.88	14.38	9.88	3.84	—	4.38	—	4.31	13.15	6.32
1981	—	1.90	1.90	5.08	5.48	6.43	7.08	6.41	16.80	10.78	5.08	—	5.35	—	5.19	14.88	7.17
1982	—	2.03	2.03	6.47	4.04	7.07	8.05	7.24	17.25	10.08	4.87	—	4.83	—	4.76	14.31	5.88
1983	—	1.98	1.98	7.47	4.28	^a 6.97	7.88	7.72	16.88	9.48	4.54	—	5.01	—	4.70	13.72	^a 7.03
1984	—	2.38	2.38	7.04	4.82	^a 7.01	8.08	7.53	17.88	9.05	4.98	—	5.27	—	5.10	14.57	^a 7.00
1985	—	2.88	2.88	6.94	5.21	^a 6.88	^a 7.88	10.28	17.81	9.85	4.88	—	5.38	—	5.08	15.15	7.37
1986	—	2.13	2.13	5.31	4.88	^a 4.74	^a 5.46	11.25	15.58	7.38	2.47	—	^a 3.22	—	^a 3.11	14.14	5.14
1987	—	2.37	2.37	5.28	3.55	^a 4.74	^a 5.48	11.14	12.70	7.72	2.83	—	^a 3.71	—	^a 3.58	14.12	^a 6.14
1988	—	2.55	2.55	4.98	3.35	^a 4.44	^a 5.11	10.88	14.81	8.15	2.38	—	^a 3.81	—	^a 3.86	14.88	^a 6.88
1989	—	2.81	2.81	4.56	3.23	^a 5.35	^a 6.16	10.22	14.48	8.88	2.83	—	^a 3.72	—	^a 3.61	18.74	^a 8.37
1990	—	2.81	2.81	5.88	3.34	^a 5.17	^a 7.11	10.88	14.88	9.74	2.81	—	^a 3.78	^a 1.47	^a 2.61	17.88	^a 8.77
1991	—	2.85	2.85	4.86	3.58	^a 5.88	^a 6.72	11.94	16.78	9.84	2.41	^a 7.33	^a 3.35	1.29	^a 2.43	18.67	^a 8.76
1992	—	2.85	2.85	4.88	2.81	^a 5.42	^a 6.25	9.88	18.43	8.83	2.47	^a 8.81	^a 3.23	1.28	^a 2.41	20.23	^a 8.54
1993	—	2.32	2.32	4.59	3.30	^a 5.17	^a 6.97	10.02	18.94	^a 8.33	2.44	^a 7.53	^a 3.23	1.28	^a 2.40	20.41	^a 8.64
1994	—	2.24	2.24	4.72	3.84	5.12	5.98	6.36	19.18	8.41	2.46	8.48	3.12	1.27	2.42	21.87	4.85
Expenditures in Million Nominal Dollars																	
1970	—	1.1	1.1	0.3	3.4	2.8	0.2	8.9	1.7	2.3	33.8	8.4	25.5	—	26.9	28.4	88.3
1971	—	1.1	1.1	0.4	4.6	3.2	0.2	1.8	2.0	1.8	38.0	—	50.9	—	52.5	29.2	81.7
1972	—	0.7	0.7	0.5	4.5	3.1	0.2	1.4	2.3	1.5	33.4	—	40.5	—	47.6	33.7	81.4
1973	—	0.7	0.7	0.7	5.7	3.9	0.2	1.3	2.3	1.5	38.6	—	53.8	—	58.0	36.4	91.4
1974	—	2.0	2.0	0.7	9.8	8.2	0.5	1.8	3.0	2.0	103.2	—	128.4	—	131.1	56.4	187.4
1975	—	2.0	2.0	1.0	9.2	8.2	0.8	2.8	2.7	1.8	88.8	—	88.8	—	98.5	54.6	151.1
1976	—	1.3	1.1	1.7	11.2	11.4	1.1	3.4	2.8	1.8	108.1	—	137.8	—	148.4	65.1	195.5
1977	—	0.2	0.2	2.0	9.7	13.8	1.2	2.5	2.7	1.8	128.7	—	166.5	—	167.7	68.0	235.7
1978	—	0.7	0.7	2.1	9.8	12.6	1.2	3.8	3.2	1.7	109.2	—	136.0	—	187.9	75.0	212.9
1979	—	0.8	0.8	2.6	6.0	18.6	1.8	10.1	4.5	2.7	194.8	—	189.3	—	171.7	102.9	274.5
1980	—	4.1	4.1	3.2	10.8	28.4	1.1	8.9	9.6	3.8	87.8	—	194.2	—	191.4	155.7	317.1
1981	—	4.2	4.2	3.7	17.2	27.9	0.5	7.1	6.8	2.2	185.3	—	227.0	—	234.9	178.6	408.6
1982	—	11.4	11.4	5.8	22.5	37.7	1.8	9.2	5.9	3.1	324.8	—	386.3	—	410.3	181.3	591.6
1983	—	9.8	9.8	6.8	16.4	^a 25.8	0.8	7.3	4.1	2.1	120.8	—	^a 178.8	—	^a 183.0	201.4	^a 385.3
1984	—	8.9	8.8	5.7	34.1	^a 26.8	0.5	8.4	8.7	4.4	179.8	—	^a 258.8	—	^a 274.4	187.8	^a 472.2
1985	—	8.3	8.3	5.4	35.8	^a 27.8	^a 1.8	9.2	6.8	6.1	88.8	—	^a 232.8	—	^a 227.4	216.2	^a 487.8
1986	—	16.5	16.5	4.2	23.8	^a 15.3	0.8	17.8	5.4	5.1	107.4	—	^a 174.8	—	^a 188.3	198.5	^a 394.8
1987	—	13.3	13.3	4.7	20.1	^a 25.3	1.2	12.8	5.0	5.6	76.8	—	^a 147.8	—	^a 165.7	209.6	^a 375.4
1988	—	15.1	15.1	5.2	38.2	^a 31.9	^a 1.8	29.4	5.5	5.7	72.8	—	^a 173.3	—	^a 188.6	224.0	^a 427.6
1989	—	15.9	15.9	6.3	21.5	^a 33.5	1.7	17.2	8.8	6.4	84.8	—	^a 178.5	—	^a 182.7	247.0	^a 430.7
1990	—	14.5	14.5	10.2	44.3	^a 25.4	1.1	14.8	5.9	4.8	88.8	—	^a 154.4	^a 48.3	^a 228.3	283.0	^a 611.3
1991	—	23.8	23.8	10.4	20.8	^a 28.4	1.8	16.2	8.0	5.1	80.7	^a 4.9	^a 158.3	58.8	^a 250.3	318.0	^a 586.2
1992	—	54.4	54.4	6.5	18.8	^a 23.7	0.5	11.4	7.1	5.1	85.5	^a 6.1	^a 187.4	57.8	^a 287.3	388.0	^a 615.3
1993	—	24.5	24.5	8.2	23.7	^a 27.9	^a 1.8	8.5	7.1	^a 7.1	188.5	^a 5.2	^a 197.8	88.0	^a 280.4	361.0	^a 641.4
1994	—	25.6	25.6	8.5	11.8	42.2	2.4	8.1	7.5	8.1	142.2	6.1	238.1	57.8	318.8	358.0	674.3

^a Liquefied petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.^e Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 129. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Maine

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG*	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	6.96	—	3.17	1.59	6.75	1.36	5.86	3.82	0.31	2.26	2.26	—	2.26
1971	6.94	—	2.21	1.49	6.79	1.45	5.27	3.12	0.34	2.34	2.34	—	2.34
1972	1.09	—	2.19	1.50	6.79	1.46	5.59	3.06	0.39	2.42	2.42	—	2.42
1973	1.11	—	2.36	1.60	6.39	1.45	5.33	3.21	0.34	2.29	2.29	—	2.29
1974	1.54	—	3.28	2.73	1.81	2.49	7.22	4.35	1.43	3.57	3.57	—	3.57
1975	2.89	—	3.48	2.99	2.89	3.34	7.49	4.86	1.86	3.95	3.95	—	3.95
1976	1.79	—	3.59	3.10	2.29	3.58	7.05	4.71	1.57	4.10	4.10	—	4.10
1977	2.00	—	3.97	3.62	2.44	3.70	6.97	5.03	1.62	4.48	4.48	—	4.48
1978	—	—	4.29	3.79	2.97	3.84	7.80	5.21	1.78	4.71	4.71	—	4.71
1979	—	—	5.73	5.59	3.99	4.47	10.21	6.59	2.09	6.21	6.21	—	6.21
1980	—	—	8.82	7.41	6.51	6.88	14.36	9.89	3.99	8.99	8.99	—	8.99
1981	—	—	10.84	9.05	7.80	6.41	16.80	10.75	4.57	10.03	10.03	—	10.03
1982	—	—	10.98	8.73	7.51	7.24	17.25	10.08	4.33	9.44	9.44	—	9.44
1983	—	—	10.44	8.24	^R 6.99	7.72	16.89	9.49	4.36	^R 9.27	^R 9.27	—	^R 9.27
1984	—	—	10.27	8.82	^R 6.99	7.53	17.89	9.05	4.76	^R 9.86	^R 9.86	—	^R 9.86
1985	—	—	9.89	8.14	6.18	10.29	12.61	8.35	4.08	8.86	8.86	—	8.86
1986	—	—	8.41	7.24	4.50	11.25	15.59	7.36	2.22	7.14	7.14	—	7.14
1987	—	—	7.55	7.82	4.41	11.14	12.70	7.72	2.83	7.42	7.42	—	7.42
1988	—	—	7.41	7.55	4.18	10.89	14.61	6.15	2.03	7.55	7.55	—	7.55
1989	—	—	8.25	8.20	4.79	10.22	14.49	6.69	2.46	8.12	8.12	—	8.12
1990	—	—	9.38	9.19	5.83	10.89	14.89	6.74	2.52	9.19	9.19	—	9.19
1991	—	—	8.71	8.11	6.97	11.94	18.79	6.64	1.90	8.98	8.98	—	8.98
1992	—	—	8.34	8.65	5.20	9.95	19.43	6.85	2.16	9.00	9.00	—	9.00
1993	—	—	8.24	8.89	4.43	10.02	18.84	^R 6.33	1.96	^R 8.75	^R 8.75	—	^R 8.75
1994	—	—	7.95	8.67	4.18	5.09	19.19	6.41	2.02	8.94	8.94	—	8.94
Expenditures in Million Nominal Dollars													
1970	(6)	—	1.9	11.2	8.4	(6)	3.5	172.1	2.7	189.9	189.9	—	189.9
1971	(6)	—	1.0	13.0	10.0	(6)	3.7	185.2	3.5	216.0	216.0	—	216.0
1972	(5)	—	1.0	14.4	10.1	(6)	4.2	191.7	7.2	229.5	229.5	—	229.5
1973	(5)	—	1.0	17.4	12.9	(6)	3.9	206.7	7.5	250.9	250.9	—	250.9
1974	(5)	—	1.9	25.2	18.8	(6)	5.1	280.4	14.5	345.4	345.4	—	345.4
1975	(6)	—	1.3	25.6	22.7	(6)	4.9	300.2	9.8	384.6	384.6	—	384.6
1976	(6)	—	1.1	32.6	24.3	0.1	5.1	323.9	9.0	398.3	398.3	—	398.3
1977	(5)	—	1.9	40.5	33.5	0.1	5.9	353.2	6.2	440.3	440.3	—	440.3
1978	—	—	1.4	43.6	39.2	0.1	6.5	371.5	3.4	464.8	464.8	—	464.8
1979	—	—	2.1	65.5	49.4	0.1	8.2	432.2	12.2	580.6	580.6	—	580.6
1980	—	—	3.7	68.9	66.7	0.2	11.5	582.4	4.8	746.1	746.1	—	746.1
1981	—	—	2.8	79.1	65.7	0.1	13.8	647.8	18.2	827.3	827.3	—	827.3
1982	—	—	2.0	85.3	65.1	0.3	12.1	618.9	17.4	809.1	809.1	—	809.1
1983	—	—	2.4	108.9	^R 66.7	0.4	12.4	695.7	8.5	^R 778.4	^R 778.4	—	^R 778.4
1984	—	—	2.9	192.5	^R 55.8	0.6	13.8	574.1	0.8	^R 799.0	^R 799.0	—	^R 799.0
1985	—	—	3.1	173.3	54.4	0.6	12.9	699.7	8.5	848.5	848.5	—	848.5
1986	—	—	2.4	154.4	39.6	0.9	11.1	511.8	1.0	721.3	721.3	—	721.3
1987	—	—	2.0	180.4	43.7	0.6	10.2	651.1	0.9	798.9	798.9	—	798.9
1988	—	—	2.5	205.3	47.7	1.2	11.3	646.7	5.4	922.0	922.0	—	922.0
1989	—	—	2.8	183.6	50.5	1.1	11.5	635.9	3.1	897.7	897.7	—	897.7
1990	—	—	2.9	249.6	62.9	0.7	11.8	794.7	2.4	1,059.1	1,059.1	—	1,059.1
1991	—	—	1.9	157.3	66.7	0.7	12.3	707.0	1.4	947.2	947.2	—	947.2
1992	—	—	1.8	157.4	54.8	0.6	14.5	708.6	2.1	937.8	937.8	—	937.8
1993	—	—	1.5	175.5	38.6	0.5	14.4	^R 637.3	3.5	^R 929.3	^R 929.3	—	^R 929.3
1994	—	—	1.4	212.9	23.3	0.7	15.2	709.0	3.0	965.4	965.4	—	965.4

* Liquefied petroleum gases.

^R—Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(6)—Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 130. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Maine

Year	Coal	Natural Gas	Petroleum			Nuclear Fuel	Bbls/yr	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke			
1970	—	—	0.34	0.41	—	—	—	0.35
1971	—	—	0.39	0.48	—	—	—	0.39
1972	—	—	0.38	0.48	—	0.24	—	0.38
1973	—	—	0.39	1.13	—	0.27	—	0.33
1974	—	—	1.52	2.07	—	0.30	—	1.83
1975	—	—	1.78	2.48	—	0.32	—	1.79
1976	—	—	1.76	2.55	—	0.20	—	1.77
1977	—	—	2.06	2.79	—	0.30	—	2.06
1978	—	—	2.06	2.96	—	0.32	—	2.09
1979	—	—	2.86	4.39	—	0.35	—	2.88
1980	—	—	4.38	5.33	—	0.58	—	5.89
1981	—	—	5.31	7.36	—	0.67	—	5.34
1982	—	—	4.83	7.54	—	0.58	—	4.87
1983	—	—	4.83	8.44	—	0.62	—	4.89
1984	—	—	4.66	8.33	—	0.63	—	4.97
1985	—	—	4.21	8.26	—	0.62	—	4.83
1986	—	—	2.39	3.46	—	0.56	—	2.40
1987	—	—	2.63	4.18	—	0.60	—	2.94
1988	—	—	2.36	4.43	—	0.54	—	2.37
1989	—	—	2.76	4.14	—	0.54	—	2.79
1990	—	—	2.76	5.48	—	0.48	—	2.79
1991	—	—	2.07	4.58	—	0.43	—	2.09
1992	—	—	2.27	4.37	—	0.39	—	2.29
1993	—	—	2.13	3.95	—	0.37	—	2.15
1994	—	—	2.12	3.90	—	0.38	—	2.14

Expenditures in Millions Nominal Dollars								
1970	—	—	16.3	8.2	—	—	—	10.6
1971	—	—	12.0	0.6	—	—	—	12.6
1972	—	—	12.8	0.7	—	0.1	—	13.7
1973	—	—	11.9	0.9	—	8.7	—	22.8
1974	—	—	40.6	1.1	—	11.8	—	53.5
1975	—	—	51.4	0.8	—	16.1	—	68.1
1976	—	—	20.5	0.5	—	13.1	—	34.2
1977	—	—	16.8	0.4	—	19.4	—	33.6
1978	—	—	22.6	0.5	—	18.0	—	42.1
1979	—	—	40.1	1.0	—	17.4	—	59.5
1980	—	—	89.7	2.2	—	27.6	—	129.8
1981	—	—	123.4	1.8	—	38.5	—	164.7
1982	—	—	86.3	2.5	—	29.2	—	127.0
1983	—	—	101.1	2.3	—	38.8	—	142.2
1984	—	—	110.6	1.6	—	35.0	—	147.4
1985	—	—	90.9	1.8	—	35.7	—	127.8
1986	—	—	63.5	0.7	—	36.9	—	106.0
1987	—	—	79.6	0.8	—	23.9	—	108.3
1988	—	—	71.7	1.3	—	34.2	—	107.3
1989	—	—	81.8	1.1	—	40.0	—	128.9
1990	—	—	81.8	0.6	—	24.1	—	88.5
1991	—	—	28.8	0.6	—	28.0	—	59.3
1992	—	—	31.8	0.6	—	22.2	—	54.4
1993	—	—	18.4	0.4	—	18.9	—	41.7
1994	—	—	17.0	0.4	—	27.8	—	45.0

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
—No consumption.

Note: Expenditure totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 131. Energy Price and Expenditure Estimates by Source, 1970-1994, Maryland

Year	Primary Energy														Electricity Utility Fuel	Electricity Purchased by End-Users	Total Energy ^d
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biomass	Total ^c			
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total						
Prices in Normal Dollars per Million Btu																	
1970	8.58	0.34	0.45	1.07	1.20	0.73	1.87	2.88	0.43	\$1.45	1.62	—	—	1.17	8.48	8.76	1.79
1971	0.71	0.51	0.59	1.12	1.22	0.76	1.85	2.88	0.62	\$1.69	1.64	—	—	1.28	0.58	8.27	1.94
1972	0.77	0.49	0.81	1.16	1.23	0.81	1.78	3.01	0.52	\$1.69	1.64	—	—	1.34	0.59	8.62	2.08
1973	0.84	0.48	0.67	1.20	1.48	0.94	2.49	3.14	0.72	\$1.73	1.75	—	—	1.42	0.68	7.07	2.19
1974	1.59	1.15	1.38	1.37	2.45	1.59	2.76	4.52	1.85	\$2.47	2.90	—	—	2.33	1.48	10.07	3.40
1975	2.14	1.38	1.89	1.94	3.81	2.84	3.71	4.88	1.87	\$3.50	3.30	0.29	—	2.62	1.56	11.79	4.02
1976	2.11	1.14	1.60	2.10	2.60	2.17	3.94	5.02	1.81	\$3.19	3.45	0.22	—	2.62	1.17	11.20	4.15
1977	2.13	1.19	1.56	2.75	3.21	2.56	3.93	5.30	2.14	\$3.21	3.75	0.31	—	2.85	1.19	12.00	4.70
1978	2.34	1.32	1.69	3.01	3.40	2.83	4.09	5.33	2.01	\$3.61	3.81	0.36	—	2.95	1.29	13.46	5.03
1979	2.32	1.41	1.76	2.88	4.65	3.95	4.07	7.02	3.02	\$4.65	5.18	0.42	—	3.84	1.57	13.58	5.89
1980	2.38	1.50	1.77	3.31	6.87	6.48	4.81	9.93	4.04	\$7.14	7.66	0.44	—	4.92	1.65	15.47	7.78
1981	2.66	1.76	2.00	4.42	8.24	7.81	7.18	11.09	4.80	\$8.25	9.00	0.49	—	5.55	1.79	17.31	8.84
1982	2.73	1.87	2.00	5.52	7.69	7.18	7.04	10.39	4.45	\$7.76	8.53	0.47	—	5.50	1.75	18.97	9.14
1983	2.15	1.71	1.81	6.64	\$7.74	6.44	7.79	9.38	4.49	\$8.49	\$7.59	0.53	—	5.34	1.66	18.71	\$8.98
1984	2.02	1.75	1.81	6.59	\$7.98	\$6.10	7.01	9.00	4.78	\$8.64	\$7.76	0.58	1.25	\$6.21	1.68	17.67	\$8.44
1985	1.86	1.71	1.75	6.29	\$7.78	6.80	11.26	8.59	4.06	\$8.97	\$8.12	0.59	0.78	\$6.38	1.66	18.89	\$9.09
1986	1.76	1.64	1.67	5.98	\$6.07	4.01	10.99	7.55	2.30	\$8.56	\$8.40	0.58	0.32	\$4.33	1.32	18.68	\$8.19
1987	1.59	1.56	1.56	5.31	\$6.32	4.01	10.62	7.80	3.03	\$8.14	6.49	0.49	0.95	4.38	1.43	17.61	7.93
1988	1.81	1.56	1.57	4.92	\$6.29	3.75	9.88	8.18	2.27	\$8.09	6.49	0.49	0.87	4.27	1.35	17.12	7.94
1989	1.67	1.59	1.59	5.12	\$6.72	4.38	13.84	8.84	2.68	\$6.87	\$6.68	0.52	1.27	\$4.98	1.83	17.53	8.54
1990	1.71	1.61	1.62	6.87	\$8.02	5.47	11.88	9.68	3.88	\$8.22	7.92	0.61	\$2.36	\$8.43	1.88	18.47	\$8.28
1991	1.75	1.61	1.62	4.69	\$7.65	4.78	12.52	9.68	2.19	\$7.80	\$7.64	0.50	2.42	\$4.65	1.46	19.97	\$8.65
1992	—	1.58	1.58	4.97	\$7.31	4.49	11.33	9.74	2.19	\$7.58	\$7.74	0.45	2.44	\$4.96	1.36	19.95	\$8.75
1993	1.73	1.58	1.58	5.44	\$7.22	4.16	11.51	9.38	2.21	\$7.83	\$7.42	0.53	2.48	\$4.65	1.36	20.40	\$8.90
1994	—	1.53	1.53	5.35	6.96	3.85	13.73	9.52	2.39	4.77	7.64	0.52	2.42	4.91	1.40	20.59	10.03
Expenditures in Million Normal Dollars																	
1970	79.6	90.0	139.6	198.5	138.3	36.1	13.8	896.7	58.7	\$75.5	860.4	—	—	1,168.6	-81.8	442.4	1,519.8
1971	85.2	77.7	163.0	181.0	141.6	17.4	13.4	899.4	115.9	\$80.0	967.6	—	—	1,301.6	-131.1	518.9	1,689.4
1972	73.1	64.5	137.5	208.5	151.5	17.9	15.0	855.9	142.7	\$75.7	1,057.6	—	—	1,409.8	-139.8	570.3	1,820.2
1973	114.1	59.4	172.5	210.0	196.5	19.1	23.4	708.1	187.9	\$78.8	1,211.8	—	—	1,594.3	178.9	628.8	2,098.3
1974	162.6	132.6	295.2	237.0	317.3	26.6	24.9	1,005.1	461.2	\$111.5	1,938.0	—	—	2,470.2	-451.9	922.2	2,940.5
1975	289.6	132.6	338.2	276.5	317.1	94.8	33.8	1,175.8	314.0	\$128.5	1,942.2	11.3	—	2,657.3	-382.5	1,042.3	3,297.1
1976	243.0	148.8	391.8	319.9	327.7	37.8	40.1	1,202.2	312.8	\$164.8	2,075.1	15.4	—	2,802.2	-359.5	1,143.8	3,586.5
1977	157.2	138.0	295.2	365.5	405.6	46.5	40.6	1,307.1	352.8	\$185.5	2,310.9	35.9	—	3,007.5	-396.5	1,289.5	3,899.5
1978	175.8	178.2	354.0	412.0	420.5	62.0	43.9	1,339.8	344.3	\$179.0	2,379.7	39.1	—	3,184.8	-450.5	1,490.3	4,224.6
1979	211.6	211.1	422.8	503.7	570.0	71.2	30.7	1,641.3	455.5	\$204.2	3,102.9	44.2	—	4,079.6	-631.6	1,650.4	5,002.4
1980	368.9	247.9	496.8	687.5	873.6	126.3	51.6	2,296.2	415.8	\$284.8	4,088.4	82.6	—	6,136.2	-644.8	1,829.5	8,416.7
1981	168.3	258.8	417.1	785.7	888.3	149.6	52.0	2,667.2	382.9	\$336.3	4,399.1	66.4	—	6,640.2	-649.0	2,069.0	7,177.8
1982	152.1	301.8	453.9	684.2	746.0	142.5	51.4	2,908.7	326.9	\$295.1	3,970.6	64.3	—	6,342.9	-634.5	2,247.3	7,055.6
1983	117.4	304.2	421.6	973.1	\$832.5	\$135.9	57.7	2,176.6	308.8	\$326.5	3,837.9	67.3	—	6,299.9	-640.2	2,342.0	7,101.8
1984	115.1	372.6	487.7	1,059.9	\$884.6	\$124.9	60.7	2,148.4	345.1	\$371.9	3,815.6	72.8	0.6	\$6,336.6	-639.0	2,313.8	7,257.3
1985	107.4	341.2	448.6	988.9	\$802.3	125.7	73.3	2,275.7	261.9	\$382.7	3,872.6	82.8	0.1	\$6,381.0	-636.2	2,486.0	7,210.6
1986	91.5	368.7	458.3	933.1	\$814.2	86.7	67.2	1,860.2	106.6	\$372.1	3,095.9	77.3	0.1	\$4,584.7	-495.4	2,571.2	6,740.5
1987	82.3	368.9	451.2	913.8	\$865.6	64.0	88.9	1,870.1	173.2	\$349.5	3,311.6	63.2	0.8	\$4,730.2	-817.2	2,698.1	6,911.0
1988	82.6	390.6	473.4	864.2	\$879.4	93.7	89.9	2,114.9	148.9	\$385.4	3,432.1	62.1	0.5	\$4,832.3	-644.1	2,779.1	7,067.3
1989	77.4	385.6	473.0	990.5	\$906.0	107.2	108.8	2,278.9	254.9	\$329.9	3,865.7	15.1	0.2	\$5,364.4	-645.8	2,945.0	7,063.6
1990	57.8	400.3	458.1	864.5	\$794.7	130.3	82.4	2,448.9	185.4	\$327.2	3,850.8	6.2	20.9	\$5,327.5	-648.9	3,122.0	7,891.7
1991	45.6	358.3	444.8	874.1	\$764.1	87.8	91.3	2,433.3	127.0	\$251.5	3,755.1	48.2	22.4	\$5,092.6	-558.0	3,483.1	8,017.7
1992	—	390.0	390.0	913.4	\$781.8	76.8	108.2	2,509.4	106.3	\$248.4	3,826.8	51.8	22.6	\$5,206.4	-624.0	3,466.0	8,150.4
1993	(a)	412.6	412.6	985.6	\$829.5	89.9	102.9	2,445.5	134.8	\$288.6	3,571.4	69.6	23.8	\$5,373.2	-634.9	3,749.0	8,527.3
1994	—	412.8	412.8	989.4	789.1	70.3	141.6	2,535.8	134.3	279.5	3,950.6	62.7	23.7	5,449.3	-603.6	3,846.0	8,891.6

^a Liquefied petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

Rounded data

—No consumption, including cases where adjustments were made See explanation of adjustments in Section 7 of

Appendix A

(a) Value less than 0.05 million normal dollars

Note Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 132. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Maryland

Year	Primary Energy								Electricity	Total Energy ^c
	Coal	Natural Gas	Petroleum			Nuclear ^b	Total ^c			
			Distillate Fuel	Kerosene	LPG ^a			Total		
Prices in Nominal Dollars per Million Btu										
1970	1.85	1.42	1.42	1.50	2.57	1.50	—	1.46	7.02	2.24
1971	1.25	1.46	1.44	1.63	2.64	1.60	—	1.53	7.71	2.66
1972	1.47	1.61	1.45	1.68	2.51	1.56	—	1.59	8.07	2.71
1973	1.39	1.65	1.69	1.90	3.95	1.88	—	1.75	8.53	3.09
1974	2.27	1.67	2.58	2.94	3.43	2.68	—	2.12	11.51	3.99
1975	1.78	2.30	2.71	3.37	4.81	2.88	—	2.58	12.65	4.62
1976	1.75	2.54	2.80	3.28	4.83	3.11	—	2.79	12.81	4.85
1977	2.67	3.15	3.32	3.65	4.59	3.45	—	3.26	13.88	5.57
1978	2.86	3.30	3.55	4.09	5.45	3.73	—	3.49	14.97	6.11
1979	2.91	3.81	5.05	5.53	6.80	5.12	—	4.26	15.29	6.71
1980	3.38	4.38	7.88	8.86	8.87	7.31	—	5.71	17.32	8.54
1981	3.76	5.60	8.75	10.80	8.68	8.90	—	6.52	19.34	9.88
1982	3.82	6.52	8.44	10.56	8.65	8.84	—	7.00	21.31	10.86
1983	3.37	7.27	8.36	9.38	8.39	8.51	—	7.71	21.26	11.72
1984	3.57	7.25	8.59	9.22	8.16	8.58	—	7.70	20.32	11.34
1985	3.29	7.01	8.84	8.84	8.12	8.62	—	7.64	21.32	11.76
1986	3.22	6.84	8.82	7.42	11.25	7.32	—	6.83	21.14	11.51
1987	3.10	6.16	6.56	7.03	11.25	7.02	—	6.43	20.19	11.04
1988	3.07	5.72	6.59	7.07	8.17	6.85	—	6.11	19.68	10.89
1989	3.25	6.11	7.10	7.62	17.98	6.31	—	6.43	20.10	11.58
1990	3.38	6.38	8.47	8.88	12.58	8.04	49.53	69.99	21.17	12.81
1991	3.08	8.01	8.21	8.38	13.40	8.99	3.53	8.77	23.15	12.73
1992	3.10	8.28	7.56	8.11	13.03	8.42	3.53	8.77	23.36	12.44
1993	3.23	8.89	7.43	7.97	13.18	8.23	3.53	8.77	24.06	13.01
1994	3.23	8.75	7.19	7.72	18.67	8.86	3.53	7.25	24.58	13.33
Expenditures in Million Nominal Dollars										
1970	6.9	186.1	67.9	88.4	9.8	88.1	—	283.1	184.2	387.3
1971	0.9	111.2	87.1	25.2	18.2	102.5	—	214.5	213.3	427.8
1972	0.7	123.3	70.4	15.7	11.0	87.1	—	221.2	235.3	457.5
1973	0.7	122.4	84.9	10.5	18.7	114.3	—	237.4	281.3	518.6
1974	1.2	110.8	122.5	16.8	15.1	154.4	—	274.8	389.6	644.2
1975	8.8	161.4	138.3	18.3	21.3	172.9	—	338.9	418.8	782.8
1976	0.5	188.0	138.0	17.8	24.3	180.9	—	370.4	442.1	812.5
1977	1.2	297.3	168.2	12.5	22.0	201.7	—	410.2	482.9	902.6
1978	1.8	236.2	174.3	11.7	24.7	212.7	—	448.8	570.4	1,020.3
1979	4.9	251.7	274.8	33.9	4.9	313.0	—	680.3	564.4	1,184.7
1980	1.2	304.1	261.7	48.2	26.7	428.6	—	783.9	716.3	1,488.2
1981	1.7	356.7	245.1	37.6	28.9	412.6	—	771.0	812.1	1,583.1
1982	3.9	413.7	303.3	39.7	24.8	367.8	—	785.1	908.9	1,682.0
1983	3.8	480.3	294.9	29.2	32.0	358.1	—	836.5	975.7	1,813.2
1984	2.6	543.1	311.3	19.0	30.6	380.9	—	806.5	968.9	1,875.4
1985	3.8	488.1	241.9	65.8	40.8	337.4	—	887.8	1,441.6	1,678.7
1986	3.8	404.8	194.2	34.9	31.0	280.1	—	758.5	1,141.2	1,199.7
1987	4.8	450.2	210.8	45.3	39.1	296.2	—	750.3	1,186.1	1,396.3
1988	3.5	442.0	227.2	62.7	30.1	310.0	—	756.4	1,241.0	1,398.5
1989	3.8	473.4	212.6	35.1	72.9	328.6	—	798.8	1,308.0	1,308.0
1990	1.5	433.5	211.4	18.8	48.8	388.9	44.3	433.1	1,308.0	1,308.0
1991	1.2	426.5	198.9	18.8	59.1	279.7	15.1	271.5	1,303.0	1,303.0
1992	0.4	483.0	196.4	14.8	64.5	275.4	15.9	274.7	1,303.0	1,303.0
1993	0.5	544.2	229.3	23.0	66.7	318.0	17.1	317.8	1,303.0	1,303.0
1994	1.1	533.0	208.8	17.2	87.1	323.1	16.8	340.0	1,303.0	1,303.0

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.

Revised data.

—No consumption.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 133. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Maryland

Year	Primary Energy								Electricity	Total Energy ^b
	Coal	Natural Gas	Petroleum					Total		
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel			
Prices in Nominal Dollars per Million Btu										
1970	0.87	1.09	1.12	0.88	1.83	2.65	0.43	0.93	0.96	2.00
1971	0.80	1.12	1.14	0.90	0.96	2.88	0.63	0.93	1.01	2.09
1972	0.19	1.20	1.14	0.89	1.04	3.01	0.60	0.93	1.04	2.84
1973	0.19	1.23	1.32	1.02	1.01	3.14	0.72	1.08	1.14	3.14
1974	0.79	1.40	2.23	2.34	2.00	4.62	1.62	2.12	1.76	4.65
1975	1.86	1.36	2.38	2.53	2.75	4.88	1.83	2.31	2.33	5.77
1976	0.95	2.13	2.57	2.72	3.07	5.02	1.75	2.40	2.26	6.10
1977	0.87	2.68	2.95	3.02	3.41	5.30	2.13	2.61	2.72	6.82
1978	1.07	2.86	3.14	3.23	3.58	5.53	1.99	2.85	2.90	7.64
1979	1.09	3.04	4.52	4.21	3.78	7.02	3.05	4.22	3.46	7.76
1980	1.19	3.88	6.38	6.34	5.43	8.93	4.16	5.81	4.74	8.79
1981	1.39	4.42	8.08	7.54	5.91	11.08	5.01	7.61	5.26	11.81
1982	1.37	5.48	7.09	7.48	6.00	10.38	4.82	7.15	5.85	12.56
1983	1.33	6.57	R 6.92	7.14	6.43	9.38	4.52	R 6.61	R 6.44	R 12.43
1984	1.31	6.49	R 6.81	7.29	6.13	9.00	4.95	R 6.48	R 6.36	R 12.07
1985	1.33	6.17	R 6.37	R 6.19	11.07	8.58	4.41	R 6.58	R 6.88	R 13.88
1986	1.33	5.54	R 4.25	R 4.41	10.71	7.53	2.58	R 4.07	R 4.70	R 12.45
1987	1.30	4.84	R 4.29	R 4.08	10.30	7.88	3.14	R 4.04	R 4.34	R 10.71
1988	1.33	4.93	R 3.94	R 4.28	10.26	8.18	2.39	R 3.97	R 4.42	R 11.26
1989	1.26	5.27	R 4.79	R 5.44	9.42	8.84	2.82	R 4.42	R 4.83	R 11.02
1990	1.21	6.21	R 5.68	R 6.84	10.33	8.88	3.13	R 5.88	R 6.38	R 12.15
1991	1.34	4.82	R 5.37	R 6.01	11.09	9.56	2.38	R 5.66	R 5.09	R 11.54
1992	1.32	5.10	R 4.94	R 5.69	9.50	9.74	2.29	R 4.87	R 5.08	R 11.11
1993	1.27	5.57	R 4.75	R 5.30	9.82	9.39	2.37	R 4.87	R 5.30	R 11.96
1994	1.27	5.30	4.40	5.21	10.46	9.82	2.41	4.62	5.05	11.75

Expenditures in Million Nominal Dollars										
1970	0.1	28.4	28.9	0.3	0.7	1.8	4.1	27.8	56.4	149.5
1971	0.4	32.4	30.6	0.4	0.7	1.6	10.0	33.2	86.0	238.3
1972	0.1	37.1	21.5	0.3	0.8	1.7	9.5	39.7	70.9	192.2
1973	0.1	37.3	25.8	0.2	0.8	1.8	11.7	40.4	77.9	222.7
1974	0.6	42.5	41.3	0.4	1.6	2.6	21.8	67.7	110.8	304.2
1975	0.6	50.1	45.8	0.5	2.2	3.1	18.4	85.8	115.5	386.3
1976	0.3	60.7	48.0	0.5	2.7	3.3	15.4	88.8	130.9	410.4
1977	0.6	78.0	58.2	0.3	2.9	3.1	17.0	81.5	157.1	450.6
1978	0.5	81.2	60.1	0.3	3.2	3.5	12.5	78.6	181.3	489.7
1979	3.3	99.9	95.8	0.8	0.5	4.6	21.0	122.5	225.7	620.8
1980	0.8	113.1	108.8	0.7	2.8	6.3	38.3	146.4	268.1	888.7
1981	0.7	143.7	79.8	0.7	3.5	8.0	6.5	92.4	236.8	678.9
1982	2.1	171.4	79.2	3.7	3.0	7.5	12.9	108.3	279.9	736.6
1983	2.1	206.4	R 112.4	1.7	3.9	8.1	15.9	R 141.9	R 352.4	R 1,106.5
1984	1.6	168.5	R 113.5	0.8	4.1	7.1	23.8	R 149.3	R 319.4	R 996.2
1985	2.5	183.9	R 72.8	3.5	4.8	8.5	7.8	R 98.0	R 254.4	R 977.1
1986	2.7	136.6	R 55.2	R 12	5.9	6.9	14.0	R 65.5	R 204.8	R 886.8
1987	3.7	130.3	R 48.4	0.6	8.3	7.4	36.1	R 68.6	R 232.8	R 971.9
1988	2.6	131.7	R 42.7	1.6	5.9	7.5	10.8	R 68.3	R 202.6	R 987.8
1989	1.1	140.2	R 55.8	R 2.7	8.7	8.2	22.8	R 97.5	R 244.8	R 956.8
1990	0.9	128.7	R 71.8	1.8	7.2	11.8	18.9	R 180.7	R 233.3	R 983.8
1991	0.9	192.1	R 71.8	1.8	8.6	5.9	2.0	R 90.1	R 263.1	R 1,086.2
1992	0.3	222.5	R 74.0	R 1.4	8.3	5.3	6.8	R 95.8	R 318.5	R 1,135.7
1993	0.3	R 249.6	R 74.3	R 2.6	8.3	1.5	2.9	R 90.7	R 350.5	R 1,210.5
1994	0.7	241.0	78.5	6.3	9.6	1.6	3.3	99.2	340.9	1,352.8

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R-Revised data.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 134. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Maryland

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Biofuels ^d	Total ^c		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	0.58	0.07	0.50	0.67	0.80	0.81	0.88	1.53	5.08	2.85	0.43	1.59	0.84	—	0.83	3.80	0.91
1971	0.71	0.40	0.68	0.70	0.78	0.82	0.90	0.95	5.27	2.89	0.62	1.97	0.87	—	0.75	4.18	1.07
1972	0.77	0.18	0.67	0.73	0.82	0.82	0.89	1.04	5.59	3.01	0.62	1.98	0.89	—	0.78	4.41	1.13
1973	0.84	0.16	0.78	0.78	0.93	0.84	1.02	1.01	5.33	3.14	0.75	2.36	1.02	—	0.85	4.77	1.20
1974	1.59	0.78	1.48	1.16	1.68	2.15	2.34	2.09	7.22	4.52	1.89	2.70	2.09	—	1.64	7.44	2.25
1975	2.14	1.06	2.85	1.26	1.89	2.34	2.83	2.75	7.48	4.86	2.08	2.65	2.49	—	2.98	8.42	2.75
1976	2.11	0.95	2.07	1.80	1.98	2.51	2.72	3.07	7.05	5.09	1.99	3.68	2.55	—	2.17	7.61	2.68
1977	2.13	0.97	2.03	2.16	2.08	2.78	3.02	3.41	5.97	5.30	2.29	3.71	2.73	—	2.36	8.57	3.33
1978	2.34	1.07	2.12	2.35	2.24	2.94	3.23	3.99	7.60	5.33	2.18	4.34	2.94	—	2.54	10.07	3.74
1979	2.32	1.09	2.15	2.10	2.55	3.88	4.21	3.78	10.21	7.02	3.29	5.87	3.64	—	2.78	9.95	3.81
1980	2.38	1.19	2.15	3.19	3.73	5.80	6.24	5.13	14.36	8.83	4.37	8.91	5.77	—	3.84	11.65	5.08
1981	2.58	1.39	2.29	3.92	4.95	6.81	7.84	5.91	18.00	11.09	5.28	9.61	6.99	—	4.23	12.97	5.91
1982	2.73	1.37	2.43	4.95	4.14	6.77	7.46	6.00	17.25	10.38	4.73	10.93	6.57	—	4.47	14.13	6.30
1983	2.15	1.33	1.95	5.88	4.12	6.78	7.14	6.43	16.98	9.36	4.57	8.54	6.57	—	4.45	13.70	6.14
1984	2.02	1.31	1.82	5.85	4.47	6.59	7.29	6.13	17.63	9.00	4.95	7.63	6.53	—	4.52	13.10	6.05
1985	1.88	1.33	1.75	5.81	4.98	6.23	6.89	11.07	17.81	8.88	4.41	7.31	6.33	—	4.42	13.92	6.26
1986	1.75	1.33	1.65	5.43	4.18	6.39	6.41	10.71	15.59	7.55	2.58	6.49	5.15	—	4.02	14.12	6.14
1987	1.59	1.30	1.50	4.97	3.22	4.24	4.69	10.30	12.70	7.80	3.14	5.77	4.75	—	3.66	13.49	5.72
1988	1.61	1.33	1.54	4.17	3.16	3.67	4.28	10.26	14.81	8.18	2.39	5.10	4.46	—	3.43	12.97	5.53
1989	1.67	1.28	1.57	4.67	2.90	4.92	5.44	9.42	14.48	8.84	2.82	5.71	4.10	—	3.67	13.80	6.30
1990	1.71	1.21	1.50	4.45	2.87	5.91	6.54	10.33	14.80	8.88	3.19	6.23	4.59	1.37	3.77	14.94	6.44
1991	1.75	1.34	1.55	3.42	2.89	6.44	6.01	11.09	16.79	9.58	2.39	6.42	4.69	1.47	3.23	15.11	6.64
1992	—	1.32	1.32	3.47	2.20	6.13	5.86	9.50	19.43	9.74	2.25	6.39	4.55	1.42	3.52	15.83	7.47
1993	1.73	1.27	1.27	3.49	3.11	4.79	5.30	9.02	18.94	9.39	2.37	6.01	4.34	1.41	3.56	15.96	7.46
1994	—	1.27	1.27	3.92	3.03	4.66	5.16	8.29	19.18	9.52	2.41	5.79	4.32	1.38	3.71	15.82	7.29
Expenditures in Million Nominal Dollars																	
1970	78.8	1.8	81.4	25.9	11.1	14.8	8.5	2.4	99.0	3.9	17.9	22.5	83.1	—	164.2	188.7	304.0
1971	85.2	7.9	93.1	34.0	15.3	15.7	0.4	2.5	9.4	3.9	42.4	15.0	105.1	—	232.2	191.3	363.6
1972	73.1	3.4	76.4	45.5	15.9	17.6	0.5	3.4	10.7	3.0	39.1	17.2	109.3	—	230.2	141.7	371.9
1973	114.1	4.4	118.5	46.5	23.8	22.4	0.4	3.7	10.0	3.1	60.4	20.7	134.5	—	299.6	164.8	464.4
1974	162.6	19.3	175.9	57.3	39.8	43.2	1.9	7.2	13.0	4.9	83.3	22.1	224.8	—	469.0	248.4	718.5
1975	286.8	8.8	298.4	58.6	48.8	44.4	2.1	8.3	29.7	7.5	62.8	27.8	215.9	—	483.0	268.2	743.2
1976	243.0	4.6	247.7	59.9	44.5	46.5	0.7	12.3	21.7	3.4	70.9	51.7	251.7	—	569.3	291.3	860.6
1977	157.2	6.6	164.1	82.6	47.8	59.0	6.0	14.7	17.5	2.2	78.9	54.4	279.2	—	524.9	345.6	870.5
1978	175.8	16.7	192.4	91.7	57.8	58.2	6.8	14.8	20.5	1.9	88.0	62.9	279.5	—	562.8	420.0	982.7
1979	211.6	15.1	227.7	123.4	60.2	87.3	8.6	24.8	28.8	1.9	97.9	78.2	365.7	—	756.9	444.6	1,191.5
1980	268.9	21.2	296.1	178.9	85.3	104.1	11.3	31.9	36.1	7.6	88.8	198.3	424.5	—	781.5	639.6	1,319.0
1981	189.3	26.0	184.2	248.4	89.0	119.6	10.7	18.0	43.4	8.6	38.9	107.5	445.5	—	878.3	593.7	1,472.0
1982	152.1	21.3	173.4	278.1	65.7	88.5	2.2	22.4	37.9	6.0	38.2	93.3	369.3	—	817.8	609.5	1,421.2
1983	117.4	23.8	141.2	278.3	117.8	82.3	2.8	20.5	39.1	5.7	85.0	103.0	466.1	—	885.7	609.9	1,495.5
1984	116.1	26.7	143.8	343.7	148.7	82.0	1.0	24.2	43.2	12.9	125.4	123.2	670.8	—	1,058.2	665.9	1,724.1
1985	107.4	23.5	131.0	311.7	148.8	82.4	1.7	23.3	40.2	14.9	28.3	198.9	488.4	—	961.1	727.4	1,688.5
1986	91.5	23.9	115.4	293.4	144.7	86.5	1.4	19.5	34.8	12.7	15.3	124.7	401.7	—	812.5	781.8	1,574.3
1987	82.3	31.4	113.7	300.5	102.6	41.1	1.3	22.3	32.1	13.6	15.9	139.9	369.2	—	783.3	787.2	1,550.5
1988	82.3	22.8	105.6	278.0	91.3	38.7	3.5	21.9	35.6	16.2	15.9	120.5	342.6	—	724.1	772.0	1,496.1
1989	77.4	21.7	99.1	318.6	94.7	60.3	3.2	27.1	36.2	15.9	17.6	135.4	382.3	—	800.2	916.0	1,719.1
1990	57.6	28.7	86.3	282.6	95.7	60.7	1.2	33.7	37.5	19.3	24.4	136.5	397.1	1.82	773.3	984.0	1,758.3
1991	45.6	36.2	81.8	188.5	71.0	49.3	1.0	21.9	38.6	14.3	11.5	87.1	294.7	7.3	842.3	1,059.0	1,871.4
1992	—	23.5	23.5	177.0	61.2	42.1	0.8	31.9	45.6	14.1	15.2	84.9	298.6	6.7	802.8	1,065.0	1,870.8
1993	(5)	23.6	23.6	175.3	96.7	49.9	0.8	24.0	45.2	14.3	18.5	82.3	331.6	5.7	837.5	1,100.0	1,937.4
1994	—	23.6	23.6	192.7	87.8	48.1	1.9	31.8	47.0	14.7	18.9	80.2	329.1	7.0	832.5	1,008.0	1,840.5

* Liquidated petroleum gases

* "Other" is the "other petroleum products" category described in Appendix A

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

* There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non electric utility

use of biofuels beginning in 1990

R=Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

(5)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 135. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Maryland

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG*	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.07	—	2.17	1.32	0.73	1.03	5.86	2.85	0.38	2.30	2.30	—	2.30
1971	0.40	—	2.21	1.39	0.76	0.98	5.57	2.68	0.59	2.42	2.42	—	2.42
1972	0.19	—	2.19	1.40	0.76	1.04	5.55	3.01	0.54	2.54	2.54	—	2.54
1973	0.19	—	2.36	1.79	0.90	1.01	5.33	3.14	0.64	2.67	2.67	—	2.67
1974	0.78	—	3.23	2.78	1.58	2.06	7.22	4.52	1.63	3.95	3.95	—	3.95
1975	1.86	—	3.48	2.81	2.03	2.35	7.48	4.86	1.61	4.30	4.30	—	4.30
1976	0.95	—	3.59	3.01	2.17	3.07	7.05	5.02	1.62	4.46	4.46	—	4.46
1977	0.67	—	3.97	3.54	2.55	3.41	6.97	5.30	1.60	4.76	4.76	—	4.76
1978	—	—	4.29	3.71	2.83	3.96	7.50	5.39	1.82	4.92	4.92	10.44	4.92
1979	—	—	5.73	5.42	3.95	3.78	10.21	7.02	2.69	6.33	6.33	11.05	6.33
1980	—	—	9.82	7.88	6.48	5.13	14.36	9.95	3.83	8.92	8.92	12.32	8.92
1981	—	—	10.84	8.53	7.61	5.91	18.00	11.09	4.33	9.99	9.99	14.79	9.99
1982	—	—	10.92	7.93	7.18	6.00	17.25	10.36	4.18	9.44	9.44	15.89	9.44
1983	—	—	10.44	8.13	6.44	6.43	19.98	9.38	4.24	8.86	8.86	15.30	8.86
1984	—	—	10.27	8.70	6.16	6.13	17.63	9.00	4.55	8.66	8.66	16.35	8.66
1985	—	—	9.89	8.84	5.98	11.67	17.81	9.80	3.68	8.00	8.00	17.74	9.01
1986	—	—	8.41	6.68	4.01	10.71	15.59	7.55	2.09	7.10	7.10	17.80	7.11
1987	—	—	7.55	7.32	4.01	10.30	12.70	7.60	2.65	7.33	7.33	24.06	7.34
1988	—	—	7.41	7.40	3.75	10.26	14.61	8.18	2.07	7.50	7.50	23.33	7.51
1989	—	—	8.28	7.61	4.38	9.42	14.48	8.64	2.39	8.06	8.06	23.37	8.06
1990	—	—	8.32	8.87	5.47	10.39	14.60	9.89	2.72	9.28	9.28	24.48	9.28
1991	—	—	8.71	8.44	4.78	11.09	16.79	9.66	1.97	8.97	8.97	25.65	8.96
1992	—	—	8.54	8.31	4.49	9.50	19.43	9.74	1.97	9.06	9.06	25.95	9.07
1993	—	3.48	8.24	8.48	4.18	9.32	18.94	9.38	2.02	8.86	8.86	24.27	8.87
1994	—	3.65	7.98	8.55	3.65	6.52	19.18	9.52	2.28	8.90	8.90	25.10	8.91

Expenditures in Million Nominal Dollars													
1970	(a)	—	3.4	32.1	18.1	8.1	9.2	561.2	9.5	623.7	623.7	—	623.7
1971	0.1	—	3.3	31.8	17.4	0.2	10.1	584.2	10.8	657.7	657.7	—	657.8
1972	(a)	—	3.0	35.8	15.4	0.2	11.5	650.7	11.1	727.6	727.6	—	727.6
1973	(a)	—	3.1	55.7	17.9	0.2	10.0	701.2	14.9	802.7	802.7	—	802.7
1974	(a)	—	4.4	84.7	27.0	0.4	13.0	989.0	37.3	1,164.9	1,164.9	—	1,164.9
1975	(a)	—	3.8	85.8	33.5	0.8	13.8	1,104.5	28.5	1,276.4	1,276.4	—	1,276.4
1976	(s)	—	3.6	87.3	36.8	0.7	14.8	1,195.5	33.6	1,372.1	1,372.1	—	1,372.1
1977	(s)	—	4.1	115.2	48.8	0.9	13.1	1,301.8	38.9	1,518.8	1,518.8	—	1,518.8
1978	—	—	3.9	116.7	51.3	1.3	15.3	1,334.4	37.5	1,560.5	1,560.5	0.2	1,560.7
1979	—	—	4.2	138.0	70.9	0.4	21.6	1,634.9	68.4	1,999.3	1,999.3	0.5	1,999.8
1980	—	—	7.9	262.8	125.9	4.5	27.8	2,262.4	108.1	2,805.9	2,805.9	0.8	2,806.7
1981	—	—	7.0	315.1	149.1	1.6	32.6	2,570.6	129.2	3,205.1	3,205.1	1.3	3,206.4
1982	—	—	4.1	244.3	142.6	1.1	28.4	2,395.2	109.9	2,625.5	2,625.5	1.3	2,626.8
1983	—	—	3.8	301.3	135.9	1.3	29.3	2,182.6	49.7	2,684.1	2,684.1	1.2	2,685.3
1984	—	—	3.6	314.9	124.9	1.9	32.4	2,128.3	53.5	2,659.3	2,659.3	2.4	2,661.6
1985	—	—	3.8	371.1	126.7	2.4	36.1	2,252.3	98.9	2,822.4	2,822.4	4.1	2,826.5
1986	—	—	4.3	518.6	86.7	1.4	20.1	1,840.6	15.9	2,283.6	2,283.6	4.2	2,297.7
1987	—	—	3.3	347.8	84.0	1.2	24.0	1,949.1	37.4	2,446.6	2,446.6	5.7	2,452.3
1988	—	—	3.6	383.4	93.7	2.1	28.7	2,092.4	34.2	2,606.0	2,606.0	6.9	2,612.9
1989	—	—	3.5	447.0	107.2	2.0	27.1	2,253.6	36.4	2,877.0	2,877.0	8.2	2,885.2
1990	—	—	3.8	433.3	118.9	1.9	28.1	2,419.8	31.8	3,029.1	3,029.1	7.4	3,036.5
1991	—	—	3.3	422.9	87.6	1.7	28.9	2,413.0	17.0	2,980.6	2,980.6	7.9	2,988.5
1992	—	—	4.1	457.9	76.6	3.5	34.1	2,480.0	20.2	3,089.3	3,089.3	7.8	3,097.1
1993	—	0.1	4.2	465.4	69.9	3.6	33.9	2,429.7	16.4	3,029.4	3,029.4	8.0	3,037.4
1994	—	0.1	2.8	432.5	70.3	3.0	36.9	2,519.6	14.2	3,078.2	3,078.2	9.1	3,087.4

* Liquefied petroleum gases

R- Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

(a)-Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 136. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Maryland

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Bioduels	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.30	0.32	0.44	0.48	—	0.44	—	—	0.40
1971	0.32	0.35	0.60	0.72	—	0.64	—	—	0.56
1972	0.54	0.37	0.63	0.62	—	0.65	—	—	0.58
1973	0.56	0.43	0.73	1.10	—	0.75	—	—	0.68
1974	1.21	0.81	1.04	1.95	—	1.05	—	—	1.56
1975	1.30	1.16	1.85	2.16	—	1.85	0.23	—	1.36
1976	1.75	1.62	1.80	2.31	—	1.82	0.22	—	1.77
1977	1.20	2.08	2.14	2.67	—	2.15	0.31	—	1.79
1978	1.35	1.85	2.00	2.78	—	2.03	0.36	—	1.29
1979	1.44	1.76	3.02	4.17	—	3.08	0.42	—	1.57
1980	1.54	2.59	4.21	5.97	—	4.41	0.44	—	1.68
1981	1.81	2.78	5.04	7.30	—	5.28	0.46	—	1.79
1982	1.92	4.10	4.58	7.01	—	4.83	0.47	—	1.78
1983	1.75	4.40	4.82	5.90	—	4.71	0.53	—	1.65
1984	1.78	3.53	4.71	5.85	—	4.89	0.58	1.28	1.68
1985	1.75	3.73	4.82	5.53	—	4.22	0.59	0.79	1.65
1986	1.67	2.74	2.25	3.39	—	2.41	0.58	0.32	1.32
1987	1.58	2.68	3.08	3.81	—	3.17	0.48	0.95	1.43
1988	1.58	2.60	2.53	3.49	—	2.46	0.48	0.87	1.35
1989	1.61	2.60	2.72	4.12	—	2.86	0.52	1.27	1.83
1990	1.68	2.45	3.18	5.28	—	3.28	0.61	—	1.86
1991	1.63	2.28	2.17	4.44	—	2.32	0.50	—	1.46
1992	1.60	2.55	2.19	4.30	—	2.37	0.45	—	1.35
1993	1.60	2.68	2.21	3.94	—	2.34	0.53	—	1.36
1994	1.55	2.47	2.37	3.64	—	2.55	0.52	—	1.40
Expenditures in Million Nominal Dollars									
1970	57.3	3.6	27.4	2.6	—	36.0	—	—	91.0
1971	68.5	3.3	52.7	6.5	—	59.2	—	—	131.1
1972	62.2	2.6	83.0	8.1	—	91.7	—	—	153.9
1973	88.1	3.8	110.8	9.1	—	120.0	—	—	176.8
1974	117.4	8.1	299.0	27.3	—	328.3	—	—	451.9
1975	122.7	0.5	289.3	8.7	—	218.9	11.3	—	352.5
1976	143.2	0.4	192.8	7.8	—	200.6	15.4	—	359.5
1977	128.3	0.7	221.9	8.7	—	230.6	36.9	—	396.5
1978	160.1	1.0	238.3	12.1	—	250.3	39.1	—	450.5
1979	180.9	18.6	267.3	14.6	—	261.6	44.2	—	531.5
1980	224.9	13.4	215.5	38.9	—	254.1	52.5	—	544.9
1981	230.5	16.8	206.0	35.3	—	243.3	58.4	—	549.0
1982	274.8	3.9	170.8	30.6	—	201.5	54.3	—	634.5
1983	275.2	8.1	158.1	31.5	—	188.6	67.3	—	540.2
1984	339.6	4.7	142.4	32.9	—	175.3	72.8	0.6	593.0
1985	311.4	5.2	128.7	28.7	—	156.4	82.8	0.1	536.2
1986	338.8	6.4	60.3	14.7	—	75.1	77.3	0.1	495.4
1987	328.9	32.9	83.8	17.6	—	101.7	53.2	0.5	517.2
1988	381.6	14.4	67.8	17.4	—	108.3	62.1	0.5	544.1
1989	371.2	52.1	178.1	30.1	—	208.2	15.1	0.2	545.8
1990	375.2	44.7	121.5	18.4	—	139.8	11.2	—	568.0
1991	361.0	37.9	96.5	14.3	—	110.8	48.2	—	559.0
1992	385.9	30.6	64.0	11.5	—	75.5	51.6	—	524.0
1993	386.3	26.5	87.0	13.6	—	110.5	68.6	—	584.9
1994	387.0	32.7	97.9	23.3	—	121.2	62.7	—	603.6

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
 —No consumption.

Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 137. Energy Price and Expenditure Estimates by Source, 1970-1994, Massachusetts

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum						Nuclear Fuel	Biofuels	Total ^d				
	Colony Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b				Total			
Prices in Nominal Dollars per Million Btu																	
1970	—	0.65	0.65	1.55	1.34	0.75	2.31	2.85	0.20	R 1.53	1.34	0.20	—	1.35	0.37	7.29	1.98
1971	—	0.64	0.64	1.70	1.42	0.79	2.29	2.93	0.65	R 1.73	1.41	0.19	—	1.42	0.68	7.90	2.10
1972	—	1.03	1.03	1.85	1.43	0.79	2.25	2.87	0.67	R 1.89	1.41	0.20	—	1.45	0.65	8.26	2.17
1973	—	1.44	1.44	1.97	1.67	0.94	2.79	3.12	0.75	R 1.87	1.60	0.21	—	1.58	0.65	8.88	2.42
1974	—	1.44	1.44	2.33	2.58	1.61	3.41	4.38	1.95	R 2.64	2.75	0.22	—	2.62	1.71	12.84	3.71
1975	—	1.57	1.57	2.86	2.74	2.19	3.74	4.79	3.85	R 3.37	2.95	0.19	—	2.83	1.88	13.83	4.18
1976	—	2.08	2.08	3.30	2.92	2.29	4.20	4.68	1.84	R 3.42	2.98	0.23	—	2.94	1.62	14.48	4.34
1977	—	2.37	2.37	3.58	3.20	2.64	4.39	5.21	2.14	R 3.56	3.33	0.26	—	3.28	1.88	15.41	4.77
1978	—	2.35	2.35	3.74	3.41	2.97	4.67	5.15	1.94	R 3.92	3.32	0.28	—	3.23	1.93	15.58	4.93
1979	—	2.12	2.12	4.04	4.06	3.88	5.70	6.99	2.82	R 3.96	4.74	0.32	—	4.41	2.35	17.07	5.63
1980	—	2.83	2.83	4.88	4.87	6.51	6.62	8.89	3.89	R 5.19	6.89	0.41	—	5.09	3.41	21.13	6.88
1981	—	2.58	2.58	5.90	5.90	7.80	8.98	10.86	4.74	R 5.99	7.89	0.44	—	7.19	3.97	25.53	10.84
1982	—	2.63	2.63	6.58	6.27	7.51	8.28	10.07	4.25	R 6.05	7.65	0.50	—	6.70	3.30	24.82	10.28
1983	—	2.29	2.29	8.94	R 6.70	R 6.67	8.03	9.28	4.28	R 6.23	R 7.40	0.56	—	R 6.47	3.54	25.05	R 10.45
1984	—	2.20	2.20	6.53	R 6.22	R 6.42	9.33	8.85	4.88	R 6.75	R 7.35	1.05	—	R 6.00	3.82	28.23	R 10.35
1985	—	2.03	2.03	6.28	R 6.60	6.04	11.77	8.78	4.84	R 6.86	R 7.27	0.80	—	R 6.21	2.74	34.34	R 10.88
1986	—	1.81	1.81	6.35	R 5.93	4.18	10.13	7.25	2.31	R 5.66	R 5.12	0.88	—	R 4.94	2.03	32.70	R 8.38
1987	—	1.65	1.65	5.25	R 5.82	4.12	11.08	7.59	2.77	R 5.92	R 5.08	0.82	—	R 5.09	2.28	33.46	R 8.79
1988	—	1.86	1.86	5.48	R 5.88	4.02	11.01	7.90	2.27	R 5.57	R 5.65	0.86	—	R 5.11	2.04	32.86	8.86
1989	—	1.64	1.64	5.33	R 5.54	4.81	12.00	8.50	2.64	R 5.16	R 5.10	0.70	—	5.40	2.18	24.39	9.45
1990	—	1.77	1.77	5.55	R 5.55	5.89	12.12	8.53	2.88	R 5.99	7.13	0.82	R 2.28	R 5.94	2.18	28.83	R 10.36
1991	—	1.75	1.75	5.68	R 5.50	5.00	13.73	10.01	2.21	R 6.02	6.07	0.81	2.23	R 5.65	1.85	27.94	R 10.64
1992	—	1.74	1.74	5.66	R 5.93	4.53	11.48	9.83	2.33	R 5.76	6.84	0.50	2.22	R 5.61	1.90	28.31	R 10.36
1993	—	1.71	1.71	6.10	R 6.83	4.38	R 10.33	R 9.47	2.67	R 5.74	R 6.03	0.48	2.18	R 5.96	1.97	29.24	R 10.27
1994	—	1.70	1.70	6.48	8.74	4.08	10.15	8.56	2.59	8.71	7.00	0.49	2.11	6.15	1.83	29.32	10.52

Expenditures in Million Nominal Dollars																	
1970	—	11.7	11.7	254.1	461.9	38.8	15.3	743.8	230.8	R 71.6	1,537.4	2.7	—	1,786.8	-112.6	672.8	2,286.3
1971	—	8.4	8.4	267.5	509.8	38.4	15.8	791.3	341.5	R 75.9	1,762.5	2.9	—	2,041.3	-105.7	711.1	2,587.3
1972	—	7.9	7.9	298.5	534.2	40.0	16.3	805.5	368.1	R 80.0	1,850.2	3.2	—	2,160.4	-212.3	799.7	2,748.2
1973	—	7.4	7.4	309.4	629.2	47.9	22.3	912.3	409.8	R 79.4	2,085.0	11.8	—	2,433.0	-226.6	907.2	3,104.1
1974	—	38.1	38.1	364.2	901.6	75.0	28.2	1,250.0	847.1	R 105.1	3,294.9	7.1	—	3,614.2	-511.0	1,273.3	4,376.5
1975	—	36.5	36.5	441.3	984.7	88.8	32.2	1,387.3	808.8	R 97.8	3,386.6	7.8	—	3,822.8	-684.9	1,401.8	4,988.8
1976	—	8.2	8.2	517.0	1,080.2	104.2	39.8	1,444.6	881.4	R 116.0	3,837.2	8.4	—	4,171.8	-544.5	1,542.0	5,180.4
1977	—	9.5	9.5	672.8	1,170.1	131.0	47.5	1,557.7	960.4	R 124.2	3,980.8	8.1	—	4,561.2	-639.0	1,655.8	5,595.9
1978	—	7.4	7.4	804.2	1,188.0	142.5	47.7	1,555.3	861.5	R 136.7	3,901.8	17.2	—	4,530.7	-602.9	1,716.6	5,843.4
1979	—	8.8	8.8	835.1	1,253.5	196.8	46.8	2,037.4	1,019.3	R 178.9	4,730.6	21.0	—	5,308.8	-849.8	1,916.1	6,464.8
1980	—	46.4	46.4	981.9	1,894.7	218.8	84.7	2,688.1	1,388.5	R 244.7	6,042.8	14.3	—	7,088.4	-1,181.4	2,388.4	8,212.4
1981	—	68.7	68.7	1,083.0	1,886.4	282.5	68.2	2,971.5	1,474.2	R 312.2	6,762.1	20.8	—	7,335.5	-1,321.0	2,975.7	9,590.1
1982	—	226.7	226.7	1,303.4	1,837.8	312.6	84.4	2,747.1	1,129.0	R 274.5	6,084.4	23.2	—	7,617.7	-1,130.9	2,988.7	9,390.5
1983	—	221.5	221.5	1,356.8	R 1,486.5	R 883.1	70.8	2,582.3	943.0	R 298.0	R 5,583.6	37.2	—	R 7,186.2	-1,081.4	3,077.4	R 9,195.3
1984	—	255.0	255.0	1,397.1	R 1,605.5	R 250.5	57.8	2,506.1	1,101.4	R 258.8	R 5,779.1	11.6	—	R 7,443.4	-1,187.1	3,333.5	R 9,890.0
1985	—	223.8	223.8	1,385.1	R 1,644.8	238.4	72.9	2,843.9	985.4	R 281.4	R 5,678.6	38.6	—	R 7,338.4	-1,011.3	3,484.2	R 9,489.3
1986	—	180.9	180.9	1,203.3	R 1,229.3	183.4	84.0	2,147.8	721.3	R 210.8	R 4,556.5	23.1	—	R 5,863.5	-686.3	3,101.9	R 8,367.4
1987	—	185.2	185.2	1,215.6	R 1,261.4	182.9	108.6	2,284.5	801.8	R 205.6	R 4,722.8	11.3	—	R 6,145.0	-782.8	3,382.0	R 8,754.1
1988	—	194.2	194.2	1,174.4	R 1,254.7	212.1	95.4	2,465.8	848.5	R 187.3	R 4,773.7	11.5	—	R 6,153.8	-704.3	3,488.0	R 8,936.5
1989	—	198.4	198.4	1,367.2	R 1,338.0	200.8	113.4	2,801.2	633.1	R 197.3	R 5,343.7	22.7	—	R 6,532.0	-682.6	3,801.0	R 9,370.2
1990	—	280.4	280.4	1,478.7	R 1,589.4	323.3	115.8	2,788.3	891.2	R 287.3	R 5,885.5	33.6	43.4	R 7,342.5	-881.1	4,021.1	R 10,562.5
1991	—	204.7	204.7	1,470.6	R 1,450.7	264.2	95.2	2,864.3	424.7	R 290.2	R 5,368.4	29.0	49.4	R 7,058.0	-881.1	4,271.0	R 10,888.9
1992	—	193.2	193.2	1,720.9	R 1,416.2	206.1	77.8	2,884.4	401.8	R 284.4	R 5,182.7	25.5	47.2	R 7,179.5	-825.3	4,343.0	R 10,886.2
1993	—	188.5	188.5	1,984.2	R 1,457.4	190.6	R 78.3	R 2,786.9	393.8	R 218.9	R 5,127.9	22.7	49.0	R 7,332.4	-582.5	4,518.0	R 11,287.6
1994	—	170.8	170.8	2,222.9	1,388.3	171.9	75.8	2,953.0	343.1	210.2	5,040.3	20.0	49.8	7,503.0	-534.0	4,811.0	11,690.0

^a Liquefied petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.

R-Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 138. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Massachusetts

Year	Primary Energy						Total ^a	Electricity	Total Energy ^c
	Coal	Natural Gas	Petroleum			Total ^b			
			Distillate Fuel	Kerosene	LPG ^a				
1966	1.06	1.80	1.49	1.62	3.04	1.82	1.61	8.84	2.24
1967	1.56	2.03	1.67	1.66	3.03	1.59	1.72	9.16	2.43
1968	1.58	2.26	1.58	1.69	3.12	1.60	1.77	9.52	2.53
1969	1.63	2.37	1.81	1.94	4.47	1.85	1.88	10.03	2.83
1970	2.19	2.66	2.67	3.01	4.64	2.70	2.69	13.06	3.91
1971	2.62	3.14	2.86	3.35	4.82	3.49	3.23	18.30	4.22
1972	2.64	3.52	3.64	3.75	5.22	3.58	3.23	15.70	4.46
1973	3.12	3.92	3.41	3.75	5.47	3.45	3.56	16.31	4.89
1974	3.68	4.13	3.62	4.01	5.81	3.57	3.72	16.67	5.12
1975	3.64	4.51	3.53	4.33	6.34	3.16	4.94	18.14	6.78
1976	4.47	5.23	4.08	5.33	6.30	2.10	6.34	22.18	8.45
1977	6.40	6.27	6.75	10.54	9.65	9.79	7.60	26.93	10.85
1978	5.46	7.36	6.46	10.79	10.76	8.89	8.00	29.25	10.86
1979	5.02	8.16	6.26	9.38	11.45	8.36	8.24	27.00	11.50
1980	4.78	8.45	6.35	9.33	11.36	8.54	8.08	27.82	11.44
1981	4.39	7.65	6.10	8.94	11.43	8.34	7.63	26.18	11.65
1982	4.10	7.23	6.22	8.66	9.01	6.33	6.75	24.38	9.81
1983	3.85	6.45	6.10	8.73	10.88	6.32	6.37	26.53	9.82
1984	3.89	6.26	6.22	8.86	10.85	4.43	6.34	24.86	9.86
1985	3.96	6.31	7.01	7.74	12.36	6.49	4.77	26.51	10.65
1986	4.21	7.58	6.31	9.06	13.36	6.49	4.78	30.47	11.43
1987	4.07	7.81	7.00	8.61	14.73	8.11	4.78	31.12	11.72
1988	3.94	7.83	7.00	7.72	12.29	7.21	4.78	32.25	11.96
1989	3.95	8.02	6.79	7.50	10.30	6.94	4.78	32.25	11.19
1990	4.07	8.73	6.69	7.27	10.76	6.77	4.78	32.48	11.59

Year	Expenditures in Million Monetary Dollars								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG ^a	Total ^b			
							Prices in Monthly Dollars per Million Btu		
1966	2.6	158.8	334.9	18.2	10.7	356.9	530.1	273.7	793.8
1967	3.6	178.8	366.7	13.6	10.8	394.0	671.4	318.6	990.1
1968	2.8	167.3	330.2	14.5	12.3	407.0	607.2	386.2	993.4
1969	3.5	201.7	439.8	11.6	18.2	469.2	671.1	400.9	1,072.0
1970	3.9	231.7	607.1	10.9	16.4	634.4	869.6	544.7	1,414.3
1971	3.5	284.4	844.7	14.9	18.6	837.7	1,041.2	568.7	1,601.2
1972	3.2	346.4	734.5	13.2	20.6	769.3	1,107.9	601.2	1,708.2
1973	3.6	388.2	792.6	14.8	23.7	832.8	1,332.8	624.8	1,957.7
1974	3.4	361.5	731.1	10.4	24.1	815.3	1,180.5	1,819.9	2,999.8
1975	3.4	369.1	762.3	13.1	19.6	816.2	1,186.1	1,808.4	3,094.5
1976	3.2	372.9	812.9	14.8	22.3	874.1	1,487.2	2,062.9	3,550.1
1977	3.2	381.8	802.8	10.8	25.9	965.2	1,614.1	1,673.7	3,287.8
1978	3.8	618.0	840.8	31.2	27.7	953.2	1,859.4	2,775.7	4,635.1
1979	6.1	736.3	698.3	6.7	38.1	1,061.3	1,961.3	1,145.6	3,106.9
1980	11.6	764.3	639.5	11.1	36.1	888.7	1,702.7	1,205.6	2,908.2
1981	7.2	765.7	647.5	28.3	42.1	894.2	1,692.1	1,151.9	2,844.0
1982	7.3	689.5	689.5	18.5	37.3	728.3	1,488.8	1,131.8	2,620.5
1983	3.1	699.2	660.3	20.2	54.1	734.6	1,433.9	1,280.4	2,714.3
1984	3.2	702.6	671.1	11.7	63.4	735.2	1,422.2	1,317.0	2,739.2
1985	2.7	789.5	638.4	11.9	75.7	825.0	1,738.2	1,137.0	2,875.2
1986	3.1	835.2	634.6	8.4	63.8	900.0	1,769.9	1,386.8	3,156.3
1987	1.5	835.0	758.6	7.4	55.4	926.6	1,847.7	1,596.0	3,443.7
1988	2.4	847.8	765.6	11.4	64.3	932.2	1,816.8	1,632.0	3,448.8
1989	1,099.6	1,099.6	612.0	10.6	60.9	973.5	1,920.7	1,337.0	3,257.7
1990	1.3	1,069.6	769.3	9.0	64.3	921.6	1,927.1	1,779.0	3,706.1

^a Liquid petroleum gases

^b Commercial sector prices and expenditures for wood and waste are included in the residential sector

^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy

^d There is a discrepancy in the late series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

Revised data

—No conclusion

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Expenditures in Million Monetary Dollars

1970	2.6	158.8	334.9	13.3	10.7	354.9	530.1	273.7	798.6
1971	3.6	178.3	366.7	13.6	10.8	381.0	571.4	319.9	890.1
1972	3.6	187.3	350.2	14.5	12.3	407.0	607.2	368.2	975.4
1973	3.3	201.7	438.8	15.2	18.2	468.2	671.1	400.9	1,072.0
1974	3.3	231.7	507.1	16.4	18.4	534.4	689.0	544.7	1,414.3
1975	3.3	264.4	643.7	18.4	18.4	637.7	943.4	586.2	1,691.2
1976	3.2	346.4	725.5	20.6	20.6	768.3	1,107.9	601.2	1,708.2
1977	3.3	386.8	792.6	23.7	23.7	850.8	1,302.8	624.8	1,927.6
1978	3.4	391.5	731.1	24.1	19.8	815.5	1,180.5	639.4	1,819.9
1979	2.6	396.1	762.3	13.1	19.8	815.2	1,186.1	708.9	1,892.9
1980	5.2	511.8	802.8	14.8	22.3	874.1	1,487.2	874.7	2,362.9
1981	8.8	618.0	882.6	10.8	25.9	989.2	1,314.1	1,073.7	2,387.8
1982	8.8	618.0	882.6	31.2	27.7	989.2	1,314.1	1,073.7	2,387.8
1983	8.8	764.3	846.0	6.7	39.1	989.2	1,314.1	1,073.7	2,387.8
1984	11.6	796.4	889.6	11.1	35.1	989.2	1,314.1	1,073.7	2,387.8
1985	7.2	765.7	847.6	28.3	42.1	989.2	1,314.1	1,073.7	2,387.8
1986	4.1	765.4	669.5	19.6	37.3	724.6	1,488.8	1,181.0	2,670.0
1987	3.1	696.2	692.3	20.2	54.1	724.6	1,488.8	1,181.0	2,670.0
1988	3.2	708.8	671.1	11.7	53.4	724.6	1,488.8	1,181.0	2,670.0
1989	2.7	789.5	638.4	11.9	75.7	596.0	1,729.2	1,317.0	3,046.2
1990	2.1	835.2	638.4	8.4	63.8	606.6	1,729.2	1,317.0	3,046.2
1991	1.5	539.0	758.6	7.4	65.4	829.6	1,897.7	1,596.8	3,494.5
1992	2.4	765.6	847.6	11.4	64.9	852.2	1,816.8	1,532.0	3,348.8
1993	2.1	1,009.8	812.0	10.8	65.0	873.3	1,920.7	1,737.0	3,657.7
1994	1.3	1,089.8	768.2	9.0	64.3	861.6	1,927.1	1,770.0	3,706.1

Table 139. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Massachusetts

Year	Primary Energy							Total	Electricity	Total Energy ^a
	Coal	Natural Gas	Distillate Fuel	Kerosene	Petroleum		Total			
					LPG ^b	Motor Gasoline				
Prices in Nominal Dollars per Million Btu										
1970	0.89	1.40	1.10	0.81	1.84	2.86	0.37	8.72	6.83	1.64
1971	0.82	1.36	1.17	0.85	1.41	2.83	0.64	0.90	1.02	1.95
1972	1.04	1.69	1.17	0.85	1.44	2.87	0.65	0.82	1.06	2.08
1973	1.28	1.79	1.41	1.10	1.43	3.12	0.71	1.06	1.20	2.82
1974	2.62	2.64	2.27	2.43	2.28	4.38	1.91	2.11	2.11	3.83
1975	1.63	3.04	2.62	2.68	3.47	4.68	1.78	2.27	2.43	4.74
1976	2.04	3.41	2.96	2.96	3.39	5.21	2.11	2.65	2.82	5.35
1977	1.80	3.31	3.03	3.14	3.89	5.15	1.85	2.65	3.87	5.59
1978	1.56	3.80	4.56	4.28	4.62	6.99	2.84	4.07	3.06	7.61
1979	1.67	4.68	6.16	6.12	6.32	8.69	3.81	5.37	3.84	9.34
1980	1.89	5.33	6.03	7.31	5.83	10.86	4.72	6.87	6.21	12.30
1981	2.01	6.26	7.78	7.73	7.02	10.07	4.16	6.22	6.18	11.47
1982	1.97	7.27	7.17	7.44	7.46	9.28	4.21	6.29	6.04	13.29
1983	2.38	7.01	7.04	8.25	7.30	8.93	4.88	6.25	6.48	13.53
1984	2.39	8.86	6.72	7.51	12.37	9.18	4.81	6.36	6.30	12.89
1985	2.11	6.49	4.57	7.44	11.26	7.26	2.48	6.98	6.49	11.26
1986	2.35	5.75	4.12	5.48	11.25	7.55	2.93	6.30	6.46	11.79
1987	2.51	5.83	4.51	5.33	11.10	7.90	2.35	6.80	6.43	11.82
1988	2.57	5.67	4.36	5.98	10.49	8.62	2.89	6.45	6.53	11.58
1989	2.62	5.14	4.38	6.81	10.00	8.33	3.05	6.08	6.51	12.63
1990	2.65	5.34	4.73	6.14	11.94	10.01	2.78	6.35	6.53	12.43
1991	2.67	5.85	5.33	5.82	9.95	9.83	2.27	6.34	6.49	12.59
1992	2.33	5.82	5.16	6.04	10.02	9.47	2.46	6.46	6.50	13.47
1993	2.20	6.86	5.20	6.22	9.83	9.55	2.51	6.36	5.78	13.40

Year	Expenditures in Million Nominal Dollars							Total	Electricity	Total Energy ^a
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG ^b	Motor Gasoline	Residual Fuel			
1970	1.7	30.3	64.4	0.6	1.5	36.0	36.0	176.2	214.2	390.4
1971	1.0	33.1	35.0	0.6	1.8	55.7	57.8	153.7	252.1	465.8
1972	1.3	53.0	96.2	0.6	1.8	62.7	133.6	185.2	233.0	508.5
1973	1.6	71.1	119.4	0.5	2.4	103.6	183.6	318.7	401.3	659.9
1974	2.4	180.3	187.5	0.7	2.7	106.8	307.4	507.4	460.8	859.5
1975	2.6	180.1	216.2	0.8	2.9	107.9	332.4	460.3	460.3	854.2
1976	1.8	189.2	241.2	0.8	3.1	114.5	362.5	483.7	483.7	1,079.6
1977	1.1	181.5	248.9	0.7	5.1	86.2	385.7	486.3	486.3	1,212.1
1978	0.6	179.3	243.1	0.8	7.0	67.5	380.6	448.0	448.0	1,299.2
1979	2.0	282.5	278.8	1.0	8.2	118.3	487.5	682.8	682.8	1,845.4
1980	2.8	287.0	269.9	0.4	11.8	53.5	377.5	667.4	667.4	1,862.9
1981	3.0	303.2	340.2	1.2	15.9	110.5	375.4	772.5	772.5	1,988.9
1982	3.4	284.2	327.4	1.3	9.4	64.6	328.9	847.1	847.1	2,048.7
1983	7.1	286.2	322.0	0.8	7.6	102.2	343.8	846.5	846.5	2,048.7
1984	3.9	231.5	323.3	4.8	8.0	85.4	330.8	846.5	846.5	1,985.4
1985	1.9	250.4	317.5	0.9	7.2	53.0	324.1	700.6	700.6	1,970.4
1986	1.9	276.4	317.1	1.6	7.7	52.4	338.6	750.0	750.0	1,939.1
1987	2.1	286.9	317.2	2.1	9.8	55.4	329.2	750.0	750.0	1,939.1
1988	1.9	302.4	324.7	2.1	10.8	55.4	329.2	750.0	750.0	1,939.1
1989	2.2	321.4	324.7	5.8	9.4	87.8	337.1	846.5	846.5	2,057.5
1990	0.6	328.2	324.0	7.0	8.6	65.4	345.4	846.5	846.5	2,057.5
1991	2.2	377.1	320.6	2.4	7.6	52.8	329.2	846.5	846.5	2,057.5
1992	1.2	396.2	320.2	3.8	8.6	40.1	345.4	846.5	846.5	2,057.5
1993	0.5	570.5	189.1	3.5	8.8	47.3	345.4	907.8	907.8	2,704.9

^a Liquid petroleum gases^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

Referenced data

Note: Expenditure totals may not equal sum of components due to independent rounding. Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 140. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Massachusetts

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum										Total ^c		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^d	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total	Electricity ^c			
Prices in Nominal Dollars per Million Btu																	
1970	—	8.89	8.89	1.03	0.63	4.74	0.81	1.54	5.88	2.88	4.42	1.86	8.89	—	8.89	4.89	1.08
1971	—	0.82	0.82	1.06	0.86	0.79	0.85	1.41	5.27	2.83	0.88	1.88	0.82	—	0.82	5.36	1.30
1972	—	1.04	1.04	1.22	0.80	0.79	0.85	1.44	5.58	2.87	0.88	1.87	0.82	—	0.82	5.83	1.38
1973	—	1.26	1.26	1.28	0.84	1.01	1.10	1.40	5.23	3.12	0.81	2.08	0.96	—	1.00	6.24	1.57
1974	—	1.73	1.73	1.69	1.44	2.24	2.43	2.36	7.32	4.38	1.98	2.79	2.10	—	2.04	8.96	2.90
1975	—	2.82	2.82	2.38	1.86	2.38	2.82	3.84	7.48	4.78	2.88	3.28	2.25	—	3.28	11.21	3.43
1976	—	1.83	1.83	2.48	2.05	2.48	2.68	3.47	7.06	4.88	1.88	3.54	2.27	—	2.29	11.70	3.52
1977	—	2.04	2.04	2.58	2.08	2.78	2.98	3.58	6.97	5.21	2.23	3.73	2.53	—	2.53	12.71	3.94
1978	—	1.80	1.80	2.88	2.28	2.81	3.14	3.89	7.80	5.15	2.16	3.94	2.80	—	2.86	12.84	4.17
1979	—	1.56	1.56	3.28	2.68	4.84	4.28	4.82	10.21	6.98	3.94	5.41	3.83	—	3.87	14.07	3.79
1980	—	1.87	1.87	4.88	3.73	5.59	6.12	5.52	14.38	8.88	4.14	6.88	5.92	—	6.28	18.21	8.48
1981	—	1.89	1.89	6.01	8.00	6.84	7.51	5.85	18.08	10.86	4.98	9.98	6.81	—	8.23	22.08	9.72
1982	—	2.01	2.01	5.85	4.08	6.77	7.73	7.02	17.26	10.67	4.71	9.82	6.21	—	5.89	20.74	9.40
1983	—	1.97	1.97	5.56	4.25	6.84	7.44	7.46	16.88	9.28	4.57	9.29	6.18	—	5.86	21.54	9.42
1984	—	2.38	2.38	6.36	4.64	^R 7.27	^R 8.25	7.38	17.83	8.85	4.88	9.81	^R 6.30	—	5.91	22.03	^R 9.35
1985	—	2.38	2.38	8.24	5.21	^R 6.82	^R 7.57	12.27	17.81	8.18	4.81	9.36	^R 6.88	—	5.84	28.47	^R 8.88
1986	—	2.11	2.11	4.86	4.67	^R 4.35	^R 4.94	11.25	15.59	7.25	2.46	6.58	^R 5.88	—	^R 3.83	19.18	^R 6.85
1987	—	2.25	2.25	4.13	3.87	^R 4.84	^R 5.48	11.28	12.70	7.58	2.83	7.32	^R 4.98	—	^R 4.58	20.32	^R 7.61
1988	—	2.51	2.51	3.91	3.38	^R 4.78	^R 5.33	11.48	14.61	7.58	2.36	6.31	^R 4.61	—	4.32	19.94	^R 8.28
1989	—	2.57	2.57	3.88	3.20	^R 6.00	5.88	18.43	14.48	8.58	2.80	7.21	^R 4.98	—	^R 4.54	21.40	^R 8.88
1990	—	2.82	2.82	4.88	3.38	^R 6.71	^R 7.81	18.88	14.88	9.88	3.88	7.48	^d 4.41	^d 4.41	^d 4.77	23.14	^d 9.48
1991	—	2.85	2.85	3.84	3.05	^R 6.41	^R 6.14	11.94	16.79	18.01	2.28	^R 6.87	^R 5.40	1.48	^R 4.25	24.88	^R 9.87
1992	—	2.67	2.67	3.99	2.79	^R 5.13	^R 5.82	9.98	19.43	9.83	2.27	^R 7.55	^R 5.51	1.41	^R 4.27	25.20	^R 9.30
1993	—	2.33	2.33	4.88	3.30	^R 5.32	^R 6.04	18.02	18.94	^R 6.47	2.48	^R 6.84	^R 4.88	1.37	^R 4.83	25.38	^R 9.03
1994	—	2.23	2.23	5.12	3.85	5.43	6.18	18.75	19.18	9.55	2.51	6.82	5.30	1.31	4.80	24.61	8.43
Expenditures in Million Nominal Dollars																	
1970	—	3.2	3.2	28.5	12.8	18.6	3.6	4.9	15.6	1.7	68.1	11.2	187.8	—	184.3	129.4	277.7
1971	—	1.5	1.5	27.5	16.2	13.5	3.3	3.8	14.3	1.6	182.3	10.8	165.4	—	194.4	137.9	322.2
1972	—	2.9	2.9	35.7	15.2	14.1	2.1	4.8	16.2	1.8	180.7	11.8	188.2	—	284.6	158.0	382.8
1973	—	2.0	2.0	33.4	17.5	18.2	1.4	5.0	16.1	2.4	125.8	13.7	198.8	—	234.7	170.3	414.0
1974	—	3.2	3.2	41.7	25.4	35.8	3.9	8.0	20.8	2.7	242.2	18.7	357.5	—	482.5	286.1	688.6
1975	—	8.8	8.8	58.8	23.7	38.5	3.4	11.8	18.8	3.8	285.3	18.8	388.1	—	588.8	288.3	888.3
1976	—	3.2	3.2	50.6	27.9	48.4	4.9	18.4	18.8	1.8	218.3	30.8	332.2	—	488.1	310.6	716.9
1977	—	3.7	3.7	58.7	28.3	45.5	5.4	28.0	18.0	3.2	211.8	35.4	384.1	—	427.6	344.6	772.4
1978	—	2.9	2.9	78.3	28.0	43.6	5.5	28.0	18.7	2.4	177.8	42.7	338.8	—	420.0	395.1	775.1
1979	—	3.1	3.1	68.1	25.7	57.4	7.9	24.4	28.2	4.0	124.2	83.2	339.8	—	412.2	485.5	817.5
1980	—	4.8	4.8	128.2	38.8	81.5	12.8	38.8	32.8	4.8	88.3	188.8	387.7	—	481.8	527.3	988.3
1981	—	2.8	2.8	153.7	55.4	88.9	9.8	35.7	38.5	4.3	147.1	136.2	518.1	—	674.6	675.0	1,348.6
1982	—	4.4	4.4	109.6	41.8	82.8	10.1	32.2	34.5	6.1	163.7	184.8	474.4	—	586.3	612.6	1,200.8
1983	—	5.5	5.5	188.3	31.8	53.0	1.6	38.1	36.4	2.0	185.8	184.3	412.8	—	616.8	684.8	1,280.8
1984	—	8.3	8.3	294.8	33.8	^R 57.8	0.9	15.9	38.4	6.1	224.2	117.2	^R 484.4	—	^R 703.8	712.2	^R 1,417.7
1985	—	18.4	18.4	177.8	38.4	^R 68.2	^R 2.2	18.8	38.7	17.7	227.8	188.8	^R 481.2	—	^R 688.8	888.8	^R 1,328.8
1986	—	5.9	5.9	118.7	38.0	^R 38.7	^R 1.0	38.0	31.8	14.4	218.0	88.3	^R 438.1	—	^R 583.7	638.5	^R 1,197.2
1987	—	9.8	9.8	145.1	35.8	^R 108.9	^R 1.3	48.5	39.3	15.5	181.4	77.8	^R 438.4	—	^R 584.3	688.2	^R 1,288.5
1988	—	8.9	8.9	127.3	28.8	^R 67.1	1.5	38.0	32.4	17.3	54.2	65.4	^R 307.8	—	^R 443.6	687.6	^R 1,148.8
1989	—	7.3	7.3	144.8	30.3	^R 74.8	1.8	24.6	33.0	21.2	57.9	72.8	^R 315.8	—	^R 487.7	788.0	^R 1,225.7
1990	—	4.8	4.8	183.5	28.8	^R 85.8	0.6	38.1	34.2	28.8	88.8	82.5	^R 341.8	^d 12.4	^d 442.4	882.8	^d 1,344.4
1991	—	5.8	5.8	218.5	40.0	^R 97.7	0.6	17.4	35.2	17.4	38.2	^R 73.8	^R 482.4	13.8	^R 480.3	835.0	^R 1,315.2
1992	—	10.3	10.3	283.4	28.0	^R 56.5	^R 8.0	13.4	41.5	17.3	31.0	^R 84.1	^R 274.9	12.8	^R 581.5	831.0	^R 1,422.5
1993	—	6.7	6.7	480.9	31.8	^R 43.5	0.5	18.6	41.2	^R 8.7	54.7	^R 78.6	^R 273.7	13.7	^R 775.0	832.0	^R 1,605.9
1994	—	3.8	3.8	487.2	21.5	36.5	0.8	10.1	43.8	17.4	43.1	75.5	287.3	14.4	782.6	822.0	1,574.6

^a Liquidated petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.^e R-Adjusted data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 141. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Massachusetts

Year	Primary Energy										Total	Electricity	Total Energy
	Coal	Natural Gas	Petroleum										
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
										Total			
Prices in Nominal Dollars per Million Btu													
1970	8.88	—	2.17	1.35	8.75	1.54	5.08	2.88	8.34	2.37	2.37	5.68	2.38
1971	0.62	—	2.21	1.40	0.79	1.41	5.27	2.93	0.59	2.43	2.43	8.18	2.44
1972	1.04	—	2.19	1.50	0.78	1.44	5.50	2.97	0.62	2.42	2.42	8.88	2.42
1973	1.26	—	2.38	1.80	0.93	1.40	5.93	3.12	0.66	2.65	2.65	7.36	2.60
1974	1.73	—	3.23	2.73	1.61	2.36	7.22	4.36	1.76	3.67	3.67	13.02	3.68
1975	2.62	—	3.45	2.98	2.89	2.84	7.48	4.73	1.72	4.24	4.24	14.77	4.29
1976	1.83	—	3.59	3.10	2.29	3.47	7.08	4.69	1.63	4.39	4.39	18.11	4.40
1977	2.04	—	3.97	3.61	2.64	8.59	9.97	5.21	1.88	4.71	4.71	18.68	4.73
1978	—	—	4.29	3.79	2.97	3.89	7.80	5.15	1.84	4.75	4.75	21.00	4.77
1979	—	—	5.73	5.54	3.98	4.82	10.21	6.08	2.56	6.36	6.36	19.56	6.39
1980	—	—	9.82	7.48	6.81	6.82	14.36	9.68	3.22	9.91	9.91	21.74	9.92
1981	—	—	10.84	9.08	7.80	5.85	18.00	10.88	4.12	10.25	10.25	24.42	10.27
1982	—	—	10.92	8.75	7.51	7.82	17.25	10.97	3.91	9.54	9.54	23.77	9.55
1983	—	—	10.44	8.82	R 8.37	7.49	16.98	9.28	3.86	9.00	9.00	22.92	R 9.01
1984	—	—	10.27	9.02	R 8.42	7.30	17.83	8.65	4.29	8.67	8.67	27.61	8.70
1985	—	—	9.89	8.39	6.84	12.37	17.81	8.18	3.77	8.84	8.84	23.83	8.86
1986	—	—	8.41	7.07	4.18	11.25	15.98	7.25	2.09	8.93	8.93	22.13	8.95
1987	—	—	7.05	6.82	4.12	11.25	12.70	7.86	2.55	7.09	7.09	30.14	7.12
1988	—	—	7.41	6.80	4.02	11.10	14.61	7.90	2.00	7.26	7.26	28.56	7.32
1989	—	—	8.26	7.43	4.81	10.43	14.48	8.90	2.33	7.78	7.78	30.55	7.61
1990	—	3.47	9.32	9.37	5.89	10.88	14.68	9.53	2.48	8.88	8.88	31.94	8.89
1991	—	3.75	8.71	9.22	5.00	11.94	16.79	10.01	1.84	9.22	9.22	34.15	9.25
1992	—	3.62	8.84	8.79	4.63	9.98	18.43	8.88	2.11	9.12	9.12	32.99	9.16
1993	—	4.79	8.24	8.66	4.36	10.02	18.04	R 9.47	2.37	R 9.83	R 9.83	35.68	R 9.87
1994	—	2.26	7.96	8.48	4.08	8.09	19.14	9.65	2.52	8.65	8.65	38.90	8.90
Expenditures in Million Nominal Dollars													
1970	(a)	—	3.8	35.2	39.3	8.2	13.6	749.8	7.9	822.8	822.8	1.6	826.4
1971	(a)	—	2.9	29.4	39.4	0.2	14.4	778.3	13.0	876.6	876.6	2.4	879.0
1972	(a)	—	3.4	38.0	39.0	0.2	16.4	808.3	11.7	913.0	913.0	2.5	915.6
1973	(a)	—	3.3	47.5	47.1	0.2	16.4	806.2	11.4	1,033.1	1,033.1	2.1	1,035.2
1974	(a)	—	4.7	89.9	74.1	0.3	20.0	1,244.9	16.0	1,429.9	1,429.9	4.3	1,434.2
1975	(a)	—	4.8	75.8	94.4	0.3	18.6	1,369.5	11.8	1,558.0	1,558.0	5.4	1,563.4
1976	(a)	—	4.0	80.1	103.8	0.5	20.5	1,439.9	14.2	1,683.0	1,683.0	5.7	1,689.7
1977	(a)	—	5.4	85.4	130.7	0.5	19.8	1,551.4	15.2	1,808.2	1,808.2	6.6	1,814.8
1978	—	—	7.8	95.8	142.3	0.6	22.8	1,847.8	8.6	1,829.0	1,829.0	7.2	1,836.2
1979	—	—	7.6	180.0	195.2	0.7	32.2	2,026.4	24.6	2,447.9	2,447.9	7.4	2,455.3
1980	—	—	12.5	211.1	318.5	0.5	48.4	2,404.7	18.2	3,282.9	3,282.9	11.9	3,214.6
1981	—	—	11.4	282.2	352.1	1.2	46.5	2,855.5	27.5	3,656.4	3,656.4	11.4	3,699.6
1982	—	—	9.1	295.7	312.5	1.2	42.4	2,730.6	35.9	3,427.6	3,427.6	9.5	3,457.1
1983	—	—	8.7	344.4	R 283.1	1.6	43.7	2,580.9	3.8	R 3,236.1	R 3,236.1	10.1	R 3,246.3
1984	—	—	7.2	388.1	R 260.8	2.7	48.4	2,482.2	4.0	R 3,201.2	R 3,201.2	14.9	R 3,215.4
1985	—	—	6.8	466.4	298.4	3.1	45.8	2,817.1	20.7	3,336.5	3,336.5	14.4	3,360.9
1986	—	—	6.2	321.4	403.4	2.5	38.0	2,128.1	5.0	2,688.6	2,688.6	12.7	2,679.3
1987	—	—	4.7	324.8	182.9	2.1	35.9	2,261.4	7.4	2,818.4	2,818.4	16.6	2,835.3
1988	—	—	4.8	316.6	212.1	2.5	39.8	2,440.9	8.5	3,025.4	3,025.4	20.1	3,045.5
1989	—	—	4.9	342.3	280.8	2.4	40.5	2,571.5	17.4	3,239.8	3,239.8	17.4	3,257.2
1990	—	(a)	4.5	488.9	323.3	2.3	42.8	2,785.1	21.2	3,568.8	3,568.8	17.4	3,586.7
1991	—	(a)	2.0	390.6	264.2	3.0	43.2	2,837.3	5.4	3,545.6	3,545.6	20.3	3,565.9
1992	—	(a)	1.9	378.7	298.1	2.3	51.0	2,836.7	5.8	3,484.6	3,484.6	20.3	3,504.9
1993	—	(a)	3.5	402.4	190.6	2.2	50.6	R 2,777.5	5.2	R 3,432.2	R 3,432.2	R 21.6	R 3,454.0
1994	—	(a)	2.9	412.2	171.9	2.6	53.6	2,832.7	5.9	3,481.7	3,481.7	22.7	3,504.4

* Liquefied petroleum gases

R-Revised data

—No consumption, including cases where adjustments were made See explanation of adjustments in Section 7 of Appendix A.

(a)-Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 142. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Massachusetts

Year	Prices in Nominal Dollars per Million Btu							
	Coal	Natural Gas	Petroleum			Nuclear Fuel	Miscellaneous	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke			
1970	6.31	0.53	0.38	0.43	—	0.20	—	0.37
1971	6.34	0.43	0.64	0.75	—	0.19	—	0.80
1972	0.45	0.45	0.88	0.87	—	0.20	—	0.84
1973	0.65	0.53	0.72	1.17	—	0.21	—	0.85
1974	1.34	1.44	1.95	2.06	—	0.22	—	1.71
1975	1.31	1.32	1.83	2.17	—	0.18	—	1.86
1976	—	1.83	1.81	2.43	—	0.23	—	1.82
1977	—	1.85	2.12	2.72	—	0.20	—	1.89
1978	—	1.87	1.90	2.84	—	0.28	—	1.83
1979	2.33	2.66	2.79	4.25	—	0.32	—	2.35
1980	1.85	3.49	3.94	6.00	—	0.41	—	3.41
1981	2.46	3.84	4.74	7.51	—	0.44	—	3.97
1982	2.49	4.02	4.21	7.08	—	0.50	—	3.90
1983	2.25	3.89	4.24	6.23	—	0.56	—	3.04
1984	2.14	4.04	4.88	6.90	—	1.05	—	3.92
1985	3.37	3.41	3.91	8.30	—	0.89	—	2.74
1986	1.76	2.27	3.54	3.54	—	0.36	—	2.09
1987	1.61	2.40	2.71	3.22	—	0.92	—	2.38
1988	1.61	2.22	2.26	3.69	—	0.86	—	2.04
1989	1.60	2.97	2.64	4.22	—	0.70	—	2.18
1990	1.79	2.46	2.95	5.41	—	0.82	—	2.18
1991	1.73	2.18	2.20	4.58	—	0.81	—	1.85
1992	1.69	2.59	2.36	4.26	—	0.90	—	1.90
1993	1.68	2.63	2.81	4.14	—	0.49	—	1.97
1994	1.68	2.24	2.62	3.95	—	0.46	—	1.93

Expenditures in Million Nominal Dollars								
1970	4.2	1.9	160.8	2.9	—	2.7	—	112.4
1971	2.2	4.2	170.6	5.2	—	2.9	—	181.1
1972	0.8	3.6	197.9	6.9	—	3.2	—	212.3
1973	0.5	3.2	204.8	6.5	—	11.8	—	226.6
1974	28.9	10.5	453.1	9.4	—	7.1	—	511.0
1975	28.4	1.8	483.8	6.3	—	7.8	—	524.9
1976	—	3.8	326.0	6.3	—	9.4	—	544.5
1977	—	5.7	618.7	5.5	—	8.1	—	622.9
1978	—	2.9	578.6	6.0	—	17.2	—	609.8
1979	18.6	18.6	796.9	11.2	—	21.0	—	849.3
1980	35.2	12.3	1,103.1	20.5	—	14.3	—	1,181.4
1981	54.3	27.2	1,206.1	12.7	—	20.8	—	1,321.0
1982	205.5	64.5	817.9	16.9	—	23.2	—	1,130.9
1983	204.5	98.9	791.1	18.7	—	37.2	—	1,081.4
1984	230.6	137.7	770.9	36.1	—	11.9	—	1,197.1
1985	262.4	140.1	591.3	27.8	—	38.8	—	1,011.2
1986	163.0	34.7	460.3	21.1	—	23.1	—	696.3
1987	167.8	88.9	470.7	21.1	—	11.3	—	782.6
1988	180.0	45.4	434.9	32.4	—	11.5	—	704.3
1989	186.5	120.5	462.5	40.8	—	22.7	—	862.6
1990	198.3	139.8	423.8	18.4	—	33.8	—	801.1
1991	186.7	88.0	353.6	12.6	—	28.0	—	661.1
1992	178.3	102.6	312.1	9.8	—	25.5	—	628.3
1993	158.3	78.3	293.8	9.3	—	22.7	—	582.5
1994	145.3	88.6	246.6	12.3	—	20.0	—	534.0

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
—No consumption.

Note: Expenditure totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 143. Energy Price and Expenditure Estimates by Source, 1970-1994, Michigan

Year	Primary Energy															Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum						Nuclear Fuel	Biomass	Total ^c					
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b				Total				
Prices in Nominal Dollars per Million Btu																		
1970	0.85	0.42	0.44	0.77	1.08	0.74	1.80	2.71	0.59	\$1.79	2.80	0.30	—	1.12	0.38	5.55	1.76	
1971	0.66	0.47	0.50	0.81	1.13	0.79	1.87	2.76	0.71	\$1.84	2.93	0.29	—	1.17	0.45	6.76	1.77	
1972	0.72	0.50	0.54	0.88	1.14	0.80	2.00	2.74	0.74	\$1.90	2.91	0.26	—	1.20	0.49	5.97	1.82	
1973	0.79	0.62	0.57	0.91	1.30	0.94	3.19	3.16	0.79	\$2.03	2.32	0.24	—	1.39	0.61	6.31	2.00	
1974	1.05	0.68	1.00	1.11	2.33	1.61	3.37	4.55	1.71	\$3.18	3.50	0.25	—	2.04	0.95	7.94	2.30	
1975	2.07	1.04	1.23	1.42	2.69	2.08	3.76	4.72	1.96	\$3.48	3.72	0.28	—	2.29	1.02	8.78	3.33	
1976	1.99	1.08	1.24	1.71	2.68	2.35	3.64	4.89	2.06	\$3.52	3.87	0.29	—	2.41	1.10	10.55	3.64	
1977	2.01	1.18	1.29	2.02	3.12	2.66	4.44	5.23	2.49	\$3.67	4.21	0.43	—	2.72	1.23	11.37	4.15	
1978	2.10	1.34	1.44	2.12	3.34	2.87	4.00	6.34	2.53	\$3.89	4.30	0.33	—	2.60	1.36	12.48	4.39	
1979	2.20	1.51	1.61	2.47	4.46	3.92	5.62	7.29	3.03	\$5.28	5.00	0.38	1.59	3.44	1.46	13.31	5.27	
1980	2.27	1.62	1.71	3.86	6.76	6.39	6.82	10.09	3.90	\$6.07	6.48	0.49	—	4.39	1.69	15.40	6.51	
1981	2.41	1.81	1.89	3.65	6.09	7.55	7.05	11.00	5.31	\$10.08	9.90	0.50	—	4.91	1.67	17.26	7.51	
1982	2.47	1.90	2.06	4.61	7.89	7.22	7.57	10.55	4.55	\$9.70	9.65	0.53	—	5.10	1.71	18.82	7.97	
1983	2.19	1.82	1.95	5.41	\$7.71	\$6.65	9.15	9.34	4.23	\$9.65	8.79	0.59	—	\$6.07	1.62	19.86	8.20	
1984	2.16	1.85	1.95	5.47	\$7.84	\$6.39	9.09	9.12	4.72	\$10.02	8.78	0.69	—	5.13	1.72	19.61	8.26	
1985	2.08	1.59	1.82	6.70	\$7.79	\$6.09	8.74	8.19	4.45	\$9.74	8.67	0.89	—	\$6.18	1.72	19.89	8.48	
1986	1.96	1.63	1.64	8.12	\$5.77	4.20	6.22	6.79	2.84	\$7.35	\$6.55	0.77	—	4.30	1.66	20.38	7.50	
1987	1.65	1.75	1.78	4.08	\$6.09	4.00	7.69	7.13	3.00	\$7.11	6.77	0.77	—	4.26	1.60	19.26	7.60	
1988	1.73	1.78	1.76	4.80	\$5.77	3.85	7.73	7.16	2.88	\$7.22	\$6.64	0.69	—	4.21	1.60	19.39	\$7.45	
1989	1.75	1.72	1.72	4.61	\$6.35	4.39	8.77	7.77	3.01	\$7.06	\$7.30	0.75	—	4.34	1.52	19.91	7.73	
1990	1.86	1.63	1.69	4.33	\$7.48	6.65	18.26	6.78	3.09	\$7.46	\$6.23	0.79	\$1.36	\$4.47	1.41	20.85	\$7.99	
1991	1.72	1.62	1.62	4.43	\$6.98	4.94	10.13	6.37	2.84	\$7.27	\$7.86	0.65	2.02	\$4.36	1.32	21.18	\$8.03	
1992	—	1.58	1.58	4.38	\$6.83	4.87	9.80	6.16	2.60	\$7.62	\$7.69	0.67	2.04	\$4.45	1.36	21.24	\$7.88	
1993	1.69	1.55	1.56	4.36	\$6.98	4.26	\$9.53	\$8.09	2.78	\$7.18	\$7.57	0.60	1.70	\$4.31	1.25	20.90	\$7.63	
1994	1.57	1.53	1.63	4.37	6.94	3.91	9.62	8.29	2.77	7.46	7.84	0.62	1.65	4.43	1.35	20.64	7.70	

Expenditures in Million Nominal Dollars																		
1970	73.4	286.3	369.6	628.2	246.6	30.4	43.9	1,278.2	33.7	\$186.5	1,828.7	1.8	—	2,911.0	-223.6	1,041.7	3,728.2	
1971	86.7	331.6	420.2	677.2	273.3	31.2	48.7	1,442.1	49.4	\$181.7	2,021.4	1.2	—	3,119.9	-281.8	1,159.8	3,998.9	
1972	103.6	382.0	485.7	739.6	313.9	30.8	58.7	1,512.7	57.6	\$206.4	2,180.4	5.4	—	3,374.7	-303.6	1,292.3	4,363.4	
1973	106.2	399.0	447.2	825.4	356.1	36.5	94.0	1,329.5	75.4	\$241.7	2,633.2	7.9	—	3,913.8	-329.9	1,474.1	5,067.8	
1974	178.3	532.9	709.2	1,025.6	592.9	67.7	97.4	2,557.5	171.7	\$354.5	3,931.0	1.2	—	5,587.8	-606.4	1,779.4	6,740.8	
1975	280.2	834.7	928.9	1,239.4	610.6	68.8	183.9	2,604.4	217.0	\$335.3	4,620.3	22.2	—	5,283.2	-739.0	2,139.4	7,688.8	
1976	339.1	862.6	891.7	1,490.5	690.2	75.1	123.2	2,917.0	265.4	\$369.4	4,430.2	32.2	—	6,844.5	-803.9	2,601.6	8,542.3	
1977	213.5	977.9	890.9	1,452.0	786.0	93.2	142.2	3,185.4	336.0	\$456.2	4,970.1	47.4	—	7,360.3	-890.2	2,783.4	9,253.5	
1978	177.6	787.0	964.7	1,642.2	861.6	104.2	131.6	3,297.0	397.3	\$518.6	5,310.1	46.7	—	7,963.7	-1,090.2	3,113.8	9,897.3	
1979	237.7	981.9	1,219.3	2,095.0	877.6	146.6	161.0	4,147.3	354.6	\$736.3	6,412.0	63.0	(9)	9,790.4	-1,234.4	3,344.9	11,900.9	
1980	250.1	1,049.1	1,299.2	2,996.2	1,087.9	163.6	183.6	5,144.7	315.1	\$1,099.7	6,897.8	65.1	—	11,988.3	-1,345.3	3,847.6	14,398.6	
1981	245.7	1,186.2	1,433.8	2,868.9	1,253.4	258.5	142.5	5,388.6	247.1	\$944.4	8,204.7	93.9	—	12,901.3	-1,315.1	4,020.2	15,306.4	
1982	229.3	1,232.6	1,462.0	3,297.0	1,054.7	229.9	182.1	4,867.5	120.2	\$721.9	7,206.2	86.3	—	12,063.4	-1,214.2	4,062.7	14,921.8	
1983	164.0	1,212.1	1,376.1	3,727.0	\$995.0	\$216.7	209.3	4,360.5	87.8	\$723.2	\$6,584.4	105.4	—	\$11,793.0	-1,172.0	4,405.9	\$15,026.7	
1984	149.6	1,311.2	1,480.7	3,840.6	\$1,089.9	\$213.3	217.4	4,454.4	62.1	\$777.7	\$6,814.9	104.9	—	\$12,221.2	-1,267.0	4,952.7	\$15,806.9	
1985	146.7	1,349.3	1,496.0	3,954.1	\$1,138.5	\$232.6	440.4	4,483.3	54.0	\$718.1	\$7,841.8	117.0	—	\$12,612.0	-1,312.2	4,983.3	\$16,283.1	
1986	140.3	1,356.1	1,496.4	3,378.6	\$890.6	187.7	462.2	3,423.9	50.6	\$694.9	\$5,588.7	102.1	—	\$10,561.9	-1,294.4	5,231.3	\$14,501.7	
1987	33.0	1,422.4	1,475.4	3,189.8	\$986.7	191.9	501.8	3,706.1	51.2	\$600.4	\$5,947.9	119.2	—	\$10,732.3	-1,413.6	5,127.9	\$14,445.7	
1988	39.0	1,420.6	1,459.6	3,507.2	\$928.9	185.4	492.0	3,848.7	74.0	\$673.7	\$6,082.6	169.0	—	\$11,227.4	-1,448.6	5,397.5	\$15,179.3	
1989	44.2	1,330.8	1,375.0	3,517.4	\$919.7	227.7	685.5	4,127.1	75.1	\$607.7	\$6,622.8	178.2	—	\$11,693.4	-1,403.8	5,572.4	\$15,961.9	
1990	61.3	1,222.1	1,283.4	3,433.3	\$1,015.7	318.7	642.2	4,389.8	44.2	\$685.6	\$7,186.6	181.4	\$57.8	\$12,126.8	-1,280.4	\$5,796.9	\$16,842.4	
1991	26.3	1,205.6	1,231.9	3,535.2	\$1,016.1	283.9	578.5	4,458.5	23.2	\$687.6	\$7,045.7	189.1	84.0	\$12,063.9	-1,281.2	\$6,041.6	\$16,329.3	
1992	—	1,106.9	1,106.9	3,783.6	\$1,007.3	260.5	567.9	4,343.7	22.2	\$735.6	\$6,937.1	135.6	84.6	\$12,029.1	-1,142.1	\$6,008.9	\$16,888.9	
1993	(9)	1,100.9	1,101.0	3,992.2	\$1,167.1	247.7	\$446.8	\$4,496.8	\$30.6	\$740.0	\$7,136.1	163.9	51.0	\$12,353.8	-1,180.3	\$6,213.3	\$17,386.6	
1994	56.8	1,168.9	1,217.2	3,917.6	1,186.1	227.5	437.0	4,607.2	31.7	744.6	7,234.1	76.6	52.9	12,500.3	-1,145.8	6,422.6	17,777.0	

^a Liquefied petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

(\$)^eValue less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 144. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Michigan

Year	Primary Energy							Electricity	Total Energy ^c	
	Coal	Natural Gas	Petroleum			Districts ^b	Total ^c			
			District Fuel	Kerosene	LPG ^a					Total
Prices in Nominal Dollars per Million Btu										
1970	1.43	1.08	1.32	1.58	2.87	1.35	—	1.18	6.98	1.74
1971	1.43	1.05	1.30	1.54	2.03	1.40	—	1.15	7.18	1.82
1972	1.08	1.06	1.31	1.57	2.19	1.44	—	1.18	7.47	1.89
1973	1.29	1.14	1.41	1.80	3.78	1.77	—	1.33	7.94	2.12
1974	2.75	1.33	2.38	3.60	3.75	2.57	—	1.69	8.62	2.65
1975	3.07	1.58	2.81	3.12	4.38	2.78	—	1.88	11.32	3.14
1976	2.88	1.86	2.77	3.23	4.34	3.03	—	2.19	12.26	3.50
1977	3.35	2.18	3.22	3.77	5.06	3.50	—	2.59	13.18	4.11
1978	3.35	2.27	3.45	3.95	4.53	3.61	—	2.68	14.26	4.28
1979	3.50	2.59	5.11	5.64	7.32	5.48	—	3.10	15.16	4.80
1980	3.70	3.13	7.08	6.48	8.86	7.28	—	3.72	16.78	5.56
1981	4.12	3.75	8.53	10.34	8.34	8.51	—	4.39	18.73	6.48
1982	4.24	4.08	8.21	10.39	8.35	8.80	—	5.14	19.25	7.21
1983	3.98	5.03	7.58	9.23	9.45	8.51	—	5.95	20.60	8.25
1984	4.86	5.83	7.87	9.82	8.39	8.39	—	6.14	20.33	8.42
1985	3.86	6.14	7.86	8.77	9.68	8.80	—	6.41	21.82	8.82
1986	3.45	5.83	6.07	8.98	8.16	8.81	—	5.88	22.13	8.39
1987	3.48	6.29	5.81	8.85	8.18	8.70	—	5.51	21.45	8.33
1988	3.48	5.14	5.81	8.85	7.74	8.84	—	5.34	21.88	8.11
1989	3.45	4.83	6.40	7.32	12.19	9.10	—	5.46	22.17	8.21
1990	3.50	4.88	7.57	8.88	11.37	8.48	^a \$5.88	^a \$5.88	22.84	^a \$6.13
1991	3.15	4.88	7.08	8.08	18.11	8.56	^a \$5.56	^a \$5.32	23.64	^a \$6.29
1992	3.15	4.88	6.53	7.48	8.17	7.89	^a \$5.58	^a \$5.20	23.77	^a \$7.99
1993	3.42	4.87	6.54	7.48	8.27	8.04	^a \$5.56	^a \$5.24	23.82	^a \$8.25
1994	3.37	4.82	6.55	7.51	8.60	8.20	^a \$5.56	^a \$5.21	24.26	^a \$8.37
Expenditures in Million Nominal Dollars										
1970	18.3	346.1	185.5	4.8	36.2	178.5	—	538.9	899.1	899.0
1971	10.3	365.4	158.9	5.9	37.8	189.5	—	575.2	445.8	1,021.0
1972	8.6	380.1	168.4	5.1	46.2	219.7	—	618.3	494.4	1,112.7
1973	6.9	403.8	174.5	4.5	81.9	261.0	—	671.7	548.6	1,220.3
1974	10.7	474.2	268.3	6.0	76.8	350.8	—	835.7	659.3	1,495.1
1975	16.1	842.8	284.4	8.3	88.8	373.8	—	885.8	805.7	1,782.6
1976	10.1	644.6	308.4	5.7	153.2	488.4	—	1,063.1	893.8	1,956.3
1977	10.2	884.5	388.2	5.8	101.5	487.5	—	1,142.3	976.1	2,118.4
1978	7.9	757.8	385.7	6.6	38.9	485.1	—	1,253.7	1,083.7	2,317.3
1979	3.9	978.6	343.3	4.5	122.2	440.0	—	1,420.6	1,199.1	2,559.7
1980	8.6	1,288.6	377.7	4.8	188.1	487.8	—	1,727.5	1,273.4	3,000.8
1981	6.4	1,392.9	382.2	12.1	88.8	483.2	—	1,990.4	1,375.7	3,286.1
1982	8.5	1,718.6	382.0	32.6	110.7	446.3	—	2,172.4	1,387.2	3,559.6
1983	5.7	1,892.0	228.7	23.0	138.2	385.9	—	2,363.5	1,542.3	3,905.8
1984	10.1	2,822.6	244.6	25.4	146.1	416.3	—	2,449.2	1,547.7	3,996.9
1985	9.4	2,143.8	286.8	21.1	153.8	448.7	—	2,582.8	1,846.1	4,237.7
1986	7.7	1,884.5	286.2	13.6	148.6	371.4	—	2,273.7	1,738.9	4,012.5
1987	5.8	1,716.0	176.5	12.3	184.0	372.8	—	2,082.4	1,754.7	3,851.1
1988	5.3	1,881.1	187.0	15.1	183.5	386.6	—	2,262.0	1,673.0	4,135.0
1989	5.3	1,877.1	177.8	16.3	218.7	512.8	—	2,365.1	1,615.0	4,310.1
1990	7.8	1,843.5	183.7	18.7	286.8	483.8	^a \$8.8	^a \$2,146.2	1,882.8	^a \$4,238.2
1991	7.5	1,708.6	187.5	12.8	264.7	485.0	32.8	^a \$2,214.5	2,158.0	^a \$4,372.6
1992	9.3	1,811.9	181.3	8.7	243.6	413.3	34.3	^a \$2,284.8	2,082.0	^a \$4,346.7
1993	7.0	1,868.8	158.6	15.1	288.7	428.8	17.6	^a \$2,328.2	2,185.0	^a \$4,513.2
1994	8.4	1,815.8	153.8	13.7	275.5	443.2	17.2	2,284.5	2,249.0	4,533.5

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of district heating beginning in 1989.^a Revised data.

—No consumption.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 145. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Michigan

Year	Primary Energy								Total	Electricity	Total Energy ^d
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.53	0.89	1.06	0.74	1.39	2.71	0.84	1.25	0.86	7.12	2.11
1971	0.57	0.86	1.10	0.76	1.39	2.76	0.74	1.27	0.91	7.37	2.16
1972	0.61	0.86	1.10	0.78	1.44	2.74	0.77	1.29	0.94	7.63	2.20
1973	0.63	0.93	1.21	0.86	1.62	3.16	0.78	1.46	1.00	8.03	2.31
1974	1.06	1.10	2.16	2.23	2.46	4.55	1.71	2.50	1.30	9.53	2.80
1975	1.48	1.45	2.53	2.44	2.51	4.72	1.97	2.89	1.63	11.41	3.49
1976	1.37	1.76	2.56	2.49	2.69	4.89	2.13	2.88	1.94	12.65	3.96
1977	1.40	2.06	2.98	2.69	3.42	5.23	2.64	3.29	2.31	13.83	4.96
1978	1.60	2.19	3.15	3.22	3.31	5.34	2.57	3.41	2.41	14.61	5.24
1979	1.72	2.53	4.77	4.08	3.99	7.29	3.19	4.26	2.77	15.64	5.51
1980	1.82	3.13	6.53	6.14	6.18	10.08	3.97	6.06	3.63	17.69	6.36
1981	2.13	3.73	8.02	7.04	5.70	11.00	5.50	8.38	4.19	19.54	7.57
1982	2.25	4.63	7.89	7.59	6.01	10.55	4.80	7.97	4.94	20.77	8.39
1983	2.03	6.42	^R 6.58	7.34	6.58	9.34	4.85	^R 7.11	^R 6.57	21.98	^R 8.96
1984	1.99	5.44	^R 6.58	7.37	6.31	9.12	4.76	^R 7.08	^R 6.57	22.04	^R 9.03
1985	1.99	5.81	^R 6.39	^R 7.12	4.32	9.18	4.98	^R 6.96	6.98	22.36	10.12
1986	1.83	5.03	^R 4.04	^R 4.75	8.25	6.79	9.02	^R 4.91	^R 4.94	24.24	^R 10.26
1987	1.73	4.88	^R 4.45	^R 5.35	7.78	7.13	2.80	^R 5.63	^R 4.92	22.31	8.12
1988	1.73	4.81	^R 4.35	^R 5.16	7.73	7.15	3.20	^R 5.36	^R 4.83	22.48	^R 9.46
1989	1.68	4.61	^R 4.77	^R 6.85	6.80	7.77	3.13	^R 6.02	^R 4.71	23.20	^R 9.51
1990	1.77	4.49	^R 5.63	^R 6.19	8.36	6.78	3.16	^R 7.88	^R 4.69	24.21	^R 10.16
1991	1.80	4.53	^R 5.04	^R 5.82	10.15	8.37	2.79	^R 6.81	^R 4.69	24.16	^R 10.23
1992	1.73	4.49	^R 4.77	^R 5.95	9.77	8.16	2.89	^R 6.61	^R 4.63	24.44	^R 10.10
1993	1.71	4.50	^R 4.74	^R 5.88	9.85	^R 8.08	2.83	^R 6.68	^R 4.60	23.63	^R 10.08
1994	1.70	4.53	4.50	5.35	7.75	8.29	2.81	6.03	4.63	23.44	10.05
Expenditure in Million Nominal Dollars											
1970	7.8	111.4	21.4	1.7	4.2	11.4	2.2	46.9	199.3	316.4	475.7
1971	7.5	127.0	24.5	1.8	4.6	11.2	2.1	44.1	176.7	348.4	525.2
1972	6.9	144.4	25.9	1.8	5.8	13.3	2.6	49.4	189.7	377.8	577.4
1973	5.8	173.0	27.6	1.6	5.9	15.8	2.5	53.1	231.9	426.3	694.2
1974	7.6	213.7	45.4	3.3	8.9	22.7	6.3	85.8	306.3	497.9	804.8
1975	9.8	269.8	48.7	3.1	8.6	29.7	4.8	98.8	367.7	548.1	936.8
1976	9.0	324.7	52.6	3.9	10.7	36.6	10.3	103.7	437.4	657.7	1,096.1
1977	7.9	277.9	61.6	3.4	12.1	27.2	15.8	120.0	405.8	735.7	1,141.5
1978	6.9	318.4	66.6	3.4	11.2	27.6	11.9	120.7	446.1	810.2	1,256.3
1979	3.6	470.1	58.1	2.4	8.9	27.3	9.8	107.3	530.9	698.8	1,470.8
1980	8.6	606.7	118.8	6.5	11.3	43.6	6.6	171.9	795.3	1,406.9	1,892.2
1981	6.1	669.9	105.6	0.8	10.8	51.1	3.9	177.2	851.9	1,121.5	1,373.4
1982	8.3	793.1	105.4	0.8	12.8	49.3	6.6	184.6	986.9	1,187.5	1,533.5
1983	5.3	900.7	^R 95.5	0.7	16.3	41.4	1.8	^R 165.7	^R 1,081.8	1,246.0	^R 2,307.8
1984	9.2	986.3	^R 103.0	0.6	17.7	49.1	1.3	^R 171.8	^R 1,077.1	1,348.6	^R 2,425.5
1985	8.0	865.1	^R 88.8	0.5	23.4	33.4	7.8	^R 151.4	^R 1,084.5	1,488.2	^R 2,532.7
1986	8.0	708.7	^R 89.6	0.4	26.7	25.2	4.4	^R 126.2	^R 842.9	1,582.9	^R 2,425.6
1987	3.3	898.4	^R 45.3	0.4	31.1	27.2	2.4	^R 106.5	^R 1,046.2	1,511.3	^R 2,556.4
1988	4.9	839.5	^R 61.8	0.6	32.4	28.9	3.6	^R 126.7	^R 971.1	1,601.5	^R 2,572.1
1989	4.6	854.5	^R 57.7	^R 1.9	33.6	27.4	1.8	^R 127.3	^R 980.6	1,700.0	^R 2,626.6
1990	7.7	738.2	^R 68.8	^R 6.6	38.2	36.3	1.4	^R 133.9	^R 873.1	1,896.8	^R 2,898.1
1991	7.7	778.1	^R 58.9	0.6	45.9	25.6	0.1	^R 130.2	^R 868.0	1,875.8	^R 2,791.6
1992	5.3	808.2	^R 49.1	0.2	45.6	23.7	0.2	^R 119.0	^R 822.4	1,678.7	^R 2,808.1
1993	6.5	839.9	^R 40.6	0.8	50.5	^R 3.3	0.1	^R 85.3	^R 941.7	2,436.7	^R 3,380.4
1994	7.8	656.8	37.8	1.0	39.3	15.6	0.1	93.7	859.3	2,590.8	3,458.9

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c Revised data.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 146. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1984, Michigan

Year	Primary Energy													Electricity	Total Energy ^c		
	Coal			Petroleum													
	Caking Coal	Steam Coal	Total	Natural Gas	Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Heating Fuel	Other ^b	Tonn ^d			Millions ^e	Total ^f
1970	0.55	6.59	0.64	0.53	0.64	0.68	0.74	1.39	6.08	2.71	0.64	1.25	1.37	—	0.71	2.74	1.01
1971	0.60	0.67	0.61	0.56	0.62	0.70	0.76	1.39	5.27	2.79	0.65	1.33	1.26	—	0.74	3.96	1.09
1972	0.72	0.61	0.66	0.61	0.67	0.70	0.76	1.44	5.59	2.74	0.67	1.32	1.26	—	0.79	4.17	1.17
1973	0.79	0.63	0.71	0.67	0.67	0.70	0.86	1.52	5.89	3.16	0.82	1.49	1.31	—	0.87	4.44	1.31
1974	1.06	1.08	1.36	0.99	1.02	1.05	1.23	2.46	7.22	4.86	1.72	2.44	2.09	—	1.45	6.07	2.08
1975	2.07	1.48	1.82	1.22	1.12	1.20	2.46	2.63	7.48	4.72	1.66	2.93	2.43	—	1.81	7.83	2.64
1976	1.99	1.37	1.70	1.51	1.12	1.31	2.49	2.63	7.05	4.69	1.65	3.03	2.82	—	1.82	8.47	2.91
1977	2.04	1.40	1.74	1.81	1.11	2.73	3.22	3.42	6.97	5.23	2.16	3.33	3.10	—	2.29	8.18	3.25
1978	2.10	1.40	1.68	1.81	1.22	2.84	3.22	3.81	7.60	5.34	2.16	3.50	3.39	—	2.35	10.29	3.59
1979	2.20	1.72	1.68	2.26	1.97	3.76	4.08	3.99	10.21	7.39	2.34	4.91	4.49	—	2.81	11.04	4.07
1980	2.27	1.89	1.64	2.87	2.04	4.06	4.14	4.26	14.36	10.09	3.23	2.49	4.79	—	2.68	12.18	4.09
1981	2.41	1.81	1.88	3.46	2.27	4.45	7.04	6.70	16.00	11.09	4.09	3.97	8.11	—	4.14	14.63	4.61
1982	2.47	2.15	2.36	4.14	2.46	4.66	7.34	6.89	17.25	10.55	4.12	4.89	7.40	—	4.51	16.15	4.65
1983	2.18	1.96	2.08	4.82	4.86	6.61	7.34	6.89	19.08	9.34	4.08	6.49	7.57	—	4.61	18.15	4.78
1984	2.08	1.86	2.05	4.85	4.90	6.28	7.37	6.51	17.63	9.12	4.18	6.57	7.84	—	4.35	16.97	4.62
1985	1.96	1.83	1.94	4.40	3.69	6.25	4.78	8.25	17.61	8.19	4.38	6.21	8.79	—	4.74	16.76	4.49
1986	1.86	1.73	1.76	4.29	3.40	6.47	4.35	7.79	15.85	6.79	3.02	6.46	8.24	—	4.00	16.90	4.19
1987	1.73	1.73	1.73	4.19	3.21	6.43	4.16	8.30	14.61	7.16	2.50	6.46	8.12	—	4.24	15.96	4.01
1988	1.65	1.68	1.68	4.01	2.94	6.54	3.85	8.70	14.43	7.27	3.20	6.03	8.46	—	4.10	16.34	3.84
1989	1.75	1.68	1.68	3.72	2.88	6.84	3.85	8.28	14.68	6.79	3.16	6.66	8.44	—	4.19	16.29	3.69
1990	1.64	1.77	1.78	3.66	2.88	6.52	3.85	10.15	16.79	6.37	2.75	6.79	8.79	—	4.19	17.25	3.55
1991	1.72	1.87	1.78	3.66	2.88	6.52	3.85	10.15	16.79	6.37	2.75	6.79	8.79	—	4.19	17.25	3.55
1992	1.68	1.73	1.73	3.78	2.25	6.52	3.85	9.77	16.44	6.18	2.68	6.54	8.64	—	4.19	16.84	3.54
1993	1.68	1.71	1.71	3.80	2.88	6.54	3.85	9.85	16.44	6.18	2.68	6.54	8.64	—	4.19	16.84	3.54
1994	1.57	1.70	1.65	3.80	2.88	6.54	3.85	9.85	16.44	6.18	2.68	6.54	8.64	—	4.19	16.84	3.54

Expenditures in Million National Dollars

1970	72.4	89.3	172.7	194.8	21.5	32.3	4.2	4.3	64.6	26.2	12.8	24.4	232.5
1971	88.7	100.1	197.7	181.8	23.0	37.8	9.7	4.1	47.3	26.2	11.3	21.9	232.5
1972	100.6	115.5	216.1	199.6	29.7	40.4	7.1	4.6	50.6	26.2	11.3	21.9	232.5
1973	108.2	121.2	229.4	208.8	34.6	48.7	8.2	4.6	50.6	26.2	11.3	21.9	232.5
1974	173.3	168.7	342.0	288.8	59.0	105.3	12.4	8.5	86.9	42.0	36.5	118.2	469.3
1975	264.2	164.4	428.6	289.3	64.6	115.9	11.4	11.2	84.9	44.9	32.6	130.2	487.7
1976	239.1	144.1	383.1	435.5	69.0	107.8	14.2	17.8	87.9	43.3	33.0	176.5	536.2
1977	239.1	144.1	383.1	435.5	69.0	107.8	14.2	17.8	87.9	43.3	33.0	176.5	536.2
1978	219.6	118.6	338.1	407.4	69.0	107.8	14.2	17.8	87.9	43.3	33.0	176.5	536.2
1979	177.4	130.2	307.6	310.8	64.0	130.4	16.8	29.9	86.9	36.9	44.0	236.2	469.3
1980	237.7	174.6	412.3	398.2	73.4	118.7	29.8	48.7	124.9	33.4	41.6	267.6	536.2
1981	236.1	198.2	434.3	398.2	73.4	118.7	29.8	48.7	124.9	33.4	41.6	267.6	536.2
1982	245.7	215.9	461.6	398.2	73.4	118.7	29.8	48.7	124.9	33.4	41.6	267.6	536.2
1983	229.3	208.6	437.9	398.2	73.4	118.7	29.8	48.7	124.9	33.4	41.6	267.6	536.2
1984	144.0	167.8	311.8	311.8	69.0	107.8	14.2	17.8	87.9	43.3	33.0	176.5	536.2
1985	144.0	167.8	311.8	311.8	69.0	107.8	14.2	17.8	87.9	43.3	33.0	176.5	536.2
1986	144.0	167.8	311.8	311.8	69.0	107.8	14.2	17.8	87.9	43.3	33.0	176.5	536.2
1987	144.0	167.8	311.8	311.8	69.0	107.8	14.2	17.8	87.9	43.3	33.0	176.5	536.2
1988	144.0	167.8	311.8	311.8	69.0	107.8	14.2	17.8	87.9	43.3	33.0	176.5	536.2
1989	144.0	167.8	311.8	311.8	69.0	107.8	14.2	17.8	87.9	43.3	33.0	176.5	536.2
1990	144.0	167.8	311.8	311.8	69.0	107.8	14.2	17.8	87.9	43.3	33.0	176.5	536.2
1991	144.0	167.8	311.8	311.8	69.0	107.8	14.2	17.8	87.9	43.3	33.0	176.5	536.2
1992	144.0	167.8	311.8	311.8	69.0	107.8	14.2	17.8	87.9	43.3	33.0	176.5	536.2
1993	144.0	167.8	311.8	311.8	69.0	107.8	14.2	17.8	87.9	43.3	33.0	176.5	536.2
1994	144.0	167.8	311.8	311.8	69.0	107.8	14.2	17.8	87.9	43.3	33.0	176.5	536.2

^a Liquefied petroleum gases.
^b Other as the "other petroleum products" category described in Appendix A.
^c There are no direct data for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
^d There is a discrepancy in the time series between 1988 and 1989 due to the expanded coverage of non-electric utility use of biomass beginning in 1988.
^e Referenced data.

—No consumption, excluding cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.
 (a) Values less than 0.05 million national dollars.
 Note: Expenditures include may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 147. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Michigan

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.53	—	2.17	1.37	0.74	1.39	5.08	2.71	0.57	2.50	2.50	—	2.50
1971	0.57	—	2.21	1.31	0.78	1.39	5.27	2.76	0.70	2.57	2.57	—	2.57
1972	0.61	—	2.19	1.29	0.78	1.44	5.58	2.74	0.71	2.53	2.53	—	2.53
1973	0.63	—	2.38	1.65	0.92	1.52	5.33	3.16	0.73	2.92	2.92	—	2.92
1974	1.06	—	3.23	2.66	1.59	2.46	7.22	4.65	1.59	4.25	4.24	—	4.24
1975	1.48	—	3.45	2.77	2.08	2.51	7.48	4.72	1.76	4.46	4.46	—	4.46
1976	1.97	—	3.59	2.89	2.35	2.83	7.05	4.89	1.95	4.62	4.62	—	4.62
1977	1.40	—	3.97	3.38	2.66	3.42	6.97	5.23	2.33	4.85	4.95	—	4.95
1978	—	—	4.29	3.66	2.67	3.31	7.60	5.34	2.23	5.07	5.07	—	5.07
1979	—	—	5.73	5.16	3.92	3.99	10.21	7.29	2.64	6.93	6.93	—	6.93
1980	—	—	9.02	7.19	6.38	5.16	14.36	10.99	3.49	9.63	9.63	—	9.63
1981	—	—	10.54	8.64	7.65	5.70	18.00	11.00	5.21	10.62	10.62	—	10.62
1982	—	—	10.82	8.34	7.22	6.01	17.25	10.55	4.66	10.22	10.22	—	10.22
1983	—	—	10.44	8.26	^A 6.65	6.58	16.08	9.34	4.49	^A 9.17	^A 9.17	—	^A 9.17
1984	—	—	10.27	8.65	^A 6.39	6.31	17.63	9.12	4.44	9.03	9.03	—	9.03
1985	—	—	9.99	8.55	6.89	6.32	17.41	8.18	4.38	8.86	8.86	—	8.86
1986	—	—	8.41	6.69	4.20	6.25	15.59	8.79	2.45	8.73	8.73	—	8.73
1987	—	—	7.55	6.86	4.09	7.76	12.70	7.13	2.90	8.98	8.98	—	8.98
1988	—	—	7.41	6.50	3.85	7.73	14.81	7.15	2.26	6.93	6.93	—	6.93
1989	—	—	6.28	6.94	4.39	8.30	14.48	7.77	2.49	7.49	7.49	—	7.49
1990	—	1.94	9.32	8.24	5.85	9.36	14.98	8.78	2.42	8.62	8.62	—	8.62
1991	—	2.07	6.71	7.86	4.94	10.15	19.79	8.57	2.09	8.12	8.12	26.67	8.12
1992	—	0.95	8.54	7.74	4.57	9.77	19.43	8.16	2.14	7.94	7.94	27.20	7.94
1993	—	3.25	8.24	7.78	4.25	9.55	18.94	^A 8.09	2.48	^A 7.66	^A 7.66	26.72	^A 7.66
1994	—	2.75	7.96	7.79	3.91	8.68	19.18	8.29	2.62	8.00	8.00	30.76	8.00
Expenditures in Million Nominal Dollars													
1970	0.3	—	7.9	48.9	30.4	0.9	48.8	1,327.5	1.5	1,455.3	1,455.3	—	1,455.3
1971	0.2	—	2.9	46.6	31.2	0.4	41.8	1,394.7	0.3	1,517.9	1,518.2	—	1,518.2
1972	0.2	—	5.5	72.8	28.9	0.5	47.4	1,459.6	1.2	1,625.7	1,625.9	—	1,625.9
1973	0.1	—	8.9	100.3	36.0	0.6	51.8	1,775.6	1.8	1,972.2	1,972.4	—	1,972.4
1974	0.1	—	3.3	152.3	56.1	0.8	67.3	2,482.9	4.5	2,777.4	2,777.6	—	2,777.6
1975	0.1	—	6.0	144.2	85.3	0.9	68.0	2,615.8	4.7	2,867.4	2,867.5	—	2,867.5
1976	(9)	—	6.9	167.1	74.5	1.7	62.6	2,846.8	3.5	3,153.3	3,153.4	—	3,153.4
1977	(9)	—	8.8	208.5	92.9	2.7	62.4	3,097.1	4.0	3,486.4	3,486.4	—	3,486.4
1978	—	—	10.2	230.8	103.8	3.6	73.1	3,230.5	2.9	3,654.8	3,654.8	—	3,654.8
1979	—	—	11.1	344.5	148.2	3.3	102.7	4,086.6	3.7	4,597.1	4,597.1	—	4,597.1
1980	—	—	22.2	486.1	234.9	2.4	128.6	5,040.8	5.1	5,653.1	5,653.1	—	5,653.1
1981	—	—	13.7	522.8	259.3	6.3	154.7	5,256.3	9.9	6,222.0	6,222.0	—	6,222.0
1982	—	—	9.7	464.9	229.9	6.9	135.2	4,792.7	1.9	5,639.1	5,639.1	—	5,639.1
1983	—	—	17.1	509.3	^A 218.7	7.6	136.3	4,279.9	2.8	^A 5,174.7	^A 5,174.7	—	^A 5,174.7
1984	—	—	9.4	569.6	^A 213.3	9.6	154.3	4,305.8	1.5	^A 5,323.5	^A 5,323.5	—	^A 5,323.5
1985	—	—	10.1	607.5	223.6	8.7	143.6	4,378.9	2.7	5,371.2	5,371.2	—	5,371.2
1986	—	—	10.6	486.8	167.7	8.5	124.3	3,357.5	0.5	4,158.0	4,158.0	—	4,158.0
1987	—	—	9.2	546.8	121.9	9.6	114.5	3,636.2	0.9	4,509.1	4,509.1	—	4,509.1
1988	—	—	9.0	526.7	185.4	9.7	127.0	3,780.3	0.4	4,637.7	4,637.7	—	4,637.7
1989	—	—	11.2	556.0	227.7	8.7	129.1	4,055.9	1.8	4,992.4	4,992.4	—	4,992.4
1990	—	(9)	10.1	688.3	318.7	9.7	133.9	4,801.7	1.4	5,632.9	5,632.9	—	5,632.9
1991	—	(5)	9.0	625.2	283.9	9.6	137.8	4,381.9	0.7	5,446.1	5,446.1	0.4	5,446.5
1992	—	(8)	7.8	648.5	260.5	8.9	162.6	4,279.3	1.3	5,269.0	5,269.0	0.3	5,269.3
1993	—	(6)	8.2	827.7	247.7	9.8	161.4	^A 4,449.4	1.1	^A 5,705.4	^A 5,705.4	^A 0.4	^A 5,705.8
1994	—	(5)	9.5	686.0	227.5	14.8	170.8	4,540.6	1.6	5,519.9	5,519.9	0.4	5,520.2

* Liquefied petroleum gases

A-Revised data

—No consumption, including cases where adjustments were made See explanation of adjustments in Section 7 of Appendix A

(9)=Value less than 0.05 million nominal dollars

Note Expenditure totals may not equal sum of components due to independent rounding

Source Data sources, estimation procedures, and assumptions are described in Appendix A

Table 148. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Michigan

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Hydroelectric	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.36	0.42	0.63	0.86	—	0.63	0.36	—	0.36
1971	0.42	0.47	0.73	0.76	—	0.74	0.29	—	0.45
1972	0.45	0.62	0.77	0.89	—	0.79	0.26	—	0.48
1973	0.47	0.85	0.79	1.04	—	0.81	0.24	—	0.51
1974	0.83	0.90	1.70	1.90	—	1.74	0.25	—	0.86
1975	0.82	1.28	1.97	2.85	—	1.98	0.28	—	1.02
1976	1.01	1.60	2.17	2.35	—	2.19	0.29	—	1.10
1977	1.10	1.88	2.61	2.65	—	2.62	0.43	—	1.23
1978	1.29	2.04	2.63	2.79	—	2.64	0.33	—	1.35
1979	1.46	2.36	3.16	4.03	—	3.18	0.38	1.56	1.48
1980	1.55	2.74	4.18	6.97	—	4.34	0.48	—	1.59
1981	1.75	3.29	5.67	7.44	—	5.65	0.50	—	1.67
1982	1.94	3.65	4.93	7.04	—	5.33	0.53	—	1.71
1983	1.89	4.39	4.67	6.03	—	5.09	0.59	—	1.62
1984	1.91	4.65	4.68	5.95	—	5.19	0.69	—	1.72
1985	1.86	4.49	4.64	5.69	—	5.18	0.69	—	1.72
1986	1.81	3.64	2.58	3.44	—	2.83	0.77	—	1.66
1987	1.75	2.76	3.14	3.95	—	3.35	0.77	—	1.60
1988	1.76	2.58	2.64	3.59	—	2.79	0.88	—	1.60
1989	1.72	1.75	2.97	4.21	—	3.15	0.78	—	1.52
1990	1.69	2.11	2.88	4.68	—	3.28	0.79	—	1.49
1991	1.59	1.98	2.44	4.51	—	2.89	0.85	—	1.32
1992	1.56	1.95	2.44	4.39	—	2.82	0.67	—	1.36
1993	1.53	2.42	2.77	3.97	—	3.05	0.80	—	1.25
1994	1.51	2.40	2.76	3.57	—	2.85	0.62	—	1.35
Expenditures in Million Nominal Dollars									
1970	173.4	27.2	17.9	3.8	—	21.8	1.5	—	223.6
1971	207.4	33.1	32.8	7.5	—	40.1	1.2	—	281.9
1972	221.9	28.6	36.3	10.5	—	47.2	5.9	—	303.6
1973	233.8	27.7	52.2	8.4	—	60.8	7.9	—	320.9
1974	404.8	51.9	125.3	25.1	—	148.4	1.2	—	606.4
1975	486.8	96.7	174.9	18.4	—	193.2	22.2	—	733.0
1976	489.4	65.7	192.4	24.1	—	215.6	32.2	—	803.9
1977	543.5	42.2	231.6	25.5	—	257.1	47.4	—	890.2
1978	639.0	57.5	318.5	18.5	—	337.0	46.7	—	1,080.2
1979	789.5	60.1	299.5	12.2	—	311.7	63.0	(a)	1,234.4
1980	832.3	63.2	368.2	27.8	—	275.7	85.1	—	1,348.3
1981	959.0	41.3	192.3	27.7	—	220.0	93.9	—	1,315.1
1982	1,010.3	32.4	62.8	20.8	—	63.3	88.3	—	1,214.2
1983	1,011.2	11.8	27.5	15.0	—	43.7	105.4	—	1,172.0
1984	1,094.1	28.1	22.9	19.1	—	41.9	104.9	—	1,267.0
1985	1,138.3	28.6	16.2	21.1	—	38.3	117.0	—	1,312.2
1986	1,149.5	13.8	18.6	10.3	—	29.0	102.1	—	1,294.4
1987	1,250.0	12.0	22.1	9.4	—	31.6	119.2	—	1,413.6
1988	1,222.6	6.2	40.1	10.4	—	50.5	169.0	—	1,448.5
1989	1,163.5	3.5	47.4	11.2	—	58.6	178.2	—	1,403.8
1990	1,068.2	18.8	20.9	9.1	—	30.8	181.4	—	1,289.4
1991	1,052.0	18.1	14.5	7.5	—	22.0	188.1	—	1,281.2
1992	966.2	20.1	12.6	7.5	—	20.2	125.5	—	1,142.1
1993	953.5	17.3	16.3	7.9	—	26.1	189.5	—	1,180.3
1994	1,023.6	17.8	18.3	6.8	—	25.1	75.5	—	1,145.6

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

—No consumption.

(a)-Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 149. Energy Price and Expenditure Estimates by Source, 1970-1994, Minnesota

Year	Primary Energy															Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum								Nuclear Fuel	Biomass	Total ^c			
	Caking Coal	Steam Coal	Total		Crude Oil	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total							
Prices in Nominal Dollars per Billion Btu																		
1970	8.53	8.48	8.41	0.88	1.00	8.78	1.80	2.87	8.80	\$1.33	2.81	—	8.85	1.27	0.34	6.18	1.86	
1971	0.71	0.46	0.48	0.72	1.19	0.75	1.77	2.97	0.89	\$1.54	2.05	0.15	0.68	1.33	0.36	6.26	1.92	
1972	0.08	0.43	0.46	0.76	1.08	0.76	1.67	2.97	0.66	\$1.54	1.99	0.16	0.72	1.32	0.36	6.54	1.97	
1973	0.79	0.41	0.48	0.82	1.40	0.93	3.00	3.12	0.79	\$1.46	2.22	0.16	0.77	1.45	0.40	6.58	2.12	
1974	1.44	0.56	0.65	0.95	2.35	1.50	3.19	4.33	1.70	\$2.54	3.25	0.23	0.84	1.99	0.50	7.53	2.63	
1975	1.80	0.69	0.83	1.17	2.51	2.49	3.67	4.63	1.89	\$2.68	3.57	0.24	0.82	2.33	0.52	8.84	3.36	
1976	1.82	0.76	0.84	1.29	2.67	2.28	4.14	4.90	1.73	\$2.80	3.69	0.25	0.98	2.27	0.58	9.24	3.45	
1977	1.81	0.81	0.87	1.82	3.05	2.69	4.26	5.21	2.04	\$2.71	4.05	0.27	1.04	2.43	0.54	10.34	3.86	
1978	2.44	0.87	0.96	1.85	3.21	2.90	4.38	5.06	2.03	\$2.91	4.07	0.31	1.12	2.63	0.60	10.79	4.03	
1979	2.20	1.87	1.00	2.17	4.76	4.03	4.53	7.01	2.51	\$3.89	5.68	0.35	1.58	3.34	0.82	11.11	5.07	
1980	—	1.12	1.12	2.85	5.72	8.47	5.62	8.98	3.92	\$4.54	7.98	0.44	1.74	4.42	0.91	13.28	6.91	
1981	—	1.22	1.22	3.65	7.94	7.50	6.34	10.58	4.52	\$3.27	8.18	0.46	—	5.05	0.95	14.57	8.11	
1982	—	1.40	1.40	4.57	7.94	7.19	7.20	10.51	4.09	\$3.65	9.02	0.44	1.29	5.42	1.02	16.13	8.50	
1983	—	1.49	1.49	5.16	\$7.75	\$6.39	7.58	9.52	3.98	\$3.80	\$6.49	0.49	1.12	\$5.26	1.08	16.46	\$8.56	
1984	—	1.45	1.45	5.32	\$7.79	\$6.27	7.52	9.39	4.44	\$7.22	\$6.43	0.53	1.28	5.43	1.14	15.70	8.47	
1985	—	1.51	1.51	5.39	\$6.88	5.99	8.88	9.75	4.88	\$6.86	\$6.48	0.50	—	5.27	1.09	15.81	\$8.48	
1986	—	1.44	1.44	4.81	\$5.89	4.04	7.92	7.42	2.88	\$5.84	\$6.44	0.50	—	\$4.57	1.03	16.57	\$7.51	
1987	—	1.28	1.28	3.72	\$6.01	4.18	8.78	7.71	2.43	\$6.96	\$6.67	0.51	0.95	4.02	0.96	15.72	7.26	
1988	—	1.25	1.25	3.67	\$5.89	3.94	7.37	7.91	2.36	\$5.32	\$6.77	0.49	0.87	\$3.98	0.86	15.80	\$7.37	
1989	—	1.28	1.28	3.87	\$6.57	4.47	8.65	8.72	2.38	\$4.71	\$7.48	0.49	0.88	4.24	1.01	15.57	\$7.63	
1990	—	1.32	1.32	3.87	\$6.06	5.88	8.85	8.58	2.59	\$4.79	\$6.28	0.48	\$1.58	\$4.50	1.03	16.68	\$8.84	
1991	—	1.30	1.30	3.70	\$7.08	4.87	7.58	9.31	2.11	\$4.86	7.88	0.47	1.75	\$4.41	1.02	16.07	\$7.68	
1992	—	1.24	1.24	3.80	\$6.94	4.84	7.05	9.11	1.79	\$4.04	\$7.61	0.44	1.73	4.45	0.97	16.23	\$7.80	
1993	—	1.21	1.21	4.98	\$6.90	4.33	8.54	\$6.28	2.18	\$5.06	\$7.71	0.41	1.83	\$4.52	0.93	16.46	\$7.84	
1994	—	1.22	1.22	4.16	7.00	3.99	6.84	9.42	2.17	5.27	7.86	0.47	1.61	4.60	0.95	16.56	7.91	
Expenditures in Billion Nominal Dollars																		
1970	8.8	85.5	74.1	228.8	140.5	14.7	88.1	888.9	14.5	\$68.9	388.1	—	0.1	1,282.9	-65.3	427.5	1,848.1	
1971	10.6	83.1	75.1	248.1	152.5	17.7	82.7	715.1	11.9	\$83.2	1,040.0	2.3	0.1	1,383.6	-65.0	450.4	1,758.0	
1972	11.5	83.2	74.2	269.9	144.8	20.0	72.8	743.9	24.7	\$85.5	1,111.8	8.2	0.2	1,482.2	-66.8	517.1	1,802.5	
1973	24.0	82.0	85.9	328.2	218.5	27.2	110.1	888.5	29.2	\$88.9	1,280.5	5.6	0.2	1,651.3	-83.0	548.8	2,116.2	
1974	29.2	84.9	124.1	333.3	343.8	60.3	110.1	1,089.0	62.8	\$142.1	1,784.9	11.2	(a)	2,263.5	-120.8	626.0	2,768.7	
1975	45.4	114.4	158.8	381.4	388.7	88.8	124.8	1,172.8	28.4	\$143.7	1,982.1	28.4	(a)	2,488.8	-144.2	788.3	3,094.8	
1976	31.4	155.3	195.7	437.6	441.7	88.9	133.8	1,285.7	50.9	\$148.7	2,127.8	28.6	(a)	2,778.0	-182.1	874.2	3,471.2	
1977	31.5	188.6	231.1	468.3	479.0	80.2	128.4	1,384.2	45.1	\$151.1	2,276.9	32.3	(a)	3,004.7	-229.3	981.6	3,761.0	
1978	35.8	208.9	246.7	570.4	536.4	83.6	118.5	1,407.6	43.3	\$183.6	2,351.1	38.7	(a)	3,205.9	-242.3	1,180.0	4,113.6	
1979	2.7	244.3	247.9	688.9	789.8	128.6	135.7	1,867.8	22.5	\$189.9	3,002.2	43.7	(a)	4,079.9	-274.9	1,251.0	5,056.0	
1980	—	278.7	278.7	785.8	857.3	188.3	163.9	2,318.4	58.3	\$228.6	3,784.8	48.6	(a)	4,888.2	-311.3	1,481.2	6,058.1	
1981	—	297.5	297.5	815.5	853.1	194.2	136.7	2,407.5	37.9	\$207.7	4,027.0	51.9	—	5,291.8	-325.0	1,704.2	6,671.0	
1982	—	296.7	296.7	1,148.8	888.2	173.3	182.1	2,477.9	33.9	\$245.1	4,088.6	50.0	0.1	5,686.1	-312.4	1,838.9	7,108.6	
1983	—	314.8	314.8	1,240.0	\$784.4	\$548.0	204.3	2,303.1	27.4	\$277.3	\$3,742.5	62.8	(a)	\$5,358.9	-338.7	1,988.7	\$7,018.8	
1984	—	335.9	335.9	1,313.5	\$824.2	\$680.1	135.5	2,371.3	19.4	\$312.1	\$4,820.6	48.3	(a)	\$6,618.3	-342.9	2,028.6	\$7,501.8	
1985	—	341.4	341.4	1,283.0	\$858.7	\$614.8	154.8	2,385.5	16.8	\$381.3	\$5,032.7	62.5	—	\$6,818.7	-365.8	2,062.8	\$7,327.1	
1986	—	280.7	280.7	1,004.8	\$825.5	\$718.6	179.0	1,784.2	22.2	\$383.8	\$5,053.9	59.2	—	\$4,487.9	-307.0	2,057.2	\$6,278.1	
1987	—	323.8	323.8	868.2	\$639.4	\$382.8	133.0	1,888.3	13.6	\$282.1	\$3,070.1	63.1	0.4	\$4,313.5	-382.5	2,211.8	\$6,162.9	
1988	—	378.2	378.2	1,851.7	\$882.0	\$44.7	149.8	2,005.8	14.4	\$411.0	\$3,307.6	64.2	1.4	\$4,703.0	-419.5	2,433.7	\$6,717.2	
1989	—	405.5	405.5	1,108.8	\$734.0	\$118.0	189.9	2,224.8	12.4	\$232.7	\$3,511.7	57.4	2.3	\$5,086.7	\$432.8	2,400.8	\$7,082.7	
1990	—	428.1	428.1	1,088.5	\$885.5	\$44.0	187.7	2,385.8	12.2	\$244.6	\$3,880.7	61.7	30.8	\$5,488.9	\$462.8	2,481.2	\$7,387.3	
1991	—	380.2	380.2	1,110.5	\$876.8	\$37.3	186.9	2,388.2	10.0	\$268.7	\$3,878.9	63.7	34.5	\$6,472.6	\$438.2	2,638.6	\$7,573.2	
1992	—	371.9	371.9	1,170.0	\$874.5	\$38.6	202.3	2,370.5	9.2	\$283.7	\$3,923.4	52.0	39.5	\$6,348.8	\$401.5	2,862.8	\$7,740.8	
1993	—	382.2	382.2	1,364.8	\$855.8	\$201.3	\$272.2	\$2,488.0	\$42.0	\$272.8	\$4,140.1	52.9	32.9	\$6,971.6	-488.7	2,727.9	\$8,290.9	
1994	—	408.4	408.4	1,270.4	\$865.1	\$219.2	\$223.8	\$2,800.4	10.2	\$285.5	\$4,305.2	51.2	32.2	\$6,075.6	-425.3	2,851.7	\$8,501.8	

^a Liquefied petroleum gases.^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used in electric utilities), and the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of non-electric utility use of biomass beginning in 1989.

Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)-Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 150. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Minnesota

Year	Primary Energy								Electricity	Total Energy ^c
	Coal	Natural Gas	Petroleum			Biofuels ^b	Total ^c			
			Distillate Fuel	Kerosene	LPG ^d			Total		
Prices in Nominal Dollars per Million Btu										
1970	1.55	1.99	1.28	1.52	2.83	1.54	—	1.29	2.36	2.17
1971	1.14	1.18	1.30	1.54	1.95	1.54	—	1.33	2.53	2.24
1972	1.04	1.23	1.30	1.57	2.06	1.58	—	1.36	2.68	2.35
1973	1.13	1.30	1.62	1.79	3.88	2.32	—	1.73	2.97	2.72
1974	3.23	1.41	2.52	2.77	3.50	2.66	—	1.95	3.94	3.05
1975	3.04	1.57	2.55	2.91	4.22	3.12	—	2.15	4.38	3.38
1976	2.98	1.74	2.80	3.16	4.86	3.36	—	2.43	10.51	3.74
1977	3.01	2.14	3.20	3.69	4.72	3.65	—	2.78	11.57	4.25
1978	3.66	2.41	3.45	3.92	4.78	3.76	—	2.98	12.34	4.64
1979	4.17	2.85	3.22	5.41	5.98	5.39	—	3.70	12.61	5.38
1980	4.32	3.24	7.20	8.02	7.34	7.25	—	4.47	15.08	6.92
1981	3.53	4.11	6.54	9.62	7.37	8.26	—	5.29	17.28	8.14
1982	5.14	4.94	6.30	8.82	9.19	8.53	—	6.02	19.37	9.71
1983	4.53	5.77	7.88	6.93	8.71	6.22	—	6.34	19.41	9.70
1984	5.09	5.98	7.96	9.01	8.70	5.22	—	6.47	18.89	9.67
1985	4.18	5.78	7.79	6.82	7.79	7.81	—	6.22	19.01	8.34
1986	3.69	5.28	6.05	6.85	7.50	8.51	—	5.57	19.41	8.69
1987	3.81	4.58	5.70	6.45	7.40	6.22	—	5.01	19.38	8.99
1988	3.61	4.61	5.62	6.36	7.03	6.03	—	4.95	19.32	8.79
1989	3.49	4.54	6.30	7.13	10.03	7.43	—	5.24	19.71	8.74
1990	3.46	4.81	7.78	8.77	8.38	7.97	43.66	48.38	19.94	8.79
1991	3.61	4.47	6.98	7.88	7.42	7.12	3.66	5.04	20.26	8.54
1992	3.47	4.61	6.29	7.12	8.37	7.11	3.66	5.27	20.55	8.71
1993	3.28	5.25	6.96	7.20	6.54	7.22	3.58	5.83	20.78	8.93
1994	3.28	5.12	6.16	6.97	6.23	6.20	3.58	5.91	20.98	8.92
Expenditures in Million Nominal Dollars										
1970	8.3	111.8	52.8	10.3	48.9	112.2	—	238.2	225.8	465.3
1971	4.4	121.0	59.3	8.5	50.4	118.2	—	243.7	239.0	482.8
1972	2.2	131.9	63.9	6.1	69.4	129.4	—	263.5	296.0	559.1
1973	2.2	133.9	77.6	6.5	95.7	179.8	—	315.8	272.0	587.9
1974	7.4	169.2	109.7	11.3	83.3	204.2	—	370.8	305.4	676.3
1975	4.8	179.8	187.8	12.2	84.8	211.6	—	396.8	344.1	739.8
1976	3.8	183.8	144.4	11.5	108.0	262.3	—	449.8	375.7	825.8
1977	2.6	214.2	158.2	12.0	98.4	268.6	—	485.8	409.4	895.0
1978	5.9	257.0	172.4	9.8	77.9	259.1	—	522.0	478.3	998.3
1979	9.2	321.5	217.9	3.0	71.3	262.1	—	621.8	496.3	1,117.2
1980	4.5	393.8	249.6	5.2	79.0	303.7	—	672.8	643.8	1,315.8
1981	3.0	392.5	239.6	5.4	71.8	317.5	—	713.0	724.4	1,437.4
1982	5.3	534.2	300.0	10.6	93.8	404.2	—	943.7	900.6	1,744.4
1983	5.4	576.6	143.7	4.6	105.5	253.8	—	835.7	885.7	1,722.4
1984	7.8	611.5	156.7	11.2	75.1	243.0	—	862.3	839.5	1,702.2
1985	6.8	616.7	178.6	6.8	87.4	247.8	—	872.6	840.3	1,712.8
1986	5.0	545.1	141.0	3.4	78.6	221.0	—	771.0	873.1	1,649.1
1987	4.1	411.9	128.1	2.7	73.2	205.0	—	621.0	914.7	1,535.7
1988	5.2	508.9	143.2	4.1	73.0	220.9	—	734.4	1,014.0	1,748.4
1989	5.9	534.3	164.9	10.9	116.4	291.2	—	831.4	984.0	1,825.3
1990	3.9	495.3	145.5	8.5	98.3	235.7	412.7	747.5	1,011.3	1,796.5
1991	2.2	529.5	165.2	1.8	85.4	253.4	19.3	799.5	1,083.0	1,881.5
1992	0.5	551.9	125.5	1.5	107.8	235.0	14.0	801.5	1,041.0	1,842.5
1993	2.3	655.3	119.9	1.4	130.0	280.4	11.8	819.7	1,105.0	2,024.7
1994	5.2	633.2	121.4	1.8	97.8	220.7	11.6	870.7	1,149.0	2,016.7

^a Liquefied petroleum gases^b Commercial sector prices and expenditures for wood and waste are included in the residential sector^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990

R=Revised data

—No consumption

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 151. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Minnesota

Year	Primary Energy						Total	Electricity	Total Energy ^a
	Coal	Natural Gas	Petroleum			Residual Fuel			
			Oil	Kerosene	LPG ^b				
1970	0.47	0.69	1.05	0.59	1.20	2.87	0.86	7.72	1.42
1971	0.71	0.78	1.07	0.80	1.28	2.87	0.86	7.89	1.55
1972	0.51	0.85	1.06	0.88	1.38	2.87	0.86	8.15	1.65
1973	0.49	0.85	1.16	0.88	1.39	3.12	0.86	8.20	1.76
1974	0.75	0.95	2.23	2.25	2.52	4.33	1.65	9.29	2.05
1975	0.67	1.16	2.34	2.64	2.81	4.83	1.97	10.36	2.58
1976	1.12	1.41	2.56	2.66	2.90	4.90	1.74	10.90	3.07
1977	1.38	1.73	2.93	3.37	3.28	5.21	2.09	11.82	3.62
1978	1.20	2.03	3.10	3.22	3.74	5.06	2.05	11.90	3.71
1979	1.25	2.50	4.75	4.23	3.98	7.01	2.85	12.51	4.81
1980	1.77	2.89	5.88	4.87	4.87	6.88	4.48	12.86	5.37
1981	1.93	3.96	7.93	6.76	5.00	10.56	5.52	14.73	6.48
1982	2.15	4.53	7.59	7.74	5.67	10.61	4.83	14.73	6.48
1983	2.26	5.16	7.59	6.62	6.53	9.62	3.66	15.92	7.18
1984	2.01	5.37	7.59	7.06	6.40	9.39	4.44	16.80	7.87
1985	2.84	5.18	7.59	7.06	6.40	9.39	4.44	16.80	7.87
1986	1.96	4.82	7.59	7.06	6.40	9.39	4.44	16.80	7.87
1987	1.85	3.88	4.37	4.85	7.73	7.71	2.43	17.19	7.48
1988	1.65	4.00	4.37	4.85	7.73	7.71	2.43	17.19	7.48
1989	1.68	3.96	4.37	4.85	7.73	7.71	2.43	17.19	7.48
1990	2.85	3.96	4.37	4.85	7.73	7.71	2.43	17.19	7.48
1991	1.87	3.76	4.37	4.85	7.73	7.71	2.43	17.19	7.48
1992	1.93	4.05	4.37	4.85	7.73	7.71	2.43	17.19	7.48
1993	1.99	4.47	4.37	4.85	7.73	7.71	2.43	17.19	7.48
1994	1.87	4.31	4.40	5.71	7.75	9.42	3.17	18.53	7.94
Expenditure in Million Nominal Dollars									
1970	3.7	83.3	10.7	1.3	5.3	3.7	1.4	79.2	161.4
1971	5.1	64.0	11.9	1.1	5.9	3.8	1.7	67.8	176.5
1972	2.0	66.7	12.9	0.7	6.5	4.0	3.0	96.8	197.8
1973	1.7	58.2	15.6	0.9	6.1	4.7	3.1	100.5	208.2
1974	3.3	58.5	24.2	2.0	10.6	6.8	5.5	140.8	262.8
1975	2.8	104.2	24.1	1.7	10.5	8.8	2.8	154.3	328.9
1976	2.6	108.0	32.3	2.2	11.8	8.8	3.8	170.0	394.1
1977	3.4	116.9	38.6	2.1	12.0	10.1	3.6	182.6	390.3
1978	3.4	194.1	37.9	1.6	10.7	11.1	3.1	231.9	449.7
1979	4.6	158.8	46.4	0.5	7.8	16.2	1.9	235.7	473.6
1980	3.4	183.8	55.5	—	9.3	17.1	0.9	249.7	522.8
1981	3.1	242.8	38.6	0.2	8.4	19.5	0.7	314.3	636.8
1982	4.1	336.1	43.6	0.2	10.7	20.0	5.0	421.8	784.3
1983	5.0	372.6	105.2	0.1	14.2	17.5	3.2	518.7	967.6
1984	5.9	404.8	112.0	0.1	9.6	31.3	2.6	586.3	1098.7
1985	5.8	480.2	138.2	0.8	12.7	12.1	5.4	642.4	1266.7
1986	4.7	349.5	125.0	0.1	14.6	12.7	5.6	606.7	1170.0
1987	3.7	256.4	25.7	0.1	10.7	9.7	2.0	309.4	779.5
1988	5.1	322.4	24.8	0.1	14.2	8.9	4.4	360.7	914.0
1989	5.9	390.0	30.0	0.1	14.6	8.7	4.0	401.9	1008.0
1990	4.3	310.8	30.5	0.2	17.6	78.3	4.1	445.5	977.4
1991	2.0	327.2	28.5	0.1	17.0	9.7	3.9	388.3	833.0
1992	0.6	337.9	21.9	0.2	13.8	5.6	2.2	361.8	665.0
1993	2.5	381.8	16.2	0.3	24.6	2.4	1.6	441.8	779.0
1994	5.7	365.9	23.2	0.5	21.4	2.4	2.2	421.3	1,034.3

^a Liquidated petroleum gases.

^b These are no direct fuel costs for photovoltaic and solar thermal energy sources expenditures for wood and waste are included in the residential sector.

Revised data

Commercial sector prices and

—No consumption

Note: Expenditure totals may not equal sum of components due to independent rounding. Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 152. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Minnesota

Year	Primary Energy															Electricity	Total Energy ^c	
	Coal			Natural Gas	Petroleum										Biomass ^c			Total ^c
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total					
Prices in Nominal Dollars per Million Btu																		
1970	0.53	0.47	0.49	0.42	0.68	0.69	0.69	1.29	5.88	2.87	0.85	0.42	1.19	—	0.78	4.17	1.14	
1971	0.71	0.71	0.71	0.46	0.66	0.62	0.69	1.28	5.27	2.97	0.81	1.02	1.23	—	0.82	4.34	1.17	
1972	0.68	0.51	0.59	0.46	0.63	0.62	0.68	1.29	5.59	2.87	0.81	1.03	1.16	—	0.84	4.58	1.22	
1973	0.79	0.49	0.65	0.54	0.62	1.07	1.19	1.33	5.33	3.12	0.79	1.00	1.26	—	0.90	4.62	1.29	
1974	1.44	0.78	1.12	0.64	2.04	2.05	2.25	2.52	7.22	4.35	1.67	1.31	2.31	—	1.52	5.54	1.96	
1975	1.88	0.87	1.33	0.80	2.19	2.39	2.84	2.81	7.48	4.82	1.74	1.77	2.82	—	1.73	6.73	2.29	
1976	1.62	1.12	1.41	1.13	1.60	2.47	2.66	2.90	7.05	4.90	1.74	1.78	2.57	—	1.84	7.41	2.51	
1977	1.81	1.36	1.87	1.19	1.81	2.74	2.97	3.26	6.97	6.21	2.04	1.97	2.78	—	1.85	8.78	2.82	
1978	2.44	1.20	1.65	1.24	2.08	2.96	3.22	3.74	7.60	6.06	2.10	1.81	2.98	—	2.02	9.19	3.11	
1979	2.20	1.25	1.29	1.48	2.70	4.01	4.23	3.58	10.21	7.01	2.60	2.39	3.92	—	2.45	9.53	3.57	
1980	—	1.77	1.77	2.59	3.31	5.65	5.82	4.97	14.98	9.98	2.87	3.62	5.88	—	3.69	11.22	3.88	
1981	—	1.93	1.93	3.20	6.96	6.42	6.76	5.50	19.90	10.56	4.29	5.42	6.57	—	4.54	12.38	5.27	
1982	—	2.15	2.15	4.08	4.22	7.31	7.74	5.97	17.25	10.51	3.95	4.66	6.83	—	5.24	14.15	7.07	
1983	—	2.29	2.29	4.36	4.93	8.69	8.92	6.63	16.99	9.62	4.07	7.09	8.29	—	5.09	13.69	7.17	
1984	—	2.01	2.01	4.29	4.98	8.73	7.06	6.40	17.63	9.39	4.44	6.18	8.40	—	5.02	12.64	7.08	
1985	—	2.04	2.04	4.84	4.89	8.57	8.68	6.32	17.81	9.79	4.18	4.75	8.30	—	5.38	12.86	7.88	
1986	—	1.98	1.98	3.42	3.85	8.22	8.45	8.25	15.59	7.42	2.86	6.09	8.95	—	4.11	12.76	8.51	
1987	—	1.85	1.85	2.56	3.53	8.62	8.85	6.16	12.70	7.71	2.45	5.17	8.63	—	3.56	12.50	8.58	
1988	—	1.65	1.65	2.79	3.60	8.33	8.54	7.73	14.61	7.61	2.37	4.96	8.78	—	3.68	12.32	8.20	
1989	—	1.66	1.66	2.84	3.01	8.46	8.59	7.13	14.46	8.72	2.38	4.40	8.77	—	3.63	12.02	8.09	
1990	—	2.05	2.05	2.86	3.31	8.51	8.84	8.86	14.80	9.88	2.58	4.22	8.81	1.86	3.98	12.14	8.12	
1991	—	1.87	1.87	2.75	3.18	8.33	8.60	8.34	16.79	9.31	2.11	5.74	8.36	1.64	3.90	12.48	8.17	
1992	—	1.93	1.93	3.02	2.71	8.45	8.72	5.97	19.43	9.11	1.79	6.93	8.06	1.81	3.79	12.49	8.07	
1993	—	1.98	1.98	3.17	2.93	8.46	8.42	6.64	18.94	9.29	2.18	5.54	8.34	1.48	3.99	12.89	8.23	
1994	—	1.97	1.97	2.84	2.93	5.18	5.44	6.90	19.18	9.42	2.17	5.99	8.21	1.47	3.72	12.81	8.15	
Expenditures in Million Nominal Dollars																		
1970	8.6	12.2	20.8	48.6	28.8	37.5	1.2	8.6	9.1	98.3	8.4	4.4	143.8	—	285.0	198.8	229.9	
1971	10.8	12.4	23.4	54.4	25.3	40.1	1.1	5.9	11.5	51.5	6.7	6.2	148.3	—	225.0	190.3	255.3	
1972	11.0	10.4	21.4	50.7	20.9	42.1	0.7	8.4	13.1	58.8	16.2	6.3	159.4	—	241.5	149.6	380.1	
1973	24.9	9.1	33.1	62.2	35.4	55.8	0.7	7.7	9.9	48.6	16.7	7.2	164.9	—	390.3	185.6	445.9	
1974	29.2	15.6	42.8	67.5	75.9	89.2	2.3	15.3	12.8	66.8	34.0	9.5	314.8	—	425.1	196.5	623.7	
1975	45.4	22.2	67.6	83.5	67.2	111.0	2.8	38.8	11.4	78.1	19.0	18.8	319.7	—	479.8	254.3	725.8	
1976	31.4	27.4	58.8	134.5	66.9	135.9	3.8	15.1	12.0	87.9	30.0	12.7	384.1	—	557.4	304.5	881.8	
1977	31.5	29.0	60.5	129.5	67.2	145.2	3.7	17.9	13.7	77.7	22.6	14.7	382.9	—	552.9	384.5	877.5	
1978	36.9	30.1	65.9	147.2	76.3	169.1	3.6	28.1	18.0	76.9	18.2	13.8	389.9	—	602.8	456.9	1,088.0	
1979	2.7	34.2	36.9	207.0	91.2	181.7	2.4	59.0	22.6	91.1	1.7	17.8	484.3	—	708.2	617.8	1,228.9	
1980	—	81.8	81.8	251.7	78.4	186.2	3.3	78.5	28.2	67.1	22.9	27.5	489.7	—	771.8	894.6	1,396.2	
1981	—	40.8	40.8	285.8	159.3	192.6	1.1	52.7	39.9	60.7	24.7	17.5	539.5	—	848.0	855.4	1,501.4	
1982	—	40.9	40.9	286.3	108.7	225.3	1.6	85.1	29.9	149.9	25.5	16.1	640.8	—	848.0	893.6	1,811.6	
1983	—	42.6	42.6	279.9	145.0	133.7	1.6	61.1	30.5	85.7	22.9	14.3	654.7	—	837.2	723.2	1,580.4	
1984	—	37.1	37.1	289.9	154.3	146.1	2.0	44.5	33.8	89.7	13.8	21.1	685.3	—	812.3	750.3	1,589.5	
1985	—	43.3	43.3	288.4	185.1	177.5	0.9	70.2	31.4	87.8	6.2	19.1	686.3	—	881.6	795.7	1,876.9	
1986	—	39.6	39.6	100.6	140.3	139.6	0.8	63.6	27.2	82.0	15.8	15.4	683.9	—	714.4	755.8	1,470.2	
1987	—	31.3	31.3	179.0	137.2	127.5	0.3	47.5	25.1	60.9	11.6	16.1	629.0	—	635.3	826.1	1,451.4	
1988	—	28.0	28.0	210.1	117.1	132.8	0.9	60.6	27.8	52.3	9.9	15.4	618.9	—	654.6	805.7	1,560.5	
1989	—	35.5	35.5	224.2	98.5	130.9	1.4	59.4	29.3	57.4	8.2	14.1	597.2	—	658.9	807.9	1,584.9	
1990	—	48.3	48.3	250.7	132.5	179.9	0.3	79.5	28.3	55.8	9.8	15.2	699.5	15.6	814.6	848.3	1,762.9	
1991	—	28.5	28.5	243.8	108.6	174.2	0.3	81.8	30.2	70.5	6.9	14.7	612.4	19.2	802.6	992.6	1,795.4	
1992	—	37.8	37.8	271.2	95.9	196.3	0.3	79.6	35.8	67.8	6.9	15.2	634.7	16.6	850.5	993.8	1,864.4	
1993	—	49.5	49.5	298.1	93.2	172.9	0.5	114.3	35.3	69.4	10.1	15.0	630.9	17.6	896.2	1,043.9	1,940.2	
1994	—	53.0	53.0	296.7	92.2	163.2	2.3	100.9	37.4	62.6	8.0	51.2	647.2	19.4	877.2	1,082.6	1,989.9	

^a Liquefied petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

Adjusted data

—No comparison, including cities where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 153. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Minnesota

Year	Primary Energy										Electricity	Total Energy
	Coal	Natural Gas	Petroleum							Total		
			Aviation Gasoline	Diesel Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel			
Prices in Nominal Dollars per Million Btu												
1970	0.47	—	2.17	1.38	0.75	1.29	5.88	2.97	8.57	2.64	—	2.64
1971	0.71	—	2.21	1.28	0.78	1.28	5.27	2.97	5.83	2.64	—	2.64
1972	0.51	—	2.19	1.25	0.76	1.29	5.58	2.97	0.71	2.62	—	2.62
1973	0.49	—	2.36	1.61	0.90	1.33	5.33	3.12	0.79	2.75	—	2.75
1974	0.76	—	3.23	2.55	1.60	2.02	7.22	4.33	1.53	3.64	—	3.64
1975	0.87	—	3.45	2.67	2.09	2.61	7.48	4.83	1.70	4.13	—	4.13
1976	1.12	—	3.58	2.86	2.20	2.80	7.05	4.80	1.59	4.40	—	4.40
1977	1.38	—	3.97	3.32	2.68	3.26	6.97	5.21	1.85	4.78	—	4.78
1978	—	—	4.29	3.34	2.80	3.74	7.80	5.06	1.76	4.86	—	4.86
1979	—	—	4.73	5.06	4.05	3.98	10.21	7.01	2.36	6.42	—	6.42
1980	—	—	5.03	7.14	6.47	4.57	14.36	8.56	3.81	8.88	—	8.88
1981	—	—	10.64	6.34	7.00	5.50	18.00	10.06	4.77	10.06	—	10.06
1982	—	—	10.92	8.12	7.18	5.97	17.25	10.51	4.43	9.93	—	9.93
1983	—	—	10.44	8.56	^R 6.39	6.63	16.96	9.52	3.43	^R 9.24	^R 9.24	^R 9.24
1984	—	—	10.27	8.68	^R 6.27	6.40	17.63	9.30	4.41	9.01	—	9.01
1985	—	—	8.98	8.88	8.93	8.32	17.81	9.73	2.81	9.16	—	9.16
1986	—	—	8.41	8.76	4.04	8.25	15.58	7.42	3.55	8.98	—	8.98
1987	—	—	7.56	7.15	4.15	6.18	12.70	7.71	2.25	7.34	—	7.34
1988	—	—	7.41	7.21	3.94	7.73	14.61	7.81	1.83	7.48	—	7.48
1989	—	—	8.28	7.83	4.47	7.13	14.46	8.72	1.84	8.33	—	8.33
1990	—	—	8.32	8.19	8.68	9.36	14.88	9.86	—	9.23	—	9.23
1991	—	—	8.71	8.28	4.87	8.34	18.79	8.51	1.06	8.86	—	8.86
1992	—	—	8.54	8.12	4.64	5.87	19.43	9.11	1.32	8.60	—	8.60
1993	—	5.01	8.24	8.22	4.33	8.84	18.84	^R 8.28	1.51	^R 8.51	^R 8.51	^R 8.51
1994	—	1.68	7.99	8.32	3.98	8.98	19.18	9.42	1.69	8.58	—	8.58

Expenditures in Million Nominal Dollars												
1970	(a)	—	3.8	38.8	14.7	6.4	19.3	888.9	0.1	788.1	—	788.1
1971	(a)	—	2.8	35.1	17.7	0.5	23.8	889.8	(a)	742.4	—	742.4
1972	(a)	—	2.9	39.8	20.0	0.5	26.7	984.1	0.5	774.6	—	774.6
1973	(a)	—	3.1	61.5	27.2	0.6	23.9	753.2	2.0	871.6	—	871.7
1974	(a)	—	3.9	99.3	80.3	1.0	31.1	1,015.4	5.0	1,205.9	—	1,205.9
1975	(a)	—	3.7	104.1	85.5	0.9	34.1	1,088.1	6.2	1,283.7	—	1,283.8
1976	(a)	—	3.9	177.5	68.0	1.3	35.7	1,188.8	4.7	1,419.7	—	1,419.7
1977	(a)	—	4.1	130.9	80.2	1.1	33.8	1,306.3	1.9	1,558.2	—	1,558.2
1978	—	—	5.2	155.0	83.6	1.8	36.4	1,319.6	5.0	1,607.6	—	1,607.6
1979	—	—	6.3	291.6	128.6	0.9	55.3	1,750.6	6.1	2,236.4	—	2,236.4
1980	—	—	8.8	338.4	168.3	1.2	69.3	2,235.3	28.2	2,864.5	—	2,864.5
1981	—	—	8.9	378.8	194.2	3.0	83.3	2,417.3	6.1	3,093.4	—	3,093.4
1982	—	—	8.5	393.5	173.3	2.7	78.8	2,308.0	2.2	2,958.2	—	2,958.2
1983	—	—	6.2	397.8	148.0	3.6	75.1	2,199.9	1.1	2,829.6	—	2,829.6
1984	—	—	6.5	407.4	^R 200.1	4.3	85.1	2,270.3	2.8	^R 3,034.4	^R 3,034.4	^R 3,034.4
1985	—	—	7.8	483.8	281.4	3.7	77.4	2,230.4	3.5	2,988.3	—	2,988.3
1986	—	—	9.6	519.6	178.6	3.8	87.0	1,709.5	0.8	2,288.9	—	2,288.9
1987	—	—	8.8	384.7	132.8	1.8	61.7	1,826.8	0.1	2,386.3	—	2,386.3
1988	—	—	8.2	378.6	114.7	2.1	68.4	1,945.4	0.1	2,513.5	—	2,513.5
1989	—	—	6.8	408.2	118.0	1.6	68.6	2,166.7	(a)	2,782.6	—	2,782.6
1990	—	—	18.8	808.8	164.8	1.9	73.2	2,251.6	—	3,098.5	—	3,098.5
1991	—	—	8.3	807.8	187.3	1.6	74.3	2,318.0	(a)	3,047.0	—	3,047.0
1992	—	—	5.8	529.2	173.8	1.2	87.8	2,305.4	(a)	3,104.0	—	3,104.0
1993	—	(a)	5.5	543.6	231.3	3.2	87.0	^R 2,454.3	(a)	^R 3,304.7	^R 3,304.7	^R 3,304.7
1994	—	0.1	5.0	624.7	219.2	4.0	92.0	2,535.9	(a)	3,480.9	—	3,480.9

^a Liquefied petroleum gases.

A-Reviewed data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)-Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 154. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Minnesota

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biofuels	Total Energy ^a
			Heavy Oil	Light Oil	Propane	Coke			
Prices in Minnesota Dollars per Million Btu									
1970	0.34	0.28	0.74	0.65	0.28	0.73	—	0.86	0.34
1971	0.36	0.29	0.81	0.64	0.30	0.83	0.15	0.69	0.36
1972	0.41	0.40	0.81	0.64	0.31	0.86	0.18	0.72	0.39
1973	0.39	0.44	0.89	0.60	0.31	1.01	0.18	0.77	0.40
1974	0.49	0.48	1.02	0.63	0.28	1.07	0.23	0.84	0.50
1975	0.62	0.64	1.05	0.62	0.34	1.03	0.24	0.87	0.62
1976	0.69	0.62	1.75	0.62	—	1.97	0.25	0.86	0.65
1977	0.74	1.11	2.05	0.63	—	2.22	0.27	1.04	0.64
1978	0.81	1.46	2.04	0.64	—	2.28	0.31	1.12	0.69
1979	1.01	1.73	2.55	0.66	—	2.84	0.36	1.56	0.82
1980	1.06	1.89	4.49	0.60	—	3.49	0.44	1.74	0.91
1981	1.14	2.80	3.46	0.60	—	3.36	0.46	—	0.96
1982	1.29	3.35	4.65	0.62	—	3.37	0.44	1.38	1.02
1983	1.39	3.60	3.69	0.62	—	3.66	0.40	1.12	1.06
1984	1.37	3.73	4.50	0.62	—	3.12	0.33	1.26	1.14
1985	1.43	3.69	3.99	0.59	—	3.09	0.30	—	1.09
1986	1.36	2.85	3.91	0.59	—	3.31	0.51	0.85	1.03
1987	1.21	2.08	2.39	0.47	—	2.07	0.40	0.87	0.90
1988	1.20	1.98	2.06	0.42	0.82	1.16	0.46	0.86	1.01
1989	1.20	2.13	4.42	0.42	0.77	1.08	0.46	0.86	1.02
1990	1.25	1.92	3.33	0.43	0.75	1.26	0.47	0.82	1.02
1991	1.26	1.70	2.16	0.43	0.77	1.00	0.44	0.82	0.97
1992	1.19	1.64	1.65	0.45	0.79	0.90	0.41	0.85	0.93
1993	1.13	2.43	1.65	0.42	0.71	0.90	0.41	0.84	0.93
1994	1.14	2.13	—	0.40	0.69	1.03	0.47	0.84	0.95

Expenditures in Million Nonfuel Dollars

1970	48.1	15.3	2.9	2.7	0.2	0.8	—	0.1	85.3
1971	43.2	12.8	3.4	3.2	0.2	0.8	2.3	0.1	80.0
1972	48.5	20.6	6.0	6.1	0.2	1.3	0.2	0.2	90.8
1973	48.0	24.9	5.4	7.7	0.4	1.5	5.6	0.2	98.0
1974	70.6	18.1	8.2	12.4	0.3	20.0	11.2	0.0	120.8
1975	94.9	14.2	18.4	18.5	0.2	18.5	26.5	0.0	144.2
1976	121.5	10.7	11.5	11.5	—	25.0	28.8	0.0	182.1
1977	163.4	5.6	18.9	8.2	—	29.0	32.3	0.0	228.3
1978	170.5	2.1	17.0	14.0	—	31.0	38.7	0.0	242.3
1979	187.4	11.9	12.8	0.0	—	21.8	43.7	0.0	274.8
1980	229.9	16.0	16.1	5.8	—	16.8	48.6	0.0	311.3
1981	230.6	14.3	4.5	3.7	—	6.2	51.8	0.1	325.0
1982	248.4	11.0	1.2	3.0	—	4.9	50.0	0.1	312.4
1983	261.5	11.0	0.9	3.0	—	5.3	62.9	0.0	339.7
1984	285.2	7.4	0.1	1.9	—	2.0	48.3	0.0	342.8
1985	289.5	4.7	0.1	1.7	—	4.7	42.5	—	365.8
1986	241.4	6.1	—	1.4	—	1.4	39.2	—	307.0
1987	284.5	11.8	—	2.8	—	2.8	63.1	0.4	362.5
1988	330.9	10.4	0.1	2.6	0.8	5.7	64.2	1.4	419.5
1989	350.3	8.5	0.1	2.1	3.2	5.4	57.4	1.2	432.8
1990	272.2	16.1	0.1	2.8	1.3	8.3	61.7	0.2	462.8
1991	357.4	10.1	0.1	2.4	4.4	6.9	60.7	0.3	438.2
1992	332.1	8.1	0.1	1.9	4.5	6.1	62.0	0.2	401.8
1993	337.8	9.7	0.1	2.3	4.6	6.9	58.9	2.4	408.7
1994	342.5	12.5	—	2.7	4.1	6.8	61.2	2.3	423.3

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

Rounded data.

—No consumption.

(b) Value less than 0.05 million nonfuel dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 155. Energy Price and Expenditure Estimates by Source, 1970-1994, Mississippi

Year	Primary Energy													Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy *	
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biomass				Total ^d
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																	
1970	—	0.26	0.26	0.38	1.32	0.73	1.83	2.84	0.48	R 1.15	2.12	—	—	1.15	0.27	4.44	1.71
1971	—	0.30	0.30	0.42	1.31	0.76	1.84	3.00	0.60	R 1.20	2.18	—	—	1.21	0.32	4.81	1.80
1972	—	0.37	0.37	0.45	1.23	0.78	1.90	2.99	0.65	R 1.24	2.09	—	—	1.24	0.37	5.28	1.91
1973	—	0.41	0.41	0.53	1.41	0.90	2.30	3.08	0.84	R 1.25	2.14	—	—	1.43	0.54	5.35	2.04
1974	—	0.62	0.62	0.67	2.26	1.56	3.31	4.17	1.61	R 2.03	2.99	—	—	2.03	1.01	6.88	2.86
1975	—	0.83	0.83	0.87	2.24	2.03	3.42	4.34	1.67	R 2.42	3.16	—	—	2.27	1.24	7.56	3.20
1976	—	1.03	1.03	1.22	2.65	2.18	3.69	4.57	1.68	R 2.64	3.21	—	—	2.53	1.44	8.12	3.72
1977	—	1.10	1.10	1.55	3.20	2.66	4.14	4.99	1.79	R 2.78	3.46	—	—	2.85	1.57	9.96	4.25
1978	—	1.44	1.44	1.70	3.33	2.86	4.04	5.17	1.74	R 2.96	3.45	—	—	2.92	1.84	10.51	4.45
1979	—	1.67	1.67	2.18	4.54	3.90	4.71	7.49	2.19	R 3.68	4.84	—	—	3.78	1.87	11.77	5.47
1980	—	1.84	1.84	2.55	6.86	6.39	6.31	10.53	2.68	R 5.53	7.84	—	—	4.92	2.18	13.89	7.32
1981	—	2.27	2.27	3.11	7.79	7.67	7.06	11.69	3.74	R 7.77	8.67	—	—	5.03	2.50	16.82	8.82
1982	—	2.42	2.42	3.81	7.99	7.42	7.94	11.02	3.73	R 7.39	8.85	—	—	5.01	2.79	17.80	8.98
1983	—	2.47	2.47	4.29	R 7.03	R 6.16	8.24	8.85	3.83	R 7.92	R 7.81	—	—	R 5.73	2.90	18.69	R 6.27
1984	—	2.40	2.40	3.85	R 6.69	R 6.04	7.87	8.72	3.79	R 6.45	R 6.60	1.08	—	R 5.40	2.80	18.47	R 7.95
1985	—	2.56	2.56	3.76	R 6.70	6.94	7.40	9.76	4.06	R 7.12	R 7.86	1.13	—	5.17	2.90	17.85	8.20
1986	—	2.27	2.27	3.40	R 6.22	3.41	8.07	8.64	2.01	R 6.72	R 5.83	1.15	—	R 4.17	2.05	19.01	R 7.29
1987	—	1.94	1.94	3.33	R 6.64	3.97	8.46	8.97	1.94	R 6.24	R 5.97	0.89	—	R 4.08	1.57	17.67	R 7.41
1988	—	1.81	1.81	3.19	R 6.80	3.43	8.79	7.27	2.79	R 6.02	R 5.95	1.40	—	R 4.06	1.70	19.21	R 7.35
1989	—	1.67	1.67	2.89	R 6.23	3.92	9.04	6.07	2.41	R 6.48	R 6.87	1.17	—	R 4.38	1.56	18.25	R 7.84
1990	—	1.68	1.68	2.76	R 7.22	6.16	8.26	9.31	2.33	R 6.32	R 7.38	1.11	d 1.58	d 4.63	1.54	18.85	d 8.84
1991	—	1.67	1.67	2.59	R 6.78	4.59	7.21	9.22	1.75	R 6.73	R 6.96	0.88	1.60	R 4.27	1.35	17.79	R 7.58
1992	—	1.60	1.60	2.71	R 6.75	4.33	5.89	8.82	1.70	R 6.80	R 6.78	0.70	1.60	R 4.29	1.31	17.84	R 7.68
1993	—	1.54	1.54	3.31	R 6.85	3.98	R 5.76	R 8.56	1.69	R 6.06	R 6.46	0.55	1.52	R 4.34	1.42	18.28	R 7.89
1994	—	1.58	1.58	2.94	6.71	3.70	6.95	9.98	1.58	6.18	6.82	0.52	1.52	4.22	1.30	17.65	7.98
Expenditures in Million Nominal Dollars																	
1970	—	3.5	3.5	111.2	46.3	6.3	68.4	262.5	1.9	R 42.8	516.8	—	—	633.5	-31.7	225.8	827.7
1971	—	4.0	4.0	129.9	55.2	6.9	69.8	400.1	4.6	R 47.4	574.0	—	—	707.9	-39.5	263.5	931.4
1972	—	5.1	5.1	137.5	64.2	6.6	68.6	433.1	17.0	R 53.3	532.9	—	—	775.8	-51.0	316.1	1,040.8
1973	—	12.0	12.0	130.2	76.0	7.4	99.2	458.6	40.4	R 70.3	748.1	—	—	890.2	-69.0	349.6	1,171.1
1974	—	21.3	21.3	144.1	128.5	13.0	111.0	617.9	109.5	R 85.1	1,064.0	—	—	1,229.4	-133.1	444.2	1,540.5
1975	—	27.5	27.5	154.3	127.8	16.3	102.3	833.8	326.8	R 92.9	1,099.2	—	—	1,281.1	-154.7	486.0	1,612.4
1976	—	44.0	44.0	193.2	184.3	16.9	114.1	895.5	196.6	R 93.0	1,270.4	—	—	1,507.6	-221.3	512.9	1,890.2
1977	—	42.4	42.4	242.4	261.5	20.4	135.1	900.7	332.3	R 103.6	1,554.3	—	—	1,839.1	-296.6	719.7	2,272.2
1978	—	59.1	59.1	271.2	299.4	21.4	116.9	838.2	268.6	R 128.6	1,969.1	—	—	1,990.3	-342.0	796.3	2,453.6
1979	—	99.6	99.6	406.5	309.9	30.9	102.6	1,157.3	303.9	R 132.9	2,036.7	—	—	2,572.7	-363.1	886.6	3,106.2
1980	—	137.8	137.8	683.4	383.6	63.3	128.8	1,461.6	284.7	R 146.4	2,475.0	—	—	3,168.1	-438.6	1,875.9	3,803.2
1981	—	156.3	156.3	603.9	607.2	72.5	116.6	1,648.9	238.4	R 154.6	2,599.5	—	—	3,891.9	-481.0	1,302.0	4,532.8
1982	—	242.7	242.7	829.0	649.4	137.6	127.8	1,530.3	123.6	R 147.9	2,816.6	—	—	3,689.2	-518.6	1,361.0	4,520.4
1983	—	237.0	237.0	829.9	R 638.1	101.0	134.1	1,247.1	53.0	R 153.9	R 2,227.1	—	—	R 3,294.0	-495.5	1,315.8	R 4,204.3
1984	—	249.4	249.4	848.6	R 670.0	R 77.4	127.7	1,231.5	50.0	R 228.1	R 2,284.8	1.8	—	R 3,384.7	-431.5	1,394.4	R 4,317.7
1985	—	273.3	273.2	710.7	R 821.3	134.1	124.4	1,267.2	33.6	R 267.8	R 2,336.3	63.1	—	R 3,375.4	-476.1	1,488.8	R 4,385.1
1986	—	248.5	248.5	581.3	R 450.4	83.8	107.4	980.8	53.0	R 138.9	R 1,822.3	50.5	—	R 2,700.8	-420.1	1,582.5	R 4,383.2
1987	—	237.6	237.6	530.0	R 459.6	171.0	114.3	1,070.9	24.6	R 117.6	R 2,048.2	74.1	—	R 2,889.9	-381.2	1,606.2	R 4,114.9
1988	—	234.1	234.1	515.9	R 519.6	154.5	128.8	1,126.9	59.2	R 127.6	R 2,213.4	143.8	—	R 3,107.5	-455.7	1,604.2	R 4,348.0
1989	—	161.3	161.3	520.5	R 521.0	144.6	163.4	1,229.4	46.6	R 115.3	R 2,322.5	87.9	—	R 3,102.3	-365.7	1,788.6	R 4,533.3
1990	—	172.3	172.3	587.5	R 587.4	281.1	164.8	1,394.1	50.2	R 132.4	R 2,634.1	97.9	d 42.7	d 3,494.8	-387.1	1,844.5	d 5,021.9
1991	—	169.4	169.4	524.1	R 610.7	208.6	158.8	1,305.1	51.3	R 160.4	R 2,595.8	88.7	47.6	R 3,403.7	-346.5	1,940.5	R 4,907.7
1992	—	139.2	139.2	529.3	R 601.9	269.5	134.5	1,362.8	35.6	R 148.7	R 2,573.0	81.9	48.5	R 3,351.3	-298.8	R 1,958.1	R 5,010.6
1993	—	163.0	163.0	R 569.9	R 688.2	186.0	R 151.3	R 1,437.2	R 94.9	R 143.9	R 2,599.5	47.0	46.0	R 3,445.3	-369.5	2,087.0	R 5,172.8
1994	—	163.5	153.6	649.7	605.2	141.4	164.1	1,498.3	53.5	164.0	2,616.6	53.5	45.7	3,516.9	-376.5	2,139.2	8,291.6

^a Liquefied petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used as electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

R-Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 156. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Mississippi

Year	Primary Energy								Electricity	Total Energy ^c
	Coal	Natural Gas	Petroleum				Distillate ^b	Total ^c		
			Heating Oil	Kerosene	LPG ^a	Total				
Prices in Nominal Dollars per Million Btu										
1970	—	0.89	1.34	2.89	2.16	2.14	—	1.34	5.08	2.89
1971	—	0.92	1.42	2.13	2.14	2.12	—	1.32	5.51	2.54
1972	—	1.06	1.43	2.19	2.23	2.20	—	1.47	8.06	2.91
1973	—	1.07	1.57	2.26	2.73	3.58	—	2.06	6.88	3.50
1974	—	1.20	2.41	3.16	2.84	3.75	—	2.84	7.42	4.23
1975	—	1.38	2.48	3.79	4.19	2.98	—	2.34	8.46	4.43
1976	—	1.67	2.77	4.89	4.40	4.28	—	2.71	9.89	5.46
1977	—	2.05	3.20	4.41	4.81	4.84	—	3.15	10.88	6.23
1978	2.81	2.34	3.28	4.38	4.39	4.32	—	3.07	11.37	8.33
1979	2.76	2.76	4.82	7.78	6.12	5.99	—	3.36	12.50	7.00
1980	2.87	3.98	5.89	18.48	8.36	14.41	—	4.46	14.36	8.08
1981	—	3.98	8.54	12.79	7.02	8.02	—	4.75	17.37	10.88
1982	—	4.78	—	12.61	9.83	8.93	—	6.86	18.23	11.79
1983	3.56	5.74	8.82	11.18	9.89	9.61	—	9.66	17.43	11.69
1984	3.27	5.36	8.77	10.48	9.59	9.55	—	8.14	17.41	11.62
1985	2.74	5.22	7.87	10.98	7.71	7.78	—	5.85	18.12	12.18
1986	2.89	5.47	5.15	7.99	8.81	8.58	—	8.09	18.13	13.08
1987	2.88	6.01	4.89	7.58	8.90	8.82	—	8.62	19.01	13.10
1988	2.82	5.76	4.42	6.85	9.17	9.11	—	8.49	19.16	13.14
1989	2.64	4.95	3.85	5.98	9.77	9.09	—	8.06	20.00	13.38
1990	2.79	5.18	4.38	7.12	9.80	9.47	^d 2.85	^d 8.88	20.19	^d 12.88
1991	2.81	5.06	4.29	6.55	10.70	10.61	^R 3.53	^R 5.83	20.16	^R 12.61
1992	2.88	4.70	7.88	11.88	9.28	9.31	^R 3.53	^R 6.36	20.65	^R 12.38
1993	2.73	5.11	7.19	11.19	10.29	10.30	^R 3.53	^R 6.04	20.87	^R 13.17
1994	—	5.28	7.83	11.83	10.35	10.36	^R 3.53	^R 6.20	20.71	^R 13.40
Expenditures in Million Nominal Dollars										
1970	—	32.4	0.8	0.9	42.9	43.8	—	75.8	118.7	104.8
1971	—	37.9	0.8	0.7	41.4	42.9	—	80.9	139.5	230.4
1972	—	42.6	1.0	0.8	47.8	48.9	—	91.4	172.7	284.1
1973	—	34.2	1.3	2.5	74.7	78.5	—	142.7	168.7	301.3
1974	—	35.5	2.3	2.7	71.4	78.4	—	142.0	230.2	342.2
1975	—	61.6	2.8	2.7	64.4	78.8	—	111.8	222.5	394.1
1976	—	45.5	4.0	2.6	71.5	78.0	—	123.5	277.9	401.4
1977	—	51.7	5.7	3.7	81.1	98.5	—	145.2	339.3	478.5
1978	0.1	72.9	8.2	5.3	87.8	78.1	—	162.1	363.1	515.2
1979	0.1	104.7	3.9	0.4	80.9	55.3	—	180.1	386.4	548.5
1980	(*)	182.8	9.3	2.8	67.5	78.4	—	173.8	488.9	681.9
1981	—	113.0	0.1	2.1	60.3	62.6	—	175.5	589.5	745.0
1982	—	135.7	—	3.6	70.7	74.3	—	240.0	812.0	912.0
1983	0.2	162.2	0.2	7.1	60.3	67.8	—	250.8	574.6	824.5
1984	0.1	158.7	0.2	10.7	54.2	65.1	—	222.9	601.4	828.3
1985	(*)	146.4	0.1	12.7	53.2	54.9	—	185.3	648.9	844.3
1986	0.1	141.4	0.1	1.7	53.1	54.9	—	184.3	708.4	905.7
1987	0.1	162.3	0.5	1.2	65.3	68.9	—	228.3	721.8	951.1
1988	0.3	157.3	0.1	1.1	63.7	70.9	—	229.5	745.0	974.4
1989	(*)	134.2	0.1	0.8	81.7	82.6	—	216.6	786.0	1,002.6
1990	(*)	133.8	(*)	8.6	74.9	74.9	^d 12.6	^d 238.9	^d 845.8	^d 1,088.5
1991	(*)	134.2	(*)	0.8	72.0	72.9	^R 13.3	^R 220.4	^R 891.0	^R 1,081.4
1992	(*)	131.1	0.1	1.0	59.6	59.6	^R 14.8	^R 204.7	^R 871.0	^R 1,073.8
1993	(*)	146.3	0.1	1.5	61.6	63.3	^R 10.5	^R 242.6	^R 840.0	^R 1,182.0
1994	—	147.8	(*)	1.4	61.3	62.7	^R 10.3	^R 240.8	^R 864.0	^R 1,204.8

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.^R—Revised data.

—No consumption.

^(*)—Values less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 157. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Mississippi

Year	Primary Energy								Electricity	Total Energy ^a	
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^b	Stoker Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	—	0.57	0.96	—	1.33	2.84	0.49	1.39	0.70	5.53	1.98
1971	—	0.81	1.09	—	1.89	3.00	0.70	1.48	0.74	5.90	2.10
1972	—	0.86	1.10	—	1.44	2.90	0.60	1.34	0.80	6.36	2.38
1973	—	0.71	1.20	—	1.56	3.09	0.80	1.36	0.87	6.40	2.53
1974	—	0.74	2.02	—	2.68	4.17	1.84	2.16	1.12	8.08	3.65
1975	—	0.82	2.18	—	2.68	4.34	1.72	2.17	1.29	8.89	3.94
1976	—	1.26	2.44	—	2.81	4.57	1.80	2.20	1.62	10.46	4.29
1977	—	1.72	2.79	—	3.42	4.99	1.91	2.35	2.00	11.39	4.82
1978	1.50	1.98	2.91	—	3.63	5.17	1.74	2.39	2.14	11.80	5.13
1979	1.54	2.39	4.29	—	3.85	7.49	2.24	2.43	2.41	13.58	4.82
1980	1.65	2.97	6.27	—	4.92	10.53	2.82	3.38	3.17	15.67	6.79
1981	—	3.47	7.79	6.75	6.32	11.69	3.84	4.44	3.99	19.21	9.09
1982	—	4.40	7.27	7.47	6.41	11.02	3.82	7.58	4.93	19.09	12.12
1983	1.85	5.33	\$6.19	6.51	6.97	8.89	—	\$6.85	\$5.74	16.32	\$11.29
1984	1.84	4.99	\$6.28	7.41	7.02	8.72	—	\$6.72	\$5.49	16.61	\$11.29
1985	1.85	4.96	\$6.34	\$7.84	7.19	8.75	4.32	\$6.89	\$5.49	19.59	\$12.81
1986	1.78	4.88	\$6.66	\$7.42	7.60	8.54	2.12	\$4.90	\$4.89	20.69	\$12.57
1987	1.70	5.21	\$6.12	\$6.96	7.94	8.97	2.16	\$5.21	\$5.20	20.22	\$12.12
1988	1.66	4.94	\$6.30	\$6.40	8.34	7.27	1.94	\$5.31	\$5.01	21.34	\$12.80
1989	1.70	4.69	\$6.23	\$5.22	8.42	8.07	2.71	\$4.84	\$4.84	21.18	\$12.79
1990	1.74	4.34	\$6.67	\$6.66	8.02	8.21	—	\$4.89	\$4.74	21.33	\$13.28
1991	1.74	4.15	\$6.66	\$5.92	8.67	8.92	2.03	\$4.89	\$4.43	21.24	\$13.15
1992	1.71	3.92	\$6.54	\$5.57	8.71	8.82	2.06	\$5.32	\$4.22	21.50	\$13.06
1993	1.64	4.29	\$6.43	\$5.46	8.82	\$6.59	—	\$4.89	4.37	22.14	\$13.59
1994	—	4.42	6.10	5.21	8.28	8.69	—	6.69	4.74	21.80	13.42
Expenditures in Million Nominal Dollars											
1970	—	13.9	8.6	—	4.8	1.4	0.1	8.7	98.5	57.8	77.5
1971	—	16.2	5.7	—	4.7	1.5	0.2	7.1	23.3	99.1	99.4
1972	—	16.6	1.0	—	5.3	1.6	0.0	6.9	25.4	79.6	105.2
1973	—	17.1	1.2	—	5.5	1.6	2.8	11.2	28.3	88.6	116.0
1974	—	19.2	2.4	—	6.7	2.3	7.5	20.8	40.0	110.4	150.4
1975	—	22.8	3.0	—	7.4	2.4	8.7	22.6	65.1	116.7	161.8
1976	—	26.1	4.3	—	8.3	2.9	12.5	27.7	63.8	149.9	203.7
1977	—	34.1	6.1	—	10.2	2.8	18.0	37.1	71.1	173.0	244.1
1978	0.1	43.2	6.6	—	9.9	2.9	16.6	35.9	79.2	193.8	273.0
1979	0.1	66.9	4.4	—	5.7	4.2	60.1	94.4	161.4	224.4	365.8
1980	(a)	64.1	6.9	—	7.8	6.8	64.7	79.4	143.8	276.8	428.3
1981	—	68.8	6.2	0.5	8.5	8.1	60.2	89.8	188.4	382.7	541.1
1982	—	79.0	4.8	5.4	6.1	7.8	0.7	26.8	104.8	387.9	592.7
1983	0.2	93.9	\$32.3	3.8	10.5	8.1	—	\$54.8	\$148.8	374.4	\$623.2
1984	0.1	91.9	\$32.1	4.8	7.2	7.0	—	\$51.0	\$143.0	376.3	\$519.3
1985	(a)	84.1	\$38.3	1.8	8.8	8.2	0.3	\$55.6	\$138.7	407.8	\$647.8
1986	0.1	84.1	\$8.4	0.4	6.3	7.5	1.2	\$26.9	\$111.0	446.7	\$557.6
1987	0.1	94.6	\$18.1	0.2	10.3	7.7	0.3	\$37.5	\$132.5	439.8	\$572.3
1988	0.3	90.9	\$12.9	0.1	11.2	7.1	0.2	\$31.5	\$122.6	477.0	\$599.8
1989	(a)	83.1	\$21.1	0.1	12.4	6.8	0.2	\$40.6	\$123.8	513.0	\$636.8
1990	(a)	78.6	\$19.1	0.2	9.9	8.6	—	\$44.2	\$112.8	539.8	\$681.8
1991	(a)	75.9	\$17.2	0.2	8.7	3.8	(a)	\$28.0	\$103.9	\$42.0	\$645.9
1992	(a)	74.1	\$13.5	0.3	6.2	7.8	(a)	\$26.8	\$100.9	539.0	\$639.9
1993	(a)	84.7	\$8.5	0.2	6.8	\$2.2	—	17.6	\$101.7	553.0	\$654.8
1994	—	87.7	10.3	0.1	11.5	5.8	—	28.7	116.4	667.0	683.3

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

A-Revised data.

—No consumption.

(a)-Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 158. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Mississippi

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Biofuels ^f	Total ^g		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^d	Lubricants	Motor Gasoline	Residual Fuel	Other ^e	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	8.33	8.33	5.28	0.86	0.74	0.73	1.33	5.86	2.64	0.40	0.50	0.84	—	0.80	2.94	0.79
1971	—	0.41	0.41	0.32	0.71	0.63	0.90	1.38	5.27	3.00	0.55	0.87	1.00	—	0.54	3.18	0.78
1972	—	0.42	0.42	0.34	0.78	0.63	0.90	1.44	5.58	2.89	0.50	0.66	1.00	—	0.59	3.36	0.80
1973	—	0.48	0.48	0.43	0.79	0.60	0.97	1.56	5.33	3.06	0.59	0.68	1.07	—	0.69	3.71	0.84
1974	—	0.88	0.88	0.69	1.36	1.73	1.87	2.06	7.22	4.17	1.89	0.95	1.88	—	1.06	5.22	1.47
1975	—	1.11	1.11	0.71	1.77	1.70	1.68	2.59	7.46	4.34	3.77	1.48	2.88	—	1.32	6.39	1.84
1976	—	1.18	1.18	1.02	1.80	2.08	2.27	2.81	7.05	4.67	1.65	1.80	2.26	—	1.64	7.46	2.42
1977	—	1.23	1.23	1.42	1.98	2.72	2.81	3.42	6.87	4.99	1.93	1.86	2.67	—	2.11	8.07	2.94
1978	—	1.50	1.50	1.48	2.18	2.90	3.18	3.63	7.60	5.17	1.83	1.64	2.82	—	2.29	8.70	3.21
1979	—	1.54	1.54	2.21	2.57	4.14	5.27	3.85	10.21	7.49	2.31	2.23	3.47	—	2.92	9.67	3.83
1980	—	1.86	1.86	2.89	3.58	5.55	6.21	4.82	14.38	10.83	3.33	3.39	4.61	—	3.81	11.42	4.80
1981	—	1.89	1.89	3.22	4.79	6.15	6.73	6.33	16.00	11.89	4.51	5.59	6.03	—	4.59	14.17	6.00
1982	—	1.85	1.85	4.00	4.62	6.82	7.47	6.41	17.25	—	4.00	4.80	5.98	—	4.81	15.17	6.16
1983	—	1.85	1.85	4.19	4.67	R 6.47	6.51	6.87	16.98	—	4.02	4.92	R 6.30	—	R 4.87	14.41	R 6.23
1984	—	1.84	1.84	3.82	4.44	R 6.53	7.41	7.02	17.63	6.72	4.83	5.44	R 6.20	—	R 4.69	13.88	R 5.88
1985	—	1.85	1.85	3.88	4.81	R 6.21	R 7.84	7.19	17.61	6.75	4.39	4.93	R 6.43	—	R 4.71	13.84	6.19
1986	—	1.76	1.76	3.08	4.90	R 5.75	R 4.28	7.80	15.59	6.54	2.12	R 3.71	R 4.71	—	R 3.69	14.63	R 5.55
1987	—	1.70	1.70	2.71	3.27	R 4.37	R 4.68	7.94	12.70	6.97	2.18	R 4.25	R 4.78	—	R 3.55	14.74	R 5.56
1988	—	1.68	1.68	2.60	3.03	R 3.88	R 4.40	8.34	14.61	7.27	1.94	R 3.67	R 4.39	—	R 3.28	14.84	R 5.55
1989	—	1.70	1.70	2.46	2.86	R 4.60	R 5.22	8.42	14.49	6.07	2.71	R 4.28	R 5.06	—	R 3.48	14.16	R 5.36
1990	—	1.74	1.74	2.49	2.93	R 5.49	R 6.89	8.08	14.69	8.21	3.02	R 5.02	R 5.39	R 1.21	R 3.39	13.83	R 5.96
1991	—	1.74	1.74	2.28	3.29	R 5.73	R 5.82	6.67	16.79	8.82	2.03	R 5.55	R 5.30	1.32	R 3.26	13.18	R 4.94
1992	—	1.71	1.71	2.40	2.04	R 4.91	R 5.57	4.71	19.43	8.62	2.08	R 6.08	R 4.96	1.31	R 3.12	12.93	R 4.89
1993	—	1.64	1.64	2.82	2.36	R 4.61	R 5.45	4.82	18.94	R 8.58	2.02	R 5.67	R 4.82	1.30	R 3.28	13.46	R 5.27
1994	—	1.65	1.65	2.89	2.47	4.54	5.15	4.64	18.18	8.68	2.32	6.02	4.88	1.30	3.29	13.14	5.27

Expenditures in Million Nominal Dollars																	
1970	—	0.4	0.4	27.6	7.7	13.3	11.6	10.8	7.5	4.8	0.5	2.7	98.4	—	98.4	80.2	148.5
1971	—	0.5	0.5	43.6	11.5	18.0	9.9	10.7	6.7	4.9	0.3	4.8	84.6	—	108.9	57.8	186.7
1972	—	0.5	0.5	45.9	14.1	16.5	10.7	13.3	7.6	4.1	1.8	4.5	71.6	—	118.1	63.7	181.8
1973	—	0.5	0.5	53.7	17.1	19.2	19.7	14.9	11.7	4.9	3.4	5.2	89.1	—	150.4	72.6	222.9
1974	—	1.1	1.1	84.8	27.4	39.5	15.8	25.9	16.2	4.8	7.6	7.0	143.1	—	269.0	103.8	372.8
1975	—	0.8	0.8	83.3	30.4	43.4	13.8	35.8	17.0	6.0	8.6	11.8	155.3	—	318.1	146.3	464.4
1976	—	3.2	3.2	79.2	29.0	65.9	14.5	28.6	17.6	4.9	8.0	12.5	191.2	—	263.6	186.1	449.7
1977	—	3.1	3.1	99.8	29.6	108.0	25.9	36.8	14.4	4.7	13.8	14.5	244.6	—	347.5	213.4	560.9
1978	—	2.5	2.5	93.5	38.3	125.7	36.1	31.1	18.9	4.4	12.1	13.3	277.8	—	373.9	239.5	613.3
1979	—	2.4	2.4	152.1	46.4	113.2	21.8	46.1	29.7	5.5	48.0	15.3	320.0	—	474.8	273.8	748.2
1980	—	2.8	2.8	183.8	48.1	111.3	7.8	48.8	28.7	4.1	37.3	22.3	388.3	—	492.9	319.2	812.1
1981	—	4.9	4.9	234.3	86.3	228.8	2.2	43.5	35.7	4.5	42.5	17.3	428.4	—	657.6	349.7	1,007.3
1982	—	4.6	4.6	345.8	52.7	192.9	6.4	43.0	31.2	—	61.9	14.0	402.0	—	762.3	351.1	1,103.6
1983	—	8.7	8.7	403.5	58.8	R 186.4	6.4	35.8	32.1	—	9.7	17.0	R 338.8	—	R 746.2	388.9	R 1,115.1
1984	—	9.3	9.3	412.9	104.9	R 184.2	10.1	59.0	35.6	20.5	7.7	22.9	R 444.9	—	R 867.1	389.7	R 1,263.6
1985	—	18.7	18.7	338.6	95.5	R 184.8	8.9	86.4	33.1	34.6	2.2	19.2	R 408.6	—	R 748.8	401.8	R 1,149.9
1986	—	10.3	10.3	241.6	51.9	R 97.4	R 0.7	40.7	26.7	21.6	13.0	R 11.2	R 275.1	—	R 626.9	426.5	R 953.3
1987	—	11.3	11.3	194.7	47.2	R 140.6	R 1.2	34.1	26.4	29.0	0.6	R 12.7	R 285.9	—	R 491.9	444.8	R 936.6
1988	—	10.5	10.5	204.7	52.8	R 124.5	R 1.4	40.8	29.3	24.2	6.2	R 11.0	R 280.3	—	R 505.5	471.2	R 976.7
1989	—	10.5	10.5	218.8	37.6	R 133.2	R 1.1	65.6	29.8	23.8	12.4	R 12.2	R 313.7	—	R 545.0	467.7	R 1,032.7
1990	—	18.9	18.9	325.3	46.8	R 184.3	R 1.3	60.2	30.8	27.8	13.1	R 9.9	R 422.4	R 98.1	R 679.3	590.3	R 1,210.4
1991	—	9.8	9.8	213.4	55.2	R 144.2	R 1.1	77.6	31.8	31.4	1.8	R 37.1	R 380.1	34.3	R 637.8	537.5	R 1,175.1
1992	—	9.9	9.9	223.9	29.4	R 124.1	0.5	89.1	37.5	29.9	1.1	R 41.4	R 331.8	34.5	R 600.3	549.1	R 1,146.4
1993	—	10.4	10.4	R 258.0	30.6	R 105.1	R 1.1	R 81.1	37.2	R 17.3	R 2.2	R 35.5	R 290.0	35.5	R 694.8	594.0	R 1,188.8
1994	—	11.7	11.7	250.7	34.8	109.0	0.8	86.6	39.4	19.1	1.9	38.4	310.0	35.5	607.9	608.3	1,216.2

* Liquefied petroleum gases

* "Other" is the "other petroleum products" category described in Appendix A

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

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

R-Reviewed data

—No consumption, including cases where adjustments were made See explanation of adjustments in Section 7 of

Appendix A

Note: Expenditures totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 159. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Mississippi

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.33	—	2.17	2.02	0.73	1.33	5.80	2.84	0.43	3.54	2.68	—	2.68
1971	0.41	—	2.21	1.76	0.73	1.09	6.27	3.00	—	2.72	2.72	—	2.72
1972	0.42	—	2.19	1.65	0.78	1.44	5.56	2.99	0.59	2.69	2.69	—	2.69
1973	0.45	—	2.38	1.77	0.90	1.59	5.33	3.06	0.79	2.75	2.75	—	2.75
1974	0.93	—	3.23	2.65	1.58	2.65	7.22	4.17	1.44	3.76	3.76	—	3.76
1975	1.11	—	3.48	2.76	2.03	2.85	7.46	4.34	1.49	3.91	3.91	—	3.91
1976	1.18	—	3.59	3.23	2.18	2.91	7.05	4.87	1.54	4.18	4.18	—	4.18
1977	1.23	—	3.97	3.79	2.65	3.42	6.87	4.99	1.60	4.56	4.56	—	4.56
1978	—	—	4.29	3.69	2.85	3.83	7.80	5.17	1.51	4.86	4.86	—	4.86
1979	—	—	5.73	5.43	3.90	3.85	10.21	7.48	1.97	6.61	6.61	—	6.61
1980	—	—	9.02	7.87	4.38	4.92	14.36	18.53	2.85	8.71	8.71	—	8.71
1981	—	—	10.64	9.32	7.67	6.33	18.00	11.89	3.31	10.36	10.36	—	10.36
1982	—	—	10.92	8.65	7.42	8.41	17.25	11.02	3.45	9.90	9.90	—	9.90
1983	—	—	10.44	7.52	^R 8.15	8.97	16.96	8.82	3.23	^R 8.19	^R 8.19	—	^R 8.19
1984	—	—	10.87	7.35	^R 8.04	7.02	17.63	8.72	3.82	^R 8.06	^R 8.06	—	^R 8.06
1985	—	—	9.94	7.85	^R 8.84	7.19	17.61	8.75	4.03	7.87	7.87	—	7.87
1986	—	—	8.41	5.95	8.41	7.90	15.59	8.54	1.90	5.91	5.91	—	5.91
1987	—	—	7.55	6.44	8.97	7.94	12.70	8.97	1.92	6.20	6.20	—	6.20
1988	—	—	7.41	6.42	3.43	8.34	14.51	7.27	2.79	6.31	6.31	—	6.31
1989	—	—	8.28	7.12	3.92	8.42	14.46	8.07	2.15	7.12	7.12	—	7.12
1990	—	—	8.32	6.25	8.16	6.02	14.80	8.21	2.01	8.15	8.15	—	8.15
1991	—	—	8.71	7.73	4.89	5.87	16.79	8.92	1.71	7.40	7.40	—	7.40
1992	—	—	8.54	7.63	4.33	4.71	15.43	8.82	1.65	7.20	7.20	—	7.20
1993	—	—	8.24	7.69	3.95	4.82	18.94	^R 8.58	1.58	^R 7.23	^R 7.23	—	^R 7.23
1994	—	2.73	7.95	7.95	3.70	8.04	19.16	8.68	1.54	7.34	7.34	—	7.34

Expenditures in Million Nominal Dollars													
1970	(a)	—	3.5	31.8	6.3	2.4	8.7	386.8	(a)	488.1	488.1	—	488.1
1971	(a)	—	3.7	37.6	6.8	2.6	10.3	383.7	—	485.0	485.0	—	485.0
1972	(a)	—	3.7	38.4	6.6	3.0	11.7	427.5	0.6	489.5	489.5	—	489.5
1973	(a)	—	4.1	52.8	7.4	3.1	10.1	450.3	2.1	529.9	529.9	—	529.9
1974	(a)	—	3.9	62.8	13.0	5.0	13.1	610.8	8.6	735.3	735.3	—	735.3
1975	(a)	—	3.5	75.1	18.3	4.6	13.8	828.2	11.1	790.7	790.7	—	790.7
1976	(a)	—	3.1	105.3	16.9	5.9	14.6	688.1	11.6	845.4	845.4	—	845.4
1977	(a)	—	3.2	137.5	20.8	7.2	13.3	783.1	13.6	988.7	988.7	—	988.7
1978	—	—	3.2	155.9	21.4	8.3	15.6	828.9	15.9	1,052.2	1,052.2	—	1,052.2
1979	—	—	3.9	165.3	30.9	0.1	21.9	1,147.6	33.3	1,423.8	1,423.8	—	1,423.8
1980	—	—	6.4	288.0	53.3	2.7	27.4	1,478.2	88.0	1,918.3	1,918.3	—	1,918.3
1981	—	—	7.8	371.0	72.8	4.2	32.9	1,888.4	64.3	2,239.3	2,239.3	—	2,239.3
1982	—	—	5.8	348.3	137.6	6.0	29.6	1,822.4	52.3	2,102.2	2,102.2	—	2,102.2
1983	—	—	6.0	318.8	^R 101.0	7.7	29.7	1,239.0	39.3	^R 1,741.5	^R 1,741.5	—	^R 1,741.5
1984	—	—	6.3	351.9	^R 77.4	7.3	32.9	1,204.0	38.4	^R 1,719.3	^R 1,719.3	—	^R 1,719.3
1985	—	—	5.4	385.5	134.1	8.0	38.8	1,238.6	28.1	1,616.3	1,616.3	—	1,616.3
1986	—	—	5.8	342.3	93.8	5.3	26.5	961.8	21.1	1,446.5	1,446.5	—	1,446.5
1987	—	—	4.3	388.7	171.0	4.6	24.4	1,040.3	21.9	1,655.1	1,655.1	—	1,655.1
1988	—	—	4.6	460.4	154.6	4.1	27.1	1,095.6	30.7	1,797.1	1,797.1	—	1,797.1
1989	—	—	6.4	463.9	144.9	3.5	27.6	1,198.8	16.2	1,880.9	1,880.9	—	1,880.9
1990	—	—	6.3	472.5	231.1	2.4	28.5	1,543.4	19.7	2,083.4	2,083.4	—	2,083.4
1991	—	—	4.8	447.1	208.6	2.2	29.4	1,360.9	42.3	2,085.3	2,085.3	—	2,085.3
1992	—	—	4.1	463.4	269.5	1.6	34.6	1,346.1	27.2	2,146.6	2,146.6	—	2,146.6
1993	—	—	3.5	471.6	186.0	1.8	34.4	^R 1,417.7	32.3	^R 2,147.2	^R 2,147.2	—	^R 2,147.2
1994	—	(a)	2.9	464.6	141.4	4.6	36.4	1,472.5	34.6	2,177.3	2,177.3	—	2,177.3

^a Liquefied petroleum gases

R=Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)=Value less than 0.05 million nominal dollars

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 160. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Mississippi

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy *
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.26	0.37	0.46	0.61	—	0.46	—	—	0.27
1971	0.29	0.30	0.70	0.93	—	0.71	—	—	0.32
1972	0.36	0.31	0.89	0.82	—	0.69	—	—	0.37
1973	0.40	0.40	0.86	1.09	—	0.86	—	—	0.54
1974	0.61	0.56	1.62	2.09	—	1.62	—	—	1.01
1975	0.82	0.63	1.69	2.08	—	1.70	—	—	1.24
1976	1.03	1.27	1.70	2.24	—	1.71	—	—	1.44
1977	1.08	1.35	1.79	2.55	—	1.81	—	—	1.57
1978	1.44	1.41	1.76	2.50	—	1.77	—	—	1.64
1979	1.67	1.74	2.16	3.73	—	2.19	—	—	1.87
1980	1.94	2.11	3.83	6.47	—	3.86	—	—	2.18
1981	2.28	2.91	3.79	7.19	—	3.87	—	—	2.59
1982	2.43	3.17	3.82	6.73	—	4.20	—	—	2.79
1983	2.49	3.33	3.75	6.24	—	4.19	—	—	2.80
1984	2.43	2.96	3.76	6.09	—	4.39	1.08	—	2.60
1985	2.84	2.89	4.18	5.97	—	4.78	1.13	—	2.99
1986	2.23	2.32	2.96	4.45	—	2.13	1.15	—	2.05
1987	1.96	1.85	2.07	3.76	—	2.39	0.89	—	1.57
1988	1.91	1.85	3.18	4.99	—	3.29	1.40	—	1.70
1989	1.67	1.83	2.48	5.32	—	2.65	1.17	—	1.56
1990	1.68	1.76	2.35	4.86	—	2.44	1.11	—	1.84
1991	1.67	1.67	1.94	4.74	—	2.23	0.88	—	1.35
1992	1.80	1.80	1.86	4.68	—	1.98	0.70	—	1.31
1993	1.64	2.42	1.75	4.39	—	1.76	0.58	—	1.42
1994	1.57	1.90	1.58	4.16	—	1.65	0.82	—	1.30
Expenditures in Million Nominal Dollars									
1970	2.1	27.3	1.2	(a)	—	1.3	—	—	31.7
1971	3.6	31.9	4.3	0.1	—	4.5	—	—	39.9
1972	4.6	32.3	13.8	0.3	—	14.1	—	—	51.0
1973	11.4	25.1	32.0	0.4	—	32.4	—	—	69.0
1974	20.2	24.5	60.9	1.4	—	62.3	—	—	133.1
1975	26.9	26.9	67.8	3.2	—	100.8	—	—	154.7
1976	40.8	42.4	133.4	4.7	—	138.1	—	—	221.3
1977	29.3	53.6	196.3	6.6	—	193.5	—	—	283.6
1978	56.4	61.6	219.0	5.0	—	224.0	—	—	342.0
1979	97.0	112.8	142.3	1.1	—	143.4	—	—	353.1
1980	135.5	204.2	88.7	2.2	—	98.9	—	—	438.6
1981	163.4	197.8	66.4	3.4	—	69.9	—	—	451.0
1982	236.1	269.0	6.8	2.3	—	11.1	—	—	518.9
1983	229.9	170.3	3.9	1.4	—	5.4	—	—	405.5
1984	240.0	185.1	2.9	1.6	—	4.4	1.9	—	431.5
1985	262.4	185.6	2.8	2.1	—	4.8	53.1	—	476.1
1986	236.1	114.4	17.8	1.2	—	18.9	50.6	—	420.1
1987	226.0	78.2	2.0	0.8	—	2.8	74.1	—	381.2
1988	223.0	63.0	22.2	1.7	—	23.9	143.6	—	453.7
1989	150.8	84.5	19.9	2.7	—	22.6	97.9	—	365.7
1990	161.3	118.1	17.4	1.4	—	18.8	67.9	—	387.1
1991	149.6	100.6	7.4	2.2	—	9.5	88.7	—	346.6
1992	128.3	100.2	7.2	0.8	—	8.0	61.3	—	298.6
1993	152.6	96.5	60.4	0.9	—	61.3	47.0	—	359.5
1994	141.8	163.4	16.7	1.2	—	17.9	53.5	—	378.5

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

—No consumption.

(a)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 161. Energy Price and Expenditure Estimates by Source, 1970-1994, Missouri

Year	Primary Energy													Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c	
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biofuels				Total ^c
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																	
1970	0.38	0.28	0.29	0.64	1.86	0.75	1.78	2.73	0.58	R1.38	1.97	—	—	1.96	0.28	6.17	1.94
1971	0.44	0.30	0.30	0.67	1.11	0.78	1.79	2.89	0.66	R1.48	2.12	—	—	1.24	0.29	6.32	1.97
1972	0.57	0.32	0.33	0.75	1.11	0.79	1.85	2.86	0.60	R1.57	2.11	—	—	1.25	0.31	6.54	2.02
1973	0.66	0.36	0.37	0.78	1.33	0.93	2.89	3.15	0.75	R1.59	2.38	—	—	1.37	0.34	6.61	2.23
1974	1.29	0.46	0.48	0.89	2.36	1.60	2.89	4.32	1.71	R2.51	3.40	—	—	1.87	0.44	7.60	2.91
1975	1.60	0.60	0.62	1.16	2.92	2.08	3.06	4.55	1.76	R2.94	3.88	—	—	2.68	0.57	8.64	3.32
1976	1.67	0.68	0.70	1.37	2.70	2.26	3.49	4.75	1.75	R3.07	3.94	—	—	2.23	0.68	9.87	3.60
1977	1.78	0.80	0.81	1.94	2.98	2.69	3.99	5.04	2.05	R3.22	4.10	—	—	2.50	0.81	10.29	4.03
1978	1.89	1.04	1.06	1.95	3.10	2.90	3.90	5.01	2.01	R3.34	4.11	—	—	2.66	1.06	11.49	4.29
1979	1.75	1.10	1.11	2.52	4.49	4.03	5.22	6.60	2.48	R4.53	5.06	—	—	3.44	1.11	12.24	5.47
1980	1.81	1.21	1.22	2.66	4.81	6.47	6.32	9.33	3.39	R4.93	6.04	—	—	4.39	1.25	13.81	7.20
1981	2.03	1.37	1.38	3.65	7.66	7.90	6.80	10.15	3.85	R9.02	9.22	—	—	5.01	1.39	14.61	8.20
1982	2.04	1.45	1.45	4.80	7.56	7.19	7.29	9.86	4.18	R8.15	8.83	—	—	5.18	1.46	16.89	8.83
1983	1.58	1.50	1.50	5.54	R6.89	R6.44	7.42	8.74	4.18	R8.27	8.82	—	—	R4.01	1.53	16.86	6.59
1984	1.91	1.50	1.50	5.38	R7.07	R6.27	7.27	8.46	4.64	R8.28	R7.80	0.78	—	R4.74	1.50	16.11	R6.29
1985	1.83	1.51	1.51	4.94	R6.79	5.90	8.12	8.59	4.08	R7.85	R7.86	0.82	—	R4.89	1.41	17.18	R6.29
1986	1.75	1.46	1.46	4.52	R5.27	3.95	6.61	6.11	3.25	R5.79	6.77	0.82	—	3.75	1.36	16.46	7.34
1987	1.63	1.40	1.40	4.28	R6.75	4.13	6.71	6.81	2.80	R6.70	R6.25	0.82	—	R5.88	1.31	18.90	R7.60
1988	—	1.37	1.37	4.37	R5.50	3.99	7.00	6.82	2.14	R6.25	R6.10	0.73	—	R5.78	1.29	18.94	R7.63
1989	—	1.35	1.35	4.51	R6.15	4.38	7.34	7.45	2.38	R6.78	R6.72	0.71	—	R6.04	1.26	18.92	R8.04
1990	—	1.38	1.38	4.88	R7.43	5.88	8.91	8.81	2.84	R6.96	R7.78	0.74	2.08	R4.51	1.27	18.94	R8.80
1991	—	1.34	1.34	4.52	R6.91	4.81	7.95	8.30	2.16	R6.78	R7.48	0.71	3.04	R4.27	1.24	19.95	R8.69
1992	—	1.34	1.34	4.88	R6.80	4.57	7.33	8.11	2.22	R6.61	R7.84	0.58	3.10	R4.30	1.23	19.79	R8.47
1993	—	1.25	1.25	4.88	R6.75	4.24	8.00	R7.02	2.23	R6.28	R7.06	0.58	3.02	R4.41	1.14	18.56	R8.43
1994	—	1.12	1.12	4.98	8.77	3.94	7.76	8.16	1.63	4.87	7.04	0.49	2.98	4.22	1.01	19.41	8.42
Expenditures in Million Nominal Dollars																	
1970	3.1	77.2	80.3	265.4	98.1	34.1	79.5	803.2	11.4	R99.9	1,027.1	—	—	1,072.7	-78.3	642.4	1,099.9
1971	3.7	86.9	89.6	280.3	105.6	35.6	80.3	891.7	10.5	R99.5	1,223.2	—	—	1,093.1	-93.8	694.9	2,064.2
1972	4.9	105.2	110.1	313.5	118.1	37.0	85.6	919.7	9.7	R104.1	1,273.2	—	—	1,086.8	-107.6	838.6	2,228.6
1973	6.0	134.0	140.0	320.7	147.6	42.1	131.7	1,027.9	14.0	R122.7	1,486.0	—	—	1,948.7	-135.1	706.6	2,517.2
1974	10.1	173.5	183.6	368.1	241.6	68.3	134.1	1,388.2	22.3	R167.7	2,051.0	—	—	2,592.7	-168.6	784.8	3,208.6
1975	51.8	254.9	266.9	428.0	261.8	96.2	147.5	1,480.4	21.7	R188.2	2,388.7	—	—	2,888.5	-234.0	874.3	3,693.8
1976	13.1	315.0	328.1	613.9	312.8	100.7	171.5	1,625.9	27.7	R262.8	2,491.4	—	—	3,335.5	-294.2	1,144.6	4,194.2
1977	15.1	395.5	410.6	685.7	359.8	121.1	185.9	1,782.3	39.9	R300.2	2,779.2	—	—	3,855.5	-394.9	1,261.4	4,742.9
1978	10.2	500.4	510.6	681.0	416.3	133.3	188.5	1,787.3	40.6	R345.0	2,913.1	—	—	4,114.7	-611.5	1,544.7	5,147.9
1979	13.0	553.6	566.6	835.9	605.1	170.6	250.1	2,305.7	45.9	R462.3	3,699.7	—	—	5,252.2	-647.3	1,888.5	6,393.3
1980	9.6	637.7	647.4	828.2	788.2	228.5	211.7	2,888.0	23.2	R637.4	4,698.9	—	—	6,274.5	-638.6	2,822.4	7,657.4
1981	10.0	727.1	737.1	1,014.9	833.7	203.8	182.4	3,122.9	13.0	R738.2	5,082.0	—	—	6,844.0	-700.0	2,106.7	8,250.8
1982	8.1	782.5	790.6	1,342.0	921.7	177.8	235.7	3,002.6	19.1	R618.5	4,675.4	—	—	7,077.9	-731.8	2,301.9	8,648.0
1983	6.4	841.5	847.9	1,464.6	R689.0	R199.0	241.5	2,907.9	18.8	R680.3	R4,424.2	—	—	R6,725.7	-813.9	2,612.8	R8,524.6
1984	5.4	887.1	892.5	1,414.0	R786.4	R199.0	145.7	2,068.1	10.9	R637.0	R4,428.0	7.8	—	R6,742.4	-860.7	2,496.6	R8,388.2
1985	12.8	788.8	801.6	1,284.0	R774.6	196.6	163.3	2,868.9	18.8	R684.7	R4,447.9	71.3	—	R6,804.1	-811.3	2,712.8	R8,994.4
1986	10.8	739.3	750.1	1,059.0	R682.2	149.9	142.1	2,034.0	7.8	R486.1	R3,382.1	63.1	—	R5,264.3	-761.7	3,036.6	R7,841.2
1987	3.4	739.0	741.4	994.0	R645.3	174.6	152.9	2,274.5	11.1	R472.8	R3,730.9	34.9	—	R5,501.2	-733.6	3,232.8	R8,000.2
1988	—	751.9	751.9	1,090.0	R680.0	160.8	157.6	2,326.8	10.1	R482.4	R3,827.7	79.3	—	R5,740.0	-761.8	3,377.6	R8,335.1
1989	—	740.3	740.3	1,124.5	R793.4	179.6	224.6	2,432.9	8.3	R487.1	R4,185.9	63.1	—	R6,113.9	-762.3	3,396.0	R8,748.9
1990	—	728.8	728.8	1,107.9	R898.0	283.8	222.1	2,679.3	10.0	R531.9	R4,753.0	82.9	17.5	R6,871.2	-784.7	3,485.8	R9,401.6
1991	—	717.7	717.7	1,157.2	R917.1	204.2	248.2	2,786.1	7.4	R549.5	R4,412.6	78.6	18.8	R6,362.7	-774.2	3,654.0	R9,262.6
1992	—	869.9	869.9	1,099.3	R980.4	184.8	225.0	2,780.7	9.3	R583.3	R4,462.4	49.7	19.2	R6,320.9	-716.7	3,489.0	R9,103.1
1993	—	582.1	582.1	1,322.7	R986.9	216.8	278.6	R2,750.9	15.1	R582.7	R4,518.4	50.1	16.8	R6,489.7	-809.6	3,710.0	R9,590.1
1994	—	606.0	606.0	1,294.1	986.6	237.2	265.3	2,860.9	8.5	404.3	4,774.7	52.4	16.3	6,743.5	-636.0	3,748.6	9,556.2

* Liquidated petroleum gases

* "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A

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

* There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990

R-Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 162. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Missouri

Year	Primary Energy								Electricity	Total Energy ^e
	Coal	Natural Gas	Petroleum				Nuclear ^b	Total ^c		
			Distillate Fuel	Kerosene	LPG ^a	Total				
Prices in Nominal Dollars per Million Btu										
1970	8.28	0.86	1.18	1.43	1.85	1.81	—	1.13	7.88	2.89
1971	1.04	1.01	1.29	1.56	1.93	1.81	—	1.18	7.85	2.20
1972	1.06	1.08	1.30	1.59	1.99	1.85	—	1.25	8.05	2.30
1973	0.77	1.16	1.41	1.83	3.34	2.84	—	1.58	8.27	2.70
1974	1.40	1.25	2.43	2.78	2.98	2.87	—	1.61	9.17	2.88
1975	1.72	1.46	2.62	2.88	3.26	3.14	—	1.85	10.08	3.39
1976	1.63	1.59	2.68	3.15	3.78	3.59	—	2.09	11.10	3.72
1977	2.00	2.17	3.22	3.65	4.25	4.05	—	2.58	11.75	4.41
1978	2.04	2.27	3.30	3.89	4.63	3.87	—	2.60	12.92	4.79
1979	1.88	2.52	4.91	5.35	6.53	6.07	—	3.41	13.69	5.67
1980	1.70	3.23	6.85	7.55	7.96	7.91	—	3.80	15.21	6.88
1981	1.73	3.96	8.12	9.73	7.04	7.43	—	4.51	16.30	7.62
1982	1.88	5.11	7.84	9.73	8.21	8.16	—	5.56	17.92	8.75
1983	2.10	5.98	7.22	8.82	7.78	7.71	—	6.22	19.07	9.99
1984	2.04	5.75	7.08	8.93	7.55	7.48	—	5.91	17.84	9.47
1985	1.73	8.44	6.70	6.46	7.83	7.83	—	5.80	19.27	8.66
1986	1.54	4.98	4.95	6.24	5.31	5.60	—	5.04	20.87	10.08
1987	1.37	4.71	4.58	5.87	5.41	6.06	—	4.85	21.59	10.44
1988	1.25	4.73	4.71	5.84	5.32	6.37	—	4.69	21.49	10.34
1989	1.49	4.80	5.88	7.41	6.02	7.74	—	5.17	21.50	10.37
1990	1.58	5.15	7.27	9.95	6.81	8.53	^d 3.55	^d 5.57	21.59	^d 10.61
1991	1.53	5.10	6.75	6.51	6.54	6.34	3.56	^d 5.49	21.68	^d 10.64
1992	1.30	5.10	6.36	6.76	7.52	7.31	3.58	^d 5.34	21.60	^d 10.34
1993	1.72	5.35	5.48	6.98	7.23	7.08	3.58	^d 5.51	21.29	^d 10.42
1994	0.89	5.40	5.32	7.97	8.13	7.97	3.58	5.59	21.37	10.80
Expenditures in Million Nominal Dollars										
1970	6.8	168.9	6.1	6.8	68.9	78.5	—	227.1	269.5	488.5
1971	0.6	165.9	9.8	0.7	65.7	76.3	—	232.8	279.6	512.4
1972	0.7	175.6	11.8	0.4	71.0	82.9	—	259.3	306.8	566.1
1973	1.2	175.3	12.7	0.4	116.9	130.1	—	309.5	338.8	648.2
1974	2.3	194.1	19.8	0.6	101.8	122.2	—	318.5	370.1	688.6
1975	2.0	232.0	21.8	0.5	115.5	137.9	—	371.8	466.8	840.7
1976	2.2	272.2	25.7	0.6	130.9	157.3	—	431.7	503.5	935.3
1977	1.7	338.5	27.9	0.8	145.5	173.6	—	511.7	682.6	1,094.3
1978	0.8	384.0	31.5	0.7	131.6	164.1	—	531.9	700.9	1,241.8
1979	4.4	444.6	50.7	1.4	169.7	221.7	—	670.7	783.1	1,433.8
1980	1.1	471.2	49.7	2.8	138.4	181.7	—	654.0	847.8	1,522.0
1981	1.4	516.9	68.5	4.2	119.4	190.1	—	708.4	914.4	1,622.7
1982	1.1	707.3	81.4	6.8	143.2	201.3	—	808.6	1,021.8	1,831.0
1983	2.1	775.2	89.8	3.5	181.3	194.3	—	971.6	1,239.3	2,208.9
1984	2.0	783.9	31.3	5.1	88.2	122.6	—	888.5	1,131.9	2,020.3
1985	2.3	703.3	31.5	4.8	84.8	131.3	—	848.7	1,218.3	2,063.8
1986	1.3	608.9	23.6	2.0	82.5	109.3	—	719.4	1,388.2	2,102.6
1987	2.6	562.4	17.8	1.9	96.1	115.8	—	670.6	1,496.5	2,167.1
1988	2.1	610.8	17.4	2.0	96.2	115.8	—	723.5	1,568.0	2,293.5
1989	2.8	625.1	19.2	2.9	147.4	165.5	—	794.3	1,545.0	2,339.4
1990	3.4	804.1	98.0	1.8	188.1	182.8	^d 18.1	^d 785.2	1,599.0	^d 2,378.3
1991	3.0	820.3	18.8	1.8	182.4	188.1	18.9	^d 827.2	1,726.0	^d 2,555.2
1992	2.3	806.1	11.2	0.8	161.0	163.0	16.7	^d 778.1	1,584.0	^d 2,382.1
1993	3.5	720.5	13.2	1.6	182.9	187.6	13.9	^d 905.6	1,767.0	^d 2,682.8
1994	1.7	665.5	13.0	1.1	170.5	184.6	13.6	985.5	1,754.0	2,819.5

^a Liquefied petroleum gases^b Commercial and/or gross and expenditures for wood and waste are included in the residential sector^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

Refrused data

—No consumption

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 163. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Missouri

Year	Primary Energy										Electricity	Total Energy ^a
	Coal	Natural Gas	Petroleum					Total	Total			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Heating Fuel					
Prices in Nominal Dollars per million Btu												
1970	0.49	0.82	1.83	0.22	1.27	2.73	0.57	0.33	0.89	7.06	1.66	
1971	0.43	0.85	1.11	0.88	1.36	2.89	0.67	1.08	0.73	7.23	1.78	
1972	0.53	0.74	1.12	0.89	1.32	2.96	0.59	1.08	0.90	7.37	1.89	
1973	0.55	0.78	1.24	1.03	1.41	3.13	0.78	1.23	0.96	7.60	2.00	
1974	0.82	0.80	2.29	2.28	2.46	4.32	1.79	2.34	1.14	8.43	2.43	
1975	1.17	1.14	2.45	2.48	2.49	4.55	1.77	2.45	1.28	8.48	2.87	
1976	1.23	1.50	2.57	2.50	2.60	4.75	1.72	2.52	1.63	10.56	3.07	
1977	1.27	1.66	3.01	2.83	3.59	5.04	2.03	2.66	2.04	10.65	4.22	
1978	1.42	1.99	3.07	3.09	3.63	5.07	1.93	2.85	2.15	12.79	4.57	
1979	1.51	2.58	4.80	3.16	3.79	6.93	2.52	3.93	2.79	12.79	5.40	
1980	1.88	2.88	4.80	4.70	5.42	9.33	3.47	5.74	3.32	14.53	6.87	
1981	1.89	3.94	7.80	7.27	6.39	10.13	4.50	7.62	4.07	15.42	7.91	
1982	1.71	4.66	7.46	7.13	6.21	9.86	4.09	7.27	4.08	16.70	8.80	
1983	1.61	5.46	6.36	6.74	6.90	8.74	4.20	6.54	4.30	17.59	9.65	
1984	1.90	5.18	6.37	6.83	6.89	8.48	4.66	6.53	4.56	17.01	10.42	
1985	1.86	4.88	6.54	6.54	6.12	8.17	4.11	6.72	4.35	17.04	10.42	
1986	1.39	4.35	6.70	6.45	6.17	8.11	2.25	6.42	4.11	19.04	10.62	
1987	1.27	4.09	6.42	6.42	7.29	8.62	2.20	6.42	4.14	19.04	10.62	
1988	1.27	4.17	6.42	6.42	7.27	8.62	2.20	6.42	4.14	19.06	10.62	
1989	1.29	4.31	6.42	6.42	7.27	8.62	2.41	6.54	4.30	19.03	10.80	
1990	1.31	4.48	6.46	6.46	7.32	8.61	2.50	6.43	4.35	19.08	11.15	
1991	1.31	4.48	6.46	6.46	7.32	8.61	2.21	6.59	4.49	18.78	11.25	
1992	1.34	4.46	6.54	6.54	8.94	8.90	2.26	6.59	4.49	18.80	11.25	
1993	1.36	4.74	6.46	6.54	9.21	8.92	2.26	6.59	4.49	18.45	11.01	
1994	1.43	4.62	4.26	6.31	7.75	8.16	1.62	6.53	4.79	18.26	11.18	

Expenditures in millions of dollars

Year	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG ^c	Motor Gasoline	Heating Fuel	Total	Electricity	Total Energy ^b
1970	6.8	54.9	6.5	2.0	7.5	2.2	6.8	24.2	79.5	167.3
1971	0.5	58.2	7.0	2.5	8.2	2.3	5.6	25.6	84.3	161.6
1972	0.7	73.8	8.2	1.3	8.3	2.3	3.5	22.6	97.5	176.7
1973	1.6	71.0	9.3	1.8	8.7	2.6	4.4	26.8	99.2	186.7
1974	2.5	80.9	13.4	2.9	18.0	3.6	10.1	48.0	131.3	203.6
1975	2.5	104.7	16.9	2.4	16.5	3.8	8.3	47.2	154.4	246.5
1976	3.1	133.3	19.6	4.0	17.1	4.0	10.6	55.3	181.5	299.4
1977	2.0	173.9	21.1	3.8	20.4	4.3	15.3	64.8	240.7	426.8
1978	4.9	197.5	24.4	3.3	20.9	4.9	14.0	88.9	283.3	600.2
1979	6.4	209.7	41.0	6.1	17.4	6.0	19.3	89.7	335.3	644.8
1980	1.8	222.7	47.3	5.9	17.5	6.0	12.1	84.4	394.6	644.7
1981	2.3	245.9	56.1	18.6	19.1	13.9	0.6	87.6	539.0	697.0
1982	2.1	303.2	45.5	23.7	19.1	11.7	0.8	100.9	426.2	727.4
1983	3.0	370.7	63.3	1.3	24.9	9.7	6.2	112.3	478.0	783.1
1984	2.9	364.2	66.8	1.1	18.9	12.6	4.5	97.4	454.4	646.0
1985	3.8	244.5	61.8	1.2	28.3	11.8	3.5	87.9	391.1	590.8
1986	2.1	272.1	61.8	0.2	20.8	10.4	7.8	64.6	328.1	544.8
1987	4.1	239.2	45.5	0.2	18.3	11.2	2.0	78.2	424.8	603.0
1988	4.1	239.2	45.5	0.2	18.3	11.2	2.0	78.2	424.8	603.0
1989	4.1	239.2	45.5	0.2	18.3	11.2	2.0	78.2	424.8	603.0
1990	5.3	273.6	47.7	0.3	20.5	8.3	0.5	83.7	453.7	631.4
1991	4.8	286.0	48.1	0.3	21.8	8.7	1.8	81.7	453.7	631.4
1992	4.8	286.0	48.1	0.3	21.8	8.7	1.8	81.7	453.7	631.4
1993	5.1	272.8	48.1	0.4	24.7	8.7	0.1	82.2	453.7	631.4
1994	4.6	321.1	29.6	0.4	28.7	4.4	0.2	63.3	408.1	569.0

^a Liquid petroleum gases
^b Major use: no direct fuel costs for photovoltaic and solar thermal energy sources
^c Expenditures for wood and waste are included in the residential sector
^d Revised data

(a) Value less than 0.05 million nominal dollars
 Note: Expenditures scale may not equal sum of components due to independent rounding
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 164. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Missouri

Year	Primary Energy															Electricity	Total Energy ^c	
	Coal			Natural Gas	Petroleum										Biofuels ^c			Total ^c
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Heating Fuel	Other ^b	Total					
Prices in Nominal Dollars per Million Btu																		
1970	0.88	0.49	0.47	0.40	0.77	0.77	0.82	1.27	5.88	2.73	0.53	1.44	1.79	—	0.77	4.91	1.12	
1971	0.44	0.43	0.43	0.43	0.82	0.82	0.89	1.38	5.27	2.89	0.63	1.56	1.29	—	0.81	4.15	1.20	
1972	0.57	0.53	0.54	0.44	0.84	0.82	0.89	1.32	5.58	2.88	0.64	1.56	1.28	—	0.83	4.37	1.25	
1973	0.66	0.55	0.58	0.48	0.81	0.86	1.08	1.41	5.33	3.13	0.81	1.73	1.42	—	0.82	4.65	1.34	
1974	1.20	0.82	0.90	0.57	1.70	2.10	2.26	2.65	7.22	4.32	1.60	2.31	2.37	—	1.43	6.41	1.92	
1975	1.80	1.17	1.24	0.88	2.68	2.26	2.40	2.48	7.88	4.64	1.82	2.77	2.69	—	1.75	6.46	2.48	
1976	1.67	1.23	1.30	0.99	1.98	2.42	2.60	2.80	7.95	4.75	1.83	3.08	2.94	—	1.86	7.36	2.54	
1977	1.78	1.27	1.36	1.44	2.03	2.68	2.83	3.38	6.87	5.04	2.15	3.37	3.06	—	2.87	7.79	2.87	
1978	1.69	1.42	1.48	1.46	2.10	2.84	3.89	3.63	7.80	5.01	2.10	3.48	3.16	—	2.48	8.91	3.28	
1979	1.75	1.51	1.60	1.68	2.61	3.88	3.78	3.79	10.21	6.08	2.50	4.79	4.08	—	3.25	9.64	4.04	
1980	1.81	1.88	1.81	2.61	3.88	6.88	6.46	8.42	14.98	8.38	3.08	7.38	6.38	—	4.83	11.21	5.49	
1981	2.03	1.89	1.73	3.28	4.54	7.00	7.37	8.38	18.00	10.15	3.78	9.80	7.92	—	6.45	11.80	6.51	
1982	2.04	1.71	1.75	4.34	4.83	6.75	7.15	8.21	17.25	9.88	4.13	8.18	7.18	—	5.83	13.02	6.74	
1983	1.58	1.61	1.61	4.88	4.93	^R 6.67	8.74	6.98	16.86	8.74	4.12	8.21	^R 7.33	—	^R 5.51	13.25	^R 6.97	
1984	1.31	1.60	1.62	4.73	5.19	^R 6.81	6.83	6.88	17.53	8.48	4.68	8.08	^R 7.34	—	^R 5.46	12.32	^R 6.84	
1985	1.83	1.58	1.62	4.94	4.77	^R 6.38	^R 6.50	9.12	17.81	8.98	4.11	7.85	^R 6.98	—	^R 5.87	13.14	^R 6.82	
1986	1.75	1.36	1.44	3.75	3.81	^R 4.07	^R 4.20	0.17	15.59	9.11	2.25	5.14	^R 5.05	—	3.98	14.02	^R 6.78	
1987	1.63	1.27	1.29	3.61	3.70	^R 4.61	^R 4.85	7.29	12.70	4.81	2.61	5.42	^R 5.14	—	^R 4.05	14.36	^R 6.87	
1988	—	1.27	1.27	3.79	3.59	^R 4.17	^R 4.30	7.27	14.81	6.82	2.20	4.82	^R 4.70	—	^R 3.88	14.48	^R 6.86	
1989	—	1.29	1.29	4.10	3.12	^R 4.73	^R 4.88	9.32	14.46	7.45	2.41	5.63	^R 5.16	—	^R 4.22	14.58	^R 6.88	
1990	—	1.31	1.31	4.94	3.11	^R 5.82	^R 6.81	7.88	14.89	8.81	2.44	8.87	^R 5.88	^d 1.67	^d 4.89	14.88	^d 6.91	
1991	—	1.34	1.34	4.04	3.22	^R 5.19	^R 5.35	8.94	16.79	8.30	2.21	^R 4.43	^R 5.06	1.88	^R 4.07	14.37	^R 6.18	
1992	—	1.35	1.35	3.86	2.46	^R 5.13	^R 5.29	8.88	18.43	8.11	2.28	^R 4.00	^R 4.75	1.87	^R 3.92	14.02	^R 6.89	
1993	—	1.36	1.36	4.23	2.86	^R 4.97	^R 5.13	8.21	18.94	^R 7.82	2.28	^R 3.87	^R 5.11	1.67	^R 4.24	13.82	^R 6.14	
1994	—	1.45	1.43	4.15	2.74	4.82	4.98	6.80	18.18	9.16	1.62	3.78	4.71	1.67	4.11	13.55	5.86	
Expenditures in Million Nominal Dollars																		
1970	2.1	17.3	20.4	42.9	26.8	26.4	0.7	5.8	12.8	39.7	4.4	32.4	147.7	—	211.0	138.6	349.6	
1971	3.7	13.5	17.2	45.5	31.8	29.7	0.9	5.9	11.3	41.7	3.7	28.7	147.6	—	210.3	143.7	354.0	
1972	4.9	20.7	25.7	42.8	31.2	29.2	0.8	5.9	12.9	37.9	3.2	28.8	148.9	—	218.3	156.1	374.5	
1973	6.0	18.4	24.4	53.3	36.4	35.0	0.8	5.8	15.4	67.9	7.3	39.8	182.2	—	269.9	173.3	443.2	
1974	10.1	29.2	39.2	82.3	74.8	68.0	0.7	15.4	29.0	61.9	7.9	45.1	293.0	—	393.5	307.7	691.2	
1975	11.9	44.9	56.8	71.5	73.3	78.7	1.9	35.8	22.3	84.7	7.5	86.4	318.7	—	498.8	389.0	887.7	
1976	13.1	50.5	63.6	89.4	80.8	88.1	3.5	22.8	23.3	61.2	9.2	120.0	388.7	—	541.7	341.9	783.6	
1977	15.1	50.7	65.8	127.3	67.1	89.0	3.7	29.3	28.3	81.3	13.1	153.3	454.8	—	648.0	372.0	820.0	
1978	10.2	49.5	59.7	99.1	80.8	121.2	3.5	34.4	33.2	66.1	11.6	172.0	512.6	—	671.4	344.8	1,016.2	
1979	13.0	51.6	64.6	121.9	83.8	162.2	2.8	71.9	48.6	68.2	15.4	250.6	701.5	—	882.3	360.6	1,242.9	
1980	9.8	48.4	58.0	201.1	95.3	182.3	3.9	63.4	58.4	91.4	7.8	383.3	864.5	—	1,122.8	499.8	1,622.6	
1981	10.0	56.7	66.7	222.0	95.6	211.3	3.0	40.5	70.2	79.5	11.5	437.5	949.1	—	1,347.8	541.3	1,789.2	
1982	8.1	49.2	57.3	285.0	101.1	298.0	3.0	70.7	61.3	82.2	14.8	329.3	878.3	—	1,220.5	552.7	1,773.2	
1983	5.4	49.8	55.2	297.1	111.8	^R 114.4	1.2	51.8	69.2	42.2	7.2	303.8	^R 886.6	—	^R 1,047.9	583.4	^R 1,631.2	
1984	5.4	57.8	63.2	286.1	136.5	^R 122.4	1.1	41.1	70.0	50.7	5.4	318.8	^R 747.1	—	^R 1,068.1	518.8	^R 1,614.9	
1985	12.9	54.7	67.7	276.4	135.3	^R 196.5	0.8	49.8	65.2	48.4	14.4	286.7	^R 744.5	—	^R 1,087.6	588.8	^R 1,621.5	
1986	10.6	45.5	56.1	208.6	116.8	^R 164.6	0.2	34.3	68.4	30.8	6.3	204.9	^R 513.6	—	^R 776.5	606.6	^R 1,386.1	
1987	3.4	41.8	45.2	198.3	108.8	^R 127.7	0.3	34.0	62.0	34.2	8.8	294.2	^R 553.0	—	^R 796.5	615.0	^R 1,411.5	
1988	—	45.3	45.3	298.7	132.8	^R 91.4	0.6	50.5	67.6	31.9	7.3	209.0	^R 575.1	—	^R 827.0	619.0	^R 1,446.0	
1989	—	42.5	42.5	222.8	84.1	^R 88.0	^R 0.8	64.0	68.6	30.4	6.4	240.3	^R 573.7	—	^R 836.9	635.0	^R 1,471.9	
1990	—	39.9	39.9	228.5	82.3	^R 102.0	0.3	61.7	68.8	23.9	6.8	286.4	^R 631.7	^d 2.4	^d 988.8	640.8	^d 1,622.6	
1991	—	39.8	39.6	233.3	96.7	^R 89.9	^R 0.7	51.3	62.6	33.0	6.8	^R 105.6	^R 435.3	3.0	^R 710.4	643.0	^R 1,353.4	
1992	—	35.9	35.9	226.3	82.8	^R 97.3	0.2	47.0	73.8	28.5	8.9	^R 117.8	^R 436.1	2.5	^R 700.7	643.0	^R 1,343.7	
1993	—	37.7	37.7	258.2	77.8	^R 81.1	0.1	66.3	73.2	^R 61.1	14.4	^R 101.3	^R 484.8	2.5	^R 794.0	642.0	^R 1,436.0	
1994	—	35.2	35.2	289.8	103.9	97.9	0.3	59.7	77.6	89.6	4.7	103.7	517.3	2.6	654.3	652.0	1,306.3	

^a Liquefied petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.^RRevised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 168. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Missouri

Year	Primary Energy										Electricity	Total Energy
	Coal	Natural Gas	Petroleum							Total		
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG*	Lubricants	Motor Gasoline	Residual Fuel			
Prices in Nominal Dollars per Million Btu												
1970	0.49	—	2.17	1.34	0.75	1.27	6.88	2.73	0.95	2.32	—	2.32
1971	0.43	—	2.21	1.27	0.75	1.36	5.27	2.89	0.88	2.47	—	2.47
1972	0.53	—	2.19	1.29	0.75	1.32	5.59	2.86	0.66	2.45	—	2.45
1973	0.55	—	2.36	1.65	0.93	1.41	5.33	3.13	0.73	2.70	—	2.70
1974	0.82	—	3.23	2.52	1.80	2.05	7.22	4.32	1.70	3.83	—	3.83
1975	1.17	—	3.46	2.73	2.89	2.49	7.49	4.56	1.73	4.67	—	4.67
1976	1.23	—	3.59	2.89	2.28	2.80	7.05	4.75	1.89	4.27	—	4.27
1977	1.27	—	3.97	3.15	2.69	3.38	6.97	5.04	1.67	4.59	—	4.59
1978	—	—	4.29	3.31	2.90	3.63	7.50	5.01	1.85	4.99	—	4.99
1979	—	—	5.73	5.02	4.05	5.79	10.21	6.03	2.39	6.39	—	6.39
1980	—	—	8.02	6.87	6.40	5.82	14.38	8.23	3.38	8.78	—	8.78
1981	—	—	10.84	8.28	7.80	8.38	18.90	10.16	4.96	9.79	—	9.79
1982	—	—	10.92	7.99	7.19	8.21	17.26	9.89	4.20	9.45	—	9.45
1983	—	—	12.44	7.17	^R 6.44	8.90	16.98	8.74	4.05	8.42	—	8.42
1984	—	—	10.27	7.39	^R 6.27	8.99	17.83	8.40	4.51	8.22	—	8.22
1985	—	—	8.99	7.89	5.99	8.12	17.81	8.96	3.89	8.19	—	8.19
1986	—	—	8.41	5.75	3.95	6.17	15.59	8.11	2.54	5.98	—	5.98
1987	—	—	7.55	6.23	4.13	7.29	12.70	8.81	—	6.55	—	6.55
1988	—	—	7.41	6.30	3.99	7.27	14.91	8.82	1.80	6.52	—	6.52
1989	—	—	8.28	6.54	4.36	6.32	14.46	7.45	2.09	7.07	—	7.07
1990	—	—	8.32	7.87	5.68	7.82	14.89	8.81	1.85	8.38	—	8.38
1991	—	—	8.71	7.42	4.81	8.94	18.79	8.30	—	7.81	—	7.81
1992	—	—	8.54	7.31	4.57	8.96	19.43	8.11	1.31	7.76	—	7.76
1993	—	—	8.24	7.39	4.24	8.21	18.94	^R 7.82	1.81	^R 7.53	—	^R 7.53
1994	—	4.34	7.96	7.33	3.94	6.66	19.16	8.19	1.65	7.81	20.80	7.81
Expenditures in Million Nominal Dollars												
1970	(a)	—	2.8	57.5	34.1	0.4	22.7	781.4	0.6	878.8	—	878.8
1971	(a)	—	2.3	62.3	35.8	0.5	23.5	847.6	0.1	971.9	—	972.0
1972	(a)	—	2.0	68.0	37.0	0.4	26.6	879.4	0.2	1,013.8	—	1,013.8
1973	(a)	—	3.8	89.4	42.1	0.4	30.5	867.4	0.2	1,132.9	—	1,132.9
1974	(a)	—	4.9	134.6	69.3	0.6	39.6	1,202.7	0.9	1,590.8	—	1,590.8
1975	(a)	—	8.2	137.9	98.2	0.7	36.9	1,421.9	1.5	1,869.4	—	1,869.4
1976	(a)	—	3.0	173.0	100.7	0.8	37.9	1,590.7	1.4	1,874.1	—	1,874.1
1977	(a)	—	3.5	197.9	121.1	0.9	39.4	1,895.7	0.6	2,090.3	—	2,090.3
1978	—	—	4.6	219.1	133.3	1.3	46.1	1,727.0	0.3	2,130.6	—	2,130.6
1979	—	—	5.5	335.9	170.6	1.1	64.6	2,231.5	2.1	2,611.5	—	2,611.5
1980	—	—	7.4	439.5	228.5	1.3	81.2	2,799.8	3.9	3,249.6	—	3,249.6
1981	—	—	11.5	507.8	203.8	3.4	97.6	3,027.5	0.2	3,651.8	—	3,651.8
1982	—	—	6.0	574.2	177.8	2.8	85.3	2,882.7	3.0	3,779.6	—	3,779.6
1983	—	—	7.5	471.9	199.0	3.4	87.9	2,648.0	0.6	^R 3,416.3	—	^R 3,416.3
1984	—	—	6.9	540.0	199.0	4.6	97.4	2,604.5	0.3	^R 3,452.6	—	^R 3,452.6
1985	—	—	6.8	537.8	198.6	4.5	89.6	2,638.7	0.9	3,477.1	—	3,477.1
1986	—	—	6.9	437.4	143.9	4.7	78.4	1,892.9	0.4	2,670.8	—	2,670.8
1987	—	—	5.1	494.3	174.5	3.8	72.3	2,229.1	—	2,978.8	—	2,978.8
1988	—	—	6.1	528.0	180.3	2.7	80.2	2,399.0	1.0	3,064.8	—	3,064.8
1989	—	—	8.4	601.5	172.8	2.7	81.5	2,454.2	0.9	3,305.7	—	3,305.7
1990	—	—	5.8	746.7	213.8	3.4	84.5	2,898.7	0.4	3,693.4	—	3,693.4
1991	—	—	5.1	673.0	204.2	3.3	87.0	2,747.4	—	3,720.1	—	3,720.1
1992	—	—	4.9	744.6	194.6	2.2	102.6	2,747.1	0.1	3,796.3	—	3,796.3
1993	—	—	3.9	753.6	218.8	3.0	101.8	^R 2,485.1	0.3	^R 3,774.5	—	^R 3,774.5
1994	—	(a)	4.5	922.8	257.2	8.4	107.8	2,819.3	0.2	3,990.6	0.7	3,990.3

* Liquefied petroleum gases.

R-Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)-Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 166. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1984, Missouri

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Exclude	Total Energy ^a
			Heavy Oil	Light Oil	Distillate	Total			
Prices in Nominal Dollars per million Btu									
1970	0.25	0.29	0.56	0.49	—	0.82	—	—	0.26
1971	0.28	0.30	0.63	0.63	—	0.71	—	—	0.29
1972	0.29	0.36	0.65	0.70	—	0.60	—	—	0.31
1973	0.34	0.34	0.77	1.31	0.25	0.97	—	—	0.34
1974	0.42	0.43	1.77	2.25	0.36	1.91	—	—	0.44
1975	0.54	0.59	1.74	2.95	0.65	2.09	—	—	0.57
1976	0.62	0.77	1.72	2.31	—	2.03	—	—	0.66
1977	0.75	1.12	1.99	2.68	0.63	2.25	—	—	0.81
1978	1.01	1.14	1.87	2.67	0.78	2.32	—	—	1.05
1979	1.06	1.53	2.41	4.07	0.67	2.97	—	—	1.11
1980	1.19	2.22	3.46	6.02	0.67	6.37	—	—	1.29
1981	1.35	2.89	4.50	7.23	—	7.08	—	—	1.39
1982	1.43	3.84	4.36	6.09	—	6.79	—	—	1.48
1983	1.49	4.16	4.19	6.09	1.33	5.70	—	—	1.53
1984	1.50	4.40	4.40	6.09	—	5.94	0.78	—	1.50
1985	1.59	3.33	3.69	6.79	1.39	6.39	0.82	—	1.47
1986	1.47	2.92	2.92	3.49	—	3.83	0.82	—	1.38
1987	1.41	2.96	2.41	4.14	—	3.83	0.52	—	1.31
1988	1.38	2.77	1.83	3.59	0.87	3.95	0.73	—	1.25
1989	1.36	2.46	2.12	4.45	0.80	3.90	0.71	—	1.25
1990	1.36	1.72	1.80	6.31	—	4.89	0.74	—	1.27
1991	1.34	1.40	1.33	4.76	—	4.23	0.71	—	1.24
1992	1.34	1.87	1.40	4.26	—	3.80	0.59	—	1.23
1993	1.24	2.32	1.64	4.01	0.64	1.65	0.50	0.52	1.14
1994	1.10	1.90	1.68	3.75	0.70	1.23	0.49	0.69	1.01

Expenditures in Million Nominal Dollars									
1970	58.8	14.8	8.5	8.6	—	1.1	—	—	74.3
1971	71.3	20.7	1.1	0.6	—	1.7	—	—	83.8
1972	83.0	21.7	1.9	1.0	—	2.9	—	—	107.6
1973	112.9	18.1	2.1	2.2	(9)	4.3	—	—	136.1
1974	140.6	20.8	3.4	3.7	0.1	7.1	—	—	168.6
1975	206.4	18.0	4.1	4.3	0.1	14.5	—	—	234.2
1976	259.3	18.1	6.5	8.3	—	15.6	—	—	294.2
1977	341.1	28.0	10.8	14.6	0.3	25.7	—	—	394.9
1978	442.2	30.4	14.7	16.3	0.9	36.9	—	—	511.5
1979	491.7	30.4	9.1	14.3	0.8	26.2	—	—	547.3
1980	688.4	33.3	8.9	14.8	0.4	18.4	—	—	629.8
1981	693.5	20.1	0.5	12.9	—	13.4	—	—	731.9
1982	700.1	16.5	0.6	14.6	—	15.2	—	—	731.9
1983	784.7	11.8	1.7	13.6	0.1	15.6	—	—	813.9
1984	804.6	8.8	0.5	7.8	—	8.3	—	—	890.7
1985	728.4	4.8	0.4	6.8	(9)	7.2	—	—	811.7
1986	690.4	3.4	0.3	4.5	—	4.8	—	—	761.7
1987	689.2	4.0	0.4	5.0	—	5.4	—	—	733.5
1988	792.4	4.5	0.4	6.3	(9)	6.7	—	—	781.9
1989	690.4	3.1	0.5	5.7	0.1	6.3	—	—	763.9
1990	679.4	6.2	0.1	6.2	—	6.3	—	—	764.7
1991	671.3	18.2	0.4	6.8	—	7.2	—	—	774.2
1992	668.8	4.4	0.2	4.8	—	4.8	—	—	715.7
1993	536.7	11.4	0.2	3.9	3.5	12.3	—	—	609.6
1994	504.4	8.3	0.3	5.8	5.1	11.0	—	(9)	608.0

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
 —No consumption.
 (9)=Values less than 0.05 million nominal dollars.

Note: Expenditure items may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 167. Energy Price and Expenditure Estimates by Source, 1970-1994, Montana

Year	Primary Energy													Nuclear Fuel	Biomass	Total ^d	Electricity Utility Fuel	Electricity Purchased by End-Users	Total Energy ^e
	Coal			Natural Gas	Petroleum														
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^e	Motor Gasoline	Residual Fuel	Other ^f	Total								
Prices in Nominal Dollars per Million Btu																			
1970	—	0.22	0.22	0.57	1.14	0.78	2.19	2.80	0.39	\$ 0.98	1.58	—	0.65	1.26	0.23	2.88	1.58		
1971	—	0.29	0.29	0.60	1.14	0.80	2.16	2.94	0.43	\$ 1.01	1.91	—	0.69	1.32	0.29	2.95	1.69		
1972	—	0.29	0.29	0.63	1.15	0.79	2.13	2.92	0.51	\$ 1.01	1.85	—	0.72	1.32	0.29	3.14	1.62		
1973	—	0.24	0.24	0.68	1.40	0.94	3.12	3.17	0.89	\$ 1.06	2.10	—	0.77	1.49	0.29	3.62	1.82		
1974	—	0.31	0.31	0.80	2.41	1.82	3.78	4.30	1.82	\$ 1.74	3.09	—	0.84	2.17	0.29	3.46	2.46		
1975	—	0.39	0.39	1.07	2.58	2.12	3.62	4.78	1.99	\$ 2.10	3.41	—	0.82	2.41	0.34	4.85	2.78		
1976	—	0.34	0.34	1.16	2.61	2.32	4.04	4.87	1.83	\$ 2.06	3.44	—	0.95	2.34	0.33	3.92	2.60		
1977	—	0.34	0.34	1.63	2.90	2.71	4.20	5.25	2.08	\$ 2.29	3.72	—	1.04	2.49	0.34	4.16	3.23		
1978	—	0.39	0.39	1.72	3.10	2.82	4.35	5.54	2.16	\$ 2.38	4.06	—	1.12	2.74	0.38	4.84	3.85		
1979	—	0.42	0.42	2.03	4.06	4.08	5.51	7.39	2.44	\$ 3.03	5.02	—	1.06	3.40	0.48	5.12	4.39		
1980	—	0.53	0.53	3.14	8.58	6.59	8.99	8.99	3.28	\$ 4.23	7.13	—	1.74	4.79	0.72	5.88	6.82		
1981	—	0.63	0.63	4.00	7.91	7.87	7.55	11.02	4.19	\$ 5.64	8.87	—	1.24	5.63	0.85	7.03	7.25		
1982	—	0.69	0.69	4.76	7.59	7.38	7.59	10.47	4.00	\$ 5.17	8.49	—	1.29	5.86	0.91	8.03	7.54		
1983	—	0.83	0.83	4.54	\$ 6.72	\$ 7.27	7.67	9.19	4.11	\$ 5.57	\$ 7.59	—	1.12	\$ 5.67	0.80	10.51	\$ 7.32		
1984	—	0.78	0.78	5.00	\$ 6.73	\$ 7.03	7.35	9.11	4.49	\$ 5.74	7.80	—	1.28	4.88	0.77	10.18	7.56		
1985	—	0.78	0.78	4.84	\$ 6.43	\$ 6.84	7.80	8.18	3.03	\$ 5.50	\$ 7.38	—	0.79	\$ 4.79	0.79	10.72	\$ 7.40		
1986	—	0.72	0.72	4.32	\$ 6.66	4.81	6.80	6.74	2.63	\$ 4.73	\$ 5.99	—	0.82	3.39	0.68	11.18	\$ 6.72		
1987	—	0.67	0.67	4.05	\$ 6.06	4.38	6.15	7.37	2.34	\$ 4.47	\$ 5.26	—	0.95	\$ 3.42	0.68	11.81	\$ 6.96		
1988	—	0.57	0.57	3.92	\$ 6.22	4.33	6.18	7.75	2.12	\$ 3.72	\$ 4.47	—	0.67	\$ 3.02	0.55	12.09	\$ 7.10		
1989	—	0.60	0.60	3.95	\$ 6.65	4.79	7.33	3.59	2.10	\$ 3.47	\$ 4.65	—	(*)	\$ 3.33	0.59	12.00	\$ 7.27		
1990	—	0.70	0.70	4.16	\$ 7.78	6.28	9.11	3.58	3.83	\$ 3.59	\$ 7.91	—	\$ 1.84	\$ 3.69	0.68	11.87	\$ 7.77		
1991	—	0.70	0.70	4.05	\$ 7.11	8.47	9.87	9.07	2.26	\$ 4.01	\$ 7.67	—	1.63	\$ 3.58	0.69	12.22	\$ 7.61		
1992	—	0.73	0.73	4.42	\$ 7.42	5.46	8.72	9.39	1.70	\$ 3.36	\$ 7.51	—	1.80	\$ 3.61	0.71	12.39	\$ 7.75		
1993	—	0.73	0.73	\$ 4.22	\$ 7.45	5.39	8.43	\$ 9.57	2.32	\$ 3.32	\$ 7.64	—	1.85	\$ 3.96	0.70	12.87	\$ 7.67		
1994	—	0.74	0.74	4.67	7.60	5.02	7.93	9.99	2.14	3.99	7.93	—	2.02	3.96	0.70	13.29	7.93		
Expenditures in Million Nominal Dollars																			
1970	—	2.6	2.6	46.1	31.8	2.7	8.9	148.7	0.7	\$ 18.1	284.2	—	8.8	282.4	-3.4	34.7	353.1		
1971	—	3.4	3.4	47.3	38.1	3.4	10.2	146.8	1.1	\$ 21.2	220.7	—	0.4	271.5	-3.2	87.3	365.6		
1972	—	3.6	3.6	47.0	41.6	3.4	12.0	150.3	1.6	\$ 23.5	232.6	—	0.4	263.7	-4.0	92.7	372.3		
1973	—	3.7	3.7	56.5	57.0	4.0	18.2	181.1	4.2	\$ 25.0	287.5	—	0.4	348.1	-5.3	96.0	440.9		
1974	—	4.6	4.6	58.7	110.2	7.1	19.5	238.2	15.9	\$ 33.6	424.7	—	0.1	486.2	-4.3	108.9	597.6		
1975	—	8.3	8.3	78.2	114.3	9.7	17.4	288.8	17.4	\$ 36.3	481.4	—	0.1	548.5	-6.4	119.8	668.3		
1976	—	14.6	14.6	77.0	127.7	9.6	19.2	297.0	20.4	\$ 39.8	519.9	—	0.4	606.8	-13.6	129.6	720.6		
1977	—	19.6	19.6	102.5	139.4	11.7	19.2	306.0	23.2	\$ 45.4	644.9	—	0.5	697.7	-18.9	137.9	786.3		
1978	—	22.4	22.4	113.0	146.6	11.4	25.4	379.0	23.3	\$ 42.6	684.7	—	0.8	780.6	-20.1	172.9	913.4		
1979	—	28.9	28.9	122.7	246.2	20.8	14.6	433.1	77.5	\$ 53.1	644.7	—	0.8	985.2	-29.9	188.5	1,153.6		
1980	—	31.8	31.8	168.0	298.3	34.1	41.8	565.8	68.3	\$ 71.1	1,050.4	—	8.2	1,248.6	-44.2	207.7	1,442.9		
1981	—	39.6	39.6	186.3	298.1	34.5	28.0	624.8	48.6	\$ 81.8	1,175.0	—	0.4	1,346.2	-39.8	253.4	1,559.9		
1982	—	33.6	33.6	225.2	267.5	25.8	38.4	673.8	28.3	\$ 62.3	965.0	—	0.4	1,244.1	-27.4	301.5	1,518.2		
1983	—	35.7	35.7	100.9	\$ 347.1	\$ 29.6	40.3	506.1	22.6	\$ 66.0	\$ 1,011.2	—	0.6	\$ 1,236.9	-32.1	322.2	\$ 1,328.4		
1984	—	70.4	70.4	210.6	\$ 370.5	\$ 25.3	25.6	500.0	11.4	\$ 74.6	\$ 1,007.3	—	0.6	\$ 1,289.1	-67.6	471.5	\$ 1,600.6		
1985	—	74.0	74.0	284.7	\$ 423.8	\$ 36.3	36.8	488.2	3.4	\$ 83.3	\$ 1,083.9	—	0.5	\$ 1,343.2	-60.2	468.6	\$ 1,762.8		
1986	—	94.3	94.3	167.7	\$ 230.9	\$ 33.9	39.9	389.6	0.8	\$ 90.0	\$ 737.8	—	0.2	\$ 961.7	-67.0	615.6	\$ 1,420.5		
1987	—	86.7	86.7	140.4	\$ 231.5	17.7	35.6	407.0	0.2	\$ 84.7	\$ 756.9	—	0.5	\$ 967.5	-66.6	488.8	\$ 1,390.4		
1988	—	102.9	102.9	149.0	\$ 228.4	19.6	31.6	423.5	0.1	\$ 88.2	\$ 771.7	—	0.5	\$ 1,024.1	-69.1	621.6	\$ 1,445.8		
1989	—	107.3	107.3	184.9	\$ 277.2	20.9	45.0	454.8	0.2	\$ 85.2	\$ 682.4	—	(*)	\$ 1,184.6	-102.2	519.2	\$ 1,561.6		
1990	—	115.6	115.6	182.9	\$ 306.9	24.8	68.6	515.6	8.2	\$ 88.8	\$ 1,001.8	—	7.3	\$ 1,287.7	-19.8	510.4	\$ 1,687.8		
1991	—	128.3	128.3	189.1	\$ 344.8	19.0	36.7	493.3	(*)	\$ 67.7	\$ 861.6	—	7.8	\$ 1,284.9	-119.3	545.5	\$ 1,691.5		
1992	—	138.5	138.5	178.8	\$ 333.5	26.3	31.1	629.3	(*)	\$ 67.8	\$ 868.0	—	8.0	\$ 1,314.3	-132.7	542.0	\$ 1,723.6		
1993	—	116.0	116.0	197.9	\$ 347.1	27.1	\$ 68.0	\$ 553.0	\$ 2.5	\$ 70.3	\$ 1,064.1	—	7.7	\$ 1,385.7	-106.7	555.3	\$ 1,834.2		
1994	—	140.1	140.1	222.9	369.1	24.0	30.0	582.8	1.6	77.6	1,066.3	—	7.7	1,458.6	-125.9	584.9	1,917.9		

* Liquidated petroleum gases
 * "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used in electric utilities), and the "other petroleum products" category described in Appendix A
 * There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy
 * There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990
 * Utilities used biomass fuels at no charge or received a fee for accepting them

* Revised data
 * No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A
 * Value less than 0.05 million nominal dollars
 * Note: Expenditure totals may not equal sum of components due to independent rounding
 * Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 168. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Montana

Year	Primary Energy							Electricity	Total Energy ^c	
	Coal	Natural Gas	Petroleum			Nuclear ^d	Total ^e			
			Distillate Fuel	Kerosene	LPG ^a					
Prices in Nominal Dollars per Million Btu										
1970	0.86	5.88	1.28	—	2.35	2.93	—	1.86	6.57	1.87
1971	1.14	0.91	1.26	—	2.39	1.97	—	1.10	6.57	1.91
1972	0.95	0.94	1.36	—	2.34	1.97	—	1.16	6.65	2.04
1973	0.88	1.06	1.58	—	3.73	2.78	—	1.40	6.89	2.29
1974	1.06	1.18	2.51	—	4.16	3.41	—	1.85	7.16	2.65
1975	1.08	1.29	2.84	—	3.89	3.37	—	1.74	7.82	2.73
1976	2.07	1.35	2.94	—	4.30	3.61	—	1.59	7.08	2.91
1977	1.18	1.80	3.27	—	4.39	3.83	—	2.31	7.44	3.46
1978	1.29	1.93	3.32	—	4.72	4.09	—	2.46	8.18	3.79
1979	1.03	2.24	4.67	—	5.69	6.06	—	2.85	8.38	4.29
1980	1.99	3.02	4.92	—	7.31	7.86	—	3.91	8.04	5.34
1981	1.64	3.72	5.27	—	8.25	8.26	—	4.46	10.60	6.41
1982	1.90	4.42	6.41	—	8.85	8.66	—	5.21	11.20	7.02
1983	4.68	4.63	6.97	9.49	8.33	7.75	—	5.40	12.96	7.77
1984	5.04	4.94	6.58	9.44	8.19	7.20	—	6.08	12.58	7.73
1985	4.98	4.82	7.92	11.49	8.18	8.18	—	8.48	13.77	8.27
1986	1.37	4.46	4.67	7.00	7.12	8.06	—	4.77	14.88	8.13
1987	1.44	4.33	5.15	7.41	6.62	8.10	—	4.69	16.19	8.74
1988	0.95	4.20	4.61	8.62	6.56	6.88	—	4.61	15.89	8.44
1989	1.28	4.29	5.08	7.31	8.51	7.99	—	4.65	15.77	8.44
1990	1.22	4.47	6.42	8.23	8.88	8.88	4.75	4.75	15.87	8.57
1991	1.16	4.40	6.11	8.78	10.42	9.48	4.75	4.75	16.86	8.68
1992	1.26	4.70	5.69	8.61	8.85	7.67	4.78	4.78	17.12	8.95
1993	1.27	4.64	6.02	8.68	7.36	6.79	4.73	4.73	16.94	8.74
1994	1.26	5.11	5.67	8.15	8.49	7.48	4.75	4.75	17.50	9.32
Expenditures in Million Nominal Dollars										
1970	6.1	22.5	1.8	—	7.8	8.7	—	32.3	34.4	66.7
1971	6.2	23.7	3.1	—	8.2	11.3	—	36.2	36.6	71.8
1972	6.1	23.0	3.5	—	8.6	13.1	—	36.2	39.9	76.0
1973	6.1	27.1	4.6	—	13.8	18.1	—	46.2	42.6	87.6
1974	6.1	24.2	7.0	—	15.9	23.9	—	49.1	45.6	93.8
1975	6.1	31.2	8.7	—	14.8	23.8	—	56.1	51.3	106.4
1976	6.1	32.1	11.1	—	18.8	26.9	—	59.2	54.4	113.6
1977	(6)	36.2	11.7	—	16.0	27.7	—	67.0	61.9	128.9
1978	6.1	43.6	12.7	—	23.1	34.8	—	76.4	76.9	153.3
1979	6.1	60.0	16.3	—	12.9	31.3	—	81.3	84.4	165.7
1980	6.1	66.9	17.9	—	21.9	44.9	—	96.8	99.9	197.8
1981	6.1	64.7	13.2	—	16.1	29.3	—	93.1	104.1	197.2
1982	6.1	69.1	17.3	—	23.5	40.8	—	130.1	121.4	251.5
1983	(6)	78.5	19.2	0.8	27.1	46.1	—	124.7	137.9	261.7
1984	(6)	88.6	17.5	0.8	12.6	31.0	—	120.7	144.8	265.5
1985	(6)	83.2	16.9	0.8	17.8	34.3	—	127.8	169.8	297.4
1986	0.2	74.8	10.3	4.5	16.5	27.1	—	102.1	161.0	263.1
1987	0.1	67.7	7.4	0.1	17.2	24.6	—	82.4	179.4	261.8
1988	0.1	72.7	6.3	0.1	17.1	23.4	—	86.2	179.0	265.2
1989	0.5	79.5	10.8	(6)	26.0	36.9	—	115.9	189.0	302.9
1990	0.5	77.3	10.8	6.1	29.4	48.3	3.6	121.7	189.0	310.7
1991	0.3	83.2	12.7	(6)	26.5	36.2	3.8	128.5	189.0	317.5
1992	0.2	80.0	7.8	(6)	18.7	26.3	4.0	110.5	192.0	302.5
1993	0.1	100.8	9.4	0.3	14.5	24.8	3.7	128.2	208.0	336.2
1994	(6)	87.9	6.2	0.3	16.7	23.2	3.6	124.7	213.0	337.7

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.^e Revised data.^f No consumption.^g Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 189. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Montana

Year	Primary Energy								Electricity	Total Energy ^b	
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.46	0.88	1.86	0.94	1.49	2.89	0.34	1.84	0.78	5.24	1.51
1971	0.54	0.83	1.09	0.93	1.56	2.94	0.16	1.42	0.78	5.78	1.56
1972	0.51	0.84	1.00	0.92	1.56	2.82	0.53	1.45	0.80	5.90	1.59
1973	0.51	0.75	1.35	1.22	1.71	3.17	0.98	1.82	0.95	6.14	1.75
1974	0.68	0.88	2.27	2.29	2.67	4.30	1.79	2.57	1.28	6.27	2.14
1975	0.79	1.47	2.48	2.63	2.77	4.76	2.03	2.88	1.49	6.39	2.39
1976	1.07	1.17	2.64	2.42	3.14	4.87	2.07	3.00	1.68	6.37	2.60
1977	1.25	1.59	2.92	2.65	3.48	5.25	2.20	3.30	2.08	5.96	2.87
1978	1.32	1.66	3.02	2.93	2.86	5.54	1.97	3.34	2.10	7.79	3.31
1979	1.30	2.02	4.30	4.55	4.11	7.39	2.80	4.83	2.74	7.94	3.92
1980	2.84	3.12	4.45	—	5.85	9.99	4.42	6.87	3.78	8.58	5.12
1981	1.89	4.15	7.78	—	6.85	11.02	—	6.26	4.99	9.81	6.40
1982	1.82	4.83	7.75	—	6.26	10.47	4.83	9.22	5.22	10.10	6.89
1983	1.89	5.03	R 6.24	7.49	6.83	9.19	4.08	R 6.13	R 5.48	11.78	R 7.19
1984	1.86	5.22	R 6.11	7.27	6.70	9.11	4.49	R 6.12	R 5.33	11.44	R 6.06
1985	1.68	5.19	R 6.78	R 6.98	7.19	8.14	3.03	R 5.71	R 5.27	12.89	R 6.16
1986	1.75	4.48	R 3.58	R 4.43	6.17	6.74	2.63	R 4.21	R 4.36	13.45	R 6.78
1987	1.64	4.26	R 4.01	R 4.77	5.77	7.57	2.34	R 4.80	R 4.38	14.04	R 6.43
1988	1.64	4.20	R 3.71	R 4.54	6.75	7.75	2.12	R 4.80	R 4.26	13.46	R 6.22
1989	1.55	4.26	R 4.41	R 5.41	5.98	8.09	2.16	R 5.47	R 4.38	13.48	R 7.90
1990	1.54	4.52	R 5.93	R 6.79	6.30	8.98	3.03	R 7.11	R 4.71	13.89	R 8.42
1991	1.59	4.23	R 6.85	R 5.93	6.68	9.07	2.36	R 6.41	R 4.62	14.36	R 8.59
1992	1.52	4.36	R 4.73	R 5.82	8.82	9.30	1.70	R 6.41	R 4.58	14.98	R 8.27
1993	1.51	4.59	R 4.74	R 5.86	6.79	R 9.87	2.32	R 5.78	R 4.66	14.98	R 8.98
1994	1.59	4.80	4.43	5.77	8.27	9.99	2.14	5.88	4.87	14.83	9.41
Expenditures in Million Nominal Dollars											
1970	0.1	11.5	1.7	8.5	8.9	3.5	(d)	6.5	18.8	23.3	41.9
1971	0.2	11.8	2.9	0.4	0.9	2.0	(d)	6.2	19.2	24.9	43.0
1972	0.1	12.7	3.2	0.4	1.1	2.5	(d)	7.2	20.0	26.6	46.6
1973	0.1	14.9	4.4	0.6	1.1	2.3	(d)	8.3	23.2	29.7	51.9
1974	0.1	14.9	6.1	0.8	1.8	2.8	(d)	13.6	26.6	29.5	57.9
1975	0.1	20.4	9.7	8.8	1.8	4.4	(d)	16.7	37.2	35.9	73.1
1976	0.1	21.1	11.3	0.6	2.0	4.2	(d)	16.1	39.3	37.6	76.9
1977	(d)	26.7	11.9	0.8	2.2	4.3	(d)	18.3	46.0	38.9	82.9
1978	0.3	29.5	13.1	0.8	2.4	4.9	(d)	21.2	50.9	51.2	102.1
1979	0.2	34.7	19.6	0.4	1.6	6.9	0.2	28.3	63.7	55.2	118.8
1980	0.4	44.9	19.8	—	3.1	4.8	0.2	21.2	66.4	66.7	127.1
1981	0.2	57.4	17.2	—	2.2	6.4	—	25.8	65.4	73.7	157.1
1982	0.2	77.9	6.3	—	2.9	7.0	0.1	18.4	86.5	80.6	177.1
1983	0.2	68.5	R 40.1	(d)	3.8	3.6	4.4	R 52.0	R 120.7	100.3	R 221.0
1984	0.1	74.7	R 40.1	(d)	1.8	2.9	3.0	R 47.9	R 122.7	190.2	R 312.9
1985	0.2	78.5	R 36.9	(d)	2.8	3.5	2.4	R 37.8	R 113.2	188.6	R 284.1
1986	0.4	55.1	R 5.4	0.2	2.5	2.7	0.8	R 14.4	R 71.0	204.8	R 278.5
1987	0.1	47.7	R 7.1	(d)	2.6	3.2	0.2	R 13.1	R 61.8	142.7	R 303.7
1988	0.2	51.8	R 4.3	(d)	2.0	3.1	0.1	R 10.2	R 62.1	147.9	R 309.1
1989	1.0	57.3	R 5.2	(d)	3.2	3.5	0.2	R 12.1	R 70.4	141.0	R 211.4
1990	1.1	58.4	R 4.9	(d)	4.3	4.2	0.2	R 13.6	R 71.1	149.8	R 228.1
1991	0.5	55.9	R 5.8	(d)	3.9	3.0	(d)	R 12.7	R 69.4	163.8	R 232.4
1992	0.4	R 51.5	R 4.7	(d)	3.4	2.7	(d)	R 10.8	R 82.7	172.0	R 234.7
1993	0.2	64.8	R 6.4	(d)	3.1	0.8	0.1	R 8.1	R 74.1	175.0	R 249.1
1994	0.1	63.7	4.9	(d)	2.9	0.8	(d)	8.6	72.4	185.0	257.4

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.
R: Revised data.

—No consumption.

(d)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 170. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Montana

Year	Primary Energy														Electricity	Total Energy ^c	
	Coal			Natural Gas	Petroleum									Nuclear ^e			Total ^d
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	0.48	0.48	0.33	0.58	0.87	0.94	1.48	5.88	2.89	0.45	0.82	0.85	—	0.64	1.33	0.88
1971	—	0.54	0.54	0.35	0.82	0.87	0.93	1.55	5.27	2.94	0.50	0.64	1.00	—	0.68	1.32	0.93
1972	—	0.51	0.51	0.37	0.83	0.86	0.82	1.55	5.58	2.82	0.50	0.69	0.99	—	0.72	1.36	0.96
1973	—	0.51	0.51	0.41	0.85	1.13	1.22	1.71	5.83	3.17	0.83	0.60	1.08	—	0.78	1.65	0.93
1974	—	0.69	0.68	0.57	1.73	2.13	2.29	2.67	7.22	4.30	1.62	0.78	1.01	—	1.34	1.60	1.40
1975	—	0.78	0.79	0.93	1.84	2.44	2.63	2.77	7.46	4.78	1.98	1.40	2.22	—	1.76	1.96	1.79
1976	—	1.07	1.07	0.99	1.65	2.27	2.42	3.14	7.05	4.87	1.80	1.54	2.19	—	1.77	1.91	1.60
1977	—	1.25	1.25	1.65	1.78	2.48	2.63	3.48	6.97	5.25	2.05	1.82	2.38	—	2.08	2.10	2.06
1978	—	1.32	1.32	1.64	1.86	2.70	2.93	2.96	7.80	5.54	2.19	1.83	2.49	—	2.14	2.26	2.17
1979	—	1.30	1.30	1.77	2.49	4.42	—	4.11	10.21	7.39	2.43	1.79	3.16	—	2.78	2.48	2.72
1980	—	2.84	2.04	3.11	3.67	5.19	—	8.85	14.38	9.99	3.28	2.38	4.23	—	3.91	3.88	2.73
1981	—	1.89	1.89	4.22	4.41	7.04	7.42	6.85	18.00	11.02	4.19	2.88	5.68	—	4.98	4.08	4.76
1982	—	1.62	1.82	5.43	4.24	5.90	—	6.26	17.25	10.47	4.00	2.20	5.28	—	4.97	5.48	5.05
1983	—	1.69	1.59	3.96	4.22	6.29	7.49	6.83	19.96	9.19	4.12	1.99	5.65	—	5.02	7.34	6.45
1984	—	1.96	1.99	5.15	4.65	6.37	7.21	6.70	17.69	9.11	4.49	2.10	5.88	—	5.49	7.47	6.63
1985	—	1.66	1.88	4.71	4.83	6.14	8.95	7.19	17.61	9.16	3.83	2.17	5.87	—	5.86	7.38	6.58
1986	—	1.75	1.75	3.92	4.35	6.82	4.43	8.17	15.99	6.74	2.83	1.53	4.34	—	5.97	7.52	6.50
1987	—	1.64	1.64	3.39	3.07	4.22	4.77	5.77	12.70	7.57	2.94	1.50	3.88	—	3.82	8.42	6.15
1988	—	1.64	1.54	3.01	3.29	4.02	4.54	5.75	14.61	7.78	2.12	1.45	3.88	—	3.48	8.33	6.42
1989	—	1.53	1.53	2.93	2.75	4.79	5.41	5.98	14.45	8.59	2.16	1.74	4.17	—	3.77	8.15	6.30
1990	—	1.54	1.64	3.19	2.84	5.81	6.79	6.38	14.80	9.95	3.83	2.02	4.81	1.53	4.23	8.38	6.48
1991	—	1.60	1.59	3.19	3.29	5.24	5.93	6.68	16.79	9.07	2.36	1.72	4.71	1.66	4.02	8.54	6.27
1992	—	1.52	1.52	4.10	2.86	5.15	6.82	6.82	19.43	9.39	1.70	1.29	4.18	1.58	3.91	8.50	6.59
1993	—	1.51	1.51	2.71	2.85	5.18	5.88	6.79	18.94	9.57	2.32	1.08	4.58	1.68	3.81	9.09	6.68
1994	—	1.53	1.53	4.80	2.82	5.07	5.73	7.03	19.18	9.99	2.14	1.14	4.05	1.67	3.70	9.64	6.65
Expenditures in Million Nominal Dollars																	
1970	—	8.3	0.3	10.4	5.3	6.5	1.8	0.8	1.4	9.8	3.4	4.4	30.8	—	40.7	26.5	67.2
1971	—	0.5	0.5	11.4	7.3	9.6	1.5	0.8	1.4	8.8	1.0	5.8	35.1	—	47.0	25.9	72.9
1972	—	0.6	0.5	10.9	8.2	9.3	1.6	0.8	1.6	10.4	1.3	5.8	38.9	—	50.4	28.2	76.5
1973	—	0.6	0.5	13.8	7.9	13.7	2.2	1.2	1.9	9.5	3.1	5.9	45.4	—	59.4	26.7	86.1
1974	—	0.8	0.8	17.3	14.0	36.0	1.4	1.2	2.5	11.4	14.3	8.6	61.6	—	99.6	30.8	130.4
1975	—	0.8	0.8	28.1	11.3	38.5	1.9	1.9	2.1	19.4	14.9	12.3	97.2	—	124.1	32.8	156.9
1976	—	2.5	2.6	23.4	14.1	38.8	0.8	0.7	2.2	19.8	17.5	13.1	106.6	—	132.5	38.6	180.1
1977	—	4.3	4.3	35.9	13.4	41.7	0.6	0.5	2.2	19.4	18.7	19.3	114.7	—	154.9	39.1	194.0
1978	—	4.8	4.6	39.3	12.2	37.3	0.8	0.5	2.5	16.8	20.5	14.9	105.7	—	149.6	44.7	194.2
1979	—	5.4	5.4	32.8	17.4	71.8	—	(6)	3.6	25.7	75.0	14.5	209.0	—	246.2	49.0	295.2
1980	—	6.8	6.8	45.2	24.8	68.2	—	15.9	4.4	32.5	68.1	17.4	221.4	—	272.8	67.1	339.9
1981	—	10.1	10.1	69.4	30.3	79.7	1.7	9.3	5.4	38.4	49.9	14.6	227.6	—	296.1	73.6	371.7
1982	—	7.9	7.9	57.5	24.8	47.9	—	12.2	4.7	34.7	28.2	9.7	180.3	—	225.7	99.4	325.1
1983	—	5.3	5.3	43.6	31.7	118.3	0.1	8.6	4.8	24.5	18.1	4.7	209.9	—	257.6	85.0	342.7
1984	—	6.2	6.2	48.0	37.5	120.3	0.1	9.7	5.3	26.7	8.3	6.2	214.2	—	288.3	136.5	424.8
1985	—	6.8	6.8	35.7	46.8	297.4	(8)	17.9	5.8	32.6	(8)	7.1	315.9	—	388.3	138.8	527.1
1986	—	9.9	9.9	25.3	57.4	48.4	(8)	13.6	4.9	22.6	(8)	5.5	151.0	—	188.1	150.2	338.4
1987	—	5.8	5.8	24.4	33.5	44.3	0.2	15.2	4.0	22.8	(8)	8.8	126.5	—	188.6	172.7	361.3
1988	—	6.0	6.0	24.1	32.2	37.9	0.1	11.1	4.4	23.4	(8)	8.7	117.7	—	147.8	195.6	343.4
1989	—	5.9	5.9	27.6	31.9	77.6	0.1	11.4	4.5	28.4	(8)	10.6	184.6	—	197.8	182.2	380.0
1990	—	6.2	6.2	28.4	28.8	96.2	0.3	19.5	4.6	30.7	(8)	14.8	192.4	23.9	216.3	178.4	394.7
1991	—	8.2	8.2	28.7	29.5	108.7	0.1	4.8	4.5	29.1	(8)	10.3	187.2	4.1	191.3	183.9	375.2
1992	—	7.2	7.2	47.9	24.8	77.6	(8)	7.8	5.5	29.2	(8)	12.5	186.8	4.0	190.8	177.9	368.7
1993	—	10.3	10.3	32.0	31.7	82.6	(8)	46.0	5.8	29.6	2.4	8.5	205.5	4.1	209.6	172.3	381.9
1994	—	16.1	16.1	53.4	36.7	87.2	(8)	6.9	5.9	31.7	1.5	9.1	181.0	4.1	244.5	185.9	430.4

^a Liquefied petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990^e Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of

Appendix A

(8) Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 171. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Montana

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.46	—	2.17	1.26	0.78	1.49	5.08	2.89	0.34	2.34	2.34	—	2.34
1971	0.64	—	2.21	1.28	0.80	1.56	5.27	2.84	0.16	2.38	2.38	—	2.38
1972	0.51	—	2.19	1.29	0.79	1.53	5.38	2.82	0.62	2.31	2.31	—	2.31
1973	0.51	—	2.36	1.54	0.94	1.71	5.33	3.17	0.97	2.62	2.62	—	2.62
1974	0.68	—	3.23	2.58	1.62	2.67	7.22	4.30	1.78	3.65	3.65	—	3.65
1975	0.79	—	3.45	2.85	2.12	3.77	7.48	4.75	3.81	4.82	4.82	—	4.82
1976	1.07	—	3.98	2.79	2.32	3.14	7.06	4.87	2.09	4.16	4.16	—	4.16
1977	1.25	—	3.97	3.14	2.71	3.48	6.97	5.25	2.16	4.51	4.51	—	4.51
1978	—	—	4.29	3.29	2.92	2.89	7.60	5.54	1.88	4.81	4.81	—	4.81
1979	—	—	5.73	4.84	4.08	4.11	10.21	7.39	2.73	6.42	6.42	—	6.42
1980	—	—	9.82	7.36	6.58	5.85	14.38	9.99	—	8.92	8.92	—	8.92
1981	—	—	10.84	8.36	7.67	6.95	18.00	11.02	—	10.19	10.19	—	10.19
1982	—	—	10.92	8.13	7.38	6.26	17.25	10.47	—	9.75	9.75	—	9.75
1983	—	—	10.44	7.16	R 7.27	6.63	16.98	9.19	4.10	R 8.62	R 8.62	—	R 8.62
1984	—	—	10.27	7.18	R 7.03	6.70	17.63	9.11	4.57	R 8.52	R 8.52	—	R 8.52
1985	—	—	9.89	6.80	6.64	7.19	17.81	9.16	4.81	8.42	8.42	—	8.42
1986	—	—	8.41	6.64	4.81	6.17	15.59	6.74	—	6.78	6.78	—	6.78
1987	—	—	7.55	7.09	4.38	5.77	12.70	7.67	—	7.34	7.34	—	7.34
1988	—	—	7.41	7.31	4.35	6.75	14.61	7.75	—	7.62	7.62	—	7.62
1989	—	—	8.28	8.13	4.78	5.98	14.48	8.58	—	8.33	8.33	—	8.33
1990	—	4.47	8.32	9.18	6.28	6.38	14.88	9.56	—	8.35	8.35	—	8.35
1991	—	4.38	9.71	8.94	5.47	6.69	18.79	9.07	—	8.97	8.97	—	8.97
1992	—	4.41	8.54	8.35	5.48	8.82	19.43	9.39	—	8.13	8.13	—	8.13
1993	—	5.08	8.24	8.98	5.39	8.79	18.94	R 9.57	—	R 8.26	R 8.26	—	R 8.26
1994	—	4.24	7.96	8.98	5.02	7.56	19.18	9.09	—	8.48	8.48	—	8.48

Expenditures in Million Nominal Dollars													
1970	(s)	—	8.5	21.9	2.7	8.2	4.7	127.7	0.3	157.9	157.9	—	157.9
1971	(s)	—	9.5	23.3	3.4	9.3	4.6	135.9	0.1	168.0	168.0	—	168.0
1972	(s)	—	1.0	25.5	3.4	9.5	5.2	137.4	0.2	173.3	173.3	—	173.3
1973	(s)	—	1.3	34.3	4.9	9.4	5.1	169.4	0.3	214.6	214.6	—	214.6
1974	(s)	—	1.7	64.1	7.1	9.5	6.7	224.0	1.4	305.5	305.5	—	305.5
1975	(s)	—	1.4	68.2	8.7	8.5	7.3	242.9	2.8	323.1	323.1	—	323.1
1976	(s)	—	1.7	86.7	9.8	9.6	7.7	273.0	1.9	381.3	381.3	—	381.3
1977	(s)	—	1.9	74.1	11.7	9.3	8.3	282.3	1.8	380.5	380.5	—	380.5
1978	—	—	1.9	85.9	11.4	9.5	9.7	351.3	1.7	461.8	461.8	—	461.8
1979	—	—	3.5	135.1	20.6	9.3	13.6	400.4	0.4	574.1	574.1	—	574.1
1980	—	—	7.3	188.9	34.1	1.0	17.1	508.8	—	767.3	767.3	—	767.3
1981	—	—	9.7	180.7	34.5	1.3	20.6	580.1	—	832.6	832.6	—	832.6
1982	—	—	5.1	163.1	25.9	0.6	18.0	531.9	—	764.5	764.5	—	764.5
1983	—	—	5.4	171.3	R 26.6	1.3	18.5	479.9	0.1	R 703.0	R 703.0	—	R 703.0
1984	—	—	4.0	188.6	R 25.3	1.7	20.5	470.3	(s)	R 711.6	R 711.6	—	R 711.6
1985	—	—	4.6	189.4	25.2	1.3	19.1	484.2	(s)	873.8	873.8	—	873.8
1986	—	—	4.4	163.5	23.3	1.2	16.5	394.6	—	543.5	543.5	—	543.5
1987	—	—	3.1	171.7	17.7	0.6	15.2	381.1	—	509.6	509.6	—	509.6
1988	—	—	4.0	173.4	16.9	1.0	16.9	358.9	—	618.9	618.9	—	618.9
1989	—	—	4.0	202.0	20.0	1.2	17.2	432.9	—	677.3	677.3	—	677.3
1990	—	(s)	5.2	223.1	24.8	2.9	17.6	480.8	—	753.8	753.8	—	753.8
1991	—	(s)	4.8	216.6	19.0	1.5	18.3	481.2	—	721.4	R 721.4	—	R 721.4
1992	—	(s)	3.3	242.6	25.3	1.1	21.6	496.4	—	793.2	793.2	—	793.2
1993	—	(s)	2.9	248.3	27.1	1.4	21.4	R 524.0	—	R 824.6	R 824.6	—	R 824.6
1994	—	(s)	3.0	289.7	24.0	1.6	22.7	550.3	—	891.3	891.3	—	891.3

^a Liquefied petroleum gases.

R=Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(s)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 172. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Montana

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.19	0.27	0.33	0.36	—	0.33	—	0.05	0.23
1971	0.25	0.32	0.16	0.17	—	0.17	—	0.60	0.28
1972	0.26	0.30	0.54	0.62	—	0.55	—	0.72	0.28
1973	0.22	0.29	0.97	1.07	—	0.99	—	0.77	0.29
1974	0.27	0.29	1.79	2.10	—	1.93	—	0.84	0.29
1975	0.30	0.30	1.90	2.30	—	2.00	—	0.92	0.34
1976	0.30	0.41	2.11	2.53	—	2.12	—	0.98	0.33
1977	0.26	0.67	2.10	2.66	—	2.19	—	1.04	0.34
1978	0.32	0.71	2.02	2.87	—	2.05	—	1.12	0.36
1979	0.38	2.10	2.74	3.43	—	2.81	—	1.56	0.48
1980	0.44	3.87	—	5.81	—	5.01	—	1.74	0.72
1981	0.51	3.94	—	5.34	—	5.64	—	1.24	0.68
1982	0.58	1.71	—	5.42	—	5.42	—	1.28	0.81
1983	0.77	0.80	—	6.21	—	6.21	—	1.12	0.80
1984	0.74	0.88	—	5.80	—	5.80	—	1.28	0.77
1985	0.71	0.80	—	4.11	—	4.11	—	0.78	0.72
1986	0.67	0.86	—	4.28	—	4.28	—	0.32	0.68
1987	0.86	0.82	—	4.11	—	4.11	—	0.86	0.86
1988	0.55	1.26	—	4.03	—	4.03	—	0.87	0.55
1989	0.58	1.14	—	4.31	—	4.31	—	(b)	0.58
1990	0.67	1.45	—	5.43	—	5.43	—	(b)	0.68
1991	0.67	3.94	—	4.72	—	4.72	—	(b)	0.68
1992	0.71	3.42	—	5.09	—	5.09	—	(b)	0.71
1993	0.69	2.88	—	5.26	—	5.26	—	(b)	0.70
1994	0.69	1.15	—	4.69	—	4.69	—	(b)	0.70
Expenditures in Million Nominal Dollars									
1970	2.2	0.7	0.1	(a)	—	0.1	—	0.5	3.4
1971	2.5	0.4	(a)	(a)	—	(a)	—	0.4	3.3
1972	3.1	0.4	(a)	(a)	—	0.1	—	0.4	4.0
1973	3.1	0.8	0.9	0.2	—	1.0	—	0.4	5.3
1974	3.5	0.4	0.1	(a)	—	0.2	—	0.1	4.3
1975	5.3	0.5	0.7	(a)	—	0.7	—	0.1	6.4
1976	11.7	0.3	1.0	0.1	—	1.1	—	0.4	13.5
1977	15.4	0.6	2.8	0.1	—	2.7	—	0.5	19.3
1978	17.4	0.7	1.2	0.1	—	1.3	—	0.6	20.1
1979	21.3	5.3	2.2	0.3	—	2.6	—	0.9	29.9
1980	28.3	17.0	—	1.7	—	1.7	—	0.3	44.3
1981	29.3	8.8	—	1.3	—	1.3	—	0.4	39.8
1982	25.4	0.7	—	1.8	—	1.0	—	0.4	27.4
1983	30.2	0.3	—	1.1	—	1.1	—	0.5	32.1
1984	64.1	0.3	—	2.6	—	2.6	—	0.6	67.6
1985	67.1	0.3	—	1.4	—	1.4	—	0.5	69.2
1986	85.7	0.4	—	0.8	—	0.8	—	0.2	87.0
1987	83.8	0.5	—	1.1	—	1.1	—	0.5	85.9
1988	98.7	0.4	—	1.5	—	1.5	—	0.5	99.1
1989	100.2	0.5	—	1.5	—	1.5	—	(b)	102.2
1990	107.8	0.7	—	2.8	—	2.8	—	(b)	110.4
1991	118.9	1.3	—	1.1	—	1.1	—	(b)	119.3
1992	130.8	0.9	—	1.0	—	1.0	—	(b)	132.7
1993	104.4	0.8	—	1.5	—	1.5	—	(b)	105.7
1994	123.9	0.8	—	1.1	—	1.1	—	(b)	125.8

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^b Utilities used biomass fuels at no charge or received a fee for accepting them.

—No consumption.

(a) Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 173. Energy Price and Expenditure Estimates by Source, 1970-1994, Nebraska

Year	Primary Energy															Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ¹
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biomass	Total ²				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ³	Motor Gasoline	Fuel Oil	Other ⁴	Total							
Prices in Nominal Dollars per Million Btu																		
1970	—	0.32	0.32	0.50	0.95	0.75	1.96	3.83	0.60	R 1.78	2.12	—	—	1.21	0.30	5.12	1.72	
1971	—	0.41	0.41	0.55	0.99	0.78	1.54	3.90	0.80	R 1.94	2.14	—	—	1.28	0.34	5.36	1.80	
1972	—	0.40	0.40	0.62	1.01	0.79	1.59	3.90	0.71	R 2.04	2.14	—	—	1.31	0.41	5.67	1.84	
1973	—	0.43	0.43	0.63	1.26	0.93	2.48	3.21	0.70	R 2.20	2.42	0.17	—	1.42	0.43	5.96	2.01	
1974	—	0.60	0.60	0.72	2.20	1.60	2.93	4.27	1.62	R 3.25	3.36	0.16	—	1.77	0.43	8.05	2.56	
1975	—	0.88	0.88	0.98	2.39	2.08	3.07	4.75	1.74	R 3.65	3.74	0.17	—	1.98	0.80	8.80	2.99	
1976	—	0.98	0.98	1.09	2.61	2.29	3.41	5.96	1.76	R 3.86	3.92	0.20	—	2.18	0.62	7.93	3.18	
1977	—	1.07	1.07	1.35	2.82	2.69	3.84	5.29	1.86	R 3.93	4.17	0.20	—	2.35	0.62	8.60	3.54	
1978	—	1.18	1.18	1.60	3.06	2.90	3.62	5.60	1.70	R 3.38	4.23	0.29	—	2.50	0.65	9.23	3.95	
1979	—	1.21	1.21	1.63	4.24	4.03	4.21	7.41	2.26	R 6.18	5.75	0.29	—	3.07	0.76	9.84	4.78	
1980	—	1.27	1.27	2.40	6.24	6.47	6.70	10.89	3.21	R 7.59	6.27	0.44	—	4.18	1.09	11.76	6.92	
1981	—	1.21	1.21	3.11	7.60	7.60	5.94	11.37	4.36	R 9.89	9.85	0.95	—	4.80	0.95	13.27	7.71	
1982	—	1.22	1.22	3.83	7.07	7.19	6.09	10.71	4.22	R 8.71	8.83	0.66	—	4.50	0.96	13.62	7.62	
1983	—	1.25	1.25	4.42	R 6.62	R 6.63	6.52	9.81	4.46	R 9.17	R 6.22	0.62	—	R 4.74	1.01	15.87	R 7.98	
1984	—	1.32	1.32	4.46	R 6.81	R 6.50	6.28	9.55	4.66	R 9.59	R 6.26	0.57	—	R 4.82	1.04	16.50	R 7.80	
1985	—	1.17	1.17	4.43	R 6.82	6.19	7.46	9.57	4.36	R 10.31	R 6.21	0.68	—	R 4.78	1.01	16.70	R 8.02	
1986	—	1.06	1.06	4.08	R 6.67	4.43	7.80	7.86	2.71	R 9.75	R 6.51	0.64	—	R 3.79	0.89	16.62	R 7.16	
1987	—	0.98	0.98	3.71	R 6.09	4.38	6.84	7.58	2.53	R 8.04	R 6.74	0.64	—	R 3.71	0.82	15.65	R 7.18	
1988	—	0.87	0.87	3.61	R 6.85	4.14	6.96	7.22	2.17	R 6.99	R 6.36	0.63	—	R 3.64	0.79	15.52	R 6.94	
1989	—	0.86	0.86	3.84	R 6.42	4.54	7.36	8.42	2.04	R 6.29	R 6.29	0.65	—	R 3.91	0.78	16.22	R 7.92	
1990	—	0.78	0.78	3.93	R 7.64	4.83	8.83	8.49	2.22	R 6.96	R 6.86	0.61	R 3.39	R 4.28	0.73	16.36	R 8.37	
1991	—	0.79	0.78	3.93	R 7.20	5.01	7.79	9.43	2.02	R 6.96	R 6.09	0.62	3.25	4.06	0.72	16.05	R 8.13	
1992	—	0.78	0.78	4.10	R 7.04	4.84	7.31	9.09	1.97	R 7.52	R 7.01	0.57	3.30	R 4.07	0.69	16.16	R 8.12	
1993	—	0.76	0.75	4.25	R 7.01	4.33	6.53	R 9.06	2.27	R 7.92	R 7.86	0.64	3.27	R 4.07	0.74	16.24	R 8.02	
1994	—	0.60	0.60	4.19	6.82	3.99	6.56	9.17	2.09	7.38	7.75	0.73	3.19	4.17	0.77	16.07	7.98	
Expenditures in Million Nominal Dollars																		
1970	—	9.6	9.6	184.1	41.4	7.3	33.2	284.4	2.2	R 28.2	404.8	—	—	518.6	-22.9	178.3	666.6	
1971	—	10.8	10.8	116.7	43.9	7.8	31.6	303.0	2.0	R 28.2	418.7	—	—	543.2	-24.9	187.9	706.2	
1972	—	13.6	13.6	130.7	53.4	7.4	38.0	321.3	3.0	R 29.5	448.7	—	—	584.0	-32.3	191.9	753.1	
1973	—	18.0	18.0	134.4	60.4	8.5	49.6	362.6	2.9	R 32.9	516.1	1.1	—	667.6	-38.5	208.7	831.7	
1974	—	19.8	19.8	160.9	113.2	16.8	57.9	457.6	10.1	R 47.2	701.8	7.0	—	879.3	-53.2	226.0	1,082.1	
1975	—	28.4	28.4	184.3	117.8	18.3	65.4	518.3	11.3	R 46.8	775.1	11.9	—	988.7	-68.1	271.3	1,281.8	
1976	—	51.4	51.4	200.6	159.2	21.1	82.8	673.0	15.9	R 46.1	897.2	12.9	—	1,182.0	-82.2	326.6	1,408.4	
1977	—	63.9	63.9	236.1	195.6	26.2	83.6	806.3	11.9	R 47.4	961.0	18.0	—	1,276.9	-92.6	363.4	1,547.6	
1978	—	70.8	70.8	227.2	226.4	31.9	72.7	838.0	13.0	R 58.5	1,059.5	16.6	—	1,354.1	-99.7	412.0	1,666.3	
1979	—	94.1	94.1	291.2	317.5	42.3	72.5	786.6	9.6	R 50.6	1,289.4	27.6	—	1,702.2	-133.8	447.8	2,016.1	
1980	—	113.4	113.4	354.1	332.7	56.2	94.2	1,008.9	4.3	R 67.8	1,584.1	27.7	—	2,063.3	-164.7	558.6	2,461.2	
1981	—	119.0	119.0	395.7	382.4	60.9	84.9	1,096.0	1.7	R 67.6	1,662.4	26.3	—	2,243.4	-154.6	629.8	2,717.5	
1982	—	117.7	117.7	406.6	380.8	67.2	105.4	1,027.3	5.1	R 73.8	1,649.8	48.2	—	2,339.1	-161.3	644.5	2,706.4	
1983	—	131.1	131.1	842.6	R 469.0	R 53.9	113.6	904.3	2.9	R 73.7	R 1,667.4	41.1	—	R 2,322.1	-169.7	616.9	R 2,960.2	
1984	—	164.0	164.0	567.2	R 476.5	R 49.3	47.9	866.6	2.0	R 77.2	R 1,648.6	36.5	—	R 2,315.3	-191.7	659.9	R 2,959.5	
1985	—	136.5	136.5	625.7	R 478.2	46.8	65.3	801.2	1.7	R 67.5	R 1,681.8	28.3	—	R 2,340.3	-168.7	841.2	R 2,922.8	
1986	—	118.5	118.5	406.4	R 398.3	32.8	64.1	678.4	4.3	R 78.4	R 1,255.4	62.8	—	R 1,236.1	-167.8	846.3	R 2,513.6	
1987	—	114.1	114.1	383.6	R 436.7	32.9	80.8	710.3	4.2	R 78.4	R 1,343.1	69.0	—	R 1,289.7	-169.4	884.2	R 2,594.4	
1988	—	121.7	121.7	439.0	R 480.7	34.2	89.0	708.3	5.6	R 77.8	R 1,373.5	48.8	—	R 1,280.7	-168.5	914.6	R 2,728.2	
1989	—	112.7	112.7	436.6	R 465.1	37.1	98.2	814.2	4.8	R 74.4	R 1,460.7	58.3	—	R 2,089.4	-189.9	972.0	R 2,902.5	
1990	—	116.2	116.2	418.4	R 544.4	58.0	92.2	814.3	3.6	R 82.5	R 1,698.7	45.3	R 4.8	R 2,378.3	-191.1	996.8	R 3,113.3	
1991	—	119.4	119.4	436.4	R 546.9	33.1	90.2	891.7	2.5	R 72.9	R 1,625.4	63.4	5.4	R 2,241.0	-189.5	1,019.0	R 3,080.5	
1992	—	110.2	110.2	418.8	R 677.6	30.7	86.5	857.6	2.3	R 88.5	R 1,620.3	59.6	5.4	R 2,508.3	-159.2	R 982.1	R 3,531.1	
1993	—	131.0	131.0	R 512.2	R 673.9	27.8	70.8	R 659.4	4.0	R 64.9	R 1,600.2	46.5	4.5	R 2,294.4	-172.8	1,039.0	R 3,180.6	
1994	—	128.6	128.6	509.1	623.6	25.1	73.3	869.7	2.8	72.6	1,670.2	49.1	4.5	2,361.7	-172.9	1,089.9	3,276.8	

¹ Liquid petroleum gases² "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.³ There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.⁴ There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

R-Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 174. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Nebraska

Year	Primary Energy							Electricity	Total Energy ²	
	Coal	Natural Gas	Petroleum			Nuclear ³	Total ⁴			
			Distillate Fuel	Kerosene	LPG ⁵					Total
Prices in Nominal Dollars per Million Btu										
1970	1.08	0.84	1.19	1.38	1.78	1.89	—	1.08	8.21	1.84
1971	1.09	0.91	1.29	1.39	1.71	1.84	—	1.09	8.52	1.95
1972	1.10	0.98	1.39	1.40	1.62	1.72	—	1.10	8.92	2.01
1973	1.16	1.03	1.41	1.73	3.10	2.75	—	1.47	6.80	2.36
1974	1.52	1.13	2.43	2.63	3.33	3.15	—	1.59	7.22	2.68
1975	2.36	1.28	2.82	2.74	3.57	3.39	—	1.74	8.13	2.95
1976	2.22	1.37	2.98	3.04	4.18	3.89	—	1.83	9.32	3.30
1977	2.57	1.80	3.22	3.46	4.60	4.29	—	2.31	10.20	3.68
1978	3.42	1.97	3.90	3.88	3.97	3.78	—	2.37	10.81	4.29
1979	3.85	2.31	4.91	5.09	6.17	6.74	—	2.77	11.52	4.73
1980	3.89	2.78	6.85	7.88	8.82	8.64	—	3.32	13.23	5.63
1981	3.75	3.52	8.12	9.24	7.06	7.45	—	4.09	15.07	7.11
1982	4.28	4.24	7.84	9.24	7.57	7.75	—	4.69	14.34	7.18
1983	4.23	5.06	7.20	8.41	7.48	7.44	—	5.36	17.68	8.98
1984	4.08	5.18	6.93	8.47	7.18	7.19	—	6.36	17.35	8.83
1985	2.78	5.70	7.92	9.74	7.12	7.49	—	8.97	17.80	8.89
1986	2.40	4.62	4.98	6.00	5.35	5.21	—	4.88	17.57	8.64
1987	2.43	4.43	4.50	5.54	5.35	6.18	—	4.82	17.52	8.62
1988	2.49	4.53	4.27	5.25	5.48	5.23	—	4.60	17.42	8.75
1989	2.42	4.54	5.37	6.81	7.92	7.21	—	4.85	18.05	8.99
1990	2.82	4.87	6.74	8.28	7.78	7.57	^d 3.85	^d 4.82	18.22	^d 8.99
1991	2.38	4.71	8.25	7.89	8.92	6.79	3.56	^d 4.90	17.86	^d 8.75
1992	2.39	4.92	6.51	5.78	6.65	6.46	3.68	^d 5.08	18.38	^d 8.93
1993	2.44	5.09	5.95	6.05	6.45	6.31	3.59	^d 5.17	18.33	^d 8.93
1994	2.47	5.09	5.55	5.84	5.50	5.76	3.56	5.12	18.49	9.29
Expenditures in Million Nominal Dollars										
1970	0.3	48.6	1.4	3.0	26.1	36.4	—	80.3	87.6	167.4
1971	0.2	53.2	1.4	3.8	24.1	29.1	—	82.5	88.9	179.4
1972	0.3	58.4	1.6	4.2	27.9	33.2	—	82.9	96.9	189.3
1973	0.2	52.4	1.7	5.3	40.9	47.9	—	100.6	99.9	200.4
1974	0.1	56.3	2.5	6.1	37.8	48.5	—	103.0	111.2	214.1
1975	0.1	68.9	2.6	8.8	41.7	60.1	—	119.2	180.3	248.4
1976	0.1	75.1	4.2	7.4	49.2	60.8	—	136.0	160.1	286.2
1977	0.3	95.1	4.9	7.4	47.5	59.2	—	154.6	169.1	323.7
1978	0.6	94.9	5.1	6.0	48.6	51.8	—	147.1	187.1	344.9
1979	1.4	123.3	13.0	0.7	32.4	48.2	—	170.9	208.9	377.7
1980	0.4	133.5	14.4	0.4	35.2	60.4	—	184.0	248.1	432.0
1981	0.4	151.5	18.2	1.5	39.8	53.5	—	205.4	286.0	491.4
1982	0.9	213.6	18.7	1.5	38.8	59.0	—	272.4	296.0	568.4
1983	1.5	234.1	10.4	2.2	46.1	58.7	—	294.6	392.7	687.2
1984	2.5	243.3	10.6	3.3	19.8	33.8	—	279.9	371.0	650.8
1985	0.3	283.9	15.7	2.2	25.8	48.5	—	277.7	385.5	663.2
1986	0.1	184.0	8.0	0.6	17.3	26.0	—	220.0	372.6	592.6
1987	0.1	169.5	5.9	0.4	23.9	29.6	—	199.1	361.4	560.5
1988	0.7	194.0	4.9	0.8	23.9	29.4	—	224.1	405.0	629.1
1989	0.1	200.7	7.8	0.3	34.8	42.9	—	243.8	414.0	657.8
1990	8.1	188.8	6.8	0.2	27.6	34.4	^d 4.8	^d 238.8	423.8	^d 652.8
1991	0.3	207.3	7.2	0.2	30.7	38.1	4.8	^d 250.4	435.0	^d 685.4
1992	0.1	189.8	4.7	0.4	30.0	35.1	5.0	^d 239.8	411.0	^d 680.9
1993	0.1	239.3	5.5	0.4	27.2	33.2	4.2	^d 276.8	452.0	^d 728.8
1994	0.1	222.4	5.2	0.2	29.0	29.4	4.1	255.0	465.8	720.7

² Liquid petroleum gases³ Commercial sector prices and expenditures for wood and waste are included in the residential sector⁴ There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy⁵ There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of fuels beginning in 1990

R-1994ed data

—No consumption

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 175. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Nebraska

Year	Primary Energy								Electricity	Total Energy ^b	
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
											Total
Prices in Nominal Dollars per Million Btu											
1970	0.16	0.52	1.03	0.79	1.08	3.83	0.60	1.08	0.58	4.87	1.38
1971	0.41	0.68	1.11	0.85	1.16	3.00	0.59	1.10	0.65	5.08	1.50
1972	0.22	0.57	1.12	0.85	1.15	3.00	0.72	1.21	0.85	5.37	1.68
1973	0.24	0.75	1.24	1.01	1.28	3.21	0.66	1.32	0.82	5.39	1.87
1974	0.57	0.81	2.29	2.00	2.40	4.27	1.87	2.38	0.90	5.94	2.04
1975	0.81	1.80	2.46	2.39	2.46	4.76	1.75	2.60	1.17	6.40	2.38
1976	1.03	1.16	2.67	2.57	2.68	5.08	1.73	2.63	1.33	6.16	2.64
1977	1.17	1.38	3.01	2.73	3.16	5.20	1.83	2.96	1.57	6.94	3.06
1978	1.47	1.54	3.07	3.00	3.36	5.30	1.69	3.18	1.73	9.66	3.51
1979	1.72	2.01	4.80	3.53	3.35	7.41	2.33	4.56	2.27	10.43	4.05
1980	1.69	2.33	6.49	5.17	5.19	10.08	3.23	6.81	2.82	12.88	5.81
1981	1.97	3.02	7.80	6.74	5.24	11.37	4.64	7.80	3.44	14.06	6.71
1982	1.79	3.56	7.48	6.06	6.41	10.71	4.03	6.96	3.84	14.32	6.51
1983	1.87	4.29	R 9.37	6.74	6.01	9.61	—	R 6.63	R 4.58	16.66	R 7.81
1984	1.70	4.35	R 8.34	6.64	5.78	9.55	—	R 6.55	R 4.57	16.44	R 7.63
1985	2.48	4.29	R 8.89	R 6.33	6.82	9.67	—	R 6.59	R 4.60	16.78	R 8.26
1986	1.70	3.96	R 3.67	R 4.08	8.25	7.28	—	R 5.29	R 4.08	16.55	R 8.23
1987	1.83	3.79	R 4.21	R 4.53	7.76	7.58	2.80	R 5.67	R 3.84	16.43	R 8.34
1988	1.66	3.81	R 3.90	R 4.21	7.73	7.22	2.13	R 5.40	R 3.91	16.22	R 8.06
1989	1.47	3.82	R 4.44	R 4.77	7.13	8.42	2.92	R 5.77	R 3.96	16.63	R 8.66
1990	1.49	3.92	R 8.39	R 8.89	6.36	9.48	2.29	R 7.16	R 4.18	17.22	R 8.88
1991	1.54	3.93	R 4.88	R 5.28	6.34	9.43	2.03	R 6.69	R 4.09	16.82	R 8.58
1992	1.57	4.07	R 4.68	R 5.22	7.73	9.08	1.97	R 6.92	R 4.22	17.12	R 8.95
1993	1.85	4.38	R 4.50	R 5.08	6.58	R 9.08	2.27	R 5.15	R 4.43	17.29	R 9.30
1994	1.82	4.30	4.29	5.35	7.76	9.17	2.08	5.18	4.36	18.86	8.86
Expenditures in Million Nominal Dollars											
1970	0.1	24.7	1.2	0.3	2.8	1.7	8.8	8.8	31.7	58.3	88.9
1971	0.2	27.7	1.2	0.4	2.9	1.8	0.6	7.2	35.1	66.3	100.4
1972	0.1	28.5	1.4	0.5	3.0	1.9	0.9	7.7	34.4	68.7	103.1
1973	0.1	29.3	1.5	0.6	3.0	2.0	0.9	8.0	37.4	72.9	110.2
1974	0.1	34.3	2.4	0.9	4.8	2.7	2.5	13.3	47.7	77.6	125.4
1975	0.1	42.9	2.5	1.0	8.1	3.0	1.7	13.3	56.2	84.9	143.0
1976	0.1	56.2	3.8	1.2	9.6	3.3	3.4	17.4	73.8	108.3	180.1
1977	0.2	65.6	4.0	1.1	5.6	3.6	5.1	17.6	83.3	120.6	203.9
1978	0.4	62.8	4.8	0.9	6.2	3.9	2.1	18.0	81.0	130.7	211.7
1979	1.2	67.2	12.8	0.1	3.1	5.5	1.6	23.0	111.4	142.9	254.3
1980	0.4	98.1	6.8	0.8	4.7	7.9	0.8	28.6	120.0	178.8	296.6
1981	0.4	120.3	15.4	0.4	4.4	9.2	0.5	25.8	150.5	217.0	367.5
1982	0.6	150.2	13.0	0.5	6.0	7.3	2.6	28.9	179.2	227.9	407.1
1983	1.3	164.7	R 30.9	0.2	8.5	6.1	—	R 43.7	R 209.7	277.7	R 487.4
1984	2.1	179.0	R 33.2	0.4	2.8	4.8	—	R 41.1	R 222.2	316.8	R 536.8
1985	0.4	186.0	R 28.0	R 0.4	4.4	8.0	—	R 48.8	R 287.2	327.2	R 534.4
1986	0.1	142.8	R 7.1	0.2	4.7	5.4	—	R 17.4	R 160.3	327.3	R 487.8
1987	0.1	126.6	R 8.7	0.1	6.1	5.5	(a)	R 20.4	R 147.1	323.8	R 480.9
1988	0.6	147.7	R 6.6	(a)	6.0	5.1	0.2	R 17.9	R 168.4	351.0	R 517.4
1989	0.1	140.8	R 5.8	0.1	5.6	5.6	0.5	R 17.7	R 168.6	374.0	R 532.9
1990	0.1	146.8	R 7.8	0.8	5.3	7.7	0.3	R 22.5	R 163.5	379.0	R 542.5
1991	0.2	155.9	R 5.2	0.1	6.5	5.0	0.3	R 17.1	R 173.3	389.0	R 562.3
1992	0.1	137.6	R 7.4	(a)	6.2	4.4	0.5	R 18.6	R 156.2	376.0	R 534.2
1993	0.1	R 148.4	R 8.0	0.1	4.8	1.0	0.3	R 14.3	R 162.6	367.0	R 549.8
1994	0.2	195.1	9.0	0.2	5.4	1.0	0.2	15.9	191.2	411.3	592.6

^a Liquefied petroleum gases^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R=Revised data

—No consumption

(a)=Value less than 0.05 million nominal dollars

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 176. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Nebraska

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Biofuels ^c	Total ^c		
	Coking Coal	Steam Coal	Total		Asphalt and Feed Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^d	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	0.16	0.16	0.32	0.71	0.73	0.79	1.00	5.80	3.03	0.48	0.51	1.28	—	0.89	3.42	0.80
1971	—	0.41	0.41	0.36	0.83	0.79	0.85	1.10	5.37	3.00	0.65	0.59	1.36	—	0.77	3.57	0.97
1972	—	0.22	0.22	0.46	0.89	0.79	0.85	1.15	5.58	3.00	0.64	0.74	1.32	—	0.80	3.76	1.00
1973	—	0.24	0.24	0.43	0.87	0.94	1.01	1.28	5.33	3.21	0.86	0.14	1.36	—	0.72	3.95	0.93
1974	—	0.57	0.57	0.54	1.79	1.85	2.06	2.40	7.22	4.27	1.14	3.09	2.54	—	1.20	4.20	1.47
1975	—	0.81	0.81	0.80	2.07	2.25	2.39	2.46	7.46	4.76	1.74	3.42	2.99	—	1.46	4.99	1.77
1976	—	1.03	1.03	0.85	2.04	2.29	2.57	2.50	7.05	5.06	1.93	3.93	3.00	—	1.73	5.83	2.09
1977	—	1.17	1.17	1.02	2.05	2.53	2.73	3.16	8.97	6.29	2.27	4.26	3.09	—	1.89	6.02	2.27
1978	—	1.47	1.47	1.11	2.20	2.76	3.00	3.36	7.80	5.50	2.03	5.02	3.19	—	2.12	6.54	2.57
1979	—	1.72	1.72	1.26	2.50	3.34	3.53	3.35	10.21	7.41	2.28	5.97	3.91	—	2.60	7.07	3.08
1980	—	1.89	1.89	2.21	3.89	4.84	5.17	5.19	14.96	10.86	3.13	7.71	5.68	—	3.57	8.71	4.60
1981	—	1.97	1.97	2.84	5.50	6.40	6.74	6.24	18.00	11.37	4.09	12.26	7.11	—	4.70	9.69	5.25
1982	—	1.79	1.79	3.82	4.49	5.72	6.06	5.41	17.25	10.71	4.44	16.76	6.37	—	4.57	11.08	5.82
1983	—	1.67	1.67	3.79	4.85	^a 5.87	6.74	6.01	16.98	9.61	4.47	14.29	^a 6.83	—	^a 5.22	11.71	^a 6.07
1984	—	1.70	1.70	3.71	4.96	^a 5.57	6.84	5.78	17.63	9.55	4.85	13.48	^a 6.84	—	^a 5.01	10.96	^a 5.83
1985	—	2.46	2.46	3.67	5.84	^a 6.25	^a 6.32	6.82	17.41	9.67	4.26	13.39	^a 6.96	—	^a 5.22	11.47	^a 6.20
1986	—	1.70	1.70	3.28	3.93	^a 4.04	^a 4.00	4.25	15.59	7.28	2.81	^a 7.20	^a 5.03	—	^a 4.26	11.42	^a 5.33
1987	—	1.83	1.83	2.91	3.85	^a 4.50	^a 4.56	7.78	12.70	7.58	2.80	^a 7.78	^a 5.34	—	^a 4.17	11.24	^a 5.16
1988	—	1.56	1.56	2.90	3.84	^a 4.16	^a 4.21	7.73	14.61	7.22	2.13	^a 6.53	^a 4.95	—	^a 4.01	11.20	^a 5.02
1989	—	1.47	1.47	2.90	3.89	^a 4.72	^a 4.77	7.13	14.48	6.42	2.02	^a 6.15	^a 5.37	—	^a 4.25	12.34	^a 5.48
1990	—	1.48	1.48	3.02	3.15	^a 5.87	^a 5.85	6.38	14.89	9.48	2.22	^a 6.95	^a 5.19	^d 1.89	^a 4.98	12.31	^a 6.79
1991	—	1.54	1.54	2.90	3.18	^a 5.22	^a 5.29	8.34	16.79	9.43	2.03	^a 16.33	^a 6.05	1.89	4.45	12.19	^a 5.74
1992	—	1.57	1.57	2.90	2.62	^a 5.19	^a 5.22	7.73	19.43	8.08	1.97	^a 24.75	^a 6.82	1.89	^a 4.43	11.80	^a 5.71
1993	—	1.55	1.55	3.17	2.92	^a 5.08	^a 5.06	8.59	18.94	^a 8.08	2.27	^a 19.10	^a 5.31	1.89	^a 4.12	11.81	^a 5.34
1994	—	1.52	1.52	3.17	2.91	4.38	4.91	8.89	19.16	8.17	2.08	24.75	5.22	1.89	4.15	11.86	5.33
Expenditures in Million Nominal Dollars																	
1970	—	0.8	0.8	17.8	5.3	14.8	9.6	3.4	4.9	21.8	0.3	0.1	49.8	—	67.4	25.9	92.3
1971	—	1.4	1.4	18.6	6.1	15.2	0.7	3.8	4.1	23.8	0.3	1.0	54.7	—	75.9	28.7	102.5
1972	—	1.0	1.0	26.5	5.1	16.2	0.7	4.8	4.7	19.5	0.4	1.1	62.3	—	78.6	29.8	108.7
1973	—	1.5	1.5	30.5	5.1	10.2	0.9	4.8	6.4	17.8	0.8	1.5	60.2	—	82.3	31.9	113.2
1974	—	3.6	3.6	37.2	11.6	38.7	1.6	13.1	8.3	38.1	0.6	1.6	106.5	—	149.3	37.8	186.5
1975	—	4.8	4.8	46.2	10.5	49.3	1.4	16.5	9.8	41.1	0.8	1.6	122.9	—	177.9	54.9	230.9
1976	—	12.0	12.0	53.0	7.7	62.0	1.6	25.3	9.2	42.7	1.2	2.1	162.0	—	217.7	70.2	287.9
1977	—	12.3	12.3	69.9	15.0	56.4	1.7	27.9	1.7	45.4	1.9	2.1	161.6	—	224.8	73.7	298.4
1978	—	15.0	15.0	55.9	23.5	73.2	1.9	22.7	2.0	46.5	1.0	2.6	173.4	—	246.0	84.2	329.2
1979	—	17.4	17.4	61.3	14.0	106.8	0.5	34.8	2.9	60.8	0.4	2.9	224.9	—	303.7	98.0	401.7
1980	—	6.7	6.7	104.1	18.8	96.1	0.9	51.8	3.6	77.7	0.8	3.7	253.9	—	351.7	128.8	480.6
1981	—	13.8	13.8	113.6	24.5	113.9	1.8	42.0	4.3	81.0	0.7	6.9	275.9	—	403.3	123.9	527.2
1982	—	11.8	11.8	131.1	21.8	111.8	1.7	57.2	3.8	67.9	2.5	6.0	276.9	—	414.7	130.7	545.4
1983	—	7.1	7.1	138.9	21.5	^a 137.9	0.9	56.4	3.9	55.2	2.9	5.9	^a 294.6	—	^a 430.5	146.4	^a 576.9
1984	—	9.2	9.2	146.1	20.8	^a 146.8	1.1	23.8	4.3	46.2	2.0	5.5	^a 292.7	—	^a 402.0	139.3	^a 541.3
1985	—	11.8	11.8	119.4	16.6	^a 158.4	^a 6.8	33.8	4.0	78.7	1.7	5.8	^a 289.8	—	^a 420.2	148.5	^a 568.7
1986	—	10.6	10.6	66.3	24.9	^a 108.3	^a 3.3	41.0	3.5	45.5	3.6	^a 9.7	^a 231.6	—	^a 308.6	146.4	^a 455.0
1987	—	9.4	9.4	83.2	31.7	^a 101.7	^a 2.2	49.2	3.2	48.6	3.4	^a 10.4	^a 251.3	—	^a 343.9	149.0	^a 492.9
1988	—	7.8	7.8	92.1	29.7	^a 105.5	^a 1.4	57.6	3.5	43.4	4.3	^a 9.2	^a 251.6	—	^a 351.5	158.0	^a 509.5
1989	—	7.8	7.8	96.2	23.2	^a 108.0	0.5	58.0	3.8	48.8	3.4	^a 12.6	^a 255.7	—	^a 352.8	184.0	^a 536.8
1990	—	6.8	6.8	78.5	29.9	^a 141.5	0.5	57.7	3.7	47.1	3.8	^a 12.9	^a 246.7	^d 0.8	^a 376.1	184.8	^a 572.1
1991	—	9.4	9.4	68.3	29.9	^a 141.8	0.5	58.0	3.8	49.6	2.2	^a 2.4	^a 279.8	0.8	^a 355.2	195.0	^a 550.2
1992	—	9.4	9.4	77.2	15.8	^a 147.8	0.2	48.0	4.5	39.4	1.8	^a 3.8	^a 261.2	0.3	^a 348.2	193.0	^a 541.2
1993	—	10.6	10.6	119.6	15.5	^a 143.5	0.3	37.0	4.5	^a 33.2	3.7	^a 3.2	^a 240.8	0.3	^a 371.1	200.0	^a 571.1
1994	—	12.0	12.0	115.3	18.9	106.6	0.3	42.7	4.8	35.4	2.8	4.2	276.2	0.3	404.0	213.0	617.0

^a Liquidated petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.^e Refined oils.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 177. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Nebraska

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per MBTU Btu													
1970	0.19	—	2.17	1.14	6.76	1.89	5.86	3.83	0.59	2.51	2.51	—	2.51
1971	0.41	—	2.21	1.18	6.76	1.79	5.27	3.00	0.59	2.51	2.51	—	2.51
1972	0.22	—	2.19	1.15	6.78	1.46	5.69	3.00	0.72	2.49	2.49	—	2.49
1973	0.24	—	2.96	1.52	6.93	1.26	5.39	3.24	0.86	2.72	2.72	—	2.72
1974	0.57	—	3.23	2.45	1.80	2.40	7.22	4.27	1.06	3.72	3.72	—	3.72
1975	0.81	—	3.46	2.88	2.89	2.46	7.48	4.79	1.74	4.15	4.15	—	4.15
1976	1.03	—	3.59	2.79	2.26	2.66	7.05	5.06	1.75	4.41	4.41	—	4.41
1977	1.17	—	3.97	3.16	2.69	3.10	6.97	5.29	1.80	4.62	4.62	—	4.62
1978	—	—	4.29	3.26	2.90	3.36	7.60	5.80	1.69	4.76	4.76	—	4.76
1979	—	—	5.73	4.05	4.03	3.26	16.21	7.41	2.27	6.59	6.59	—	6.59
1980	—	—	9.42	7.04	6.47	5.19	14.36	16.88	—	8.29	8.29	—	8.29
1981	—	—	10.84	8.39	7.60	5.24	18.00	11.37	4.63	10.59	10.59	—	10.59
1982	—	—	10.82	7.88	7.19	5.41	17.25	10.71	—	9.91	9.91	—	9.91
1983	—	—	10.44	8.96	^R 6.83	5.01	16.68	9.61	—	9.76	9.76	—	9.76
1984	—	—	10.27	7.00	^R 6.50	5.79	17.63	9.55	—	^R 9.76	^R 9.76	—	^R 9.76
1985	—	—	9.96	6.66	6.16	6.98	17.61	9.87	—	9.76	9.76	—	9.76
1986	—	—	8.41	6.79	4.43	8.23	16.89	7.26	2.32	7.10	7.10	—	7.10
1987	—	—	7.55	7.02	4.39	7.76	12.70	7.58	2.29	7.31	7.31	—	7.31
1988	—	—	7.41	6.47	4.14	7.73	14.61	7.23	—	6.90	6.90	—	6.90
1989	—	—	8.26	7.39	4.54	7.13	14.48	8.42	—	7.96	7.96	—	7.96
1990	—	—	8.32	8.86	6.69	8.38	14.88	8.49	—	9.12	9.12	—	9.12
1991	—	—	8.71	8.44	5.91	8.34	16.79	9.43	—	9.00	9.00	—	9.00
1992	—	4.17	8.54	8.20	4.64	7.73	19.43	8.09	—	9.72	9.72	—	9.72
1993	—	4.30	8.24	8.29	4.33	6.69	16.94	^R 9.08	—	^R 9.74	^R 9.74	—	^R 9.74
1994	—	4.74	7.96	8.21	3.99	6.69	19.18	9.17	—	9.73	9.73	—	9.73

Expenditures in Million Nominal Dollars													
1970	(a)	—	2.2	24.4	7.2	6.9	6.8	371.7	6.7	317.9	317.9	—	317.9
1971	(b)	—	2.2	25.3	7.8	1.1	10.1	277.8	0.6	324.9	324.9	—	324.9
1972	(b)	—	1.0	32.5	7.4	1.0	11.5	299.9	0.8	354.1	354.1	—	354.1
1973	(b)	—	2.0	46.6	8.5	1.1	11.1	336.9	0.7	407.9	407.9	—	407.9
1974	(b)	—	2.8	70.3	15.6	2.2	14.4	418.7	1.6	526.1	526.1	—	526.1
1975	(b)	—	2.5	67.2	19.3	2.1	13.6	472.2	1.6	578.3	578.3	—	578.3
1976	(b)	—	2.5	84.4	21.1	2.7	14.2	627.0	0.4	652.3	652.3	—	652.3
1977	(b)	—	3.7	116.8	26.2	2.6	14.7	557.4	0.9	721.6	721.6	—	721.6
1978	—	—	4.6	136.9	31.9	3.1	17.2	587.3	(a)	781.1	781.1	—	781.1
1979	—	—	5.2	177.9	42.3	2.2	24.2	730.4	0.2	982.3	982.3	—	982.3
1980	—	—	8.7	216.2	66.2	3.3	38.3	833.3	—	1,239.6	1,239.6	—	1,239.6
1981	—	—	11.7	211.5	80.9	4.0	38.4	1,004.8	0.1	1,329.4	1,329.4	—	1,329.4
1982	—	—	8.8	234.3	57.2	3.4	31.6	952.2	—	1,285.6	1,285.6	—	1,285.6
1983	—	—	6.9	277.2	^R 63.9	4.5	32.6	843.0	—	^R 1,217.6	^R 1,217.6	—	^R 1,217.6
1984	—	—	5.6	253.3	^R 49.3	1.5	30.3	843.0	—	^R 1,219.6	^R 1,219.6	—	^R 1,219.6
1985	—	—	4.8	286.1	45.9	1.4	33.6	823.4	—	1,178.5	1,178.5	—	1,178.5
1986	—	—	5.0	281.8	32.8	1.1	29.5	628.5	(a)	976.4	976.4	—	976.4
1987	—	—	3.4	320.3	32.9	1.4	27.0	655.2	(b)	1,040.1	1,040.1	—	1,040.1
1988	—	—	3.6	342.3	34.2	1.4	29.9	660.9	—	1,072.3	1,072.3	—	1,072.3
1989	—	—	3.9	340.4	37.1	1.7	30.4	761.6	—	1,175.3	1,175.3	—	1,175.3
1990	—	—	3.9	397.2	60.9	2.1	31.5	868.1	—	1,344.7	1,344.7	—	1,344.7
1991	—	—	3.7	391.2	33.1	1.9	32.5	830.2	—	1,292.6	1,292.6	—	1,292.6
1992	—	(a)	3.5	417.1	30.7	1.3	35.3	814.0	—	1,304.9	1,304.9	—	1,304.9
1993	—	(b)	3.0	415.6	27.5	1.1	38.0	^R 825.2	—	^R 1,310.9	^R 1,310.9	—	^R 1,310.9
1994	—	(b)	3.0	441.7	26.1	2.3	40.2	833.3	—	1,348.6	1,348.6	—	1,348.6

^a Liquefied petroleum gases.^R Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a) Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 178. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Nebraska

Year	Coal	Natural Gas	Petroleum			Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke			
Prices in Nominal Dollars per Million Btu								
1970	0.35	0.27	0.49	0.53	—	—	—	0.30
1971	0.40	0.31	0.59	0.75	—	—	—	0.34
1972	0.43	0.38	0.74	0.98	—	—	—	0.41
1973	0.47	0.42	0.85	1.09	—	0.17	—	0.43
1974	0.60	0.49	1.06	1.47	—	0.16	—	0.43
1975	0.87	0.83	1.73	1.85	—	0.17	—	0.50
1976	0.93	0.81	1.75	2.28	—	0.20	—	0.62
1977	1.05	0.97	1.79	2.58	—	0.20	—	0.65
1978	1.11	1.11	1.85	2.75	—	0.29	—	0.75
1979	1.12	1.48	2.24	4.36	—	0.44	—	1.00
1980	1.24	1.53	3.21	6.19	—	0.55	—	0.85
1981	1.14	2.40	4.83	7.22	—	0.68	—	0.96
1982	1.17	3.02	4.06	8.66	—	0.62	—	1.01
1983	1.22	3.26	4.20	8.66	—	0.57	—	1.08
1984	1.28	3.40	—	8.04	—	0.65	—	1.01
1985	1.11	3.58	—	8.89	—	0.64	—	0.80
1986	1.04	3.21	2.32	3.87	—	0.64	—	0.82
1987	0.95	2.50	2.29	3.06	—	0.63	—	0.78
1988	0.84	2.96	2.34	3.47	—	0.65	—	0.73
1989	0.83	2.36	2.15	4.35	—	0.61	—	0.72
1990	0.78	2.01	1.86	7.03	—	0.62	—	0.69
1991	0.75	1.97	1.41	4.57	—	0.67	0.90	0.74
1992	0.75	2.38	—	4.65	—	0.64	1.00	0.74
1993	0.79	2.73	—	4.20	—	0.73	0.66	0.77
1994	0.77	2.06	1.57	4.02	—	—	—	—

Expenditures in Million Nominal Dollars

1970	85	123	0.8	6.5	—	1.8	—	22.9
1971	86	152	0.3	0.6	—	0.9	—	24.9
1972	122	162	0.8	1.6	—	2.4	—	32.8
1973	142	221	0.6	1.5	—	2.1	—	39.5
1974	157	230	5.2	2.2	—	7.9	—	53.2
1975	234	253	7.2	3.3	—	18.5	—	68.1
1976	381	351	11.0	8.7	—	14.7	—	82.2
1977	510	446	6.9	4.2	—	11.0	—	92.6
1978	541	438	9.6	5.4	—	16.6	—	99.7
1979	741	492	7.7	5.2	—	27.5	—	133.6
1980	108.8	203	3.4	3.1	—	21.7	—	144.7
1981	104.4	103	0.4	3.9	—	36.3	—	154.8
1982	105.3	4.6	(6)	5.1	—	68.2	—	181.3
1983	121.0	4.9	(6)	2.7	—	41.1	—	189.7
1984	149.9	4.8	—	1.8	—	35.5	—	191.7
1985	122.8	4.4	—	2.1	—	29.3	—	158.7
1986	107.7	5.3	0.8	1.1	—	52.6	—	167.8
1987	104.6	4.4	0.8	0.8	—	59.0	—	169.4
1988	112.3	5.2	1.1	1.3	—	48.5	—	186.5
1989	104.7	5.9	0.8	1.2	—	56.9	—	188.9
1990	103.4	7.2	(6)	1.3	—	48.3	—	181.3
1991	108.5	6.8	(6)	0.7	—	53.4	—	189.5
1992	100.6	4.3	—	0.7	—	53.8	0.1	189.2
1993	120.2	5.0	—	1.0	—	48.5	0.1	172.8
1994	118.4	6.2	(5)	1.0	—	49.1	0.1	172.9

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

—No consumption.

(g)=Value less than 0.05 million nominal dollars.

Note: Expenditure totals may not equal sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 179. Energy Price and Expenditure Estimates by Source, 1970-1994, Nevada

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^d	
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biofuels	Total ^c				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total							
Prices in Nominal Dollars per Million Btu																		
1970	—	0.37	0.37	0.61	1.29	0.78	2.91	3.07	0.88	\$1.35	1.95	—	—	1.32	0.36	3.89	1.95	
1971	—	0.33	0.33	0.60	1.30	0.80	3.02	2.99	0.78	\$1.52	1.93	—	—	1.18	0.37	4.05	1.97	
1972	—	0.31	0.31	0.64	1.30	0.79	2.81	3.11	0.81	\$1.43	1.96	—	—	1.06	0.36	4.31	2.07	
1973	—	0.29	0.29	0.71	1.61	0.94	3.96	3.34	1.13	\$1.44	2.18	—	—	1.16	0.38	4.50	2.28	
1974	—	0.30	0.30	0.90	2.68	1.62	9.71	4.38	1.94	\$2.36	3.08	—	—	1.64	0.44	5.57	3.08	
1975	—	0.36	0.36	1.31	2.75	2.12	4.83	4.74	1.98	\$2.61	3.40	—	—	1.82	0.89	6.86	3.52	
1976	—	0.52	0.52	1.55	2.87	2.32	4.92	4.74	1.98	\$2.58	3.52	—	—	1.93	0.72	8.16	3.72	
1977	—	0.68	0.68	2.00	3.05	2.71	5.24	5.12	2.14	\$2.64	3.80	—	—	2.20	0.60	9.24	4.28	
1978	—	0.80	0.80	2.07	3.20	2.92	4.73	5.45	2.02	\$2.83	3.91	—	—	2.69	1.09	10.00	4.61	
1979	—	1.07	1.07	2.53	4.65	4.08	5.48	7.38	2.67	\$3.72	6.50	—	—	3.95	1.51	10.35	6.93	
1980	—	1.06	1.06	3.10	6.97	6.56	7.67	9.86	3.58	\$5.86	7.87	—	—	4.69	1.88	13.18	8.18	
1981	—	1.12	1.12	3.53	8.20	7.97	8.93	11.46	4.75	\$7.68	9.51	—	—	5.12	1.79	13.84	8.31	
1982	—	1.21	1.21	4.53	8.08	7.38	8.77	11.09	4.22	\$8.30	8.17	—	—	4.87	1.49	15.86	9.54	
1983	—	1.23	1.23	5.36	\$7.20	\$6.76	10.14	9.21	4.73	\$8.91	7.90	—	—	4.70	1.51	16.97	9.97	
1984	—	1.34	1.34	5.50	\$6.87	\$6.45	10.46	8.78	4.49	\$8.63	\$7.66	—	—	\$4.45	1.52	18.89	\$9.72	
1985	—	1.62	1.62	5.44	\$6.72	\$6.22	11.48	8.77	4.45	\$8.65	\$7.62	—	—	\$4.93	1.79	16.75	\$9.94	
1986	—	1.40	1.40	4.60	\$5.25	4.25	10.85	8.75	2.04	\$8.53	\$6.79	—	—	\$3.96	1.47	17.16	\$7.78	
1987	—	1.40	1.40	4.25	\$5.75	4.27	10.13	8.79	2.41	\$4.60	\$6.64	—	—	\$3.70	1.47	18.46	\$7.36	
1988	—	1.37	1.37	4.49	\$6.66	4.08	10.07	7.32	2.39	\$4.68	\$6.99	—	—	\$3.68	1.47	18.93	\$7.71	
1989	—	1.52	1.52	3.84	\$6.62	4.70	12.50	8.19	2.73	\$3.89	\$6.87	—	—	\$4.16	1.62	16.46	\$8.17	
1990	—	1.40	1.40	3.98	\$7.29	5.28	11.39	9.10	2.93	\$4.08	\$7.98	—	4.63	\$4.53	1.89	15.77	\$8.63	
1991	—	1.41	1.41	3.72	\$7.18	5.00	12.20	8.89	3.69	\$4.69	\$7.42	—	4.52	\$4.26	1.48	16.47	\$8.74	
1992	—	1.46	1.46	3.65	\$7.09	4.70	12.75	9.30	3.15	\$4.95	\$7.69	—	4.63	\$4.37	1.55	16.99	\$9.02	
1993	—	1.47	1.47	4.05	\$7.41	4.68	11.99	\$9.21	3.38	\$4.41	\$7.57	—	4.64	\$4.49	1.90	17.29	\$8.94	
1994	—	1.44	1.44	4.47	7.30	4.23	11.75	9.51	3.03	4.21	7.64	—	4.63	4.58	1.53	18.74	9.41	
Expenditure in Million Nominal Dollars																		
1970	—	6.4	6.4	34.6	21.2	19.2	6.3	118.7	0.5	\$7.7	176.6	—	—	217.5	-75.1	75.7	278.1	
1971	—	12.0	12.0	43.9	23.9	21.3	8.5	121.2	1.1	\$6.6	185.7	—	—	241.1	-87.9	83.7	298.9	
1972	—	25.9	25.9	48.3	22.4	23.9	8.1	139.0	1.4	\$10.3	204.6	—	—	276.7	-43.4	99.0	334.3	
1973	—	25.7	25.7	55.4	30.8	29.9	8.8	187.9	3.0	\$11.8	241.2	—	—	322.9	-48.1	114.3	389.6	
1974	—	30.0	30.0	62.8	36.0	50.4	9.5	205.9	9.9	\$20.2	333.9	—	—	428.4	-59.7	149.4	519.1	
1975	—	36.8	36.8	85.5	41.1	88.2	7.4	239.7	16.7	\$18.4	383.4	—	—	614.7	-79.8	179.8	613.9	
1976	—	57.4	57.4	110.5	48.1	79.7	6.8	248.9	9.0	\$16.3	406.8	—	—	574.5	-99.9	216.1	690.6	
1977	—	66.7	66.7	148.9	54.7	98.4	8.2	285.2	19.4	\$16.8	482.5	—	—	698.0	-140.2	253.2	811.0	
1978	—	72.7	72.7	137.2	73.3	112.9	6.6	334.7	36.2	\$19.9	589.9	—	—	792.9	-142.6	303.5	953.7	
1979	—	106.1	106.1	216.5	85.1	168.5	17.1	439.1	24.2	\$25.9	750.0	—	—	1,082.7	-224.9	365.2	1,222.9	
1980	—	98.1	98.1	191.5	195.9	288.2	22.8	587.8	59.0	\$34.9	1,125.8	—	—	1,419.5	-228.1	486.2	1,688.8	
1981	—	125.5	125.5	271.5	180.5	301.0	24.3	695.8	6.3	\$40.7	1,200.5	—	—	1,633.6	-275.2	472.1	1,830.5	
1982	—	178.8	178.8	225.9	165.3	276.4	28.3	658.9	8.2	\$35.5	1,171.5	—	—	1,573.3	-238.6	585.2	1,869.7	
1983	—	180.5	180.5	232.4	\$221.3	\$254.4	32.4	545.9	2.5	\$40.9	\$1,097.4	—	—	\$1,510.3	-221.6	587.4	1,876.1	
1984	—	209.1	209.1	238.9	\$221.2	\$212.0	28.5	539.0	5.6	\$42.9	\$1,043.0	—	—	\$1,491.0	-248.0	590.8	\$1,823.8	
1985	—	204.3	204.3	222.8	\$211.7	197.8	48.6	535.6	4.4	\$46.9	\$1,036.2	—	—	\$1,453.1	-226.1	534.3	\$1,863.3	
1986	—	225.5	225.5	162.3	\$188.7	140.5	33.6	432.0	3.0	\$34.4	\$816.0	—	—	\$1,203.9	-249.1	555.8	\$1,610.6	
1987	—	217.1	217.1	173.6	\$216.6	152.5	32.1	465.1	7.6	\$32.7	\$908.7	—	—	\$1,297.5	-236.1	638.7	\$1,697.2	
1988	—	250.8	250.8	213.0	\$222.9	145.9	36.8	541.6	14.8	\$35.5	\$998.8	—	—	\$1,480.4	-290.6	717.3	\$1,887.0	
1989	—	259.5	259.5	245.9	\$282.4	162.9	72.2	629.3	11.1	\$41.4	\$1,198.0	—	—	\$1,701.4	-318.6	773.1	\$2,159.7	
1990	—	247.5	247.5	243.8	\$311.8	213.9	58.8	710.2	8.4	\$34.8	\$1,335.9	—	5.2	\$1,832.8	-301.8	879.9	\$2,410.7	
1991	—	254.1	254.1	245.1	\$296.2	182.5	45.9	712.1	10.2	\$39.4	\$1,286.3	—	5.8	\$1,791.0	-298.7	914.1	\$2,406.5	
1992	—	261.9	261.9	252.7	\$302.8	181.8	47.6	783.6	11.4	\$34.0	\$1,336.4	—	5.8	\$1,858.6	-314.8	897.2	\$2,529.2	
1993	—	253.1	253.1	345.6	\$327.7	171.1	\$36.1	\$788.0	8.8	\$39.2	\$1,368.9	—	6.0	\$1,373.6	-308.1	1,068.2	\$2,731.7	
1994	—	256.8	256.8	468.8	323.8	153.3	50.0	860.8	6.3	40.4	1,444.5	—	5.9	2,167.6	-321.7	1,253.9	3,099.3	

^a Liquidated petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990^e Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 180. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Nevada

Year	Primary Energy							Electricity	Total Energy ^c	
	Coal	Natural Gas	Petroleum				Nuclear ^d			Total ^e
			Distillate Fuel	Kerosene	LPG ^a	Total				
Prices in Nominal Dollars per Million Btu										
1970	1.21	1.29	1.27	—	3.82	2.81	—	1.79	4.99	2.79
1971	0.95	1.40	1.24	—	3.64	2.40	—	1.75	4.89	2.72
1972	0.90	1.39	1.25	—	3.43	2.33	—	1.89	4.81	2.82
1973	0.79	1.44	1.57	—	4.09	2.87	—	1.83	4.96	3.04
1974	1.62	1.62	2.49	—	4.39	3.55	—	2.69	6.03	3.74
1975	1.86	1.89	2.82	—	4.99	3.72	—	2.96	7.84	4.80
1976	2.01	1.82	3.05	—	4.86	3.73	—	2.27	6.97	4.87
1977	3.33	2.69	3.14	—	6.91	4.22	—	3.00	10.11	5.85
1978	3.42	2.79	3.27	—	5.54	3.83	—	3.94	10.85	6.32
1979	4.87	2.93	4.46	—	7.18	5.35	—	3.46	11.25	6.99
1980	5.13	3.67	6.82	—	8.29	6.21	—	4.69	14.21	8.74
1981	5.43	4.49	7.80	14.88	16.19	8.77	—	5.30	14.47	8.12
1982	6.06	5.29	7.85	14.80	11.08	10.04	—	5.83	17.33	10.88
1983	4.82	6.39	7.87	13.82	12.23	10.76	—	7.34	18.42	12.25
1984	4.83	6.57	6.82	13.89	12.24	10.14	—	7.30	17.46	11.87
1985	4.64	6.89	7.85	15.84	12.46	10.89	—	7.61	18.39	12.89
1986	4.49	6.82	7.26	14.49	11.84	10.22	—	6.63	18.28	12.41
1987	4.11	5.29	5.79	11.54	11.19	8.59	—	6.80	17.05	11.09
1988	3.83	5.09	5.02	11.99	10.99	8.93	—	6.55	17.69	11.70
1989	4.14	5.36	4.20	16.49	14.89	12.79	—	6.94	18.79	11.32
1990	6.89	5.49	6.79	13.46	13.49	14.79	44.75	49.82	46.72	49.31
1991	4.97	5.41	6.59	13.11	13.42	11.21	4.75	49.31	17.28	10.76
1992	4.14	5.40	7.74	15.41	14.23	11.86	4.75	49.37	18.12	11.41
1993	3.87	5.49	6.85	13.89	12.92	11.08	4.75	49.18	19.09	11.57
1994	4.49	6.43	6.89	13.91	13.14	11.47	4.75	49.87	28.98	12.85
Expenditures in Million Nominal Dollars										
1970	0.7	16.9	2.4	—	9.3	16.7	—	22.4	39.3	52.8
1971	0.2	22.1	3.7	—	8.8	12.2	—	24.8	34.5	59.1
1972	(9)	13.6	3.2	—	7.3	10.8	—	24.4	40.1	64.5
1973	(9)	13.6	3.9	—	7.9	11.3	—	25.7	46.4	71.1
1974	0.1	18.1	3.5	—	7.8	11.4	—	27.8	57.7	85.2
1975	0.1	21.6	4.4	—	5.8	16.1	—	31.9	72.1	104.0
1976	0.3	21.8	4.6	—	5.3	8.9	—	32.0	66.6	117.4
1977	1.4	31.1	5.6	—	4.6	12.3	—	44.3	109.8	146.4
1978	0.1	23.9	7.7	—	5.4	13.6	—	46.1	122.6	169.6
1979	0.2	37.4	5.5	—	10.8	16.1	—	56.7	144.6	198.3
1980	0.2	38.6	7.5	—	14.6	22.1	—	76.9	179.2	255.1
1981	0.3	63.5	6.9	3.0	15.0	24.9	—	88.7	172.9	261.6
1982	0.3	66.8	7.2	1.0	17.9	26.2	—	115.3	223.6	286.8
1983	0.1	77.9	10.1	3.4	23.4	36.9	—	144.9	230.1	345.9
1984	1.6	82.7	9.9	3.0	22.2	35.2	—	118.0	241.9	380.4
1985	0.1	85.7	12.5	4.8	29.1	45.9	—	139.3	289.1	398.4
1986	0.1	72.9	10.4	3.5	23.5	37.4	—	118.4	268.5	360.0
1987	0.1	75.1	11.9	1.3	21.4	33.7	—	106.9	263.9	372.8
1988	0.1	66.7	10.2	1.1	25.0	36.3	—	126.0	289.0	424.0
1989	0.1	93.8	12.1	1.3	45.1	58.6	—	152.7	294.0	446.7
1990	0.2	97.1	8.4	4.6	38.8	49.9	45.1	49.19.2	316.8	487.2
1991	0.1	107.3	6.5	0.8	35.6	44.0	6.4	49.157.7	341.0	498.8
1992	(9)	101.6	9.9	0.8	32.8	43.2	5.7	49.130.6	375.0	525.6
1993	0.1	117.7	7.3	0.8	29.0	37.1	5.9	49.140.5	409.0	589.9
1994	(9)	141.6	6.1	0.3	38.7	37.1	5.8	49.184.6	480.0	674.6

^a Liquidated petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of hydroelectric beginning in 1990.^e Revised data.

—No consumption.

(9)=Value less than \$0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 181. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Nevada

Year	Primary Energy								Electricity	Total Energy ^a	
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^b	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.82	0.70	1.12	0.77	1.14	3.07	0.82	1.34	0.77	4.74	2.15
1971	0.49	0.71	1.15	0.80	1.22	2.90	0.70	1.35	0.81	4.88	2.19
1972	0.50	0.73	1.16	0.81	1.07	3.11	0.82	1.32	0.82	5.20	2.30
1973	0.40	0.82	1.41	1.07	1.35	3.24	1.15	1.82	0.80	5.34	2.51
1974	0.70	0.99	2.57	2.11	2.15	4.30	1.94	2.59	1.10	6.42	3.04
1975	0.82	1.45	2.82	2.42	2.45	4.74	2.88	2.88	1.58	8.81	3.88
1976	1.07	1.68	2.84	2.63	2.58	4.74	1.90	2.80	1.75	9.24	3.92
1977	1.15	2.12	2.84	2.77	3.40	5.12	2.13	3.29	2.18	10.41	4.61
1978	1.21	2.40	3.04	2.95	2.88	5.45	2.01	3.30	2.47	11.37	5.25
1979	1.30	2.89	4.36	3.87	3.06	7.38	2.60	5.01	3.01	11.67	5.34
1980	1.56	3.88	6.88	—	4.88	9.88	3.88	6.78	4.38	15.39	7.79
1981	1.52	4.25	7.54	6.86	7.26	11.40	4.60	7.89	5.08	17.21	9.58
1982	2.09	5.18	7.49	7.21	6.44	11.09	4.18	8.19	5.51	18.53	10.54
1983	1.81	5.88	^a 6.35	6.91	7.08	9.21	4.49	^a 6.98	^a 5.81	19.54	^a 9.87
1984	1.78	5.80	^a 6.06	6.82	6.94	8.78	4.65	^a 6.82	^a 5.84	17.56	^a 10.47
1985	1.88	5.77	^a 5.99	^a 6.78	8.53	8.77	4.88	^a 6.96	^a 5.96	18.34	^a 11.14
1986	1.72	4.63	^a 5.55	^a 4.16	9.00	6.75	2.30	^a 4.41	^a 4.57	18.08	^a 10.86
1987	1.59	4.27	^a 4.49	^a 4.79	8.52	6.79	2.64	^a 4.89	^a 4.38	16.59	^a 9.31
1988	1.58	4.84	^a 3.86	^a 4.41	8.58	7.32	2.32	^a 4.80	^a 4.86	16.94	^a 9.91
1989	1.89	4.30	^a 4.83	^a 5.39	10.08	8.10	2.62	^a 6.17	^a 4.82	16.86	^a 9.97
1990	1.86	4.25	^a 5.87	^a 6.15	9.83	8.10	2.85	^a 6.74	^a 4.85	17.39	^a 10.44
1991	1.56	4.19	^a 5.28	^a 5.81	9.28	8.83	2.54	^a 6.54	^a 4.40	17.01	^a 10.30
1992	1.59	4.19	^a 5.03	^a 5.87	9.30	8.30	2.44	^a 6.39	^a 4.47	17.85	^a 10.70
1993	1.53	4.25	^a 6.26	^a 6.12	9.21	^a 9.21	—	^a 5.72	^a 4.51	15.38	^a 10.66
1994	1.55	5.17	4.63	6.05	10.10	8.51	—	5.53	5.23	19.69	11.68

Expenditures in Million Nominal Dollars											
1970	0.8	7.3	1.8	(d)	6.8	8.8	0.1	2.5	18.9	33.4	49.7
1971	0.2	8.6	1.8	(d)	6.5	0.9	0.2	3.2	12.0	38.9	49.9
1972	(d)	10.2	1.4	(d)	6.4	0.9	0.4	3.2	18.4	48.7	57.1
1973	(d)	11.5	1.7	(d)	6.5	1.0	0.4	3.7	15.2	48.7	63.6
1974	(d)	14.9	1.6	0.2	0.7	1.4	0.7	4.5	18.4	69.9	79.3
1975	8.1	23.2	2.8	0.2	6.6	1.7	0.4	4.8	28.1	78.6	106.6
1976	0.2	32.6	2.1	0.3	6.5	1.9	0.5	4.7	37.5	104.4	117.8
1977	0.9	88.2	2.5	0.4	6.7	1.4	0.3	5.4	44.6	124.3	134.3
1978	0.1	48.0	3.5	0.5	6.5	1.5	0.3	6.2	54.2	122.8	167.2
1979	0.1	55.0	2.4	0.1	1.8	2.2	(d)	6.0	61.0	145.8	146.8
1980	8.1	38.6	13.8	—	1.4	3.2	0.2	18.3	87.9	161.1	161.1
1981	0.1	38.0	14.6	0.7	1.8	4.1	0.7	22.0	60.1	195.5	173.8
1982	0.2	46.6	3.3	0.2	1.9	4.3	0.3	10.9	57.0	177.5	177.5
1983	0.1	70.9	^a 12.8	0.1	2.4	6.2	0.3	^a 21.9	^a 32.9	180.2	^a 223.1
1984	0.7	73.7	^a 13.9	0.2	2.2	9.3	0.8	^a 28.4	^a 100.8	190.8	^a 291.8
1985	(d)	74.8	^a 11.3	4.8	4.8	5.5	0.8	^a 28.8	^a 85.8	212.9	^a 307.8
1986	0.1	55.2	^a 10.2	0.1	3.2	2.9	0.2	^a 16.5	^a 72.9	218.9	^a 292.8
1987	(d)	59.0	^a 17.4	0.1	2.9	3.0	0.2	^a 23.8	^a 82.6	211.8	^a 284.2
1988	(d)	68.7	^a 10.2	0.2	3.4	3.1	0.1	^a 17.1	^a 85.9	233.0	^a 318.8
1989	0.1	67.1	^a 10.6	^a 0.1	5.6	3.5	(d)	^a 19.9	^a 87.1	247.9	^a 334.0
1990	0.1	86.8	^a 11.5	6.1	4.7	4.8	(d)	^a 28.4	^a 88.8	279.8	^a 385.4
1991	(d)	73.6	^a 9.0	0.1	4.3	3.8	(d)	^a 17.1	^a 90.8	285.0	^a 375.0
1992	(d)	^a 69.7	^a 8.7	^a 0.1	3.7	3.4	(d)	^a 18.0	^a 85.7	289.0	^a 384.7
1993	(d)	^a 77.2	^a 18.6	0.1	3.7	0.6	—	^a 23.0	^a 108.3	315.0	^a 416.2
1994	(d)	100.2	14.8	0.1	4.2	0.8	—	19.7	118.9	364.0	483.9

^a Liquid petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c Revised data.

—No consumption.

(d)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 182. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Nevada

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Biomass ^d	Total ^e		
	Caking Coal	Steam Coal	Total		Asphalt and Road Oil	Diesel Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	0.52	0.52	0.52	0.80	0.98	0.77	1.18	5.08	3.07	8.49	0.43	1.04	—	0.75	2.14	1.82
1971	—	0.49	0.49	0.53	0.82	0.99	0.80	1.22	5.27	2.99	0.80	—	1.10	—	0.80	2.26	1.06
1972	—	0.50	0.50	0.55	0.83	1.00	0.81	1.07	5.58	3.11	0.79	—	1.09	—	0.86	2.42	1.16
1973	—	0.48	0.48	0.74	0.86	1.33	1.07	1.35	5.33	3.34	1.06	—	1.23	—	0.98	2.62	1.34
1974	—	0.79	0.79	0.83	1.72	1.95	2.11	2.15	7.22	4.38	1.72	1.18	2.00	—	1.39	4.27	2.03
1975	—	0.82	0.82	1.05	1.83	2.25	2.42	2.45	7.46	4.74	1.83	—	2.25	—	1.51	4.23	2.18
1976	—	1.07	1.07	1.34	1.84	2.46	2.53	2.55	7.05	4.74	1.74	—	2.30	—	1.58	6.12	2.71
1977	—	1.15	1.15	1.90	1.76	2.80	2.77	3.40	6.97	5.12	1.96	1.68	2.48	—	2.07	7.11	3.41
1978	—	1.21	1.21	1.77	1.62	2.72	2.05	2.88	7.80	5.45	1.98	1.10	2.58	—	2.13	7.83	3.54
1979	—	1.35	1.35	2.41	2.48	3.78	—	3.96	10.21	7.38	2.60	2.89	3.60	—	2.81	8.92	5.08
1980	—	1.38	1.38	2.89	3.88	6.58	—	4.99	14.38	8.96	3.78	4.04	5.10	—	3.87	11.83	7.28
1981	—	1.52	1.52	3.35	4.44	6.51	6.89	7.28	19.00	11.45	4.82	4.48	6.30	—	4.28	11.80	7.58
1982	—	2.09	2.09	4.12	4.21	6.73	—	8.44	17.25	11.09	4.87	2.72	6.00	—	4.54	13.57	8.45
1983	—	1.81	1.81	4.51	4.20	6.53	6.91	7.03	16.98	9.21	4.89	3.87	5.94	—	4.93	14.69	8.42
1984	—	1.78	1.78	4.79	4.54	6.35	6.82	6.94	17.63	8.78	4.58	3.82	5.88	—	5.18	12.62	8.73
1985	—	1.58	1.58	4.05	4.78	6.24	6.79	6.83	17.61	6.77	4.88	3.79	5.84	—	5.18	12.91	8.75
1986	—	1.72	1.72	3.76	4.34	6.38	6.16	6.06	15.60	8.75	2.30	—	4.41	—	3.98	13.98	8.74
1987	—	1.59	1.59	3.72	3.27	4.49	4.79	8.52	12.70	6.70	2.84	—	4.40	—	3.96	12.48	8.64
1988	—	1.53	1.53	3.94	3.29	4.11	4.41	8.68	14.61	7.32	2.32	—	4.19	—	3.88	13.01	8.74
1989	—	1.69	1.69	4.83	2.79	5.02	5.36	10.08	14.48	8.19	2.52	—	4.75	—	4.48	12.99	8.76
1990	—	1.56	1.56	3.98	2.68	5.73	5.16	9.83	14.68	9.10	2.85	—	5.28	1.89	4.67	12.78	8.71
1991	—	1.38	1.38	4.06	3.27	5.41	5.81	9.29	16.79	8.53	2.54	—	5.08	1.80	4.45	14.53	8.75
1992	—	1.53	1.53	3.93	2.91	5.47	5.87	9.26	19.43	9.30	2.44	—	5.14	1.80	4.47	14.43	8.71
1993	—	1.53	1.53	4.15	2.84	5.71	6.12	9.21	18.94	9.21	2.36	—	4.97	1.89	4.30	14.77	8.70
1994	—	1.55	1.55	5.47	2.76	5.91	6.70	10.13	19.18	9.51	2.51	—	4.93	1.88	4.92	15.95	8.23
Expenditures in Million Nominal Dollars																	
1970	—	0.9	0.9	6.5	2.4	4.7	(a)	0.4	0.7	2.7	8.1	(b)	11.0	—	17.7	12.0	29.7
1971	—	1.4	1.4	5.7	3.4	6.7	(b)	0.4	0.7	2.3	0.2	—	13.7	—	20.9	12.2	33.1
1972	—	1.9	1.9	6.5	4.7	6.6	(b)	0.4	0.8	2.5	0.4	—	15.4	—	22.8	15.1	37.8
1973	—	1.6	1.6	8.2	5.8	7.7	(a)	0.4	0.8	1.9	0.4	—	16.7	—	25.5	20.2	45.7
1974	—	2.4	2.4	8.2	11.7	7.4	0.1	0.8	1.0	2.5	0.6	(a)	24.3	—	34.9	31.8	66.8
1975	—	1.8	1.8	11.4	18.3	8.3	0.2	1.8	1.2	2.9	0.8	—	25.2	—	36.1	28.3	64.4
1976	—	3.4	3.4	19.0	7.6	10.9	0.1	0.7	1.2	3.2	0.6	—	24.7	—	45.1	60.1	105.1
1977	—	3.4	3.4	18.9	8.0	14.1	0.4	0.6	1.1	3.2	0.7	(a)	28.0	—	50.8	62.9	113.2
1978	—	2.4	2.4	19.6	9.6	18.0	0.4	0.6	1.2	3.1	0.4	(a)	33.4	—	55.4	69.1	123.6
1979	—	3.4	3.4	27.4	13.0	15.7	—	4.5	1.7	5.2	(b)	0.1	40.2	—	71.0	133.7	204.7
1980	—	4.6	4.6	21.9	15.0	21.1	—	6.9	2.3	5.8	(b)	0.1	51.1	—	77.8	185.8	273.4
1981	—	8.8	8.8	20.8	14.7	22.0	0.7	7.1	2.6	6.8	1.0	(a)	54.9	—	82.4	179.7	262.1
1982	—	10.1	10.1	23.6	16.5	21.0	—	8.0	2.3	6.2	0.5	(a)	58.6	—	92.4	211.0	303.4
1983	—	7.1	7.1	37.4	20.9	25.6	0.4	8.0	2.4	3.5	1.4	0.1	62.9	—	100.0	227.0	327.9
1984	—	4.6	4.6	39.3	22.6	28.7	0.4	3.0	2.6	3.0	4.0	0.1	68.8	—	142.5	146.5	291.0
1985	—	4.1	4.1	34.2	25.8	26.7	(a)	6.5	2.4	6.0	2.5	0.1	100.8	—	138.3	157.2	295.5
1986	—	4.3	4.3	12.1	16.3	33.8	0.1	8.0	2.1	4.9	1.8	—	84.8	—	80.9	196.3	247.3
1987	—	4.1	4.1	20.7	19.7	41.8	0.3	7.3	1.9	5.5	1.9	—	76.5	—	101.2	183.2	264.5
1988	—	4.3	4.3	24.6	20.3	55.2	0.1	7.7	2.2	5.6	1.5	—	82.5	—	121.5	198.4	299.0
1989	—	6.4	6.4	35.3	25.3	68.4	0.2	19.8	2.2	6.4	0.7	—	141.0	—	182.7	230.1	412.8
1990	—	6.1	6.1	38.8	19.7	106.8	0.2	14.8	2.3	8.1	0.1	—	152.8	0.1	198.8	294.0	492.8
1991	—	7.1	7.1	25.3	23.3	93.5	0.3	5.3	2.3	8.3	0.9	—	139.9	0.2	186.7	296.1	454.8
1992	—	8.1	8.1	34.7	16.2	94.7	0.3	4.4	2.8	8.4	0.9	—	127.7	0.1	169.6	313.2	491.8
1993	—	7.0	7.0	98.5	21.6	95.0	(a)	2.5	2.7	8.8	1.0	—	119.7	0.1	225.3	341.3	565.6
1994	—	7.0	7.0	162.5	23.1	77.4	(a)	13.7	2.9	9.5	1.5	—	129.2	0.1	267.8	389.4	657.2

^a Liquefied petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

R=Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

(a)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, definition procedures, and assumptions are described in Appendix A

Table 183. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Nevada

Year	Primary Energy										Electricity	Total Energy
	Coal	Natural Gas	Petroleum							Total		
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel			
	Prices in Nominal Dollars per Million Btu											
1970	0.52	—	2.17	1.80	0.78	1.18	5.08	3.07	9.60	2.08	2.58	2.08
1971	0.49	—	2.21	1.69	0.80	1.22	5.27	2.99	—	2.07	2.07	2.07
1972	0.50	—	2.19	1.59	0.79	1.07	5.58	3.11	0.79	2.15	2.15	2.15
1973	0.48	—	2.38	1.82	0.94	1.35	6.33	3.34	1.11	2.34	2.34	2.34
1974	0.78	—	3.23	2.88	1.82	2.18	7.22	4.38	1.87	3.26	3.26	3.26
1975	0.82	—	3.45	3.81	2.12	2.45	7.48	4.74	2.36	3.68	3.68	3.68
1976	1.07	—	3.59	3.06	2.32	2.58	7.05	4.74	1.94	3.72	3.72	3.72
1977	1.15	—	3.97	3.29	2.71	3.40	6.97	5.12	2.04	4.09	4.09	4.09
1978	—	—	4.29	3.46	3.82	2.86	7.60	5.46	2.45	4.36	4.36	4.36
1979	—	—	5.73	4.98	4.08	3.98	10.21	7.38	—	5.92	5.92	5.92
1980	—	—	9.82	7.36	6.59	4.89	14.38	9.98	—	8.44	8.44	8.44
1981	—	—	10.84	8.73	7.67	7.58	18.00	11.48	—	9.85	9.85	9.85
1982	—	—	10.92	8.38	7.38	6.44	17.25	11.09	—	9.49	9.49	9.49
1983	—	—	10.44	7.68	^R 6.76	7.03	16.98	9.21	4.27	^R 9.19	^R 9.19	^R 9.19
1984	—	—	10.27	7.28	^R 6.45	6.94	17.63	6.78	3.80	^R 7.89	^R 7.89	^R 7.89
1985	—	—	9.99	6.87	6.22	6.83	17.61	6.77	—	7.78	7.78	7.78
1986	—	—	8.41	6.01	4.25	6.06	15.58	6.75	1.86	5.96	5.96	5.96
1987	—	—	7.65	6.59	4.27	6.52	12.70	6.79	—	6.07	6.07	6.07
1988	—	—	7.41	6.87	4.08	6.56	14.61	7.32	—	6.40	6.40	6.40
1989	—	—	6.28	7.76	4.79	10.08	14.48	6.19	—	7.27	7.27	7.27
1990	—	—	6.82	8.87	6.26	8.03	14.40	6.60	—	8.37	8.37	8.37
1991	—	3.59	6.71	6.89	5.00	3.29	16.79	6.53	—	7.83	7.83	7.83
1992	—	3.34	6.64	6.53	4.70	3.26	19.43	6.30	—	6.09	6.09	6.09
1993	—	3.22	6.24	6.80	4.89	3.21	18.94	^R 9.21	—	^R 6.04	^R 6.04	^R 6.04
1994	—	3.69	7.98	6.90	4.23	3.28	19.18	9.51	—	6.11	6.11	6.11
Expenditures in Million Nominal Dollars												
1970	(a)	—	2.8	13.0	19.2	(a)	2.6	118.3	(a)	182.1	182.1	182.1
1971	(a)	—	1.9	11.9	21.3	(a)	2.6	118.0	—	165.9	165.9	165.9
1972	(a)	—	1.8	11.1	23.3	(a)	3.0	136.6	(a)	174.8	174.8	174.8
1973	(a)	—	2.0	17.1	29.3	(a)	3.3	185.0	(a)	206.7	206.7	206.7
1974	(a)	—	2.9	28.0	60.4	0.1	4.3	202.0	(a)	284.7	284.7	284.7
1975	(a)	—	3.4	24.7	89.2	0.1	4.2	238.2	0.1	336.9	336.9	336.9
1976	(a)	—	2.6	27.6	79.7	0.1	4.4	244.4	0.1	359.0	359.0	359.0
1977	(a)	—	3.3	32.4	98.4	0.1	3.5	280.3	0.1	418.3	418.3	418.3
1978	—	—	4.0	43.6	112.3	0.1	4.1	330.0	(a)	494.4	494.4	494.4
1979	—	—	5.2	59.8	168.5	0.9	5.8	431.7	—	672.0	672.0	672.0
1980	—	—	9.4	114.0	288.2	8.1	7.3	574.0	—	978.9	978.9	978.9
1981	—	—	10.2	122.0	301.0	0.3	8.7	686.0	—	1,127.1	1,127.1	1,127.1
1982	—	—	8.7	132.2	276.4	0.5	7.6	646.4	—	1,069.8	1,069.8	1,069.8
1983	—	—	5.6	139.2	^R 284.4	0.8	7.9	536.2	0.1	^R 944.1	^R 944.1	^R 944.1
1984	—	—	5.1	133.2	^R 212.0	1.1	8.7	520.7	(a)	^R 880.6	^R 880.6	^R 880.6
1985	—	—	8.3	130.3	187.8	1.1	8.1	526.7	—	887.5	887.5	887.5
1986	—	—	5.2	111.8	140.5	0.7	7.0	425.0	(a)	690.5	690.5	690.5
1987	—	—	3.6	143.7	152.5	0.5	6.5	456.8	—	765.7	765.7	765.7
1988	—	—	4.5	145.8	145.3	0.7	7.2	532.9	—	636.1	636.1	636.1
1989	—	—	4.9	171.2	162.8	0.7	7.3	616.8	—	983.2	983.2	983.2
1990	—	—	5.2	178.7	212.9	0.7	7.8	686.1	—	1,033.2	1,033.2	1,033.2
1991	—	(a)	4.9	183.1	182.5	0.7	7.6	703.2	—	^R 1,079.3	^R 1,079.3	^R 1,079.3
1992	—	(a)	4.5	187.7	181.8	0.8	9.2	772.0	—	1,136.1	1,136.1	1,136.1
1993	—	0.1	4.7	215.6	171.1	0.9	9.1	^R 777.8	—	^R 1,179.1	^R 1,179.1	^R 1,179.1
1994	—	0.1	4.3	224.0	163.9	1.4	9.6	850.8	—	1,253.4	1,253.4	1,253.4

^a Liquefied petroleum gases

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 184. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Nevada

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Hydro	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.31	4.39	0.81	0.79	—	0.42	—	—	0.38
1971	0.31	0.42	0.74	0.85	—	0.75	—	—	0.37
1972	0.30	0.44	0.82	0.97	—	0.83	—	—	0.35
1973	0.28	0.50	1.15	1.42	—	1.17	—	—	0.36
1974	0.28	0.71	1.96	2.23	—	1.98	—	—	0.44
1975	0.34	1.09	1.88	2.47	—	2.60	—	—	0.59
1976	0.50	1.42	2.01	2.58	—	2.03	—	—	0.72
1977	0.55	1.74	2.15	2.82	—	2.15	—	—	0.90
1978	0.79	1.96	2.02	2.57	—	2.02	—	—	1.09
1979	1.06	2.28	2.87	4.81	—	2.74	—	—	1.51
1980	1.85	2.59	3.58	6.58	—	3.89	—	—	1.89
1981	1.10	3.14	4.78	6.77	—	4.94	—	—	1.76
1982	1.18	3.02	4.17	7.28	—	4.62	—	—	1.40
1983	1.27	4.54	4.59	6.25	—	5.82	—	—	1.51
1984	1.35	4.35	4.03	6.14	—	5.38	—	—	1.52
1985	1.82	4.87	3.71	6.12	—	4.91	—	—	1.79
1986	1.39	3.04	1.97	3.94	—	2.08	—	—	1.47
1987	1.49	2.58	2.38	4.41	—	2.51	—	—	1.47
1988	1.38	2.72	2.40	4.05	—	2.51	—	—	1.47
1989	1.52	2.11	2.74	5.19	—	2.87	—	—	1.62
1990	1.48	1.85	2.89	6.47	—	3.50	—	—	1.89
1991	1.41	1.79	3.88	5.20	—	4.95	—	—	1.48
1992	1.48	1.87	3.23	4.80	—	3.41	—	—	1.35
1993	1.47	2.25	3.55	5.98	—	3.80	—	—	1.60
1994	1.43	1.92	3.22	4.37	—	3.40	—	—	1.53
Expenditures in Million Nominal Dollars									
1970	4.3	19.8	6.3	0.1	—	0.4	—	—	15.1
1971	10.2	17.0	0.6	(4)	—	0.7	—	—	27.5
1972	23.9	15.9	8.8	0.1	—	0.7	—	—	43.4
1973	24.1	21.8	2.1	0.2	—	2.3	—	—	46.1
1974	27.4	23.4	3.5	0.4	—	8.9	—	—	59.7
1975	34.1	29.3	15.7	8.8	—	18.5	—	—	79.8
1976	53.5	36.0	7.7	0.7	—	3.4	—	—	98.9
1977	61.1	40.6	19.3	0.2	—	18.5	—	—	140.2
1978	70.1	35.8	35.3	0.4	—	35.8	—	—	142.9
1979	102.5	95.8	24.2	1.4	—	29.6	—	—	224.9
1980	94.2	78.4	54.8	8.7	—	55.5	—	—	226.1
1981	148.2	149.4	6.8	0.9	—	7.6	—	—	275.2
1982	186.3	45.6	6.3	1.6	—	6.9	—	—	238.8
1983	173.1	45.2	0.7	1.8	—	2.3	—	—	221.0
1984	202.9	43.1	0.5	1.5	—	2.0	—	—	248.0
1985	199.9	38.8	1.2	1.8	—	3.1	—	—	238.1
1986	221.2	21.1	6.2	0.8	—	4.8	—	—	249.1
1987	243.0	18.9	6.3	0.8	—	7.2	—	—	259.1
1988	248.2	29.8	13.2	1.5	—	14.8	—	—	290.6
1989	253.0	30.4	10.4	2.0	—	12.4	—	—	315.8
1990	341.1	49.1	8.2	3.4	—	11.8	—	—	381.8
1991	246.8	38.6	9.2	2.0	—	11.3	—	—	295.7
1992	256.7	48.9	10.5	1.9	—	12.4	—	—	314.8
1993	246.0	52.1	8.8	1.2	—	10.0	—	—	308.1
1994	251.5	54.1	4.9	1.2	—	6.1	—	—	321.7

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

—No consumption.

(b)—Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 185. Energy Price and Expenditure Estimates by Source, 1970-1994, New Hampshire

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c	
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biomass	Total ^c				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total							
Prices in Nominal Dollars per Million Btu																		
1970	—	0.37	0.37	1.06	1.36	0.75	2.88	2.03	0.42	\$1.41	1.09	—	—	1.91	0.38	0.78	2.29	2.29
1971	—	0.45	0.45	1.87	1.46	0.79	2.06	3.08	0.58	\$1.53	1.08	—	—	1.51	0.40	0.78	2.29	2.29
1972	—	0.49	0.49	1.79	1.47	0.81	2.08	3.01	0.49	\$1.53	1.70	—	—	1.51	0.46	0.91	2.32	2.32
1973	—	0.51	0.51	1.81	1.59	0.86	2.97	3.25	0.94	\$1.56	1.96	—	—	1.72	0.54	1.08	2.36	2.36
1974	—	0.82	0.82	1.87	2.95	1.02	3.50	4.37	1.88	\$2.61	3.08	—	—	2.88	1.17	10.38	3.86	3.86
1975	—	1.22	1.22	2.30	2.88	2.14	3.53	4.84	1.88	\$3.88	3.34	—	—	2.88	1.43	12.68	4.98	4.98
1976	—	1.28	1.28	2.58	2.98	2.29	4.03	4.78	1.78	\$3.87	3.38	—	—	3.05	1.49	12.77	4.46	4.46
1977	—	1.53	1.53	3.36	3.36	2.04	4.41	5.04	2.18	\$3.26	3.67	—	—	3.34	1.61	13.44	4.89	4.89
1978	—	1.48	1.48	3.32	3.58	2.87	5.11	5.23	1.98	\$3.84	3.85	—	—	3.57	1.71	15.18	5.43	5.43
1979	—	1.53	1.53	3.83	3.85	3.88	5.48	7.25	2.78	\$4.68	5.21	—	—	4.92	2.00	16.17	7.16	7.16
1980	—	1.68	1.68	4.27	4.97	4.81	4.89	18.11	2.82	\$7.48	7.28	—	—	4.86	2.88	19.55	9.99	9.99
1981	—	1.73	1.73	5.17	8.57	7.80	9.25	11.22	4.86	\$9.05	8.63	—	—	7.34	3.23	25.11	11.76	11.76
1982	—	1.94	1.91	8.25	8.19	7.51	8.85	10.52	4.28	\$8.27	8.38	—	—	7.03	2.78	28.90	11.06	11.06
1983	—	1.96	1.98	8.85	\$7.86	\$7.86	8.41	9.53	4.27	\$7.78	\$7.84	—	—	\$6.84	2.79	24.76	\$19.97	\$19.97
1984	—	2.03	2.03	4.38	\$7.47	\$6.21	8.70	9.84	4.38	\$6.46	\$7.41	—	—	\$6.38	2.32	24.75	\$19.54	\$19.54
1985	—	2.43	2.43	6.44	\$7.48	4.83	11.42	9.28	3.81	\$7.84	7.78	—	—	6.81	2.46	23.28	\$19.67	\$19.67
1986	—	2.61	2.61	6.53	\$5.51	4.83	18.57	7.32	2.42	\$6.81	5.44	—	—	\$5.04	1.95	22.14	8.88	8.88
1987	—	1.95	1.93	5.78	\$6.58	4.18	10.08	7.87	2.67	\$5.46	\$5.93	—	—	5.30	2.20	23.25	\$19.98	\$19.98
1988	—	1.79	1.79	5.50	\$6.88	4.22	10.55	7.82	1.94	\$6.87	5.82	—	—	5.17	1.83	21.34	\$19.84	\$19.84
1989	—	1.78	1.75	6.86	6.39	4.83	10.32	8.80	2.30	\$6.84	\$6.44	—	—	\$6.73	2.01	24.48	\$19.16	\$19.16
1990	—	1.82	1.82	6.38	\$7.36	6.48	11.55	9.86	2.45	\$6.21	\$7.28	1.88	\$1.82	\$6.18	1.88	28.87	\$19.88	\$19.88
1991	—	1.81	1.81	6.12	\$6.79	5.28	12.82	9.56	1.88	\$5.37	\$7.29	0.84	1.82	\$4.58	1.22	26.78	\$19.38	\$19.38
1992	—	1.73	1.73	6.23	\$6.31	4.88	11.54	9.50	1.88	\$5.00	\$7.15	0.86	1.58	\$4.48	1.24	29.25	\$19.86	\$19.86
1993	—	1.86	1.86	6.56	\$6.15	4.50	11.37	\$8.18	1.81	\$5.52	\$7.08	0.57	1.51	\$4.09	0.95	31.81	\$19.71	\$19.71
1994	—	1.53	1.53	6.57	6.59	4.29	11.15	9.29	2.14	6.30	7.08	0.52	1.51	4.55	1.02	33.15	11.08	11.08
Expenditures in Million Dollars																		
1970	—	18.1	18.1	11.2	61.9	4.2	6.5	134.6	14.7	\$13.4	236.2	—	—	348.4	-15.6	83.6	314.9	314.9
1971	—	11.4	11.4	12.8	68.7	4.6	7.1	130.8	19.8	\$14.4	254.8	—	—	276.8	-17.2	81.4	308.2	308.2
1972	—	14.9	14.9	14.3	71.7	4.6	9.0	142.6	18.2	\$14.8	290.8	—	—	280.1	-21.9	104.8	373.8	373.8
1973	—	14.4	14.4	14.7	62.9	4.9	12.4	158.8	21.8	\$14.5	288.2	—	—	322.4	-22.4	121.3	421.3	421.3
1974	—	20.8	20.8	18.5	119.3	3.4	16.1	211.6	48.5	\$19.9	422.9	—	—	480.3	-43.8	169.2	594.6	594.6
1975	—	31.9	31.9	17.2	186.9	10.2	18.7	228.4	58.2	\$18.4	441.9	—	—	481.8	-68.2	287.7	648.5	648.5
1976	—	25.6	25.6	29.4	153.8	10.8	23.3	247.9	65.2	\$18.6	524.9	—	—	570.8	-58.1	226.8	738.3	738.3
1977	—	35.1	35.1	28.4	162.7	13.0	30.4	273.1	75.5	\$18.6	570.3	—	—	630.9	-70.1	245.1	814.9	814.9
1978	—	30.3	30.3	27.2	174.9	13.6	33.5	289.6	68.8	\$17.1	607.4	—	—	684.8	-72.5	286.2	867.6	867.6
1979	—	44.4	44.4	31.5	171.8	16.6	37.2	372.8	97.8	\$18.7	715.3	—	—	791.4	-177.3	334.9	989.9	989.9
1980	—	46.5	46.5	41.8	236.1	27.3	31.3	488.1	136.6	\$18.8	871.1	—	—	1,050.1	-150.8	345.5	1,382.8	1,382.8
1981	—	41.9	41.9	53.6	254.8	24.6	38.5	548.3	145.9	\$17.2	1,088.2	—	—	1,188.7	-159.1	327.3	1,520.8	1,520.8
1982	—	62.7	62.7	63.7	242.8	25.7	41.3	585.6	101.4	\$13.8	988.9	—	—	1,075.3	-116.8	487.6	1,459.9	1,459.9
1983	—	67.4	67.4	67.4	\$201.8	\$26.5	45.1	470.6	103.2	\$10.6	\$885.0	—	—	\$1,010.8	-124.2	538.1	\$1,078.8	\$1,078.8
1984	—	69.2	69.2	68.9	\$219.8	\$27.8	42.1	478.7	188.8	\$16.2	\$885.0	—	—	\$1,088.7	-157.5	573.0	\$1,514.2	\$1,514.2
1985	—	88.6	88.6	88.7	\$228.8	18.4	56.3	602.8	82.4	\$11.4	\$888.1	—	—	\$1,238.3	-151.8	588.4	\$1,388.2	\$1,388.2
1986	—	80.4	80.4	88.8	\$185.4	15.6	88.5	427.7	90.1	\$17.2	\$939.4	—	—	\$952.4	-184.3	584.9	\$1,463.1	\$1,463.1
1987	—	68.9	68.9	70.7	\$244.1	14.6	80.3	471.6	92.4	\$18.9	\$952.8	—	—	\$1,004.4	-118.2	584.3	\$1,080.7	\$1,080.7
1988	—	58.7	58.7	73.2	\$228.2	16.6	80.3	588.7	77.8	\$12.7	\$948.1	—	—	\$1,084.0	-115.5	731.9	\$1,087.5	\$1,087.5
1989	—	55.3	55.3	88.0	\$278.5	20.0	80.8	554.9	90.5	\$18.2	\$1,094.2	—	—	1,285.5	-127.3	758.1	1,087.3	1,087.3
1990	—	67.2	67.2	82.2	\$271.2	22.7	88.9	534.2	80.3	\$18.4	\$1,123.7	45.0	\$18.7	\$1,336.8	-188.8	817.1	\$1,087.8	\$1,087.8
1991	—	62.7	62.7	86.9	\$248.0	13.9	78.5	688.9	48.8	\$18.4	\$1,034.8	61.4	21.1	\$1,285.7	-140.3	808.0	\$1,017.3	\$1,017.3
1992	—	60.1	60.1	105.4	\$243.0	10.2	73.7	684.4	45.0	\$18.1	\$1,017.2	80.0	21.4	\$1,284.1	-140.3	888.0	\$1,014.2	\$1,014.2
1993	—	62.1	62.1	108.6	\$240.8	9.9	86.7	\$881.3	49.2	\$18.7	\$1,026.5	56.5	22.3	\$1,276.2	-139.4	951.8	\$1,087.9	\$1,087.9
1994	—	51.4	51.4	129.9	240.7	8.2	80.0	825.5	58.4	86.3	1,057.1	34.2	21.7	1,085.2	-118.2	1,015.0	2,179.9	2,179.9

^a Liquid petroleum gases.^b "Other" includes asphalt and coal oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this line series between 1989 and 1990 due to the expanded coverage of non-electric utility use of facilities beginning in 1990.^e Refined oils.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 186. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1984, New Hampshire

Year	Primary Energy										Electricity	Total Energy ^c
	Coal	Natural Gas	Petroleum				Biomass ^b	Total ^c				
			Distillate Fuel	Kerosene	LPG ^a	Total						
									Prices in Nominal Dollars per Million Btu			
1970	1.29	1.87	1.61	1.88	2.06	1.58	—	1.69	6.25	2.27		
1971	1.27	2.03	1.59	1.69	2.57	1.63	—	1.67	6.09	2.36		
1972	1.59	2.12	1.49	1.69	2.66	1.65	—	1.69	6.24	2.46		
1973	1.53	2.16	1.79	1.94	4.26	1.82	—	1.94	6.74	2.62		
1974	2.19	2.96	2.22	3.01	4.72	2.84	—	2.80	11.74	4.04		
1975	2.82	2.82	2.87	3.18	4.70	3.07	—	2.89	14.25	4.85		
1976	2.64	2.66	3.06	3.35	4.44	3.15	—	3.11	14.29	4.64		
1977	3.12	3.62	3.62	3.75	6.66	3.58	—	3.55	15.08	5.24		
1978	3.06	3.65	3.63	4.01	8.67	3.78	—	3.77	17.08	5.71		
1979	3.04	3.94	3.53	4.15	7.06	3.42	—	3.24	17.87	5.87		
1980	3.80	4.87	3.24	4.15	9.22	7.46	—	7.03	20.83	10.17		
1981	4.87	5.56	3.92	4.82	9.96	8.10	—	8.61	26.80	12.73		
1982	4.43	6.72	3.46	10.79	10.66	8.82	—	8.43	28.24	12.69		
1983	4.76	7.32	3.51	9.38	11.11	8.04	—	7.69	27.80	12.78		
1984	4.36	6.63	3.62	8.89	11.62	8.34	—	8.05	27.34	13.09		
1985	4.59	6.86	3.99	8.81	11.34	8.07	—	7.89	28.16	13.27		
1986	4.93	6.66	5.47	8.69	10.36	6.30	—	6.40	29.06	11.22		
1987	4.04	6.32	5.32	8.59	10.37	6.33	—	6.32	28.66	11.16		
1988	4.06	6.13	6.13	8.79	10.37	6.54	—	6.46	27.75	11.51		
1989	4.09	6.72	6.44	7.66	10.37	7.23	—	7.14	27.87	11.85		
1990	4.23	7.31	7.41	8.88	11.50	8.38	2.83	8.23	30.36	12.96		
1991	4.16	7.09	6.80	7.89	13.12	7.75	2.83	7.75	30.36	12.96		
1992	3.86	7.20	6.17	7.95	13.13	7.24	2.83	7.24	30.06	12.81		
1993	3.84	7.58	5.97	7.92	12.00	7.14	2.83	7.14	30.06	12.81		
1994	3.81	7.86	5.71	6.81	12.15	6.99	2.83	6.99	30.06	12.81		

Expenditures in Million National Dollars

Year	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG ^a	Total	Biomass ^b	Total ^c	Electricity	Total Energy ^c
1970	8.1	7.9	43.0	6.9	4.6	63.9	—	71.3	41.8	113.1
1971	0.2	8.0	43.6	6.5	5.0	70.3	—	76.6	46.0	126.6
1972	0.1	9.0	61.4	6.0	5.1	79.6	—	82.7	61.7	134.6
1973	0.1	9.2	69.1	6.0	8.5	83.6	—	82.9	61.6	134.6
1974	0.1	10.3	96.6	7.8	8.9	114.0	—	124.9	94.9	209.9
1975	4.8	11.0	98.6	7.3	12.1	114.8	—	124.9	104.5	229.4
1976	0.1	11.0	126.6	8.9	12.1	146.8	—	157.7	114.5	271.7
1977	0.2	14.0	132.0	8.4	15.7	158.0	—	170.1	120.7	290.9
1978	0.2	14.1	141.3	9.3	17.6	163.3	—	161.6	140.9	302.5
1979	0.1	13.4	151.3	4.6	16.2	184.1	—	189.5	151.1	340.6
1980	0.2	20.2	166.4	14.9	16.9	183.2	—	203.6	177.9	381.5
1981	0.5	25.9	180.6	12.8	21.3	240.1	—	240.1	228.9	469.0
1982	0.7	31.0	198.9	14.8	26.5	269.2	—	269.2	236.7	505.9
1983	0.8	32.2	152.2	11.5	28.0	224.5	—	224.5	213.8	438.3
1984	0.9	32.4	141.2	8.5	30.9	193.9	—	193.9	257.2	451.1
1985	0.8	33.4	130.4	43.7	34.3	212.8	—	212.8	254.4	467.2
1986	0.6	36.1	103.3	13.1	36.9	156.3	—	156.3	232.6	388.9
1987	0.6	36.4	128.7	16.0	40.6	181.3	—	181.3	236.9	418.2
1988	0.7	37.2	121.9	16.7	51.3	186.9	—	186.9	227.2	414.1
1989	0.5	43.1	181.6	20.4	61.6	246.6	—	246.6	227.2	473.8
1990	0.7	43.7	148.0	11.7	62.5	226.9	—	226.9	238.8	465.7
1991	1.4	40.0	137.2	12.0	66.2	207.5	6.7	214.2	348.0	562.2
1992	0.8	48.7	132.4	10.4	58.5	199.9	7.0	206.9	348.0	554.9
1993	0.6	48.7	132.7	14.2	64.0	210.9	7.2	218.1	421.0	639.1
1994	0.5	62.3	129.9	10.8	67.7	203.5	7.1	210.6	422.9	633.5

^a Liquid petroleum gases.
^b Commercial nuclear power and expenditures for wood and waste are included in the residential sector.
^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
^d There is a discrepancy in this series between 1985 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

Revised data.
 —No construction.
 Notes: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, expansion procedures, and adjustments are reported in Appendix A.

Table 187. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, New Hampshire

Year	Primary Energy									Electricity	Total Energy ^b
	Coal	Natural Gas	Petroleum					Total	Total		
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.95	1.42	1.11	0.74	1.37	2.92	0.34	1.14	1.23	8.80	3.12
1971	0.97	1.48	1.17	0.79	1.40	3.06	0.35	1.19	1.28	9.00	3.23
1972	1.11	1.62	1.18	0.79	1.43	3.01	0.40	1.19	1.33	9.27	3.42
1973	1.35	1.69	1.39	1.00	1.40	3.20	0.56	1.40	1.49	9.68	3.85
1974	1.85	1.87	2.32	2.38	2.38	4.37	1.81	2.40	2.22	12.81	5.33
1975	2.85	2.10	2.49	2.54	2.43	4.54	1.85	2.64	2.38	15.39	8.18
1976	1.85	2.60	2.64	2.52	3.67	4.78	1.70	2.78	2.71	18.08	6.42
1977	2.09	3.23	2.99	2.92	3.58	5.04	2.07	3.07	3.12	19.90	7.19
1978	1.80	3.24	3.14	3.13	4.68	5.23	1.80	3.35	3.31	18.93	7.95
1979	1.55	3.47	4.56	3.05	3.78	7.25	2.74	4.83	4.09	19.98	9.54
1980	1.69	4.06	6.44	6.37	4.78	10.11	3.78	6.85	5.38	24.30	10.46
1981	1.90	5.00	8.13	8.96	6.84	11.22	4.65	8.77	6.05	28.47	11.89
1982	2.04	5.95	7.76	7.00	7.03	10.52	4.09	8.09	6.01	29.50	11.07
1983	1.98	6.69	R 6.86	7.86	7.46	9.53	4.20	R 6.09	R 6.25	27.05	R 12.88
1984	2.40	6.46	R 6.87	7.32	8.74	9.04	4.60	R 5.97	R 5.13	28.58	R 12.96
1985	2.40	6.13	R 6.83	R 6.82	11.75	8.26	4.20	R 7.20	R 6.64	25.88	R 13.12
1986	2.13	6.36	R 4.17	R 4.09	11.70	7.32	2.23	R 4.27	R 4.90	24.03	R 10.35
1987	2.39	5.85	R 4.50	R 6.01	11.14	7.80	2.88	R 4.84	R 5.04	25.01	R 10.34
1988	2.56	5.62	R 4.47	R 4.87	10.86	7.82	2.22	R 4.66	R 4.85	25.78	R 10.96
1989	2.80	6.11	R 4.99	R 5.50	10.22	8.80	2.83	R 5.07	R 5.38	26.23	R 11.48
1989	2.62	6.64	R 5.83	R 6.99	18.89	8.64	3.06	R 6.42	R 6.78	28.38	R 12.28
1991	2.62	6.31	R 5.57	R 5.87	11.94	8.55	2.28	R 4.92	R 5.29	28.92	R 12.20
1992	2.62	6.43	R 5.13	R 6.47	9.98	9.90	2.11	R 5.02	R 5.53	31.01	R 13.60
1993	2.32	6.76	R 4.98	R 5.04	10.02	R 9.18	2.05	R 4.78	R 5.52	32.70	R 14.15
1994	2.23	7.06	4.80	5.32	9.83	9.29	2.35	4.72	5.58	32.18	15.93
Expenditures in Million Nominal Dollars											
1970	0.1	3.2	4.1	0.1	0.4	0.7	0.2	5.5	8.6	21.8	28.8
1971	(s)	3.8	4.5	0.1	0.6	0.8	0.2	6.1	9.9	23.6	33.5
1972	0.1	4.2	4.7	0.1	0.6	0.8	0.2	6.4	10.7	26.6	37.3
1973	0.1	4.0	5.6	0.1	0.5	0.8	0.3	7.4	11.4	30.1	41.6
1974	0.1	4.8	8.5	0.2	0.9	1.1	0.7	11.5	18.1	38.6	54.7
1975	0.1	5.5	8.5	0.2	1.1	1.2	0.7	11.7	17.4	46.4	63.8
1976	0.1	6.4	11.3	0.2	1.8	1.9	0.9	15.4	22.2	50.7	72.9
1977	0.1	8.4	12.9	0.2	1.7	1.4	0.9	16.3	24.7	58.3	81.1
1978	0.1	9.6	12.7	0.2	2.8	1.8	0.6	17.8	27.6	67.0	94.7
1979	(s)	12.2	11.9	0.1	1.4	2.2	0.3	15.8	28.0	73.2	101.2
1980	(s)	17.0	38.2	0.3	1.8	6.2	0.8	56.3	73.3	92.8	166.4
1981	0.1	22.3	29.2	0.2	2.5	5.4	13.7	48.9	69.4	114.6	184.3
1982	0.2	26.8	28.7	0.3	2.7	4.2	16.1	50.0	77.0	111.0	186.0
1983	0.3	29.9	R 16.2	0.2	3.4	3.3	8.2	R 31.3	R 61.4	123.9	R 185.3
1984	0.3	27.2	R 16.6	0.2	3.2	3.2	12.2	R 30.4	R 62.8	136.1	R 199.0
1985	0.2	31.2	R 20.9	1.6	6.4	8.1	2.3	R 37.4	R 58.7	137.9	R 206.7
1986	0.3	29.0	R 21.6	R 0.5	7.8	5.8	7.3	R 42.9	R 72.2	140.9	R 213.1
1987	0.3	26.7	R 43.9	1.0	8.8	5.1	8.1	64.0	91.0	183.0	R 253.9
1988	0.3	28.5	R 30.0	R 1.2	8.5	6.6	6.6	R 53.4	R 82.2	199.0	R 282.2
1989	0.2	33.5	R 34.5	R 1.7	10.7	5.8	7.9	60.6	94.9	190.0	R 284.3
1990	0.3	34.1	R 40.8	R 1.0	10.0	3.7	12.6	R 67.6	R 102.3	205.8	R 307.3
1991	0.6	31.9	R 37.0	0.7	9.4	2.8	9.6	R 59.4	R 91.9	209.0	R 300.9
1992	0.5	39.6	R 33.6	0.7	8.2	2.4	4.3	48.4	88.4	232.0	R 321.4
1993	0.2	41.8	R 32.6	1.0	9.4	0.5	4.9	R 48.4	R 90.8	250.0	R 340.6
1994	0.2	46.0	36.6	1.2	8.7	0.6	6.7	54.6	100.8	387.0	467.8

^a Liquefied petroleum gases^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R-Revised data

(s)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sums of components due to independent rounding.

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 188. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, New Hampshire

Year	Primary Energy														Electricity	Total Energy ^c	
	Coal			Natural Gas	Petroleum									Biomass ^e			Total ^e
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	0.95	0.95	0.94	0.70	4.00	0.74	1.87	5.80	2.92	0.51	1.78	0.87	—	0.67	4.19	1.20
1971	—	0.87	0.87	0.93	0.69	0.73	0.79	1.40	5.37	3.06	0.62	1.84	0.76	—	0.79	4.00	1.24
1972	—	1.11	1.11	1.00	0.88	0.73	0.79	1.43	5.59	3.01	0.54	3.37	0.72	—	0.73	4.25	1.23
1973	—	1.35	1.35	1.10	0.86	0.92	1.00	1.40	5.33	3.20	0.60	3.82	0.84	—	0.85	4.71	1.47
1974	—	1.25	1.25	1.19	1.84	2.19	2.39	2.35	7.22	4.37	1.70	3.59	1.89	—	1.85	7.82	2.93
1975	—	2.85	2.85	1.44	2.68	2.29	2.54	2.43	7.46	4.94	1.85	4.01	2.88	—	2.85	9.42	3.85
1976	—	1.95	1.95	2.94	2.07	2.24	2.52	3.87	7.05	4.76	1.78	3.77	2.19	—	2.18	9.27	3.51
1977	—	2.08	2.08	2.69	2.16	2.71	2.92	3.58	6.97	5.04	2.15	4.01	2.51	—	2.50	9.87	3.86
1978	—	1.80	1.80	2.78	2.36	2.90	3.19	4.68	7.40	5.23	2.07	4.37	2.72	—	2.72	11.41	4.82
1979	—	1.55	1.55	3.14	2.74	2.89	3.05	3.70	10.21	7.25	2.78	5.73	3.42	—	3.39	12.55	6.00
1980	—	1.89	1.89	3.88	4.09	5.72	6.27	4.78	14.36	10.11	3.98	6.84	5.07	—	4.84	15.82	8.86
1981	—	1.90	1.90	4.63	5.41	6.33	6.98	6.84	18.09	11.22	5.10	11.42	6.54	—	6.33	21.73	12.40
1982	—	2.04	2.04	5.46	4.03	6.14	7.00	7.00	17.25	10.52	4.71	11.84	5.98	—	5.64	20.03	10.65
1983	—	1.98	1.98	5.87	4.25	^R 6.70	7.68	7.46	16.98	9.53	4.57	11.12	^R 6.77	—	^R 5.41	20.59	^R 10.85
1984	—	2.40	2.40	5.09	4.82	^R 6.28	7.32	6.74	17.65	9.04	4.60	10.75	6.31	—	^R 5.10	20.69	9.70
1985	—	2.40	2.40	5.41	5.28	^R 6.64	^R 6.68	11.78	17.81	9.38	4.29	10.67	4.00	—	5.87	19.32	^R 10.40
1986	—	2.19	2.19	5.84	4.89	^R 5.57	^R 4.08	11.70	15.69	7.32	2.28	^R 10.51	^R 3.99	—	^R 4.92	16.22	^R 9.95
1987	—	2.39	2.39	4.22	3.54	^R 4.37	^R 5.01	11.14	12.79	7.80	2.86	^R 10.59	^R 4.53	—	^R 4.50	16.71	^R 9.12
1988	—	2.58	2.58	3.93	3.94	^R 4.25	^R 4.87	10.89	14.61	7.82	2.22	^R 8.98	^R 4.49	—	^R 4.38	19.86	^R 10.82
1989	—	2.60	2.60	4.12	3.17	^R 4.79	^R 5.50	10.22	14.46	6.80	2.63	^R 13.29	^R 5.05	—	^R 4.88	19.80	^R 10.74
1990	—	2.82	2.82	4.39	3.34	^R 6.82	^R 6.99	10.89	14.69	9.85	3.84	^R 17.33	^R 4.99	^R 7.73	^R 2.49	21.88	^R 10.40
1991	—	2.82	2.82	4.29	3.06	^R 5.12	^R 5.67	11.94	16.79	9.95	2.29	^R 6.19	^R 4.34	1.26	^R 2.99	21.81	^R 9.38
1992	—	2.82	2.82	4.29	2.78	^R 4.77	^R 5.47	9.96	18.43	9.60	0.11	^R 6.82	^R 3.64	1.26	^R 2.85	22.92	^R 9.21
1993	—	2.32	2.32	4.83	3.38	^R 4.39	^R 5.04	10.02	18.94	^R 9.16	2.05	^R 6.89	^R 3.77	1.23	^R 2.95	26.47	^R 9.44
1994	—	—	—	4.38	3.64	4.64	5.32	8.35	19.18	9.29	2.35	6.21	3.86	1.23	3.01	27.27	7.56
Expenditures in Million Nominal Dollars																	
1970	—	0.2	0.2	0.7	2.5	2.0	0.2	1.4	0.5	0.6	0.1	1.6	18.0	—	18.8	20.7	20.8
1971	—	0.2	0.2	0.9	3.8	2.4	0.2	1.0	0.6	0.8	13.1	1.0	23.2	—	24.2	21.8	45.0
1972	—	0.1	0.1	1.0	4.1	2.5	0.2	2.3	0.7	0.6	12.2	1.1	23.7	—	24.8	24.5	49.4
1973	—	0.2	0.2	1.6	4.7	3.0	0.1	2.4	0.6	0.5	13.8	1.5	28.7	—	28.3	29.7	58.0
1974	—	0.4	0.4	1.6	8.2	5.8	0.3	4.3	0.8	0.9	25.0	1.7	45.0	—	46.9	44.7	91.6
1975	—	0.4	0.4	1.6	8.8	8.7	0.8	5.5	1.6	0.7	26.1	1.7	47.0	—	49.9	58.9	105.9
1976	—	0.1	0.1	2.6	6.7	6.9	0.7	9.3	1.0	0.7	31.0	4.2	60.5	—	63.2	61.9	125.0
1977	—	1.6	1.6	3.1	8.2	7.5	0.5	12.9	1.0	0.7	36.0	5.0	71.9	—	76.5	66.1	144.5
1978	—	0.1	0.1	3.3	7.1	7.6	0.8	12.7	1.2	0.8	25.9	5.9	61.5	—	64.9	87.3	182.1
1979	—	0.1	0.1	3.9	7.7	6.9	0.2	9.2	1.6	0.8	19.0	8.2	44.5	—	46.4	102.9	148.0
1980	—	0.4	0.4	3.9	6.7	16.0	0.3	8.5	2.0	1.4	21.7	14.8	74.7	—	79.9	125.5	288.4
1981	—	0.1	0.1	5.4	12.5	21.0	0.2	12.5	2.4	1.0	13.4	11.8	74.7	—	80.3	179.5	299.3
1982	—	2.9	2.9	5.9	9.8	17.5	0.2	15.4	2.1	1.1	17.4	9.2	72.8	—	81.5	180.2	241.7
1983	—	2.8	2.8	8.2	11.0	^R 10.5	0.1	12.9	2.2	1.9	25.1	8.7	^R 71.7	—	^R 79.8	189.5	^R 249.3
1984	—	3.1	3.1	9.0	29.7	18.3	0.1	7.4	2.4	1.5	34.5	8.1	63.8	—	^R 108.0	179.6	295.7
1985	—	2.4	2.4	5.9	28.5	^R 13.5	0.2	23.8	2.9	3.8	27.0	8.1	^R 107.1	—	^R 114.4	194.1	^R 318.5
1986	—	0.2	0.2	3.8	17.8	^R 7.1	0.2	19.1	2.0	0.8	27.7	^R 7.9	83.4	—	87.4	191.4	279.8
1987	—	0.2	0.2	7.5	19.3	^R 13.6	^R 8.8	24.2	1.8	2.8	25.9	^R 7.2	^R 94.4	—	^R 102.1	204.4	^R 308.5
1988	—	0.1	0.1	7.3	9.5	^R 12.3	0.3	18.9	2.0	2.8	12.7	^R 6.4	^R 64.9	—	^R 72.3	224.0	^R 296.3
1989	—	1.0	1.0	9.4	15.6	^R 15.1	0.4	21.0	2.0	4.1	10.1	^R 9.3	77.7	—	88.1	231.0	319.1
1990	—	1.8	1.8	14.3	26.8	^R 15.3	0.3	15.7	2.1	2.8	10.2	^R 8.3	^R 81.2	^R 32.4	^R 189.7	288.8	^R 365.8
1991	—	3.4	3.4	14.9	13.3	13.3	1.0	8.5	2.2	2.5	6.5	^R 3.4	^R 50.8	14.4	^R 53.5	243.0	^R 326.5
1992	—	2.9	2.9	17.2	14.6	^R 13.9	0.8	8.8	2.8	2.5	13.7	^R 3.8	^R 60.4	14.4	^R 64.9	272.0	^R 368.9
1993	—	4.6	4.6	17.8	7.0	10.8	0.3	14.8	2.5	^R 4.4	19.5	^R 3.3	^R 61.4	15.0	^R 66.8	280.0	^R 378.8
1994	—	—	—	13.9	9.2	8.9	0.4	11.9	2.7	4.8	19.5	3.6	62.1	14.5	96.5	203.0	299.6

^a Liquidated petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biotuels beginning in 1990.

Refined data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of

Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 189. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, New Hampshire

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.95	--	2.17	1.32	0.75	1.37	5.86	2.92	0.91	2.89	2.89	--	2.89
1971	0.67	--	2.21	1.49	0.79	1.40	5.27	3.08	0.34	2.76	2.76	--	2.76
1972	1.11	--	2.19	1.50	0.78	1.43	6.55	3.01	0.40	2.74	2.74	--	2.74
1973	1.35	--	2.36	1.80	0.99	1.40	6.33	3.50	0.56	2.94	2.94	--	2.94
1974	1.85	--	3.23	2.73	1.61	2.35	7.22	4.57	1.80	4.04	4.04	--	4.04
1975	2.65	--	3.45	2.90	2.89	2.63	7.46	4.54	1.99	4.27	4.27	--	4.27
1976	--	--	3.59	3.10	2.29	3.67	7.05	4.76	1.72	4.49	4.49	--	4.49
1977	2.06	--	3.97	3.62	2.64	3.58	6.97	5.04	--	4.79	4.79	--	4.79
1978	--	--	4.29	3.79	2.97	4.68	7.60	5.23	--	5.01	5.01	--	5.01
1979	--	--	5.73	5.38	3.98	3.76	10.21	7.25	2.57	6.56	6.56	--	6.56
1980	--	--	8.82	7.38	6.51	4.78	14.36	14.11	3.18	8.82	8.82	--	8.82
1981	--	--	10.84	9.01	7.80	6.64	18.00	11.22	4.02	10.86	10.86	--	10.86
1982	--	--	10.92	8.72	7.51	7.00	17.25	10.52	3.72	10.21	10.21	--	10.21
1983	--	--	10.44	9.03	^R 7.06	7.46	16.98	9.53	--	^R 9.45	^R 9.45	--	^R 9.45
1984	--	--	10.27	8.96	^R 6.21	6.74	17.63	9.04	--	^R 8.86	^R 8.86	--	^R 8.86
1985	--	--	8.89	8.85	6.53	11.78	12.61	9.26	--	8.16	8.16	--	8.16
1986	--	--	8.41	7.11	4.93	11.70	15.69	7.32	1.97	7.20	7.20	--	7.20
1987	--	--	7.55	7.48	4.18	11.14	12.70	7.60	2.89	7.38	7.38	--	7.38
1988	--	--	7.41	7.39	4.22	10.86	14.61	7.82	1.90	7.55	7.55	--	7.55
1989	--	--	8.29	7.76	4.83	10.22	14.48	6.80	2.36	8.32	8.32	--	8.32
1990	--	--	8.32	9.17	6.49	10.89	14.69	6.66	2.32	8.42	8.42	--	8.42
1991	--	--	8.71	8.77	5.36	11.94	16.79	9.66	1.84	9.24	9.24	--	9.24
1992	--	--	8.54	8.41	4.96	8.96	19.43	9.50	1.91	9.22	9.22	--	9.22
1993	--	--	8.24	8.31	4.56	10.02	18.94	^R 9.18	1.84	^R 8.98	^R 8.98	--	^R 8.98
1994	--	8.13	7.95	8.42	4.29	8.08	19.16	9.28	1.94	9.11	9.11	--	9.11
Expenditures in Million Nominal Dollars													
1970	(a)	--	6.4	2.4	4.2	(a)	1.7	123.1	(a)	131.9	131.9	--	131.9
1971	(a)	--	6.6	2.4	4.8	(a)	1.8	136.7	0.1	146.2	146.2	--	146.2
1972	(a)	--	6.6	2.6	4.3	(a)	2.1	141.2	0.1	150.8	150.8	--	150.8
1973	(a)	--	6.5	4.6	4.7	(a)	1.9	165.5	0.1	167.3	167.3	--	167.3
1974	(a)	--	6.7	7.7	8.2	(a)	2.5	208.6	0.3	229.0	229.0	--	229.0
1975	(a)	--	6.8	7.1	10.2	(a)	2.2	221.4	0.1	241.5	241.5	--	241.5
1976	--	--	6.5	9.2	10.7	0.1	2.3	245.8	0.1	268.6	268.6	--	268.6
1977	(a)	--	6.7	11.2	12.9	0.1	2.6	271.0	--	298.5	298.5	--	298.5
1978	--	--	6.9	13.2	13.4	0.4	3.0	287.4	--	318.3	318.3	--	318.3
1979	--	--	12	21.3	16.5	0.5	4.2	370.0	14.5	426.2	426.2	--	426.2
1980	--	--	18	28.5	27.0	1.3	8.2	498.5	1.0	596.4	596.4	--	596.4
1981	--	--	16	37.0	24.4	0.2	6.3	539.9	1.2	609.7	609.7	--	609.7
1982	--	--	14	38.3	25.5	0.2	5.5	500.3	0.7	572.0	572.0	--	572.0
1983	--	--	14	42.0	^R 24.6	0.3	6.7	486.3	--	^R 540.1	^R 540.1	--	^R 540.1
1984	--	--	10	50.7	^R 27.8	0.6	8.3	472.0	--	^R 506.6	^R 506.6	--	^R 506.6
1985	--	--	12	54.1	18.4	1.8	5.8	493.6	--	574.2	574.2	--	574.2
1986	--	--	16	52.6	16.5	0.7	5.1	419.5	0.5	486.6	486.6	--	486.6
1987	--	--	11	59.3	14.6	0.8	4.7	463.9	3.8	548.1	548.1	--	548.1
1988	--	--	14	60.3	16.6	0.6	5.2	498.1	1.7	583.9	583.9	--	583.9
1989	--	--	14	65.2	20.0	0.6	5.2	545.0	0.3	638.9	638.9	--	638.9
1990	--	--	18	67.7	22.7	0.8	5.4	667.7	1.2	686.3	686.3	--	686.3
1991	--	--	11	59.6	13.9	0.4	5.6	603.5	2.3	666.4	666.4	--	666.4
1992	--	--	8	62.1	10.2	0.3	6.6	588.5	1.5	681.1	681.1	--	681.1
1993	--	--	10	63.6	9.9	0.6	6.8	^R 588.4	(a)	^R 678.9	^R 678.9	--	^R 678.9
1994	--	(a)	13	66.6	8.2	0.7	6.9	620.1	0.1	704.2	704.2	--	704.2

^a Liquefied petroleum gases

R=Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)=Value less than 0.05 million nominal dollars

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 190. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, New Hampshire

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.36	—	0.34	0.48	—	0.36	—	—	0.38
1971	0.44	0.45	0.35	0.40	—	0.35	—	—	0.40
1972	0.48	0.45	0.40	0.64	—	0.42	—	—	0.46
1973	0.50	0.51	0.58	1.28	—	0.62	—	—	0.54
1974	0.81	0.51	1.92	2.08	—	1.93	—	—	1.17
1975	1.21	1.81	1.84	2.28	—	1.84	—	—	1.43
1976	1.25	1.80	1.74	2.40	—	1.75	—	—	1.49
1977	1.30	2.01	2.06	2.51	—	2.06	—	—	1.61
1978	1.48	—	1.93	2.94	—	1.93	—	—	1.71
1979	1.53	2.95	2.69	4.45	—	2.69	—	—	2.09
1980	1.60	—	3.80	5.17	—	3.81	—	—	2.68
1981	1.72	3.44	4.66	7.59	—	4.67	—	—	3.23
1982	1.89	—	4.12	7.15	—	4.14	—	—	2.76
1983	1.94	3.87	4.18	6.11	—	4.20	—	—	2.79
1984	2.00	3.91	4.29	6.16	—	4.31	—	—	2.82
1985	2.01	—	3.82	5.80	—	3.84	—	—	2.46
1986	1.99	—	1.91	3.81	—	1.92	—	—	1.85
1987	1.92	2.93	2.58	4.04	—	2.59	—	—	2.20
1988	1.78	2.41	1.86	3.68	—	1.86	—	—	1.83
1989	1.73	3.08	2.26	4.25	—	2.28	—	—	2.01
1990	1.78	—	3.28	5.88	—	3.29	1.83	—	1.86
1991	1.74	—	1.78	4.83	—	1.79	0.84	—	1.22
1992	1.69	—	1.83	4.44	—	1.68	0.85	—	1.24
1993	1.61	2.17	1.79	4.05	—	1.83	0.57	—	0.96
1994	1.32	2.10	1.98	3.72	—	2.00	0.32	—	1.02
Expenditures in Million Nominal Dollars									
1970	9.7	—	5.5	8.4	—	5.9	—	—	15.6
1971	11.0	0.1	5.7	0.5	—	6.1	—	—	17.2
1972	14.6	0.1	5.6	0.8	—	6.4	—	—	21.0
1973	14.1	0.1	7.4	0.8	—	8.2	—	—	22.4
1974	20.2	0.2	22.3	0.9	—	23.4	—	—	43.8
1975	31.3	0.2	26.4	8.3	—	28.7	—	—	58.2
1976	25.9	(b)	33.4	0.3	—	33.7	—	—	59.1
1977	33.3	(a)	36.6	0.2	—	36.9	—	—	70.1
1978	29.8	—	42.4	0.1	—	42.5	—	—	72.3
1979	44.2	0.1	72.9	0.2	—	73.0	—	—	117.3
1980	46.3	—	104.0	0.7	—	104.6	—	—	150.9
1981	41.1	0.5	116.7	0.8	—	117.5	—	—	159.1
1982	45.9	—	67.2	0.6	—	68.0	—	—	116.8
1983	53.5	0.1	89.9	0.7	—	70.7	—	—	124.2
1984	65.0	0.3	91.3	1.1	—	92.3	—	—	157.5
1985	77.4	—	53.0	1.1	—	54.1	—	—	121.8
1986	49.1	—	54.5	0.7	—	55.2	—	—	104.3
1987	55.9	(a)	57.6	0.7	—	58.3	—	—	116.2
1988	57.7	0.1	66.3	1.3	—	57.7	—	—	115.5
1989	53.5	0.1	72.2	1.5	—	73.7	—	—	127.3
1990	64.3	—	56.3	1.2	—	57.5	45.0	—	156.8
1991	57.4	—	29.5	1.0	—	30.5	61.4	—	140.3
1992	55.9	—	26.3	0.8	—	27.1	80.0	—	163.0
1993	56.7	0.3	25.8	1.1	—	26.9	55.5	—	139.4
1994	50.7	2.7	30.0	0.6	—	30.6	34.2	—	118.2

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

—No consumption.

(a)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 191. Energy Price and Expenditure Estimates by Source, 1970-1994, New Jersey

Year	Primary Energy															Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biomass	Total ^c				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total							
Prices in Nominal Dollars per Million Btu																		
1970	0.58	0.44	0.46	1.26	1.28	8.72	3.63	2.98	0.45	R1.31	1.42	0.20	—	3.31	0.42	6.24	1.96	
1971	—	0.56	0.58	1.30	1.26	9.75	1.82	3.04	0.50	R1.38	1.57	0.15	—	1.45	0.59	7.21	2.16	
1972	—	0.66	0.68	1.46	1.37	0.89	1.61	2.80	0.71	R1.41	1.65	0.15	—	1.49	0.66	7.65	2.21	
1973	—	0.68	0.68	1.52	1.50	0.99	1.83	3.08	0.84	R1.46	1.72	0.15	—	1.82	0.80	8.28	2.44	
1974	—	1.34	1.34	1.79	2.55	1.82	3.39	4.55	2.08	R2.45	2.97	0.20	—	2.66	1.74	12.18	3.70	
1975	—	1.58	1.58	2.28	2.73	2.03	3.59	4.79	2.88	R2.86	3.27	0.18	—	2.95	1.71	13.81	4.28	
1976	—	1.47	1.47	2.69	2.94	2.23	3.75	4.95	2.00	R3.09	3.32	0.17	—	3.05	1.60	14.24	4.35	
1977	—	1.46	1.46	3.02	3.22	2.09	3.61	5.23	2.29	R3.25	3.59	0.28	—	3.26	1.71	15.78	4.88	
1978	—	1.57	1.57	3.35	3.41	2.36	4.33	5.21	2.17	R3.43	3.67	0.34	—	3.38	1.82	16.18	5.09	
1979	—	1.68	1.68	3.71	4.90	3.57	4.43	7.16	3.31	R4.51	5.05	0.32	—	4.52	2.23	17.47	6.30	
1980	—	1.81	1.81	4.18	6.75	6.25	6.72	9.84	4.53	R7.07	7.17	0.34	—	8.04	2.67	21.28	8.34	
1981	—	2.08	2.08	5.01	8.24	7.50	8.75	10.99	5.14	R8.89	8.64	0.33	—	8.90	2.62	24.58	9.66	
1982	—	2.15	2.15	6.87	7.90	7.03	7.50	10.08	4.92	R6.04	7.50	0.57	—	8.66	2.38	27.09	9.85	
1983	—	1.97	1.97	6.83	R7.98	R6.36	8.37	9.01	4.42	R7.73	R7.60	0.70	—	R6.57	2.98	26.85	R9.43	
1984	—	1.95	1.95	6.02	R7.97	R8.13	7.51	8.57	4.35	R8.06	R7.99	0.79	—	R6.58	3.15	26.67	R9.33	
1985	—	1.92	1.92	6.18	R7.86	6.76	11.86	8.85	4.35	R8.21	R7.97	0.79	—	8.50	1.90	26.18	R9.81	
1986	—	1.80	1.80	5.88	R8.20	3.84	11.80	6.89	2.34	R5.52	R5.48	0.73	—	R4.98	1.47	27.68	R8.12	
1987	—	1.78	1.78	5.04	R6.08	4.01	11.03	7.25	2.99	R5.63	6.75	0.81	—	4.82	1.49	25.16	7.92	
1988	—	1.71	1.71	4.87	R5.84	3.79	10.64	7.58	2.40	R5.21	R5.71	0.88	—	R4.75	1.30	24.67	R8.02	
1989	—	1.75	1.75	5.11	R6.30	4.34	8.41	9.48	2.83	R5.71	R6.27	0.65	—	R5.13	1.45	25.05	R8.52	
1990	—	1.79	1.79	8.08	R7.77	5.60	10.98	8.83	3.25	R6.41	R7.21	0.81	R2.32	R5.89	1.20	28.43	R9.14	
1991	—	1.77	1.77	4.91	R7.99	4.79	10.28	6.81	2.83	R5.57	R6.88	0.61	2.33	R5.38	1.12	27.75	R9.14	
1992	—	1.72	1.72	5.02	R6.79	4.44	10.90	9.04	2.68	R6.47	R6.75	0.56	2.33	R5.35	1.04	27.91	R8.77	
1993	—	1.75	1.75	5.07	R6.79	4.16	R11.28	R9.83	2.51	R5.52	R6.38	0.58	2.36	R5.67	1.01	29.30	R8.81	
1994	—	1.61	1.61	5.18	6.93	3.87	9.94	6.82	2.78	5.84	6.49	0.62	2.26	5.29	1.11	26.51	8.85	
Expenditures in Million Nominal Dollars																		
1970	6.2	80.4	85.6	413.8	488.7	28.9	40.8	1,948.0	215.4	R208.8	2,001.4	7.8	—	2,478.5	-162.1	798.5	3,096.0	
1971	—	51.8	51.6	441.1	506.5	26.3	40.6	1,092.0	306.9	R213.8	2,187.9	6.4	—	2,687.1	-243.9	989.2	3,412.4	
1972	—	21.1	21.1	479.4	557.6	42.4	45.6	1,129.8	330.4	R235.8	2,353.8	7.6	—	2,852.7	-264.7	1,088.6	3,673.6	
1973	—	45.0	45.0	453.7	686.4	45.3	55.4	1,227.3	384.0	R264.4	2,665.2	5.8	—	3,169.6	-343.7	1,262.9	4,086.7	
1974	—	110.9	110.9	487.2	1,015.4	54.4	56.8	1,603.8	754.6	R426.8	4,181.9	8.0	—	4,768.0	-578.2	1,592.8	5,892.4	
1975	—	95.8	95.8	696.5	847.8	71.4	55.8	1,851.3	876.0	R447.8	4,088.2	6.1	—	4,748.7	-451.6	1,886.1	5,281.3	
1976	—	103.6	103.6	869.8	1,012.6	84.8	101.2	2,068.1	880.5	R426.2	4,353.8	7.3	—	5,334.4	-453.0	2,155.6	7,032.3	
1977	—	103.4	103.4	743.1	1,113.3	122.5	102.9	2,129.6	778.9	R540.1	4,788.4	22.0	—	5,864.0	-572.9	2,452.7	7,544.8	
1978	—	95.6	95.6	764.2	1,127.6	126.1	114.1	2,205.8	729.2	R516.7	4,919.5	30.4	—	5,828.8	-538.1	2,605.7	7,877.4	
1979	—	99.6	99.6	869.4	1,417.1	194.9	107.9	2,843.6	1,176.3	R847.2	6,878.8	23.1	—	7,870.9	-652.6	2,851.8	9,870.1	
1980	—	134.3	134.3	1,434.3	2,872.7	308.7	134.3	3,797.7	1,418.1	R1,212.4	8,845.8	27.8	—	10,831.7	-881.3	3,385.5	13,188.7	
1981	—	157.5	157.5	2,004.7	2,419.5	736.6	149.6	4,179.2	1,198.6	R1,520.9	10,173.1	42.5	—	12,377.8	-928.2	4,134.6	15,504.2	
1982	—	168.3	168.3	2,253.8	2,101.3	1,357.8	173.8	3,875.2	978.5	R1,134.3	9,821.8	69.2	—	12,132.9	-825.6	4,480.3	16,785.7	
1983	—	179.9	179.9	2,452.3	R1,748.9	R1,935.0	185.5	3,673.8	751.3	R1,116.4	8,811.0	48.6	—	R11,491.9	-983.8	4,639.2	R15,247.3	
1984	—	163.9	163.9	2,539.0	R1,987.8	R1,469.4	229.8	3,517.4	887.5	R1,131.1	8,102.5	48.2	—	R11,853.6	-922.2	4,789.1	R15,719.6	
1985	—	186.1	186.1	2,571.8	R1,648.0	1,490.6	300.8	3,546.4	644.1	R1,852.8	8,821.3	135.8	—	R11,527.6	-730.2	5,148.3	R15,945.7	
1986	—	140.2	140.2	2,097.3	R1,621.2	852.8	285.5	2,921.4	441.1	R832.7	6,834.8	117.2	—	8,289.5	-479.1	5,228.8	14,039.2	
1987	—	158.9	158.9	2,150.0	R1,548.5	984.5	308.4	3,090.9	487.5	R856.7	7,243.4	197.0	—	R9,749.3	-555.2	5,017.5	R14,111.6	
1988	—	138.6	138.6	2,087.1	R1,694.5	876.3	279.5	3,230.9	336.0	R772.7	7,002.6	178.7	—	R9,494.0	-574.2	5,265.5	R14,166.4	
1989	—	164.2	164.2	2,360.1	R1,674.7	1,084.9	208.7	3,825.8	382.2	R833.7	7,619.9	162.2	—	R10,509.5	-454.6	5,583.2	R15,436.1	
1990	—	144.4	144.4	2,184.4	R1,678.2	1,470.6	181.3	3,854.1	332.1	R844.7	8,492.1	188.8	R28.6	R10,705.5	-478.0	5,888.7	R16,516.2	
1991	—	109.3	109.3	2,256.6	R1,410.7	1,183.7	218.9	3,728.0	279.4	R816.2	7,536.0	182.9	31.3	R10,235.4	-454.0	6,086.4	R15,869.8	
1992	—	108.0	108.0	2,757.9	R1,329.9	1,180.8	258.1	3,841.0	295.2	R881.3	7,503.3	129.6	31.4	R10,630.2	-354.9	6,974.9	R16,150.2	
1993	—	109.6	109.6	R2,842.2	R1,349.3	1,131.5	R148.4	R3,269.5	R192.6	R907.2	8,696.4	183.4	33.0	R10,134.7	-378.1	6,523.8	R16,281.9	
1994	—	94.8	94.8	3,095.0	1,483.0	1,080.2	134.0	3,779.5	229.5	890.1	7,575.4	145.5	33.2	10,943.9	-390.1	6,638.0	17,183.8	

^a Liquidated petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used as electric fuel), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

R-Revised data

—No consumption, including cases where adjustments were made See explanation of adjustments in Section 7 of Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 192. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, New Jersey

Year	Primary Energy								Electricity	Total Energy ^c
	Coal	Natural Gas	Petroleum				Distillate ^b	Total ^a		
			Distillate Fuel	Kerosene	LPG ^a	Total				
Prices in Nominal Dollars per Million Btu										
1970	1.13	1.84	1.48	1.72	3.00	1.46	—	1.46	7.83	2.28
1971	1.38	1.90	1.51	1.77	2.90	1.54	—	1.54	8.91	2.50
1972	1.35	1.97	1.52	1.81	3.07	1.55	—	1.72	9.44	2.58
1973	1.38	2.03	1.73	2.17	4.09	1.79	—	1.88	10.16	2.91
1974	2.19	2.19	2.66	3.30	5.33	2.72	—	2.49	14.49	4.01
1975	2.89	2.61	2.81	2.51	4.94	2.85	—	2.75	15.77	4.58
1976	3.42	3.04	2.97	3.78	4.46	3.82	—	3.03	16.65	4.79
1977	2.69	3.31	3.37	4.22	5.87	3.49	—	3.39	18.32	5.48
1978	2.81	3.41	3.59	4.47	6.81	3.89	—	3.58	18.70	5.76
1979	2.93	4.15	5.12	6.87	7.59	5.19	—	4.95	20.23	7.34
1980	3.17	4.98	7.95	9.27	9.89	7.14	—	6.82	24.88	8.97
1981	3.57	5.68	8.75	11.85	11.47	8.85	—	7.19	27.84	10.45
1982	3.54	6.82	8.45	11.82	11.47	8.80	—	7.57	30.71	11.39
1983	3.03	7.22	8.25	10.59	11.74	8.42	—	7.87	30.86	12.01
1984	3.24	7.15	8.48	10.54	10.50	8.60	—	7.72	38.56	11.65
1985	3.87	7.83	8.09	10.86	10.89	8.37	—	7.78	38.24	12.08
1986	2.82	7.17	6.89	6.57	12.42	7.14	—	7.14	31.18	11.80
1987	2.80	6.44	6.44	6.81	11.74	6.88	—	6.53	28.01	10.79
1988	2.82	6.17	6.46	8.05	10.21	6.69	—	6.35	28.70	10.65
1989	2.93	6.35	7.02	8.72	8.86	7.16	—	6.82	29.53	10.87
1990	4.14	6.44	8.38	18.42	14.08	6.89	^d 2.85	^d 6.96	36.85	^d 11.78
1991	2.80	6.57	6.62	9.97	15.07	8.48	2.82	^d 8.04	31.69	^d 12.20
1992	2.69	6.77	7.21	8.88	13.82	7.89	2.83	^d 8.88	31.85	^d 11.82
1993	2.89	6.78	7.06	8.78	^d 11.77	^d 7.41	2.69	^d 8.79	33.45	^d 12.13
1994	3.19	6.84	6.84	8.90	12.66	7.22	2.63	8.82	33.81	11.89
Expenditures in Million Nominal Dollars										
1970	2.8	284.7	274.5	7.8	9.5	294.8	—	868.7	824.1	862.8
1971	2.8	276.7	286.7	8.8	8.0	304.4	—	885.9	891.8	876.8
1972	2.1	302.5	310.1	9.8	10.7	330.8	—	835.2	437.7	1,672.9
1973	2.3	284.6	369.9	8.9	15.1	384.2	—	871.1	543.6	1,194.6
1974	2.9	306.5	481.9	11.3	18.9	511.1	—	819.7	882.4	1,512.1
1975	2.2	348.4	581.8	8.8	17.7	627.3	—	877.8	788.8	1,857.8
1976	3.4	463.2	542.4	15.1	19.2	676.7	—	1,043.2	852.2	1,895.5
1977	2.8	459.3	583.6	24.5	25.5	685.7	—	1,085.6	962.0	2,067.8
1978	2.4	481.7	595.8	24.0	28.3	688.1	—	1,122.2	1,001.1	2,123.3
1979	2.0	637.1	840.7	8.5	22.3	871.5	—	1,210.5	1,588.5	2,307.9
1980	2.4	691.2	989.9	19.8	28.8	1,027.7	—	1,721.3	1,941.5	3,662.8
1981	4.9	856.8	1,181.9	13.0	33.5	1,254.4	—	2,089.2	1,522.1	3,618.3
1982	4.9	1,045.8	951.3	23.9	34.9	1,096.0	—	2,081.5	1,651.6	3,713.0
1983	3.8	1,090.5	770.8	18.6	42.4	851.8	—	1,925.8	1,781.4	3,707.2
1984	1.8	1,107.2	813.0	28.9	34.8	874.8	—	1,983.8	1,789.1	3,772.7
1985	4.4	1,180.8	882.6	51.7	38.3	982.9	—	2,875.2	1,888.9	3,984.8
1986	2.5	1,163.4	693.4	31.3	46.4	771.1	—	1,837.8	1,925.0	3,862.0
1987	1.3	1,113.0	664.8	29.3	47.6	725.4	—	1,839.7	1,811.3	3,751.0
1988	1.1	1,147.1	650.9	21.5	80.4	731.9	—	1,889.0	2,023.0	3,903.1
1989	0.7	1,273.0	659.9	29.2	43.0	722.1	—	1,995.8	2,055.8	4,080.7
1990	0.6	1,134.8	861.7	17.4	45.3	825.9	^d 22.2	^d 1,788.7	2,188.8	^d 3,983.7
1991	0.5	1,185.8	617.3	18.6	60.3	596.3	23.4	^d 1,808.0	2,282.0	^d 4,137.9
1992	0.6	1,377.3	470.4	13.9	68.0	550.3	24.8	^d 1,982.7	2,283.0	^d 4,185.7
1993	0.3	1,387.0	474.5	11.1	^d 85.1	^d 544.7	26.3	^d 1,938.3	2,514.0	^d 4,452.3
1994	0.5	1,542.0	491.7	14.0	88.6	665.3	25.8	2,133.5	2,555.7	4,689.2

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.^d Revised data.

—No consumption.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 193. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, New Jersey

Year	Primary Energy								Electricity	Total Energy ^b	
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
Prices in National Dollars per Million Btu											
1970	0.29	1.36	1.14	0.79	1.03	2.99	0.45	0.85	3.99	7.42	2.01
1971	0.33	1.42	1.21	0.85	1.41	3.04	0.70	1.02	1.14	8.59	2.41
1972	0.40	1.45	1.21	0.85	1.40	2.90	0.71	1.02	1.16	8.95	2.55
1973	0.43	1.51	1.42	1.05	1.46	3.08	0.89	1.20	1.29	9.51	2.88
1974	1.10	1.82	2.34	2.27	3.13	4.55	2.05	2.28	2.12	13.68	4.49
1975	1.27	2.28	2.46	2.58	3.38	4.79	2.44	2.39	2.34	14.97	5.18
1976	0.94	2.68	2.64	2.51	3.65	4.05	1.59	2.59	2.50	15.69	4.94
1977	1.89	3.00	3.89	2.87	3.42	5.23	2.29	2.76	2.83	17.04	8.10
1978	1.31	3.26	3.20	2.98	3.86	5.21	2.14	2.81	2.95	17.89	6.88
1979	1.42	3.88	4.84	4.11	4.00	7.16	3.59	4.03	3.97	19.04	7.57
1980	1.89	4.48	5.47	5.01	5.15	8.94	4.89	5.51	5.14	22.49	8.22
1981	1.71	5.30	6.14	7.01	5.36	10.89	5.49	6.06	6.15	25.79	11.30
1982	1.87	6.17	7.59	7.24	7.22	10.06	5.89	6.76	6.42	27.95	12.47
1983	1.74	6.50	^R 6.87	6.87	7.71	9.01	4.70	^R 6.43	^R 6.45	27.36	^R 12.79
1984	1.73	6.40	^R 6.86	7.56	7.15	8.67	5.10	^R 6.37	^R 6.37	27.79	^R 12.83
1985	1.74	6.48	^R 6.59	^R 6.89	12.88	8.95	4.58	^R 6.04	^R 6.27	28.82	^R 13.83
1986	1.82	6.47	^R 4.43	^R 5.09	11.32	8.89	2.87	^R 4.21	^R 5.28	28.40	^R 12.82
1987	1.80	6.41	^R 4.46	^R 5.34	10.90	7.25	3.12	^R 4.38	^R 4.98	25.49	^R 11.80
1988	1.58	5.41	^R 4.19	^R 4.84	10.74	7.58	2.54	^R 4.01	^R 4.67	25.00	^R 11.48
1989	1.58	5.17	^R 4.91	^R 5.17	9.53	6.49	2.97	^R 4.84	^R 5.05	25.95	^R 11.97
1990	1.69	5.87	^R 6.10	^R 6.89	18.89	8.43	3.47	^R 6.82	^R 6.34	26.50	^R 12.71
1991	1.58	5.08	^R 5.85	^R 5.85	9.15	6.91	2.64	^R 5.36	^R 5.16	27.43	^R 12.94
1992	1.57	5.40	^R 5.05	^R 5.41	10.15	8.04	2.56	^R 4.99	^R 5.28	27.65	^R 12.83
1993	1.50	5.40	^R 4.74	^R 5.83	10.56	^R 8.83	2.71	^R 4.37	^R 5.13	26.84	^R 13.49
1994	1.51	5.85	4.56	5.82	10.46	6.82	2.85	4.30	5.42	29.15	13.84
Expenditures in Million National Dollars											
1970	0.3	75.3	74.9	1.3	8.8	6.6	32.8	119.2	197.9	398.8	478.6
1971	0.7	87.7	77.4	1.8	0.8	12.0	42.9	134.7	223.2	343.1	569.3
1972	0.4	93.7	83.5	1.8	0.9	8.7	42.4	137.3	231.4	380.1	621.5
1973	0.6	98.1	99.0	1.9	0.9	10.0	52.4	164.1	260.7	431.2	711.9
1974	1.1	106.4	143.8	3.0	1.9	14.2	107.3	269.6	379.3	632.5	1,011.8
1975	0.9	124.2	148.4	2.4	2.1	16.9	88.9	282.9	378.0	787.2	1,085.2
1976	0.8	250.4	182.9	3.9	2.8	10.0	112.4	298.0	649.0	782.6	1,391.6
1977	1.2	186.9	178.6	4.5	2.8	14.1	120.3	322.3	480.5	891.4	1,371.0
1978	0.7	162.0	177.2	6.2	2.8	19.9	100.7	306.9	468.8	958.9	1,426.5
1979	0.6	202.0	198.0	2.2	2.1	39.9	222.3	462.5	672.1	1,046.3	1,720.4
1980	0.8	278.8	345.2	1.3	2.8	15.5	321.1	686.8	984.8	1,288.3	2,359.8
1981	1.7	406.1	383.1	2.3	5.6	17.6	220.7	607.4	1,018.1	1,518.2	2,536.4
1982	1.7	500.8	328.9	3.8	3.9	17.1	148.2	482.0	994.5	1,680.6	2,685.1
1983	1.4	532.7	^R 288.8	2.0	4.9	34.5	78.7	^R 408.8	^R 941.0	1,740.9	^R 2,682.0
1984	0.8	647.6	^R 293.5	1.2	4.2	28.4	116.5	^R 444.8	^R 993.1	1,957.1	^R 2,680.2
1985	1.9	953.5	^R 213.8	8.8	7.9	31.9	89.7	^R 344.3	^R 899.7	2,079.5	^R 2,979.2
1986	1.0	543.1	^R 226.5	^R 3.1	7.5	23.6	45.6	^R 309.3	^R 653.4	2,149.3	^R 3,002.7
1987	0.5	523.3	^R 202.5	^R 5.3	7.8	25.3	48.9	^R 255.8	^R 606.6	2,058.6	^R 2,989.2
1988	0.4	530.9	^R 182.7	^R 3.1	8.4	25.8	45.6	^R 276.5	^R 607.8	2,177.4	^R 2,985.2
1989	0.3	622.1	^R 231.9	^R 7.7	6.1	29.6	39.6	^R 313.0	^R 895.4	2,377.7	^R 3,313.1
1990	0.2	681.1	^R 248.9	^R 4.8	5.8	35.8	32.3	^R 328.1	^R 827.4	2,460.4	^R 3,388.1
1991	0.2	631.7	^R 216.1	6.4	6.5	32.3	28.6	^R 287.9	^R 919.7	2,621.3	^R 3,541.0
1992	0.3	725.1	^R 187.6	^R 11.8	8.8	29.1	22.1	^R 259.3	^R 984.7	2,821.4	^R 3,806.1
1993	0.1	732.1	^R 154.7	^R 5.3	9.7	3.8	34.1	^R 207.3	^R 929.5	^R 2,842.6	^R 3,772.3
1994	0.2	796.0	132.4	10.6	8.7	3.9	37.6	202.5	908.7	2,989.2	3,957.9

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.^R Revised data.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 194. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, New Jersey

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Biofuels ^e	Total ^c		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	8.64	8.23	8.40	0.68	0.68	0.78	0.79	1.43	8.08	2.99	8.48	1.18	0.63	—	0.86	3.08	1.16
1971	—	0.59	0.59	0.72	0.82	0.81	0.85	1.44	6.27	3.04	0.68	1.12	1.04	—	0.97	4.65	1.99
1972	—	0.40	0.40	0.79	0.86	0.80	0.85	1.40	5.58	2.80	0.69	1.12	1.07	—	1.01	4.98	1.47
1973	—	0.43	0.43	0.85	0.83	0.88	1.03	1.48	5.33	3.06	0.73	1.24	1.16	—	1.10	5.46	1.61
1974	—	1.10	1.10	1.08	1.53	2.17	2.27	3.13	7.22	4.55	2.08	2.21	2.32	—	2.11	8.98	2.97
1975	—	1.27	1.27	1.85	1.88	2.36	2.58	3.38	7.48	4.79	2.15	2.78	2.81	—	2.47	10.08	2.43
1976	—	0.94	0.94	2.11	1.96	2.40	2.51	3.65	7.05	4.96	2.12	2.85	2.68	—	2.54	10.38	3.32
1977	—	1.89	1.89	2.34	2.04	2.76	2.87	3.42	6.97	5.23	2.37	3.15	2.91	—	2.83	11.91	3.90
1978	—	1.31	1.31	3.27	2.23	2.88	2.99	3.85	7.60	5.21	2.35	3.25	3.04	—	3.06	12.14	4.28
1979	—	1.42	1.42	3.08	2.82	3.62	4.11	4.00	10.21	7.18	3.35	4.48	3.89	—	3.89	13.14	4.94
1980	—	1.48	1.48	3.83	3.85	5.48	5.81	8.18	14.38	9.84	4.89	7.07	8.87	—	8.89	16.88	8.98
1981	—	1.71	1.71	4.57	5.41	8.60	7.01	6.88	18.00	10.99	4.89	8.85	7.51	—	8.79	19.99	8.49
1982	—	1.87	1.87	6.09	4.10	8.65	7.24	7.22	17.28	10.06	5.16	8.11	7.01	—	6.48	22.27	8.58
1983	—	1.74	1.74	6.29	4.18	8.68	6.87	7.71	16.98	9.01	4.89	8.00	7.10	—	8.48	21.64	8.80
1984	—	1.73	1.73	8.51	4.53	8.65	7.64	7.15	17.63	8.87	5.10	8.12	7.21	—	8.59	21.67	8.84
1985	—	1.74	1.74	6.28	4.89	8.64	8.89	12.08	17.61	8.85	4.89	7.98	8.49	—	8.82	22.54	8.88
1986	—	1.82	1.82	4.27	4.16	8.49	8.50	11.32	15.59	6.89	2.67	8.44	8.53	—	8.49	22.09	8.76
1987	—	1.80	1.80	3.98	3.39	8.49	8.54	10.90	12.70	7.25	3.12	8.50	8.58	—	8.50	19.66	8.70
1988	—	1.58	1.58	3.78	3.07	8.40	8.44	10.74	14.61	7.58	2.54	8.43	8.51	—	8.47	18.83	8.70
1989	—	1.58	1.58	3.88	2.71	8.68	8.57	9.53	14.48	6.48	2.97	8.51	8.61	—	8.47	21.00	8.73
1990	—	1.68	1.68	3.85	2.88	8.52	8.53	10.80	14.80	5.03	3.47	8.61	8.67	1.44	8.53	21.67	8.71
1991	—	1.58	1.58	3.56	2.70	8.53	8.58	9.15	16.79	8.91	2.64	8.61	8.67	1.55	8.44	22.48	8.71
1992	—	1.57	1.57	3.34	2.29	8.40	8.41	10.15	19.43	9.04	2.58	8.58	8.61	1.43	8.43	22.58	8.81
1993	—	1.50	1.50	3.57	2.92	8.58	8.63	10.85	18.84	8.63	2.71	8.52	8.58	1.43	8.44	23.68	8.49
1994	—	1.51	1.51	3.50	2.97	8.57	8.60	8.29	19.16	8.82	2.85	8.82	8.37	1.33	8.35	23.28	8.47

Expenditures in Million Nominal Dollars																
1970	5.3	2.2	7.5	54.4	26.3	88.6	3.4	30.0	42.5	8.3	52.1	108.9	307.6	—	368.8	560.8
1971	—	1.8	1.8	85.8	32.9	90.3	3.1	30.2	43.8	5.6	85.3	102.9	332.2	—	379.8	614.3
1972	—	0.6	0.6	91.9	35.5	42.1	3.1	33.5	49.4	4.7	58.5	112.1	338.9	—	389.3	636.6
1973	—	1.0	1.0	99.5	40.3	55.2	2.8	38.4	53.0	4.7	91.6	135.1	391.0	—	451.5	748.7
1974	—	4.0	4.0	82.2	63.9	104.2	5.9	76.7	88.9	7.4	145.4	245.4	710.4	—	782.6	1,259.1
1975	—	2.0	2.0	75.5	82.8	108.5	8.7	73.9	51.6	5.8	125.3	284.7	722.4	—	799.8	1,277.1
1976	—	0.8	0.8	141.5	98.0	114.0	10.9	77.8	54.0	5.7	174.7	256.1	732.0	—	884.3	1,414.0
1977	—	4.3	4.3	103.8	74.3	128.7	17.8	73.3	70.1	5.3	179.9	323.7	873.1	—	981.3	1,589.2
1978	—	1.8	1.8	119.0	88.9	123.8	18.1	80.5	82.0	5.2	170.6	366.9	928.8	—	1,049.6	1,606.2
1979	—	0.6	0.6	141.6	86.5	216.8	37.7	81.9	115.3	6.0	416.5	535.8	1,504.6	—	1,646.7	2,358.3
1980	—	1.2	1.2	117.5	168.7	230.8	48.9	102.9	144.4	7.7	416.2	855.5	1,863.2	—	2,101.9	3,003.8
1981	—	0.8	0.8	405.8	177.0	363.7	48.1	102.1	173.6	8.4	206.8	1,027.6	2,106.6	—	2,514.3	3,809.2
1982	—	8.6	8.6	415.2	131.3	312.6	38.3	130.5	161.7	6.4	238.2	711.0	1,718.1	—	2,140.0	3,276.2
1983	—	11.8	11.8	422.7	189.3	317.4	56.8	132.7	158.4	6.4	99.6	638.7	1,395.8	—	1,828.9	2,545.1
1984	—	13.2	13.2	435.5	187.3	314.6	20.1	165.6	173.2	4.3	133.2	640.7	1,487.2	—	1,956.0	2,883.9
1985	—	15.0	15.0	428.0	153.8	300.4	18.4	252.8	181.2	21.7	128.6	587.5	1,419.1	—	1,886.1	2,883.9
1986	—	10.6	10.6	294.9	153.5	300.3	19.6	207.5	139.5	18.9	73.1	425.0	1,119.4	—	1,424.8	2,273.6
1987	—	13.0	13.0	315.7	119.3	338.2	21.1	249.8	108.5	19.6	102.4	499.3	1,222.2	—	1,560.8	2,582.2
1988	—	10.2	10.2	290.6	88.4	278.1	20.9	216.3	142.8	20.9	70.2	429.3	1,068.6	—	1,267.4	2,418.9
1989	—	11.3	11.3	324.5	72.4	344.3	20.6	164.8	144.9	22.3	63.8	492.1	1,065.2	—	1,401.0	2,506.2
1990	—	11.1	11.1	343.6	68.0	389.8	18.5	106.8	180.3	21.7	88.5	642.7	1,187.1	1.44	1,546.4	2,827.1
1991	—	9.2	9.2	350.4	56.1	377.8	3.2	149.9	154.7	19.7	37.9	508.3	1,005.4	8.0	2,484.4	
1992	—	8.5	8.5	570.8	50.8	364.4	4.9	176.8	182.5	20.1	39.5	513.8	1,046.6	6.8	1,832.7	2,735.8
1993	—	8.3	8.3	668.4	160.8	363.4	4.5	176.6	181.2	25.1	34.2	481.5	1,007.1	6.7	1,680.8	2,840.5
1994	—	2.7	2.7	684.6	102.9	65.3	19.0	81.5	191.7	25.8	36.0	454.2	956.4	7.5	1,631.1	2,734.6

^a Liquefied petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990^e Rebased data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 165. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1984, New Jersey

Year	Primary Energy											Electricity	Total Energy	
	Coal	Natural Gas	Petroleum								Total			Total
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Total				
Prices in National Dollars per Million Btu														
1970	0.23	—	2.17	1.57	0.72	1.42	5.06	2.99	0.41	2.58	2.58	4.02	2.58	
1971	0.63	—	2.21	1.75	0.75	1.44	5.27	3.04	0.60	2.46	2.46	3.80	2.46	
1972	0.40	—	2.19	2.00	0.75	1.40	5.58	2.80	0.54	2.26	2.26	3.50	2.26	
1973	0.43	—	2.36	2.14	0.89	1.46	5.33	3.06	0.72	2.59	2.59	3.84	2.59	
1974	1.10	—	3.23	2.99	1.54	1.33	7.22	4.55	1.56	4.00	4.00	4.00	4.00	
1975	1.27	—	3.46	3.21	2.01	1.38	7.48	4.78	1.81	4.32	4.32	4.32	4.32	
1976	0.84	—	3.59	3.17	2.19	1.65	7.05	4.96	1.76	4.37	4.37	4.37	4.37	
1977	1.89	—	3.97	3.43	2.51	1.82	7.97	5.23	2.04	4.60	4.60	4.60	4.60	
1978	—	—	4.29	3.65	2.86	2.06	7.60	5.21	1.86	4.63	4.63	4.63	4.63	
1979	—	—	5.73	5.13	3.85	2.35	10.21	7.16	2.98	6.33	6.33	6.33	6.33	
1980	—	—	8.02	7.24	5.27	3.15	14.38	9.84	3.84	8.80	8.80	8.80	8.80	
1981	—	—	10.64	9.78	7.19	4.22	19.00	10.69	4.74	11.94	11.94	11.94	11.94	
1982	—	—	10.32	9.29	7.02	4.10	17.45	10.09	4.65	11.54	11.54	11.54	11.54	
1983	—	—	10.44	9.37	7.15	4.10	17.92	10.01	4.41	11.54	11.54	11.54	11.54	
1984	—	—	10.27	9.13	6.78	3.75	16.92	9.67	4.45	11.12	11.12	11.12	11.12	
1985	—	—	9.80	8.51	6.34	3.44	15.99	8.95	4.16	10.11	10.11	10.11	10.11	
1986	—	—	8.41	6.96	5.44	3.32	15.59	8.59	3.49	9.09	9.09	9.09	9.09	
1987	—	—	7.55	6.63	4.01	3.00	12.70	7.25	2.46	8.80	8.80	8.80	8.80	
1988	—	—	7.41	6.80	3.79	2.74	14.81	7.59	2.19	8.10	8.10	8.10	8.10	
1989	—	—	8.28	7.22	4.34	2.54	14.48	8.46	2.57	8.71	8.71	8.71	8.71	
1990	—	—	9.42	8.04	5.00	3.00	14.28	8.83	2.49	7.83	7.83	7.83	7.83	
1991	—	—	8.71	6.00	4.79	2.19	10.79	8.01	2.00	7.09	7.09	7.09	7.09	
1992	—	—	8.54	7.69	4.44	1.94	10.43	8.04	2.35	6.97	6.97	6.97	6.97	
1993	—	—	8.24	7.69	4.15	1.85	10.94	8.83	2.35	6.76	6.76	6.76	6.76	
1994	—	4.10	7.89	7.63	3.87	1.82	10.16	8.82	2.70	6.86	6.86	6.86	6.86	

Expenditures in Million National Dollars

Year	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lighter	Motor Gasoline	Residual Fuel	Total	Total	Electricity	Total Energy
1970	1.7	—	78.5	28.9	0.8	17.7	1,234.9	23.3	1,172.4	1,172.4	1,172.4	8.5	1,173.4
1971	1.4	—	91.0	30.1	0.6	22.8	1,074.3	38.6	1,254.3	1,254.3	1,254.3	0.6	1,255.0
1972	1.3	—	105.5	30.1	0.6	22.8	1,119.3	48.4	1,302.1	1,302.1	1,302.1	0.7	1,302.7
1973	1.3	—	124.0	35.9	0.6	23.9	1,215.0	47.3	1,442.8	1,442.8	1,442.8	0.7	1,443.3
1974	1.6	—	170.5	54.0	1.3	29.7	1,762.2	71.2	2,108.2	2,108.2	2,108.2	1.1	2,109.3
1975	1.6	—	184.5	64.8	1.2	32.5	1,829.5	80.3	2,239.8	2,239.8	2,239.8	1.7	2,241.2
1976	1.6	—	189.2	69.0	1.4	36.7	2,044.4	80.5	2,354.9	2,354.9	2,354.9	1.4	2,356.2
1977	2.1	—	185.5	84.4	1.5	30.1	2,110.2	100.9	2,354.7	2,354.7	2,354.7	1.4	2,356.1
1978	2.4	—	218.9	99.3	2.4	38.3	2,180.7	91.5	2,630.4	2,630.4	2,630.4	1.1	2,631.4
1979	2.7	—	332.3	164.3	1.8	40.6	2,797.7	140.9	3,480.0	3,480.0	3,480.0	1.4	3,481.4
1980	2.6	—	438.1	284.8	0.8	42.1	3,174.5	288.7	4,063.8	4,063.8	4,063.8	1.8	4,065.2
1981	4.1	—	478.1	740.7	4.3	74.8	4,153.0	389.1	5,827.0	5,827.0	5,827.0	2.4	5,829.4
1982	7.6	—	802.8	1,342.1	4.3	62.2	3,862.8	334.3	6,109.3	6,109.3	6,109.3	2.1	6,111.4
1983	8.2	—	519.0	1,336.0	5.3	67.2	3,634.0	343.4	5,811.3	5,811.3	5,811.3	1.8	5,813.0
1984	7.0	—	569.3	1,469.4	5.0	74.4	3,483.6	381.0	5,196.8	5,196.8	5,196.8	4.1	5,200.8
1985	8.3	—	667.8	1,430.8	4.8	69.3	3,483.6	381.0	5,196.8	5,196.8	5,196.8	4.1	5,200.8
1986	6.8	—	685.0	632.8	4.2	60.0	2,860.9	108.8	4,268.1	4,268.1	4,268.1	5.3	4,273.4
1987	5.7	—	680.6	604.6	3.2	63.2	3,040.9	216.5	4,863.8	4,863.8	4,863.8	5.4	4,869.2
1988	5.7	—	629.6	678.3	3.4	61.3	3,184.2	104.1	4,894.8	4,894.8	4,894.8	5.4	4,899.2
1989	5.3	—	545.2	645.2	2.9	62.3	3,573.7	149.4	5,519.7	5,519.7	5,519.7	5.3	5,525.0
1990	5.6	—	561.7	1,470.8	2.8	64.8	3,826.6	128.9	5,670.8	5,670.8	5,670.8	18.7	5,689.5
1991	4.4	—	583.4	1,183.7	2.3	65.5	3,670.0	183.4	5,670.8	5,670.8	5,670.8	18.7	5,689.5
1992	—	—	598.1	1,180.8	2.8	78.4	3,691.6	189.9	5,603.2	5,603.2	5,603.2	17.2	5,620.4
1993	—	—	646.0	1,131.6	3.2	77.8	3,529.6	83.9	5,189.7	5,189.7	5,189.7	17.2	5,206.9
1994	—	8.3	779.2	1,080.2	4.2	10.4	3,749.8	108.4	5,170.5	5,170.5	5,170.5	17.7	5,188.2

^a Locality petroleum gases

Adjusted data

—No consumption, including cases where adjustments were made See explanation of adjustments in Section 7 of Appendix A

(b) Value less than 0.05 million national dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures and assumptions are described in Appendix A

Table 106. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, New Jersey

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices (in Nominal Dollars per Million Btu)									
1970	0.45	0.39	0.45	0.45	—	0.45	0.20	—	0.42
1971	0.55	0.45	0.71	0.72	0.31	0.71	0.15	—	0.59
1972	0.64	0.47	0.73	0.90	—	0.75	0.16	—	0.66
1973	0.68	0.54	0.89	1.16	—	0.93	0.15	—	0.80
1974	1.34	0.71	2.13	2.30	—	2.17	0.20	—	1.74
1975	1.59	0.95	2.12	2.14	—	2.12	0.16	—	1.71
1976	1.45	1.43	2.02	2.35	—	2.06	0.17	—	1.60
1977	1.42	1.79	2.32	2.74	—	2.37	0.29	—	1.71
1978	1.56	1.97	2.20	2.63	—	2.26	0.34	—	1.62
1979	1.67	2.58	3.37	4.09	—	3.44	0.32	—	2.23
1980	1.86	3.01	4.79	5.93	—	4.98	0.34	—	2.67
1981	2.07	4.00	5.58	7.48	—	5.79	0.33	—	2.62
1982	2.14	4.30	5.17	7.27	—	5.32	0.57	—	2.38
1983	1.97	4.05	4.80	6.23	—	4.86	0.70	—	2.89
1984	1.97	4.34	4.93	6.67	—	5.11	0.79	—	3.15
1985	1.93	3.97	4.41	6.24	—	4.62	0.71	—	1.98
1986	1.61	2.51	2.38	3.20	—	2.44	0.73	—	1.47
1987	1.77	2.55	3.12	4.10	—	3.29	0.61	—	1.49
1988	1.72	2.25	2.51	3.53	—	2.69	0.65	—	1.30
1989	1.75	2.46	3.09	4.08	—	3.24	0.66	—	1.45
1990	1.88	2.17	3.96	5.45	—	3.97	0.61	—	1.26
1991	1.78	1.96	2.96	4.61	—	3.26	0.61	—	1.12
1992	1.73	2.11	3.02	4.51	—	3.23	0.56	—	1.04
1993	1.77	2.30	2.66	4.04	—	2.89	0.58	—	1.01
1994	1.82	2.10	2.64	3.86	—	3.03	0.62	—	1.11
Expenditures (in Million Nominal Dollars)									
1970	45.4	18.4	107.5	3.2	—	118.6	7.8	—	182.1
1971	46.3	19.0	160.1	12.0	(s)	172.2	6.4	—	243.9
1972	48.0	12.3	186.1	38.7	—	226.8	7.6	—	284.7
1973	41.1	13.5	224.0	58.7	—	263.3	5.8	—	343.7
1974	102.3	10.9	430.6	125.8	—	559.4	8.0	—	678.2
1975	90.3	8.4	318.4	27.9	—	346.2	6.1	—	461.8
1976	98.7	14.8	292.9	39.3	—	332.2	7.3	—	453.0
1977	85.0	13.2	377.7	64.9	—	442.8	22.0	—	572.9
1978	90.7	1.6	396.4	48.9	—	415.4	30.4	—	536.1
1979	96.3	81.7	388.6	51.6	—	451.4	23.1	—	652.6
1980	129.2	247.8	389.1	96.7	—	486.8	27.3	—	891.5
1981	150.0	332.0	346.2	57.5	—	403.7	42.5	—	928.2
1982	155.0	291.1	282.7	29.6	—	282.3	86.2	—	826.8
1983	163.1	406.5	229.5	36.1	—	265.6	46.8	—	863.8
1984	148.4	429.6	256.8	40.1	—	236.9	49.2	—	822.2
1985	178.8	254.5	138.7	24.4	—	163.1	135.8	—	730.2
1986	126.1	95.9	128.9	13.0	—	139.9	117.2	—	479.1
1987	144.2	197.9	91.6	24.5	—	116.1	107.0	—	658.2
1988	128.9	118.4	119.1	34.1	—	153.2	173.7	—	574.2
1989	151.9	140.5	149.5	50.5	—	199.9	162.2	—	694.6
1990	132.5	106.8	63.6	16.5	—	62.9	125.8	—	478.8
1991	99.4	125.0	50.6	18.1	—	68.7	162.9	—	454.0
1992	96.7	64.5	39.7	8.3	—	42.0	129.6	—	354.9
1993	100.9	64.7	28.5	9.1	—	37.5	153.4	—	376.5
1994	91.5	92.5	48.3	14.4	—	60.7	145.5	—	390.1

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

—No consumption.

(s)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 197. Energy Price and Expenditure Estimates by Source, 1970-1994, New Mexico

Year	Primary Energy													Electricity Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c	
	Coal			Natural Gas	Petroleum						Nuclear Fuel	Renewables	Total ^d				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Heating Fuel	Other ^b							Total
Prices in Nominal Dollars per Million Btu																	
1970	—	8.14	8.14	0.35	1.07	6.79	1.35	2.84	0.34	\$1.22	1.92	—	—	0.85	0.20	5.62	1.46
1971	—	0.15	0.15	0.44	1.10	0.80	1.37	2.88	0.44	\$1.57	2.02	—	—	0.87	0.21	5.67	1.53
1972	—	0.15	0.15	0.45	1.12	0.79	1.42	2.91	0.66	\$1.68	1.99	—	—	0.89	0.22	5.94	1.59
1973	—	0.16	0.16	0.45	1.38	0.94	2.12	3.06	0.72	\$1.68	2.15	—	—	1.00	0.23	6.12	1.69
1974	—	0.19	0.19	0.62	2.28	1.62	2.89	4.24	1.49	\$2.36	3.09	—	—	1.39	0.33	6.98	2.53
1975	—	0.23	0.23	0.75	2.42	2.12	3.17	4.72	1.66	\$2.52	3.43	—	—	1.63	0.46	7.99	2.88
1976	—	0.26	0.26	0.94	2.64	2.32	3.38	4.78	1.84	\$2.55	3.61	—	—	1.72	0.54	8.73	2.95
1977	—	0.30	0.30	1.54	2.66	2.71	3.63	5.09	1.93	\$2.75	3.88	—	—	2.09	0.70	10.04	3.75
1978	—	0.43	0.43	1.90	3.06	2.92	4.18	5.30	1.86	\$2.89	4.14	—	—	2.36	0.81	11.97	4.18
1979	—	0.49	0.49	2.10	4.30	4.08	4.95	6.89	2.70	\$3.72	6.37	—	—	2.90	0.99	14.17	5.51
1980	—	0.56	0.56	2.66	6.80	6.89	6.84	9.88	3.90	\$6.02	7.90	—	—	3.71	1.82	15.92	7.99
1981	—	0.71	0.71	3.06	8.96	7.67	6.85	10.98	4.07	\$7.52	9.20	—	—	4.66	1.20	17.98	8.40
1982	—	0.80	0.80	3.84	7.95	7.58	6.04	10.64	4.76	\$6.56	8.66	—	—	4.27	1.23	20.80	9.02
1983	—	0.84	0.84	4.36	\$6.84	\$6.74	9.15	9.18	4.60	\$6.37	\$7.67	—	—	\$3.88	1.14	20.70	\$8.50
1984	—	0.84	0.84	4.47	\$6.84	\$6.36	7.54	9.11	4.51	\$7.08	\$7.74	—	—	4.12	1.23	20.82	\$8.57
1985	—	1.09	1.09	4.89	\$6.54	\$6.24	8.21	9.14	3.98	\$6.72	7.95	—	—	3.99	1.33	21.20	\$9.28
1986	—	1.14	1.14	4.24	\$5.15	4.39	6.88	7.02	2.01	\$5.63	\$6.12	—	—	\$3.46	1.31	22.14	\$8.07
1987	—	1.21	1.21	3.68	\$5.72	4.28	7.20	7.46	2.56	\$4.45	\$6.36	—	—	\$3.49	1.29	21.63	\$8.04
1988	—	1.18	1.18	3.44	\$6.50	4.17	6.36	7.44	1.87	\$4.71	\$6.33	—	—	\$3.40	1.26	21.76	\$7.83
1989	—	1.24	1.24	3.61	\$6.42	4.79	6.47	8.24	2.16	\$4.74	\$7.06	—	—	\$3.64	1.32	21.85	\$8.47
1990	—	1.32	1.32	3.64	\$7.46	6.81	6.92	8.23	2.78	\$5.09	\$8.98	—	4.379	\$4.17	1.37	20.99	\$9.18
1991	—	1.38	1.38	3.62	\$6.90	4.54	6.08	9.10	2.27	\$5.46	\$7.52	—	3.72	\$4.26	1.42	21.09	\$8.71
1992	—	1.32	1.32	3.67	\$7.44	4.57	4.45	9.39	2.09	\$5.10	\$7.41	—	3.77	\$4.07	1.38	21.03	\$8.60
1993	—	1.37	1.37	3.91	\$7.57	4.50	5.25	\$9.87	1.96	\$4.77	\$7.90	—	3.73	\$4.25	1.45	21.40	\$9.01
1994	—	1.41	1.41	3.89	7.45	4.04	5.27	9.64	2.12	4.96	7.77	—	3.69	4.14	1.47	21.09	9.21
Expenditures in Million Nominal Dollars																	
1970	—	14.3	14.3	80.7	33.6	12.9	22.0	292.8	0.4	\$28.4	292.8	—	—	367.3	-32.0	108.6	461.8
1971	—	19.3	19.3	90.4	34.5	13.0	21.8	220.0	1.1	\$19.2	309.8	—	—	416.3	-37.1	117.5	489.7
1972	—	19.0	19.0	97.5	43.0	12.4	25.7	230.8	2.9	\$21.3	336.5	—	—	452.0	-42.4	133.1	542.7
1973	—	21.2	21.2	81.8	61.5	14.0	34.7	258.2	7.1	\$25.7	401.3	—	—	504.2	-47.5	146.3	602.7
1974	—	27.3	27.3	116.4	91.0	24.4	44.6	360.0	21.7	\$38.4	570.1	—	—	713.9	-72.4	186.9	808.4
1975	—	30.8	30.8	134.8	94.7	30.8	41.3	469.2	31.8	\$45.1	683.3	—	—	818.1	-95.4	179.5	962.3
1976	—	35.8	35.8	154.4	112.6	31.0	46.3	495.8	27.4	\$43.3	696.6	—	—	988.6	-116.9	212.4	1,023.1
1977	—	45.6	45.6	253.0	146.6	38.6	62.9	481.7	26.4	\$45.4	791.5	—	—	1,090.1	-161.7	257.1	1,185.6
1978	—	62.6	62.6	282.8	189.4	37.4	63.1	527.3	14.6	\$52.0	953.7	—	—	1,199.5	-173.1	324.9	1,351.1
1979	—	74.8	74.8	291.8	296.0	59.1	70.2	650.4	17.3	\$71.1	1,104.0	—	—	1,470.6	-215.3	410.6	1,665.0
1980	—	114.2	114.2	384.1	315.8	86.0	88.8	850.8	33.5	\$123.3	1,507.8	—	—	2,816.1	-268.0	480.2	2,289.2
1981	—	139.3	139.3	408.4	805.3	106.7	77.8	978.8	19.4	\$118.7	1,904.4	—	—	2,452.2	-301.6	526.8	2,677.4
1982	—	179.8	179.8	414.4	356.2	106.6	59.0	958.0	22.3	\$106.1	1,606.3	—	—	2,200.3	-333.4	606.2	2,472.2
1983	—	222.6	222.6	410.7	\$269.9	\$96.9	80.4	824.3	92.9	\$165.7	\$1,528.6	—	—	\$2,181.9	-334.6	608.3	\$2,435.5
1984	—	257.1	257.1	434.3	\$264.8	\$104.1	154.3	885.4	59.7	\$211.1	\$1,640.4	—	—	\$2,329.8	-345.9	746.6	\$2,720.5
1985	—	289.7	289.7	359.8	\$324.4	\$7.7	86.8	899.3	18.9	\$65.1	\$1,484.3	—	—	\$2,128.6	-382.8	896.8	\$2,577.3
1986	—	274.9	274.9	303.6	\$291.5	\$6.8	49.9	874.6	2.7	\$63.8	\$1,183.3	—	—	\$1,741.4	-342.2	674.2	\$2,273.4
1987	—	315.1	315.1	280.9	\$354.5	70.0	40.4	740.5	1.2	\$77.6	\$1,254.3	—	—	\$1,890.2	-359.9	893.3	\$2,413.6
1988	—	312.9	312.9	320.8	\$327.9	64.1	34.7	755.6	1.2	\$82.2	\$1,255.6	—	—	\$1,890.5	-359.3	923.0	\$2,463.2
1989	—	346.0	346.0	355.4	\$395.7	74.7	92.2	817.1	1.9	\$70.1	\$1,391.6	—	—	\$2,093.0	-407.0	958.2	\$2,644.2
1990	—	283.4	283.4	346.8	\$287.6	86.2	230.3	886.7	2.8	\$73.3	\$1,682.1	—	4.73	\$2,411.6	-414.2	963.5	\$2,861.9
1991	—	322.0	322.0	352.7	\$364.3	85.2	257.4	914.9	1.1	\$80.5	\$1,703.3	—	7.7	\$2,365.6	-371.1	987.1	\$2,001.7
1992	—	363.8	363.8	341.2	\$432.2	71.3	196.4	962.7	0.8	\$86.2	\$1,711.5	—	8.0	\$2,414.5	-399.9	1,006.6	\$3,025.2
1993	—	369.6	369.6	\$388.1	\$387.6	82.6	191.6	\$1,067.2	\$1.5	\$86.7	\$1,787.2	—	7.6	\$2,682.5	-431.5	1,057.9	\$3,179.0
1994	—	392.1	392.1	379.5	315.6	58.9	187.8	1,054.2	1.8	90.6	1,888.9	—	7.6	2,448.0	-455.1	1,100.1	3,112.9

^a Liquidated petroleum gases^b "Other" includes asphalt and fuel oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of new electric utility use of biofuels beginning in 1990

Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, calculation procedures, and assumptions are described in Appendix A

Table 198. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, New Mexico

Year	Primary Energy								Electricity	Total Energy ^c
	Coal	Natural Gas	Petroleum				Biomass ^b	Total ^d		
			Distillate Fuel	Kerosene	LPG ^a	Total				
Prices in Nominal Dollars per Million Btu										
1970	0.90	0.88	0.88	1.49	1.51	1.80	—	1.00	8.75	1.78
1971	0.84	0.86	1.06	1.49	1.58	1.58	—	1.00	8.17	1.53
1972	—	0.69	1.07	1.52	1.68	1.67	—	1.03	8.41	1.69
1973	—	0.93	1.28	1.78	3.22	3.14	—	1.40	8.54	2.62
1974	—	1.18	2.45	2.87	3.43	3.41	—	1.57	9.33	2.91
1975	—	1.24	2.82	3.05	4.15	4.12	—	1.64	10.47	3.86
1976	—	1.26	3.03	3.19	4.27	4.22	—	1.60	11.22	2.93
1977	—	1.98	3.24	3.56	4.57	4.52	—	2.39	12.53	4.25
1978	—	2.35	2.97	3.79	5.04	4.96	—	2.71	14.86	5.03
1979	2.97	2.58	4.55	5.28	5.23	5.23	—	2.94	16.98	6.82
1980	2.84	3.17	6.79	7.95	7.19	7.29	—	3.78	18.29	8.68
1981	3.42	3.87	8.07	9.79	8.19	8.40	—	4.24	21.07	7.83
1982	3.18	4.70	7.78	9.79	4.93	5.98	—	4.90	23.70	8.66
1983	2.91	6.28	4.96	9.10	8.44	8.85	—	5.84	23.75	9.58
1984	2.92	5.55	7.32	9.12	9.33	9.18	—	6.05	23.74	10.20
1985	2.88	6.89	6.32	8.68	8.82	8.98	—	6.38	25.46	11.18
1986	2.78	5.28	5.09	8.34	7.15	7.03	—	5.50	28.43	11.01
1987	2.40	4.61	4.81	6.99	7.78	7.58	—	4.98	28.39	10.34
1988	2.12	4.87	4.74	5.91	6.61	6.46	—	5.03	28.42	10.54
1989	2.43	5.45	5.94	6.65	7.48	7.44	—	5.73	28.41	11.23
1990	2.41	5.37	6.47	8.06	8.29	8.24	d 4.75	d R 5.89	28.22	d R 10.47
1991	2.36	5.19	5.96	7.42	10.48	10.39	4.75	R 5.95	28.63	R 10.64
1992	2.43	4.55	5.40	6.72	10.40	10.27	4.75	R 5.17	26.86	R 10.07
1993	2.16	5.24	5.71	7.11	9.85	9.79	4.75	R 5.57	26.94	R 10.64
1994	2.25	5.51	5.41	6.73	8.54	8.48	4.75	5.81	26.79	11.22
Expenditures in Million Nominal Dollars										
1970	(a)	28.4	(a)	0.2	12.2	12.4	—	41.8	41.8	82.8
1971	(a)	30.9	(a)	0.2	11.1	11.3	—	42.3	45.4	87.7
1972	—	39.7	(a)	0.2	13.1	13.4	—	47.1	50.9	98.0
1973	—	23.8	(a)	0.6	21.1	21.8	—	45.8	57.0	102.6
1974	—	31.4	0.1	0.5	20.4	21.0	—	52.4	65.0	117.4
1975	—	37.8	0.1	0.5	19.8	20.2	—	57.2	68.9	127.1
1976	—	49.7	0.1	0.6	19.5	20.1	—	69.9	78.6	148.4
1977	—	54.0	0.2	0.8	22.9	23.9	—	77.9	82.1	189.9
1978	—	64.6	0.1	0.8	20.8	21.7	—	86.3	112.5	199.8
1979	0.1	76.2	0.1	1.3	24.2	25.6	—	101.6	138.8	240.6
1980	0.8	86.0	0.4	6.8	31.8	38.8	—	134.1	189.1	292.1
1981	0.1	98.2	0.8	4.7	24.5	30.0	—	128.4	189.4	294.5
1982	0.3	130.9	1.1	8.9	19.2	30.2	—	181.2	195.6	358.8
1983	0.2	146.9	0.5	14.8	40.9	66.2	—	202.7	208.2	410.9
1984	0.2	151.5	0.7	23.3	19.9	43.9	—	205.5	248.2	451.7
1985	0.2	193.4	0.8	2.8	84.8	87.8	—	201.9	280.4	470.7
1986	0.1	197.3	1.0	0.8	28.1	27.9	—	185.9	283.6	448.7
1987	0.1	137.1	0.4	0.7	28.9	30.0	—	167.2	287.7	465.0
1988	(a)	145.5	0.3	0.4	21.4	22.2	—	167.8	306.0	473.8
1989	0.2	162.4	0.3	0.4	33.7	34.4	—	186.8	312.0	486.9
1990	0.1	158.5	0.5	0.2	57.4	58.0	d 6.1	d R 222.8	319.8	d R 542.9
1991	0.1	160.7	0.3	0.3	51.0	51.6	6.6	R 219.0	333.0	R 552.0
1992	0.2	146.9	0.5	0.2	41.3	41.9	6.9	R 186.9	344.0	R 542.4
1993	0.2	173.9	0.2	0.2	28.7	29.1	6.5	R 209.6	337.0	R 568.6
1994	0.1	173.2	0.2	0.1	24.0	24.4	6.4	204.1	373.0	577.0

^a Liquefied petroleum gases^b Commercial sector prices and expenditures for wood and waste are included in the residential sector^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

Revised data

—No consumption

(a)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 199. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, New Mexico

Year	Primary Energy								Electricity	Total Energy *	
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG *	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.56	0.44	0.82	1.81	1.12	2.84	—	1.34	0.50	6.78	1.37
1971	0.53	0.46	0.99	1.07	1.20	2.96	—	1.40	0.52	6.88	1.48
1972	—	0.48	1.00	1.07	1.22	2.91	—	1.39	0.54	6.18	1.64
1973	—	0.49	1.20	1.32	1.38	3.09	—	1.53	0.58	6.23	1.98
1974	—	0.67	2.33	1.84	2.55	4.24	—	2.75	0.84	6.96	2.41
1975	—	0.74	2.82	2.22	2.80	4.72	—	3.03	0.94	7.80	2.74
1976	—	1.00	2.84	2.55	2.93	4.76	—	3.25	1.15	8.57	2.71
1977	—	1.57	3.04	2.74	3.41	5.09	—	3.47	1.77	9.85	3.97
1978	—	1.68	2.88	2.93	3.72	5.30	—	3.53	2.06	11.72	4.50
1979	1.32	2.18	4.40	3.56	3.99	6.89	—	4.79	2.39	13.77	6.41
1980	0.65	2.79	6.57	6.80	5.36	9.58	—	6.86	3.58	15.95	6.79
1981	1.27	3.21	7.81	6.38	6.37	10.98	—	8.17	4.59	18.32	8.34
1982	1.61	4.22	7.51	7.34	8.79	10.64	—	7.78	4.88	20.88	9.60
1983	1.62	4.61	A 6.11	6.71	7.54	9.18	4.03	A 6.03	A 5.15	20.47	A 9.77
1984	1.42	4.67	A 6.13	7.86	7.33	9.11	4.51	A 6.93	A 5.49	20.97	A 9.07
1985	1.41	5.34	A 6.11	A 7.46	7.27	9.18	4.00	A 6.68	A 5.65	22.67	A 12.53
1986	1.39	4.64	A 5.82	A 4.53	6.51	7.02	—	A 4.70	A 4.12	23.41	A 11.81
1987	1.40	3.67	A 5.81	A 4.07	6.08	7.49	—	A 4.72	A 3.88	22.49	A 11.22
1988	1.33	3.06	A 3.86	A 4.71	6.11	7.44	—	A 4.51	A 3.25	23.10	A 9.68
1989	1.18	3.54	A 4.18	A 5.68	6.00	8.24	—	A 5.10	A 3.74	22.68	A 10.57
1990	1.30	4.18	A 5.52	A 7.17	7.67	9.33	—	A 6.42	A 4.59	22.22	A 11.55
1991	1.38	3.98	A 4.82	A 6.24	5.51	9.10	—	A 5.59	A 4.20	22.58	A 11.49
1992	1.45	3.22	A 4.47	A 5.94	3.75	9.33	—	A 5.27	A 3.38	22.45	A 10.87
1993	1.33	4.13	A 4.38	A 5.79	4.82	A 9.67	—	A 4.65	A 4.17	22.97	A 11.70
1994	1.37	4.41	4.02	5.06	8.26	9.64	—	5.48	4.47	22.71	12.78
Expenditures in Million Nominal Dollars											
1970	(a)	15.7	0.8	(a)	1.8	1.1	—	3.2	18.0	43.7	62.7
1971	(a)	16.9	0.7	(a)	1.5	1.1	—	3.3	20.2	48.6	69.0
1972	—	17.0	0.6	(a)	1.7	1.1	—	3.9	20.9	50.4	77.0
1973	—	13.4	1.4	0.1	1.6	1.2	—	4.3	17.7	82.2	79.9
1974	—	18.1	2.3	0.1	2.7	1.9	—	8.9	25.0	70.7	86.7
1975	—	18.2	2.7	0.1	2.2	2.3	—	7.2	28.4	74.0	99.4
1976	—	38.1	3.8	0.1	2.4	2.4	—	9.1	44.2	87.3	131.6
1977	—	42.7	6.3	0.2	3.0	2.6	—	11.1	53.9	105.6	152.4
1978	—	51.4	4.7	0.2	2.7	2.8	—	10.4	61.8	126.2	187.9
1979	0.1	60.8	4.9	0.2	3.3	3.6	—	12.1	72.9	153.3	226.3
1980	0.5	71.7	5.1	25.4	4.2	5.5	—	48.1	112.4	184.0	288.3
1981	0.1	69.9	31.0	25.0	3.4	6.9	—	65.2	135.6	206.3	341.9
1982	0.3	96.3	24.4	6.4	4.7	6.9	—	42.4	136.9	248.7	387.9
1983	0.2	107.7	A 17.3	45.1	6.2	6.1	16.7	A 80.4	A 197.3	242.4	A 439.7
1984	0.1	113.8	A 17.1	61.6	2.8	4.8	11.7	A 97.7	A 211.6	329.5	A 641.1
1985	0.1	87.2	A 18.1	A 2.6	9.7	6.4	0.1	A 99.9	A 191.2	358.2	A 486.4
1986	0.1	90.2	A 6.5	0.3	4.2	4.3	—	A 17.4	A 107.7	387.8	A 485.5
1987	0.1	79.2	A 16.8	A 0.5	4.0	4.8	—	A 28.0	A 125.3	398.8	A 502.1
1988	0.1	102.7	A 12.0	A 0.8	3.6	4.6	—	A 20.9	A 123.7	420.0	A 643.7
1989	0.1	106.9	A 12.3	A 0.5	4.8	5.2	—	A 22.7	A 128.7	441.0	A 669.7
1990	0.1	185.6	A 28.2	A 6.8	5.4	6.1	—	A 28.2	A 140.3	443.0	A 683.3
1991	0.1	105.7	A 13.6	A 0.7	4.7	5.4	—	A 23.5	A 127.7	452.0	A 679.6
1992	0.2	99.7	A 6.9	A 0.3	2.6	4.8	—	A 14.1	A 108.0	462.0	A 570.0
1993	0.2	A 120.2	A 8.6	0.2	2.5	0.9	—	A 12.2	A 132.8	468.0	A 620.6
1994	0.2	110.1	5.0	0.1	4.1	0.9	—	10.0	120.3	511.0	631.3

* Liquid petroleum gases

* There are no direct fuel costs for photovoltaic and solar thermal energy sources

* Commercial sector prices and expenditures for wood and waste are included in the residential sector

* Revised data

—No consumption

(a)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 200. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, New Mexico

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Biomass ^c	Total ^c		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	0.56	0.56	0.25	8.88	0.95	1.01	1.12	5.06	2.94	0.41	8.98	1.81	—	0.48	3.44	8.95
1971	—	0.53	0.53	0.30	0.82	1.00	1.07	1.20	5.27	2.96	0.52	0.58	1.17	—	0.53	3.41	0.89
1972	—	0.58	0.58	0.31	0.82	1.00	1.07	1.22	5.59	2.91	0.52	0.58	1.14	—	0.57	3.38	0.74
1973	—	0.58	0.58	0.35	0.85	1.23	1.32	1.38	5.33	3.08	0.76	0.59	1.24	—	0.73	3.74	0.93
1974	—	0.69	0.69	0.51	1.75	1.76	1.94	2.65	7.22	4.24	1.40	0.62	1.94	—	1.08	4.60	1.30
1975	—	—	—	0.56	1.84	2.08	2.22	2.80	7.48	4.72	1.80	1.37	2.13	—	1.27	5.54	1.52
1976	—	1.17	1.17	0.68	1.68	2.34	2.56	2.83	7.05	4.73	1.84	1.47	2.31	—	1.38	6.53	1.69
1977	—	1.15	1.15	1.38	1.78	2.45	2.74	3.41	5.87	5.09	1.90	1.75	2.51	—	2.01	7.99	2.46
1978	—	1.26	1.26	1.62	1.94	2.61	2.93	3.72	7.60	5.30	2.02	1.44	2.68	—	2.20	8.91	2.82
1979	—	1.32	1.32	1.89	2.47	3.46	3.58	3.89	10.21	6.89	2.55	2.04	3.45	—	3.10	12.25	4.26
1980	—	0.86	0.86	2.44	3.67	6.42	8.80	8.36	14.36	8.88	3.82	2.88	8.34	—	4.88	13.11	4.98
1981	—	1.27	1.27	2.64	4.49	7.86	8.39	8.37	19.00	10.98	4.03	3.40	6.75	—	4.98	15.11	8.18
1982	—	1.61	1.61	3.44	4.19	8.63	7.34	6.79	17.25	10.64	4.76	2.38	6.84	—	4.96	17.47	7.09
1983	—	1.62	1.62	3.74	4.16	R 6.39	6.71	7.54	16.98	9.16	4.78	2.90	R 5.57	—	R 5.08	17.95	R 6.82
1984	—	1.42	1.42	3.86	4.50	R 6.40	7.86	7.83	17.83	9.11	4.51	2.49	R 6.18	—	R 5.67	16.04	R 6.95
1985	—	1.41	1.41	3.87	4.79	R 6.07	R 7.46	7.27	17.81	8.14	4.89	2.89	R 5.88	—	R 5.44	16.01	7.88
1986	—	1.38	1.38	3.04	4.35	R 3.70	R 4.65	6.51	15.59	7.02	2.09	R 2.66	R 4.29	—	R 4.09	16.64	R 6.64
1987	—	1.40	1.40	3.30	3.19	R 4.32	R 5.31	6.06	12.70	7.46	2.66	R 3.26	R 4.23	—	R 4.06	16.56	R 6.62
1988	—	1.33	1.33	3.16	3.39	R 3.64	R 4.71	6.11	14.61	7.44	1.61	R 2.87	R 4.06	—	R 3.85	16.56	R 6.24
1989	—	1.19	1.19	2.97	2.87	R 4.55	R 6.68	6.00	14.48	8.24	1.98	R 3.55	R 4.70	—	R 4.21	15.63	R 6.58
1990	—	1.39	1.39	3.49	2.76	R 5.84	R 7.17	7.87	14.49	8.23	2.82	R 4.29	R 4.22	d 1.81	d R 4.64	14.81	d R 7.58
1991	—	1.36	1.36	3.39	3.45	R 5.08	R 6.24	6.51	16.79	9.10	2.01	R 4.21	R 5.26	1.81	R 4.81	14.16	R 6.53
1992	—	1.46	1.46	3.58	2.98	R 4.84	R 5.94	3.75	19.43	9.33	2.06	R 3.87	R 4.12	1.80	R 4.34	14.95	R 6.99
1993	—	1.33	1.33	3.66	3.12	R 4.72	R 5.78	4.82	18.94	R 9.87	1.84	R 3.81	R 4.69	1.81	R 4.46	14.24	R 6.15
1994	—	1.37	1.37	3.39	3.05	4.45	5.47	4.84	19.18	9.64	2.11	3.53	4.71	1.81	4.42	13.74	6.18
Expenditures in Million Nominal Dollars																	
1970	—	6.1	0.1	14.7	4.8	11.7	5.5	7.3	3.2	3.8	8.8	9.5	38.0	—	54.9	21.8	78.8
1971	—	0.1	0.1	24.7	4.4	11.6	3.7	7.9	3.7	3.1	0.2	0.5	36.1	—	59.0	23.9	83.2
1972	—	0.1	0.1	25.0	5.3	13.9	3.9	8.4	4.2	2.9	0.7	0.6	40.8	—	65.9	26.8	91.7
1973	—	0.2	0.2	21.2	5.8	20.5	6.1	10.7	3.4	2.5	3.6	0.7	55.3	—	76.7	27.2	103.9
1974	—	0.1	0.1	32.7	16.8	22.3	6.5	19.4	4.4	3.4	11.1	1.2	84.1	—	117.0	31.2	148.2
1975	—	—	—	39.8	18.9	27.8	7.8	17.5	5.4	4.8	72.8	2.8	86.8	—	129.4	36.4	165.9
1976	—	0.2	0.2	40.5	16.3	33.0	7.8	22.3	5.7	3.4	16.2	2.3	105.6	—	146.8	46.5	189.3
1977	—	0.4	0.4	52.2	14.2	46.4	12.2	24.2	8.0	3.4	14.3	2.5	122.2	—	174.9	69.5	244.3
1978	—	2.2	2.2	58.9	18.4	48.3	12.4	28.6	6.9	2.9	10.4	2.1	125.0	—	186.0	86.2	272.2
1979	—	2.7	2.7	25.8	23.3	72.0	17.0	42.6	8.2	3.7	3.6	4.0	174.5	—	203.0	118.4	321.4
1980	—	0.2	0.2	64.8	27.7	83.1	21.1	81.9	10.3	4.2	19.4	6.5	233.4	—	318.0	114.1	432.1
1981	—	3.4	3.4	85.0	34.6	161.2	7.4	48.8	12.4	4.2	17.8	2.8	297.2	—	375.7	151.1	526.9
1982	—	4.4	4.4	40.2	40.0	62.7	10.6	52.9	10.6	3.0	17.3	1.9	176.2	—	223.8	160.9	384.7
1983	—	3.4	3.4	47.6	49.0	R 92.0	17.7	30.4	11.2	2.3	72.9	2.2	R 277.5	—	R 328.5	157.8	R 486.3
1984	—	2.3	2.3	50.7	59.8	R 90.4	28.5	129.5	12.4	10.1	45.4	2.0	R 373.2	—	R 428.1	170.8	R 598.9
1985	—	2.5	2.5	21.1	47.7	R 129.7	R 3.6	11.7	11.8	17.3	18.0	2.0	R 249.7	—	R 286.3	287.8	R 472.8
1986	—	2.8	2.8	8.8	48.7	R 81.7	R 0.9	11.5	10.0	12.6	2.3	2.6	R 188.3	—	R 177.8	202.6	R 380.7
1987	—	1.5	1.5	19.8	43.7	R 101.2	R 0.7	5.9	9.2	12.9	0.8	R 3.0	R 177.3	—	R 196.6	198.6	R 397.4
1988	—	1.6	1.6	26.3	47.6	R 79.8	0.2	8.1	10.2	13.0	0.7	2.8	R 182.1	—	R 189.0	187.6	R 386.6
1989	—	1.1	1.1	38.6	31.7	R 89.3	R 1.6	61.3	10.3	15.0	1.2	R 3.1	R 173.6	—	R 211.4	206.2	R 416.6
1990	—	1.1	1.1	34.1	26.8	R 74.3	R 1.6	181.2	10.7	15.0	1.4	R 4.3	R 294.9	d 1.8	d R 322.3	291.8	d R 533.9
1991	—	1.2	1.2	39.6	34.9	R 68.9	R 1.4	200.0	11.0	17.2	0.8	R 8.2	R 343.5	1.1	R 385.4	302.2	R 687.6
1992	—	1.4	1.4	53.5	37.2	R 53.6	0.9	123.1	13.0	16.1	0.7	R 7.7	R 251.9	1.1	R 327.8	293.6	R 611.5
1993	—	1.7	1.7	R 32.2	50.4	R 41.8	0.2	146.7	12.8	R 29.1	R 1.5	R 6.5	R 291.1	1.1	R 326.0	212.8	R 538.9
1994	—	2.0	2.0	31.8	42.8	32.0	0.1	135.4	13.7	30.4	1.8	6.8	282.8	1.1	287.9	216.1	514.0

^a Liquefied petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

R=Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 201. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, New Mexico

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.56	—	2.17	1.15	0.78	1.12	5.08	2.84	0.38	2.28	2.28	—	2.28
1971	0.63	—	2.21	1.16	0.80	1.20	5.27	2.96	0.54	2.33	2.33	—	2.33
1972	0.58	—	2.19	1.20	0.79	1.22	5.56	2.91	—	2.31	2.31	—	2.31
1973	0.58	—	2.36	1.48	0.84	1.38	5.33	3.08	—	2.49	2.49	—	2.49
1974	0.69	—	3.23	2.60	1.82	2.55	7.22	4.24	—	3.57	3.57	—	3.57
1975	—	—	3.45	2.82	2.12	2.68	7.48	4.72	—	4.03	4.03	—	4.03
1976	1.17	—	3.59	2.79	2.32	2.93	7.08	4.75	—	4.12	4.12	—	4.12
1977	1.15	—	3.97	3.11	2.71	3.41	8.97	5.09	—	4.43	4.43	—	4.43
1978	—	—	4.29	3.29	2.92	3.72	7.60	5.30	—	4.63	4.63	—	4.63
1979	—	—	5.73	4.62	4.06	3.98	10.21	6.89	—	6.18	6.18	—	6.18
1980	—	—	9.82	6.97	6.89	5.36	14.38	9.89	—	8.89	8.89	—	8.89
1981	—	—	10.54	6.59	7.87	6.37	19.00	10.98	—	9.97	9.97	—	9.97
1982	—	—	10.92	7.98	7.38	6.79	17.25	10.64	—	9.72	9.72	—	9.72
1983	—	—	10.44	7.26	^R 6.74	7.54	18.86	9.18	4.53	^R 8.85	^R 8.85	—	^R 8.85
1984	—	—	10.27	7.19	^R 6.36	7.33	17.63	9.11	4.51	^R 8.50	^R 8.50	—	^R 8.50
1985	—	—	8.89	6.89	6.34	7.27	17.61	9.14	—	8.47	8.47	—	8.47
1986	—	—	8.41	6.29	4.39	6.51	15.59	7.02	—	8.25	8.25	—	8.25
1987	—	—	7.55	6.89	4.26	6.68	12.70	7.46	—	7.02	7.02	—	7.02
1988	—	—	7.41	6.67	4.17	6.11	14.61	7.44	—	6.98	6.98	—	6.98
1989	—	—	8.25	7.30	4.79	6.00	14.48	8.24	—	7.70	7.70	—	7.70
1990	—	—	8.32	8.25	6.81	7.87	14.68	9.23	—	8.89	8.89	—	8.89
1991	—	—	8.71	7.53	4.94	5.51	15.78	9.10	—	8.46	8.46	—	8.46
1992	—	3.48	8.54	8.19	4.57	3.75	19.43	9.33	—	8.82	8.82	—	8.82
1993	—	3.42	8.24	8.59	4.50	4.82	19.94	^R 9.67	—	^R 9.02	^R 9.02	—	^R 9.02
1994	—	6.11	7.96	8.24	4.04	8.04	19.18	9.64	—	8.88	8.88	—	8.88

Expenditures in Million Nominal Dollars													
1970	(a)	—	1.3	21.2	12.8	1.0	5.1	188.9	(a)	248.4	248.4	—	248.4
1971	(a)	—	1.3	22.1	13.0	1.3	5.3	215.8	(a)	258.8	258.8	—	258.8
1972	(a)	—	1.2	28.2	12.4	1.5	8.0	226.9	—	276.1	276.1	—	276.1
1973	(a)	—	1.0	38.3	14.0	1.2	9.9	254.5	—	318.3	318.3	—	318.3
1974	(a)	—	1.7	66.0	24.4	2.1	8.1	344.7	—	447.1	447.1	—	447.1
1975	—	—	1.4	84.0	30.8	2.0	8.0	403.4	—	510.8	510.8	—	510.8
1976	(a)	—	1.4	75.9	31.0	2.2	8.4	429.9	—	549.8	549.8	—	549.8
1977	(a)	—	1.6	94.3	38.5	2.8	8.0	475.7	—	621.9	621.9	—	621.9
1978	—	—	1.8	117.9	37.4	3.0	10.6	521.5	—	692.2	692.2	—	692.2
1979	—	—	2.3	158.5	59.1	6.1	14.8	642.9	—	877.7	877.7	—	877.7
1980	—	—	2.8	219.7	86.9	6.8	18.8	841.2	—	1,183.8	1,183.8	—	1,183.8
1981	—	—	7.4	405.6	106.7	2.9	22.3	967.7	—	1,513.9	1,513.9	—	1,513.9
1982	—	—	7.1	260.6	105.6	2.2	19.5	948.1	—	1,343.1	1,343.1	—	1,343.1
1983	—	—	5.6	156.1	^R 98.9	2.9	20.1	819.9	(a)	1,088.8	1,088.8	—	^R 1,088.8
1984	—	—	4.3	175.2	^R 104.1	2.2	22.3	820.7	(a)	1,126.8	^R 1,126.8	—	^R 1,126.8
1985	—	—	4.8	176.1	87.7	2.5	20.7	836.4	—	1,138.4	1,138.4	—	1,138.4
1986	—	—	4.4	199.2	86.6	2.2	18.0	657.9	—	948.4	948.4	—	948.4
1987	—	—	3.3	234.9	70.0	1.8	18.5	722.8	—	1,049.2	1,049.2	—	1,049.2
1988	—	—	2.1	234.5	84.1	1.6	18.3	738.1	—	1,058.7	1,058.7	—	1,058.7
1989	—	—	4.0	282.3	74.7	2.4	18.6	795.9	—	1,159.0	1,159.0	—	1,159.0
1990	—	—	4.8	301.4	89.2	3.3	18.3	875.7	—	1,301.0	1,301.0	—	1,301.0
1991	—	—	4.1	299.3	85.2	1.8	19.9	892.3	—	1,282.4	1,282.4	—	1,282.4
1992	—	(a)	4.0	368.5	71.3	1.4	23.5	831.6	—	1,401.3	1,401.3	—	1,401.3
1993	—	0.1	2.9	315.2	82.5	1.7	23.9	^R 1,027.2	—	^R 1,452.8	^R 1,452.8	—	^R 1,452.8
1994	—	0.3	2.5	277.2	58.9	4.2	24.7	1,022.9	—	1,390.3	1,390.3	—	1,390.3

* Liquefied petroleum gases

Revised data

— No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 202. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, New Mexico

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Cokes	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.14	0.50	0.23	0.27	—	—	0.23	—	0.20
1971	0.15	0.34	0.42	0.53	—	—	0.42	—	0.21
1972	0.15	0.35	0.59	0.76	—	—	0.69	—	0.22
1973	0.16	0.34	0.69	1.78	—	—	0.72	—	0.23
1974	0.18	0.49	1.59	2.09	—	—	1.81	—	0.33
1975	0.23	0.69	1.70	1.89	—	—	1.70	—	0.46
1976	0.25	0.96	1.64	2.45	—	—	1.86	—	0.54
1977	0.29	1.44	1.97	2.59	—	—	1.99	—	0.70
1978	0.42	1.64	1.55	2.89	—	—	1.81	—	0.81
1979	0.48	2.07	2.74	4.23	—	—	2.77	—	0.89
1980	0.59	2.47	3.70	6.93	—	—	5.21	—	1.82
1981	0.70	2.83	4.69	7.56	—	—	6.85	—	1.20
1982	0.79	3.22	4.77	6.99	—	—	6.90	—	1.23
1983	0.84	3.59	4.07	6.15	—	—	4.77	—	1.14
1984	0.93	3.93	4.72	6.22	—	—	5.13	—	1.23
1985	1.09	3.48	3.71	6.20	—	—	4.86	—	1.33
1986	1.13	3.91	1.65	3.70	—	—	2.89	—	1.31
1987	1.21	2.36	2.14	4.47	—	—	3.59	—	1.29
1988	1.18	2.14	1.67	4.22	—	—	3.17	—	1.25
1989	1.24	2.19	2.74	4.96	—	—	3.99	—	1.32
1990	1.32	1.91	5.09	4.22	—	—	4.70	—	1.37
1991	1.38	1.70	3.86	5.36	—	—	5.11	—	1.42
1992	1.92	1.95	3.23	5.15	—	—	5.10	—	1.38
1993	1.37	2.19	3.53	5.06	—	—	5.00	—	1.45
1994	1.41	1.95	3.22	4.65	—	—	4.63	—	1.47

Expenditures in Million Nominal Dollars

Year	Coal	Natural Gas	Heavy Oil	Light Oil	Nuclear Fuel	Biomass	Total
1970	14.2	17.7	0.1	(6)	—	—	9.1
1971	18.2	18.0	0.9	(6)	—	—	10
1972	18.9	21.8	1.6	1.6	—	—	16
1973	20.9	23.4	3.3	0.2	—	—	35
1974	27.2	34.2	10.6	0.4	—	—	110
1975	30.6	46.8	18.2	8.4	—	—	116
1976	35.8	68.5	11.3	0.6	—	—	116
1977	45.1	104.1	12.0	0.3	—	—	125
1978	60.6	107.9	4.1	0.4	—	—	4.3
1979	72.1	129.1	13.7	0.5	—	—	142
1980	112.6	142.9	4.1	8.2	—	—	223
1981	135.7	158.9	1.6	5.5	—	—	70
1982	174.7	147.2	5.0	6.5	—	—	115
1983	218.7	159.1	3.9	3.0	—	—	68
1984	234.5	108.4	2.6	1.3	—	—	3.9
1985	290.3	39.1	0.9	1.4	—	—	2.4
1986	271.3	69.5	0.4	0.9	—	—	1.4
1987	313.5	44.8	0.4	1.4	—	—	1.6
1988	311.3	46.2	0.5	1.3	—	—	1.6
1989	344.7	60.3	0.6	1.4	—	—	2.0
1990	382.1	50.2	0.8	1.3	—	—	2.0
1991	320.6	46.5	0.3	1.3	—	—	2.0
1992	352.1	44.7	(6)	2.1	—	—	2.1
1993	357.6	61.8	(6)	2.1	—	—	2.1
1994	389.8	64.0	(6)	1.3	—	—	1.9

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
 —No consumption
 (6)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data source, estimation procedures, and assumptions are described in Appendix A.

Table 203. Energy Price and Expenditure Estimates by Source, 1970-1994, New York

Year	Primary Energy														Electricity Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum						Nuclear Fuel	Renewables	Total ^e				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b				Total			
Prices in Nominal Dollars per Million Btu																	
1970	6.58	0.49	0.51	1.07	1.24	0.72	2.24	2.82	8.43	1.51	1.36	0.20	—	1.17	0.42	6.72	1.87
1971	0.71	0.57	0.61	1.18	1.26	0.75	2.25	3.02	0.55	1.67	1.45	0.23	—	1.28	0.50	7.52	2.03
1972	0.77	0.64	0.61	1.29	1.28	0.89	2.29	3.15	0.81	1.61	1.61	0.26	—	1.37	0.59	8.05	2.18
1973	0.84	0.54	0.66	1.34	1.50	0.95	2.98	3.35	0.78	1.81	1.69	0.26	—	1.51	0.70	8.74	2.40
1974	1.89	1.09	1.30	1.64	2.51	1.59	3.70	4.58	1.97	2.58	2.80	0.33	—	2.39	1.58	12.49	3.61
1975	2.14	1.27	1.53	2.15	2.86	2.02	3.98	4.80	1.93	2.97	2.95	0.31	—	2.68	1.83	14.04	4.11
1976	2.11	1.23	1.57	2.47	2.81	2.20	4.20	4.97	1.90	3.11	3.06	0.35	—	2.71	1.48	14.47	4.21
1977	2.13	1.27	1.53	2.80	3.22	2.52	4.77	5.24	2.19	3.27	3.35	0.35	—	2.89	1.59	15.50	4.65
1978	2.34	1.36	1.82	3.25	3.43	2.89	4.96	5.34	2.05	3.49	3.45	0.36	—	3.09	1.51	15.60	4.90
1979	2.32	1.48	1.89	3.51	4.82	3.85	5.74	7.41	2.91	4.82	4.88	0.47	1.56	4.10	2.05	17.06	6.22
1980	2.38	1.58	1.79	4.18	6.76	5.27	7.43	18.26	4.10	4.88	6.93	0.58	1.74	5.45	2.68	19.64	8.88
1981	2.56	1.61	1.99	4.67	6.59	7.40	8.02	11.22	4.99	4.89	8.33	0.58	1.54	6.36	3.27	24.93	9.95
1982	2.73	1.94	2.07	5.45	8.38	7.02	8.81	10.45	4.40	4.77	7.89	0.50	1.28	6.30	3.20	26.63	10.22
1983	2.15	1.67	1.80	8.38	8.94	9.38	9.17	4.52	4.77	7.79	7.47	0.58	1.12	6.20	3.09	27.42	10.81
1984	2.02	1.86	1.86	8.10	8.19	8.87	9.23	8.71	4.84	7.58	7.35	0.54	1.28	5.99	2.85	27.10	10.45
1985	1.88	1.80	1.87	8.84	8.81	8.51	11.40	8.79	4.39	7.38	7.28	0.67	—	5.88	2.84	26.97	10.37
1986	1.78	1.71	1.72	6.65	6.14	4.42	10.50	6.60	2.61	5.03	6.34	0.81	—	4.74	1.79	26.07	9.05
1987	1.69	1.82	1.81	5.06	6.04	4.55	10.13	6.96	3.10	5.96	6.67	0.63	0.95	4.74	2.01	25.66	9.00
1988	1.61	1.82	1.82	6.08	6.03	4.15	10.01	7.18	2.82	6.54	6.59	0.67	—	4.65	1.80	25.09	8.88
1989	1.67	1.82	1.83	6.38	6.58	4.70	11.02	7.82	2.99	6.13	6.00	0.65	—	4.96	2.06	26.08	9.72
1990	1.71	1.86	1.88	6.25	6.13	8.03	12.76	8.63	3.64	4.43	7.10	0.86	0.28	4.48	2.20	27.51	10.60
1991	1.72	1.84	1.85	6.18	7.91	5.18	13.64	9.44	2.73	5.52	7.11	0.55	2.30	5.31	1.74	28.68	10.68
1992	1.73	1.84	1.86	6.48	7.48	4.84	12.06	9.28	2.71	5.23	7.13	0.46	2.31	5.42	1.65	28.86	10.84
1993	1.73	1.84	1.86	6.00	7.24	4.47	12.14	9.04	2.69	5.21	7.03	0.57	2.31	5.54	1.52	31.43	10.82
1994	1.73	1.80	1.83	6.18	7.32	4.14	11.68	9.12	2.77	5.25	7.18	0.53	2.29	5.80	1.44	32.00	11.03
Expenditures in Million Nominal Dollars																	
1970	96.4	212.0	308.4	771.3	803.3	153.5	37.2	2,086.3	406.7	280.3	3,811.8	9.2	—	4,700.7	-335.3	2,006.4	6,371.7
1971	82.6	182.6	265.1	844.7	848.2	167.4	37.5	2,171.3	643.2	2,152.3	3,982.9	18.9	—	5,108.8	-420.9	2,311.5	6,999.5
1972	85.0	132.3	217.3	903.1	887.7	204.0	40.8	2,329.4	616.1	2,228.8	4,306.0	19.4	—	5,445.6	-603.5	2,570.6	7,519.9
1973	129.1	116.0	245.1	940.5	1,050.5	232.7	51.9	2,667.2	524.8	2,322.0	4,989.0	19.9	—	5,194.5	-408.2	2,977.9	8,584.2
1974	246.7	240.0	486.7	1,045.3	1,603.8	339.2	59.7	3,233.0	1,875.8	3,352.5	7,489.0	39.9	—	9,034.8	-1,334.9	4,101.0	11,800.9
1975	197.8	279.3	477.1	1,256.2	1,626.9	441.7	78.3	3,385.8	1,780.1	3,771.7	7,893.7	44.9	—	8,366.9	-1,328.8	4,593.0	12,648.1
1976	292.9	277.3	570.2	1,482.2	1,886.9	479.8	84.1	3,747.8	1,808.6	4,111.6	8,417.9	61.3	—	10,531.7	-1,289.4	4,840.8	14,063.1
1977	217.8	287.5	515.0	1,636.3	2,164.1	557.7	93.2	3,882.5	2,138.0	4,411.3	9,276.7	80.2	—	11,506.9	-1,602.5	5,347.1	15,352.0
1978	176.6	306.6	483.2	1,861.7	2,268.8	628.7	99.9	4,063.3	1,920.6	4,848.6	9,474.7	91.7	—	11,911.3	-1,428.2	5,499.6	16,872.7
1979	203.6	330.3	533.9	2,210.1	2,526.3	779.4	111.7	5,337.7	2,321.3	5,691.7	11,888.1	94.6	1.1	14,506.1	-1,778.0	6,053.8	18,829.8
1980	187.8	361.9	549.7	3,887.1	2,862.3	1,275.3	138.0	8,885.7	2,694.1	7,985.4	14,981.7	118.3	0.2	16,666.6	-2,427.3	7,844.4	23,263.2
1981	189.5	415.8	605.3	3,583.3	3,201.2	1,074.5	150.5	7,549.5	2,353.3	6,882.8	15,891.0	108.0	(8)	20,187.5	-2,681.5	9,109.2	29,415.3
1982	139.4	483.3	622.7	4,285.4	3,021.1	1,893.3	154.1	7,129.7	2,712.2	7,373.3	13,943.9	98.7	0.1	18,922.8	-2,676.2	9,677.3	28,223.9
1983	81.8	446.1	527.9	4,085.6	2,869.6	1,461.1	155.0	8,127.7	2,139.1	7,54.4	12,002.0	100.8	0.2	17,375.5	-2,616.7	10,265.3	24,925.1
1984	73.3	480.3	553.5	4,913.5	2,824.9	1,477.7	168.0	6,179.6	2,221.9	7,719.1	11,281.3	147.6	0.1	18,886.0	-2,656.9	10,348.9	24,577.3
1985	83.8	487.5	571.3	4,637.2	2,846.8	1,398.8	262.3	6,299.5	1,827.8	8,147.3	12,239.1	175.2	—	17,897.6	-2,326.5	10,389.9	25,636.9
1986	58.1	377.4	435.5	4,219.2	2,524.7	91.9	188.4	4,740.2	1,308.1	6,556.6	8,507.9	148.3	—	14,302.7	-1,559.8	10,220.2	22,064.2
1987	61.6	411.9	473.5	3,890.8	2,568.1	72.5	202.4	5,234.5	1,486.6	6,855.6	10,236.2	154.6	(6)	14,887.0	-1,917.7	10,328.0	23,277.3
1988	72.6	436.9	509.5	4,090.8	2,850.4	113.5	190.2	5,018.8	1,388.8	7,057.7	10,077.5	149.5	—	14,855.8	-1,992.7	10,706.5	23,689.6
1989	74.1	515.8	589.7	4,627.0	2,841.0	158.9	224.2	5,490.2	1,590.5	6,402.8	11,035.5	159.1	—	15,411.4	-2,308.0	11,352.9	25,461.1
1990	82.2	512.7	594.9	4,814.1	3,148.5	183.5	255.9	5,419.2	1,796.9	6,843.4	12,480.5	164.7	104.2	17,888.5	-2,593.8	12,087.5	27,582.4
1991	56.6	510.4	567.0	4,830.3	2,836.8	153.0	352.7	5,544.3	1,184.1	6,658.4	11,809.4	162.4	113.0	17,289.1	-1,848.0	12,863.0	28,106.1
1992	53.4	472.0	525.4	5,385.3	2,883.6	144.6	332.4	5,204.2	877.4	6,486.5	11,160.6	117.2	114.7	17,283.2	-1,508.3	13,089.9	28,884.6
1993	57.7	421.7	479.4	5,788.8	2,894.1	129.2	268.7	5,252.5	812.7	6,777.7	11,134.0	163.8	121.9	17,885.5	-1,381.7	13,981.1	30,267.9
1994	61.7	383.0	444.8	5,388.0	2,886.5	133.8	289.1	6,147.9	704.9	6,763.3	10,817.5	164.8	120.4	17,982.2	-1,202.3	14,320.3	31,041.2

^a Liquefied petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used as electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of facilities beginning in 1990^e Revised data

—No consumption, including cases where adjustments were made See explanation of adjustments in Section 7 of Appendix A

Appendix A

(8)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 20-4. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, New York

Year	Primary Energy						Electricity ^b	Total ^c	Electricity	Total Energy ^d
	Coal	Natural Gas	Petroleum			Total				
			Distillate Fuel	Kerosene	LPG ^a					
Prices in Nominal Dollars per Million Btu										
1970	1.43	1.57	1.49	1.56	2.79	1.48	—	1.49	4.89	2.19
1971	1.83	1.47	1.51	1.69	2.70	1.55	—	1.52	9.49	2.37
1972	1.43	1.56	1.52	1.65	2.72	1.59	—	1.57	10.05	2.49
1973	1.49	1.69	1.73	2.02	3.73	1.81	—	1.75	10.98	2.83
1974	2.04	1.96	2.89	3.04	4.34	2.73	—	2.36	14.95	3.83
1975	2.79	2.59	2.81	3.29	4.49	2.89	—	2.79	16.44	4.49
1976	2.80	2.85	2.97	3.43	4.81	3.05	—	2.95	18.97	4.91
1977	3.04	3.25	3.37	3.86	5.33	3.49	—	3.26	19.40	5.29
1978	3.00	3.83	3.81	4.09	5.77	3.70	—	3.85	19.97	5.54
1979	3.09	4.87	5.13	5.56	7.26	5.22	—	4.60	20.93	6.99
1980	3.25	4.85	7.99	8.49	9.12	7.22	—	5.89	23.99	8.42
1981	3.67	5.41	8.89	10.85	9.95	9.00	—	6.79	28.96	10.23
1982	3.86	6.39	8.69	10.91	10.23	8.87	—	7.25	30.79	10.94
1983	3.99	7.67	8.41	9.89	10.55	8.59	—	7.97	32.08	12.10
1984	3.74	7.45	8.66	9.85	10.03	8.77	—	7.69	31.17	11.86
1985	3.69	7.54	8.96	9.89	11.12	8.99	—	7.81	31.84	11.99
1986	3.39	7.29	8.63	7.91	9.98	7.84	—	7.14	30.86	11.11
1987	3.27	6.69	8.29	7.12	9.94	6.83	—	6.63	30.81	10.72
1988	3.29	6.32	6.47	7.21	9.53	6.71	—	6.46	30.67	10.59
1989	3.36	7.01	7.18	8.00	11.54	7.51	—	7.18	32.03	11.52
1990	3.59	7.79	9.44	9.49	13.84	8.82	2.83	477.81	29.54	477.81
1991	3.44	7.16	8.35	8.30	14.69	8.85	2.83	477.69	35.09	477.69
1992	3.21	7.37	7.71	8.59	14.43	8.36	2.83	477.43	36.43	477.43
1993	3.25	7.62	7.51	8.39	13.35	8.02	2.83	477.69	38.51	477.69
1994	3.29	8.82	7.24	8.07	12.81	7.77	2.83	7.97	38.72	13.40
Expenditures in Million Nominal Dollars										
1970	13.9	494.8	594.4	49.4	28.3	679.2	—	1,079.5	799.9	1,944.5
1971	15.4	527.1	521.8	54.6	28.2	695.5	—	1,148.0	894.2	2,012.2
1972	9.3	597.3	544.0	98.9	32.9	692.8	—	1,229.4	962.8	2,192.2
1973	9.4	699.6	629.3	55.5	43.3	728.4	—	1,334.3	1,105.7	2,440.0
1974	11.9	692.1	983.1	73.2	46.7	1,012.0	—	1,705.0	1,441.6	3,147.6
1975	14.2	898.2	914.6	99.4	51.2	1,955.4	—	1,879.9	1,619.5	3,499.4
1976	12.0	975.6	1,063.7	99.7	59.6	1,822.1	—	2,209.7	1,705.8	3,915.3
1977	14.2	1,069.3	1,214.9	95.8	64.9	1,965.0	—	2,447.5	1,999.1	4,316.6
1978	14.7	1,219.6	1,299.9	81.1	65.0	1,445.9	—	2,677.8	1,999.1	4,615.3
1979	11.5	1,291.0	1,399.4	61.8	69.4	1,499.6	—	2,762.1	2,159.7	4,918.9
1980	13.7	1,494.8	1,594.6	82.9	84.1	1,781.6	—	3,299.8	2,499.8	5,799.6
1981	25.6	1,652.6	1,613.4	92.9	95.6	2,902.0	—	3,575.2	3,895.5	6,819.7
1982	27.1	2,235.6	1,682.3	113.8	92.5	1,896.4	—	4,071.3	3,214.7	7,286.0
1983	18.3	2,535.1	1,439.8	82.2	113.4	1,635.4	—	4,186.3	3,491.5	7,688.3
1984	25.8	2,579.8	1,521.3	59.6	107.0	1,997.9	—	4,286.3	3,492.1	7,777.4
1985	17.7	2,478.1	1,666.7	99.7	139.2	1,896.7	—	4,394.8	3,599.6	7,999.2
1986	17.1	2,511.7	1,365.5	65.3	119.6	1,896.9	—	4,086.6	3,596.3	7,682.9
1987	14.6	2,300.6	1,347.9	129.7	136.2	1,612.8	—	3,926.2	3,709.9	7,636.0
1988	11.6	2,322.2	1,373.0	170.2	129.4	1,672.6	—	4,006.4	3,929.1	7,935.5
1989	12.0	2,633.2	1,455.7	125.7	167.1	1,748.6	—	4,399.8	4,140.1	8,539.9
1990	13.5	2,591.3	1,383.9	94.1	201.8	1,999.9	279.7	4,194.8	4,140.1	8,334.9
1991	11.2	2,490.9	1,218.4	190.9	269.3	1,593.4	84.9	4,178.5	4,890.1	8,968.6
1992	10.2	2,870.5	1,257.2	61.9	259.7	1,577.8	88.3	4,548.8	4,812.9	9,361.7
1993	9.5	3,131.4	1,256.2	74.2	269.8	1,626.0	94.5	4,771.4	5,256.1	10,027.4
1994	7.2	3,372.3	1,129.1	63.9	202.8	1,395.6	92.7	4,997.7	5,495.2	10,392.9

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of blocks beginning in 1990.

Adjusted data.

—No consumption.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 205. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, New York

Year	Primary Energy								Electricity	Total Energy ^b	
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.48	1.17	1.14	0.75	1.45	2.92	0.42	0.67	0.00	7.00	1.99
1971	0.58	1.24	1.21	0.79	1.42	3.02	0.53	0.78	0.01	8.92	2.36
1972	0.52	1.28	1.21	0.78	1.39	3.15	0.61	0.85	0.07	9.52	2.60
1973	0.52	1.33	1.42	0.95	1.46	3.26	0.78	1.03	1.11	10.41	2.97
1974	1.09	1.55	2.34	2.26	2.45	4.58	1.36	2.16	1.07	15.22	4.70
1975	1.36	1.97	2.48	2.81	3.09	4.89	1.80	2.79	2.11	18.57	5.43
1976	1.35	2.32	2.84	2.54	3.16	4.87	1.85	2.20	2.23	17.38	5.39
1977	1.96	2.82	3.08	2.90	3.85	5.24	2.15	2.55	2.61	18.68	6.02
1978	1.46	3.02	3.22	3.07	3.83	5.34	1.98	2.62	2.85	18.24	6.07
1979	1.58	3.45	4.65	4.11	4.31	7.41	3.00	3.74	3.61	19.67	7.79
1980	1.87	4.17	6.48	5.86	5.79	10.28	4.18	5.89	4.78	23.21	8.27
1981	1.88	4.05	6.26	7.00	6.05	11.22	6.05	6.66	5.59	24.35	12.64
1982	2.01	5.37	7.95	7.50	7.28	10.45	4.60	8.09	5.65	31.03	12.70
1983	1.96	6.31	R7.11	7.25	7.55	9.17	4.49	R5.92	R6.05	39.00	R14.45
1984	1.87	6.10	R7.23	7.18	8.10	8.71	5.03	R6.03	R5.99	31.04	R13.69
1985	1.81	5.95	R6.79	R6.78	11.85	6.79	4.64	R5.77	R5.79	30.86	R13.85
1986	1.74	5.61	R4.88	R4.49	11.62	6.80	2.92	R5.96	R4.62	28.62	R12.00
1987	1.78	5.02	R4.90	R5.05	11.29	6.89	3.22	R4.19	R4.48	27.06	R11.84
1988	1.70	5.24	R4.75	R4.66	11.21	7.16	2.67	R3.76	R4.44	27.13	R11.68
1989	1.75	5.40	R5.28	R5.17	9.73	7.62	3.12	R4.36	R4.65	27.99	R12.28
1990	1.76	5.89	R6.84	R7.39	10.33	8.83	3.78	R5.18	R5.24	28.44	R13.08
1991	1.74	5.33	R8.01	R6.11	11.08	9.44	2.83	R4.36	R4.63	30.31	R13.17
1992	1.74	5.59	R5.47	R6.04	9.60	9.28	2.80	R4.26	R4.95	31.48	R13.33
1993	1.67	5.99	R5.29	R5.53	9.92	R9.04	2.80	R4.57	R5.06	32.87	R13.74
1994	1.67	6.34	5.45	5.63	10.40	9.12	3.06	4.16	5.52	32.98	14.23
Expenditures in Million Nominal Dollars											
1970	3.2	168.0	136.6	2.0	2.7	16.1	113.8	279.8	488.9	885.0	1,395.0
1971	3.4	184.0	141.4	2.9	2.7	17.3	131.5	296.2	483.7	1,056.3	1,540.0
1972	2.5	181.8	147.1	3.0	3.0	19.9	145.8	318.7	513.0	1,189.8	1,702.8
1973	2.5	195.5	174.1	2.9	3.0	19.6	180.5	380.2	558.2	1,378.8	1,967.1
1974	6.2	218.7	288.6	8.2	4.6	25.6	420.4	724.6	946.5	1,897.9	2,844.4
1975	6.2	298.7	273.8	9.8	6.2	29.3	348.7	858.8	919.0	2,137.8	3,066.8
1976	4.3	337.2	320.6	8.3	6.7	20.4	383.0	758.0	1,089.5	2,286.9	3,965.4
1977	5.2	373.7	373.4	7.2	8.9	30.3	481.0	900.2	1,279.0	2,457.0	3,736.1
1978	7.4	436.5	382.9	6.5	7.8	31.8	596.1	837.5	1,281.4	2,480.6	3,749.0
1979	5.8	502.2	407.7	5.1	7.2	45.4	420.7	886.0	1,394.0	2,672.2	4,066.2
1980	7.8	898.4	848.7	6.4	9.4	85.7	888.1	1,295.4	1,882.8	3,212.0	5,194.8
1981	11.3	791.9	801.8	6.3	10.4	67.4	437.2	1,123.0	1,928.3	4,271.9	6,198.2
1982	16.6	908.5	828.9	8.5	11.6	57.4	543.0	1,250.3	2,170.3	4,534.0	6,704.8
1983	10.2	1,047.5	R483.9	59.0	14.9	47.0	361.2	R250.4	R2,017.1	4,974.9	R6,892.0
1984	12.2	1,065.1	R515.1	17.8	15.2	49.1	537.2	R1,134.4	R2,211.7	5,086.1	R7,297.8
1985	16.4	1,018.8	R488.3	R32.7	26.6	88.3	488.6	R1,306.5	R2,121.6	5,160.7	R7,282.9
1986	11.1	966.2	R468.4	R5.8	24.5	64.3	367.0	R930.0	R1,937.2	5,127.6	R7,035.0
1987	8.8	864.3	R422.3	R9.1	28.0	50.2	384.0	R893.6	R1,788.7	5,031.0	R6,797.6
1988	7.3	1,013.5	R407.0	R5.5	28.9	41.6	306.3	R785.2	R1,807.0	5,159.2	R6,969.2
1989	7.2	1,103.7	R475.8	R15.2	24.9	55.4	311.4	R882.8	R1,983.5	5,347.1	R7,380.6
1990	6.3	1,098.9	R484.2	R11.3	27.0	55.4	418.2	R1,808.9	R2,188.2	5,664.8	R7,765.0
1991	6.4	R1,091.8	R440.4	R7.4	35.7	35.5	384.0	R829.0	R1,927.2	5,573.4	R7,800.8
1992	6.3	1,249.0	R443.2	R13.9	30.2	33.2	299.8	R910.3	R2,085.7	6,064.9	R8,130.6
1993	4.8	R1,359.7	R465.7	R19.3	25.5	R9.4	317.8	R937.7	R2,201.9	R6,485.4	R8,887.3
1994	4.1	1,453.4	437.8	17.2	28.2	8.8	316.1	809.0	2,268.5	6,682.1	8,948.6

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R-Revised data.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 206. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, New York

Year	Primary Energy																Total Energy ^c	
	Coal			Petroleum										Total ^e	Quantity			
	Coking Coal	Steam Coal	Total	Medium Gas	Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b						
Prices in Nominal Dollars per Million Btu																		
1970	0.88	0.49	0.53	8.68	0.70	8.79	0.73	1.45	5.98	2.82	0.49	1.17	0.61	—	—	8.98	4.61	0.67
1971	0.71	0.56	0.64	0.76	0.70	0.75	0.79	1.42	5.27	3.02	0.65	1.18	0.63	—	—	0.81	3.96	1.15
1972	0.77	0.62	0.68	0.84	0.60	0.74	0.78	1.39	5.58	3.15	0.62	1.16	0.64	—	—	0.85	4.16	1.23
1973	0.84	0.52	0.75	0.89	0.60	0.81	0.86	1.40	5.33	3.35	0.77	1.30	0.72	—	—	0.93	4.43	1.34
1974	1.59	1.09	1.47	1.09	1.00	1.19	2.20	2.46	7.22	4.56	1.05	2.12	2.12	—	—	1.76	6.74	2.39
1975	2.14	1.38	3.42	1.47	1.84	2.35	2.81	3.89	7.49	4.90	2.01	2.87	2.85	—	—	2.09	7.87	2.85
1976	2.11	1.35	3.46	1.61	1.83	2.43	2.84	3.16	7.05	4.97	2.00	2.81	2.86	—	—	2.09	7.89	2.82
1977	2.12	1.36	3.48	1.80	2.05	2.79	2.90	3.85	8.97	5.24	2.26	3.03	2.89	—	—	2.33	8.97	3.24
1978	2.34	1.46	3.85	2.24	2.22	2.94	3.07	5.93	7.60	5.34	2.28	3.17	3.50	—	—	2.53	9.25	3.54
1979	2.32	1.56	3.88	2.43	2.87	3.02	3.07	6.91	10.21	7.41	2.31	4.46	3.60	—	—	3.07	10.42	4.18
1979	2.32	1.56	3.88	2.43	2.87	3.02	3.07	6.91	10.21	7.41	2.31	4.46	3.60	—	—	3.07	10.42	4.18
1980	2.36	1.87	4.23	2.80	3.87	3.58	5.06	8.79	14.30	7.41	2.78	7.86	4.28	—	—	3.96	12.19	5.29
1981	2.58	1.89	4.47	3.89	5.08	4.59	7.00	6.05	16.00	11.22	4.43	8.44	7.35	—	—	4.81	15.55	6.03
1982	2.66	2.01	4.74	4.87	4.06	4.89	7.50	7.28	17.25	10.46	4.45	8.11	6.31	—	—	4.81	16.43	6.31
1983	2.73	2.15	5.02	5.54	4.22	4.82	7.25	7.55	16.96	8.17	4.40	8.40	6.58	—	—	4.97	16.98	7.83
1984	2.02	1.87	3.92	5.22	4.52	4.81	7.18	8.10	17.53	8.71	5.03	8.40	6.37	—	—	4.78	16.41	7.23
1985	1.46	1.91	3.08	4.15	4.81	4.12	6.23	11.82	15.10	8.70	4.84	6.17	6.17	—	—	4.77	18.36	7.81
1986	1.76	1.74	3.76	4.78	4.34	4.12	6.23	11.82	15.10	8.70	4.84	6.17	6.17	—	—	3.85	14.43	5.23
1987	1.59	1.76	3.10	4.16	3.73	4.04	6.06	11.20	12.70	6.80	3.22	5.76	4.85	—	—	4.37	14.74	5.38
1988	1.81	1.70	3.10	4.58	3.10	4.27	5.17	9.73	14.61	7.18	2.67	5.45	4.95	—	—	4.31	14.47	4.80
1989	1.87	1.71	3.10	4.58	2.81	4.74	5.17	9.73	14.61	7.18	2.67	5.45	4.95	—	—	4.31	14.47	4.80
1990	1.71	1.76	3.74	4.72	2.86	4.74	5.17	10.33	14.80	8.48	2.75	6.05	5.50	—	—	4.39	16.52	5.76
1991	1.72	1.74	3.74	4.72	2.78	4.60	5.11	11.09	16.70	8.44	2.83	6.46	6.04	—	—	4.39	16.07	5.76
1992	1.73	1.74	3.74	4.79	2.80	4.60	5.11	9.50	16.43	8.29	2.83	6.46	6.04	—	—	4.39	16.05	5.76
1993	1.73	1.97	3.08	5.08	2.81	4.60	5.11	9.32	16.84	8.04	2.83	6.46	6.04	—	—	4.39	16.05	5.76
1994	1.73	1.97	3.08	5.08	2.74	4.60	5.11	9.32	16.84	8.04	2.83	6.46	6.04	—	—	4.39	16.05	5.76

Prices in Nominal Dollars per Million Btu

Expenditures in million nominal dollars

Year	Primary Energy										Petroleum										Total	Quantity	Total Energy ^c				
	Coal			Natural Gas	Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total	Duties ^d	Total ^e	Quantity	Total Energy ^c										
	Caking Coal	Steam Coal	Total																								
1970	94.4	59.1	164.5	69.8	26.0	66.8	3.2	5.8	38.6	80.3	184.2	48.5	336.7	—	—	—	—	—	—	—	—	—	—	594.2			
1971	82.6	59.0	141.5	69.8	30.1	72.9	5.4	4.9	38.6	80.3	124.8	48.5	371.8	—	—	—	—	—	—	—	—	—	—	694.3			
1972	85.0	44.0	129.0	66.7	30.2	77.2	4.8	4.2	41.7	69.1	144.8	52.6	383.7	—	—	—	—	—	—	—	—	—	—	694.3			
1973	129.1	31.7	160.8	112.9	40.2	97.4	3.9	4.5	36.8	49.1	144.8	81.6	433.3	—	—	—	—	—	—	—	—	—	—	1,185.8			
1974	187.8	58.8	246.6	120.5	72.8	211.7	0.7	8.0	46.6	49.8	200.8	101.2	792.8	—	—	—	—	—	—	—	—	—	—	1,694.5			
1975	262.8	46.3	309.1	150.6	68.9	246.0	14.6	11.4	48.9	34.4	276.8	116.3	797.2	—	—	—	—	—	—	—	—	—	—	1,961.1			
1976	207.8	44.6	252.4	163.7	70.8	246.0	18.0	17.0	47.4	35.2	276.8	119.8	897.0	—	—	—	—	—	—	—	—	—	—	2,208.9			
1977	217.8	89.5	307.3	188.4	78.0	286.0	22.7	17.5	43.4	47.8	380.5	158.4	1,082.1	—	—	—	—	—	—	—	—	—	—	2,489.4			
1978	178.8	89.4	268.2	239.1	86.7	311.4	28.3	24.8	50.3	57.8	432.8	181.4	1,082.1	—	—	—	—	—	—	—	—	—	—	2,580.0			
1979	253.8	109.3	363.1	289.4	96.7	403.4	33.5	34.3	50.3	57.8	432.8	241.1	1,359.8	—	—	—	—	—	—	—	—	—	—	3,066.1			
1980	187.8	90.6	278.4	289.4	96.7	403.4	33.5	34.3	50.3	57.8	432.8	241.1	1,359.8	—	—	—	—	—	—	—	—	—	—	3,066.1			
1981	187.8	90.6	278.4	289.4	96.7	403.4	33.5	34.3	50.3	57.8	432.8	241.1	1,359.8	—	—	—	—	—	—	—	—	—	—	3,066.1			
1982	187.8	90.6	278.4	289.4	96.7	403.4	33.5	34.3	50.3	57.8	432.8	241.1	1,359.8	—	—	—	—	—	—	—	—	—	—	3,066.1			
1983	187.8	90.6	278.4	289.4	96.7	403.4	33.5	34.3	50.3	57.8	432.8	241.1	1,359.8	—	—	—	—	—	—	—	—	—	—	3,066.1			
1984	187.8	90.6	278.4	289.4	96.7	403.4	33.5	34.3	50.3	57.8	432.8	241.1	1,359.8	—	—	—	—	—	—	—	—	—	—	3,066.1			

^a Liquid petroleum gases

^b Other is the other petroleum products category described in Appendix A

^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy

^d There is a discrepancy in the time series between 1980 and 1980 data for the expanded coverage of non-electric utility use of biomass beginning in 1980

^a No consumption, including cases where adjustments were made See explanation of adjustments in Section 7 of Appendix A

^b Appendix A

^c Note: Expenditure totals may not equal sum of components due to independent rounding

^d Sources: Data from the Statistical Service, and assumptions are described in Appendix A

a. Liquefied petroleum gases

b. "Other" is the "other petroleum products" category described in Appendix A

c. These are the direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy

Table 207. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, New York

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	8.46	—	2.17	1.44	0.72	1.45	5.08	2.32	8.37	2.12	2.12	4.82	2.14
1971	0.56	—	2.21	1.45	0.75	1.42	5.27	3.02	0.47	2.22	2.22	5.50	2.24
1972	0.52	—	2.19	1.41	0.75	1.30	5.58	3.18	0.54	2.36	2.36	6.30	2.38
1973	0.62	—	2.36	1.75	0.89	1.46	5.33	3.35	0.70	2.53	2.53	7.38	2.58
1974	1.09	—	3.23	2.70	1.54	2.48	7.22	4.56	1.76	3.67	3.67	12.40	3.73
1975	1.36	—	3.45	2.84	2.01	3.09	7.48	4.80	1.87	3.98	3.98	13.85	4.02
1976	1.35	—	3.59	3.03	2.16	3.18	7.05	4.87	1.70	4.15	4.15	13.84	4.22
1977	1.36	—	3.97	3.47	2.51	3.85	6.87	5.24	1.94	4.43	4.43	11.43	4.48
1978	—	—	4.29	3.87	2.88	3.88	7.60	5.34	1.74	4.82	4.82	13.42	4.87
1979	—	—	5.73	5.24	3.85	4.31	10.21	7.41	2.68	6.27	6.27	15.25	6.33
1980	—	—	9.82	7.45	6.27	6.79	14.38	10.26	3.53	8.82	8.82	15.02	8.88
1981	—	—	10.84	9.45	7.49	8.05	18.00	11.22	4.40	10.05	10.05	17.29	10.10
1982	—	—	10.92	8.98	7.02	7.28	17.25	10.45	4.18	9.75	9.75	21.60	8.85
1983	—	—	10.44	8.88	^R 6.94	7.55	16.98	9.17	4.23	^R 9.07	^R 9.07	22.58	^R 6.20
1984	—	—	10.27	8.82	^R 6.87	8.10	17.63	8.71	4.55	^R 8.67	^R 8.67	20.47	^R 6.80
1985	—	—	8.89	8.48	6.81	11.88	17.41	8.79	4.88	8.74	8.74	19.88	8.84
1986	—	—	8.41	8.59	4.42	11.82	15.59	8.50	2.27	8.56	8.56	19.51	8.58
1987	—	—	7.85	8.74	4.55	11.29	12.70	8.89	2.84	8.69	8.69	22.99	7.03
1988	—	—	7.41	8.78	4.15	11.21	14.51	7.18	2.18	8.98	8.98	21.39	7.10
1989	—	—	8.26	7.36	4.70	9.73	14.46	7.82	2.63	7.67	7.67	22.65	7.81
1990	—	4.57	8.22	8.89	4.09	18.33	14.80	8.83	3.13	8.75	8.75	23.32	8.88
1991	—	4.58	8.71	9.08	5.19	11.09	16.79	9.44	2.38	9.10	9.10	23.19	9.22
1992	—	5.32	8.54	8.89	4.84	9.50	19.43	9.28	2.33	8.95	8.95	26.59	9.10
1993	—	4.33	8.24	9.04	4.47	9.32	18.84	^R 9.04	2.29	^R 8.80	^R 8.80	28.79	^R 8.95
1994	—	3.54	7.96	9.25	4.14	8.82	19.18	9.12	2.40	8.87	8.87	27.27	9.08

Expenditures in Million Nominal Dollars													
1970	0.2	—	2.7	86.5	186.5	8.5	98.9	1,939.4	49.0	2,287.6	2,267.9	31.3	2,299.1
1971	0.1	—	2.4	87.8	187.4	0.7	94.8	2,105.1	54.7	2,453.0	2,453.1	34.9	2,488.0
1972	0.1	—	2.0	85.1	189.6	0.8	99.5	2,252.6	50.8	2,599.3	2,599.4	40.2	2,639.6
1973	0.1	—	1.9	121.6	205.2	0.8	33.9	2,488.4	74.7	2,926.8	2,926.8	44.4	2,971.3
1974	0.1	—	3.5	171.2	313.3	1.4	44.0	3,157.8	138.7	3,829.6	3,829.7	80.2	3,910.0
1975	(a)	—	4.8	173.7	423.1	1.4	43.1	3,384.8	83.8	4,043.7	4,043.8	86.9	4,130.7
1976	(a)	—	4.6	211.3	455.6	1.6	45.1	3,682.9	93.5	4,494.9	4,494.9	87.8	4,582.7
1977	(a)	—	5.5	241.1	541.9	2.5	45.0	3,803.2	92.5	4,731.6	4,731.6	82.1	4,813.7
1978	—	—	6.0	248.0	619.7	2.6	52.6	3,973.8	87.6	4,969.3	4,969.3	80.1	5,049.4
1979	—	—	9.0	386.3	789.7	1.8	74.0	5,244.7	203.6	6,689.1	6,689.1	103.6	6,792.7
1980	—	—	14.6	447.8	1,274.8	1.7	82.7	6,727.2	261.7	8,669.9	8,669.9	195.8	8,865.8
1981	—	—	14.9	519.8	1,074.4	3.5	111.4	7,336.2	324.8	9,384.8	9,384.8	123.4	9,508.3
1982	—	—	10.9	527.5	1,080.6	3.7	97.3	7,014.9	294.5	8,137.8	8,137.8	151.2	8,289.0
1983	—	—	11.8	518.8	^R 1,481.1	4.6	100.4	6,040.8	55.9	^R 6,879.4	^R 6,879.4	160.4	^R 7,039.8
1984	—	—	9.8	556.0	^R 1,477.7	6.1	111.1	6,102.7	58.9	^R 6,000.4	^R 6,000.4	157.8	^R 6,158.1
1985	—	—	11.1	668.3	1,380.0	6.3	103.4	8,154.4	22.7	7,106.6	7,106.6	150.3	7,256.9
1986	—	—	10.9	589.4	91.9	4.5	89.5	4,632.6	21.9	5,446.3	5,446.3	152.3	5,598.6
1987	—	—	4.8	658.1	72.8	3.6	82.5	5,137.1	36.9	5,897.8	5,897.8	170.8	6,068.7
1988	—	—	3.9	728.4	113.6	6.0	81.5	4,924.1	42.0	5,908.5	5,908.5	169.7	6,078.2
1989	—	—	3.7	809.0	159.9	5.5	53.0	5,387.9	8.8	5,446.7	5,446.7	182.8	5,629.5
1990	—	(a)	3.6	1,170.4	183.5	5.7	86.5	6,311.0	27.1	7,798.2	7,798.2	190.2	7,988.4
1991	—	0.1	2.9	1,047.4	159.0	5.3	89.3	6,534.4	59.3	7,922.5	^R 7,922.5	183.8	^R 8,106.4
1992	—	(a)	3.2	1,051.1	144.6	5.0	117.1	6,206.9	64.6	7,882.5	7,882.5	198.1	^R 7,778.6
1993	—	0.1	2.5	1,138.2	128.2	4.8	116.2	^R 6,198.5	48.9	^R 7,832.8	^R 7,832.8	^R 197.7	^R 7,830.5
1994	—	0.2	4.0	1,206.5	133.8	8.8	123.0	6,086.8	47.7	7,810.5	7,810.5	207.0	7,817.5

^a Liquefied petroleum gases^R Revisited data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)=Value less than 0.05 million nominal dollars

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 208. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, New York

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biofuels	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.47	0.38	0.42	0.44	—	0.42	0.20	—	0.42
1971	0.53	0.43	0.54	0.56	—	0.54	0.23	—	0.50
1972	0.52	0.46	0.62	0.66	—	0.66	0.26	—	0.58
1973	0.50	0.50	0.80	1.13	—	0.83	0.25	—	0.70
1974	1.08	0.59	2.03	2.26	0.27	2.04	0.33	—	1.58
1975	1.16	0.86	1.84	2.38	—	1.85	0.31	—	1.53
1976	1.13	1.07	1.31	2.26	—	1.53	0.35	—	1.48
1977	1.17	1.41	2.19	2.75	—	2.21	0.36	—	1.58
1978	1.29	1.49	2.08	2.72	—	2.04	0.39	—	1.51
1979	1.36	2.29	2.98	4.04	—	2.98	0.47	1.56	2.05
1980	1.47	2.87	4.28	6.63	—	4.28	0.88	1.74	2.88
1981	1.71	3.49	5.10	7.13	—	5.12	0.56	1.24	3.27
1982	1.83	3.91	4.69	7.06	—	4.71	0.60	1.28	3.20
1983	1.78	3.08	4.54	6.43	—	4.56	0.58	1.12	3.08
1984	1.80	3.39	4.78	6.44	—	4.79	0.64	1.28	2.86
1985	1.72	3.48	4.28	6.11	—	4.28	0.67	—	2.54
1986	1.65	2.24	2.47	3.81	—	2.50	0.61	—	1.79
1987	1.54	2.44	3.06	4.25	—	3.08	0.83	0.85	2.01
1988	1.58	2.24	2.49	3.97	—	2.53	0.57	—	1.80
1989	1.57	2.35	2.95	4.48	—	3.03	0.65	—	2.06
1990	1.61	2.38	3.48	6.34	—	3.68	0.68	—	2.28
1991	1.59	2.23	2.72	5.30	—	2.76	0.55	—	1.74
1992	1.49	2.41	2.63	4.95	—	2.68	0.45	—	1.65
1993	1.50	2.65	2.56	4.89	—	2.61	0.57	1.40	1.82
1994	1.45	2.24	2.50	4.05	—	2.57	0.53	2.46	1.44
Expenditures in Million Nominal Dollars									
1970	127.6	48.9	149.8	8.1	—	187.7	9.2	—	335.3
1971	104.5	43.7	232.1	24.3	—	256.5	16.3	—	420.9
1972	76.4	36.4	303.6	69.7	—	373.4	18.4	—	503.5
1973	72.3	35.7	414.9	65.4	—	480.3	19.9	—	606.2
1974	165.9	27.0	1,019.3	91.2	0.6	1,108.1	33.9	—	1,394.9
1975	173.3	12.2	1,029.8	96.8	—	1,086.4	44.9	—	1,328.8
1976	185.3	5.8	989.4	65.3	—	1,055.9	61.3	—	1,289.4
1977	189.6	5.9	1,173.1	84.6	—	1,227.8	80.2	—	1,502.5
1978	195.0	1.9	1,113.4	26.2	—	1,139.6	91.7	—	1,428.2
1979	209.7	178.9	1,294.3	29.2	—	1,263.5	94.8	1.1	1,778.0
1980	233.4	343.4	1,796.8	28.5	—	1,731.5	118.3	0.2	2,427.3
1981	270.5	470.3	1,995.1	37.7	—	2,032.7	105.8	(4)	2,881.5
1982	302.5	614.9	1,635.7	28.9	—	1,662.5	96.7	0.1	2,676.2
1983	299.3	658.8	1,637.3	22.6	—	1,659.8	100.8	0.2	2,615.7
1984	331.6	699.3	1,447.9	30.3	—	1,478.4	147.6	0.1	2,656.9
1985	337.3	422.1	1,156.8	29.2	—	1,185.7	176.2	—	2,328.5
1986	284.2	300.9	806.5	29.9	—	836.4	148.3	—	1,558.8
1987	308.9	435.8	882.7	35.7	—	1,018.3	164.6	(6)	1,917.7
1988	309.5	342.3	962.6	50.9	—	1,032.6	148.3	—	1,892.7
1989	409.6	440.2	1,199.2	94.9	—	1,294.1	159.1	—	2,303.0
1990	414.1	649.3	1,218.0	37.5	—	1,255.5	184.7	—	2,383.8
1991	408.8	486.2	735.4	27.3	—	765.7	166.4	—	1,848.0
1992	384.8	518.9	478.7	12.1	—	496.7	117.2	—	1,500.3
1993	396.1	489.0	377.1	15.5	—	392.6	163.8	0.2	1,561.7
1994	315.9	420.8	279.7	22.2	—	300.8	164.5	0.3	1,202.3

^a These are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.

—No consumption.

(e)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 209. Energy Price and Expenditure Estimates by Source, 1970-1994, North Carolina

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^d
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Hydro Total ^c				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																	
1970	—	0.43	0.43	0.69	1.13	0.73	1.89	2.82	0.46	\$1.34	1.94	—	—	1.29	0.41	4.17	2.02
1971	—	0.47	0.47	0.74	1.16	0.76	1.83	2.96	0.60	\$1.41	2.02	—	—	1.28	0.48	4.47	2.16
1972	—	0.46	0.46	0.81	1.19	0.78	1.83	2.86	0.83	\$1.48	1.96	—	—	1.29	0.45	4.76	2.24
1973	—	0.50	0.50	0.87	1.48	0.90	2.46	3.14	0.82	\$1.82	2.18	—	—	1.40	0.49	5.04	2.47
1974	—	1.10	1.10	1.07	2.90	1.66	3.82	4.17	1.77	\$2.84	3.29	—	—	2.21	1.12	6.58	3.52
1975	—	1.12	1.12	1.57	2.74	2.05	3.24	4.65	1.80	\$2.99	3.68	0.29	—	2.47	1.05	7.93	4.11
1976	—	1.12	1.12	1.88	2.93	2.17	3.40	4.83	1.92	\$3.08	3.81	0.32	—	2.54	1.07	9.03	4.42
1977	—	1.26	1.26	2.70	3.28	2.55	3.89	4.95	2.21	\$3.30	3.99	0.47	—	2.74	1.18	9.32	4.62
1978	—	1.41	1.41	2.68	3.49	2.83	4.14	5.12	2.08	\$3.67	4.22	0.43	—	2.89	1.22	10.18	5.15
1979	—	1.47	1.47	2.91	4.79	3.96	4.74	6.85	2.70	\$4.75	6.62	0.37	—	3.59	1.33	10.48	5.67
1980	—	1.58	1.58	3.55	6.89	6.46	6.11	9.81	3.72	\$7.88	8.15	0.36	—	4.63	1.48	11.73	6.82
1981	—	1.74	1.74	4.59	8.35	7.61	7.25	11.05	4.76	\$9.87	9.63	0.37	—	5.23	1.62	13.33	7.98
1982	—	1.89	1.89	4.85	8.18	7.18	7.49	10.52	4.36	\$9.78	9.31	0.41	—	5.10	1.68	15.58	8.71
1983	—	1.86	1.86	5.50	\$7.83	\$6.40	6.09	9.18	4.37	\$7.63	\$8.23	0.44	—	\$4.79	1.62	16.13	\$9.28
1984	—	1.95	1.95	5.59	\$7.51	\$6.17	6.43	8.93	4.05	\$7.87	\$8.08	0.56	—	\$4.69	1.55	15.85	\$9.39
1985	—	1.97	1.97	5.28	\$7.35	\$5.77	6.72	8.83	4.45	\$8.81	\$8.17	0.54	—	\$4.79	1.58	17.46	\$9.83
1986	—	1.85	1.85	4.77	\$6.70	3.85	6.02	6.88	2.72	\$6.05	6.12	0.53	—	\$3.70	1.46	16.16	\$9.30
1987	—	1.70	1.70	4.68	\$6.50	3.96	6.71	7.59	2.64	\$5.83	6.49	0.56	—	\$3.68	1.39	16.06	\$9.64
1988	—	1.77	1.77	4.46	\$6.67	3.71	6.76	7.86	2.34	\$5.81	6.35	0.59	—	3.63	1.30	16.03	\$9.52
1989	—	1.77	1.77	4.68	\$6.34	4.30	6.82	8.10	2.70	\$6.01	7.12	0.55	—	4.05	1.31	16.33	9.19
1990	—	1.79	1.79	4.19	\$7.98	8.85	10.21	9.44	3.11	\$6.30	\$6.43	0.54	\$1.72	\$4.68	1.39	16.74	\$9.83
1991	—	1.77	1.77	4.09	\$7.55	4.79	11.09	9.23	2.37	\$6.05	\$6.17	0.52	1.81	\$4.35	1.27	16.98	\$9.60
1992	—	1.73	1.73	4.29	\$7.25	4.48	10.16	8.86	2.46	\$5.80	\$7.79	0.51	1.82	\$4.33	1.35	19.33	\$9.62
1993	—	1.71	1.71	4.29	\$7.07	4.19	9.66	\$8.88	2.36	\$5.78	\$7.85	0.48	1.82	\$4.25	1.34	19.44	\$9.67
1994	—	1.69	1.69	4.85	6.97	3.67	8.93	8.67	2.46	5.57	7.55	0.49	1.80	4.19	1.21	19.42	8.85
Expenditures in Billion Nominal Dollars																	
1970	—	216.3	216.3	102.8	146.3	16.7	38.1	838.7	13.7	\$136.5	1,281.9	—	—	1,518.8	190.7	578.2	1,808.4
1971	—	228.8	228.8	117.6	148.3	19.8	37.0	918.2	39.3	\$147.1	1,309.7	—	—	1,658.2	216.1	664.8	2,104.6
1972	—	225.7	225.7	130.8	199.3	17.2	42.9	892.8	52.7	\$144.6	1,409.5	—	—	1,788.0	224.8	758.9	2,300.1
1973	—	264.9	264.9	138.1	214.0	19.3	55.4	1,087.7	61.3	\$151.0	1,586.7	—	—	1,901.7	264.7	887.2	2,614.2
1974	—	574.4	574.4	148.7	339.0	33.2	83.1	1,454.6	152.9	\$198.8	2,281.7	—	—	2,984.8	574.2	1,145.4	3,556.0
1975	—	533.2	533.2	178.1	338.9	42.3	77.5	1,594.1	92.9	\$203.2	2,264.1	4.4	—	3,068.8	473.6	1,283.1	3,980.4
1976	—	810.0	810.0	187.7	412.5	44.1	88.5	1,778.0	154.1	\$230.1	2,707.3	9.0	—	3,514.0	676.5	1,619.7	4,557.2
1977	—	890.8	890.8	193.2	519.5	57.2	93.4	1,891.4	202.1	\$273.9	3,027.4	28.8	—	3,940.2	975.7	1,887.3	5,131.7
1978	—	706.6	706.6	208.9	499.8	57.4	117.1	2,022.5	160.7	\$250.4	3,158.6	46.8	—	4,119.1	705.2	2,080.6	5,494.4
1979	—	822.6	822.6	373.8	811.5	84.1	137.3	2,598.2	201.7	\$328.4	4,172.1	27.3	—	5,396.4	796.9	2,195.0	6,953.6
1980	—	885.6	885.6	829.3	955.5	185.3	179.1	3,448.8	211.1	\$443.4	5,823.4	22.9	—	6,961.2	987.2	2,553.8	8,947.8
1981	—	1,141.3	1,141.3	878.9	1,032.7	223.6	199.0	3,860.4	188.2	\$467.8	5,951.7	25.5	—	7,797.3	1,105.9	2,971.2	9,683.3
1982	—	1,173.9	1,173.9	887.6	955.2	226.2	185.9	3,640.6	129.1	\$400.5	5,639.3	41.5	—	7,422.4	1,140.2	3,288.7	9,570.8
1983	—	1,120.0	1,120.0	743.4	\$1,081.0	\$227.7	204.2	3,241.6	159.4	\$376.9	5,290.8	88.8	—	\$7,213.0	1,105.9	3,645.0	\$9,782.0
1984	—	1,087.9	1,087.9	708.7	\$1,140.1	\$219.0	209.3	3,290.3	241.0	\$425.2	5,512.0	127.6	—	\$7,626.1	1,127.3	4,130.4	\$10,520.2
1985	—	1,084.5	1,084.5	708.5	\$1,064.4	\$213.6	264.4	3,362.0	174.3	\$500.8	5,838.6	111.8	—	\$7,841.4	1,087.2	4,305.3	\$10,746.5
1986	—	1,077.4	1,077.4	644.6	\$917.5	\$152.9	239.4	2,801.7	108.4	\$488.1	4,506.0	115.7	—	\$8,343.7	1,079.1	4,767.8	\$10,982.4
1987	—	894.0	894.0	677.9	\$959.0	\$171.2	278.8	2,847.9	100.7	\$419.6	4,674.0	171.2	—	\$8,017.1	980.0	5,051.7	\$10,708.8
1988	—	912.8	912.8	652.9	\$1,042.0	\$172.1	245.8	3,015.6	76.7	\$480.3	5,012.6	183.3	—	\$8,771.6	986.4	5,229.3	\$11,010.5
1989	—	982.3	982.3	718.6	\$997.9	\$194.0	294.8	3,306.4	80.3	\$423.2	5,288.6	173.4	—	\$7,161.1	1,086.0	5,479.4	\$11,582.6
1990	—	948.7	948.7	688.5	\$1,164.6	\$174.2	321.7	3,823.8	801.3	\$411.8	5,867.3	160.4	\$46.7	\$7,780.7	487.8	5,715.3	\$12,541.5
1991	—	925.6	925.6	675.7	\$1,053.1	\$163.3	413.1	3,734.7	91.1	\$417.7	5,825.9	169.8	58.6	\$7,822.8	902.1	5,873.0	\$12,633.4
1992	—	1,038.0	1,038.0	788.6	\$1,087.1	\$116.4	408.4	3,635.6	116.6	\$437.5	5,801.6	122.8	55.9	\$7,786.9	1,043.7	6,213.0	\$12,968.3
1993	—	1,052.1	1,052.1	891.0	\$1,080.8	\$114.2	409.2	\$3,710.6	119.3	\$443.3	5,887.1	123.0	58.0	\$8,068.3	1,119.0	6,819.0	\$13,557.0
1994	—	879.6	879.6	814.9	1,150.5	\$85.0	409.4	3,802.2	99.1	429.4	5,886.7	169.1	88.3	8,109.7	1,043.4	6,811.0	13,677.3

^a Liquidated petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used as electricity), and the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of hydroelectric beginning in 1990.

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 210. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, North Carolina

Year	Primary Energy							Electricity	Total Energy ^c
	Coal	Natural Gas	Petroleum			Total ^d	Total ^e		
			Distillate Fuel	Kerosene	LPG ^a				
Prices in Nominal Dollars per Million Btu									
1970	1.14	1.27	1.31	1.40	2.28	1.48	—	1.48	2.41
1971	0.96	1.31	1.37	1.45	2.18	1.49	—	1.44	2.62
1972	1.22	1.38	1.38	1.48	2.40	1.53	—	1.49	2.62
1973	1.35	1.47	1.59	1.77	3.67	1.86	—	1.78	3.29
1974	2.50	1.65	2.54	2.73	5.91	2.96	—	2.63	4.58
1975	2.06	1.99	2.71	2.99	4.22	2.97	—	2.69	5.15
1976	2.17	2.10	2.93	3.20	4.80	3.22	—	2.98	5.67
1977	2.79	2.76	3.28	3.61	5.22	3.53	—	3.34	6.93
1978	2.64	2.94	3.51	3.86	5.95	3.96	—	3.56	6.92
1979	2.44	3.44	4.84	5.23	7.06	5.05	—	4.57	7.75
1980	2.79	4.09	6.95	7.96	7.87	7.39	—	6.15	9.92
1981	3.32	5.11	8.64	10.02	8.98	8.93	—	7.40	11.61
1982	2.90	5.55	8.38	10.00	9.78	9.01	—	7.66	12.99
1983	2.78	6.44	7.98	8.92	10.09	8.58	—	7.67	13.63
1984	2.97	6.45	7.93	8.62	10.43	8.57	—	7.69	13.60
1985	2.75	6.38	8.02	8.79	10.27	8.68	—	7.88	14.96
1986	2.60	6.41	8.35	8.91	9.44	7.13	—	6.81	14.25
1987	2.69	6.46	5.30	5.77	9.20	6.27	—	6.29	14.07
1988	2.63	6.07	5.54	6.03	8.81	6.32	—	6.17	13.99
1989	2.67	6.35	6.38	6.92	9.83	7.45	—	6.97	15.02
1990	2.78	5.99	7.05	8.65	13.22	9.22	NA 13.53	NA 7.38	NA 19.44
1991	2.68	6.05	7.48	8.14	11.67	9.21	NA 8.83	NA 7.41	NA 15.57
1992	2.95	6.38	7.06	7.68	10.39	8.44	NA 9.53	NA 7.14	NA 15.30
1993	2.79	6.75	7.07	7.70	11.03	8.72	NA 9.63	NA 7.40	NA 15.57
1994	2.73	7.05	6.01	6.64	10.38	7.98	NA 9.53	NA 7.13	NA 15.57
Expenditures in Millions Nominal Dollars									
1970	4.1	35.6	98.9	79.6	25.9	171.8	—	291.3	466.3
1971	3.0	40.7	86.0	79.6	24.0	168.8	—	212.3	528.2
1972	3.6	48.5	72.0	88.1	28.0	165.1	—	218.2	573.5
1973	4.5	42.8	82.5	89.2	35.7	187.4	—	234.7	646.2
1974	8.1	45.3	111.1	84.1	50.6	245.9	—	299.4	809.0
1975	6.3	55.6	114.6	82.3	36.8	232.8	—	294.6	887.8
1976	5.2	71.9	136.7	96.0	42.8	277.6	—	354.7	1,094.2
1977	5.5	80.8	183.3	100.7	45.3	309.3	—	406.6	1,239.6
1978	5.1	106.2	151.6	98.9	54.7	303.2	—	413.6	1,340.1
1979	3.1	113.4	254.9	92.2	68.2	419.2	—	532.7	1,502.4
1980	3.9	199.4	285.2	124.8	88.2	498.4	—	633.6	1,789.6
1981	3.9	171.0	277.5	110.2	98.0	475.6	—	650.5	2,006.2
1982	3.9	181.0	239.7	114.9	96.9	443.5	—	629.3	2,143.7
1983	3.1	207.9	259.6	81.4	106.3	430.2	—	641.2	2,313.4
1984	3.1	216.4	264.3	83.2	118.7	448.2	—	665.7	2,463.5
1985	4.7	189.1	228.0	187.7	118.2	643.9	—	737.7	2,814.2
1986	3.5	209.0	184.1	130.1	109.3	423.5	—	639.9	2,769.3
1987	3.9	229.1	176.6	105.0	120.5	410.9	—	653.9	2,875.1
1988	4.5	299.9	185.0	139.4	115.6	440.0	—	684.4	3,060.4
1989	3.9	253.2	173.1	118.1	171.1	482.3	—	719.4	3,230.4
1990	3.8	218.8	184.8	69.8	179.8	467.4	NA 21.3	NA 648.7	NA 3,247.7
1991	2.2	237.0	139.0	77.3	201.9	418.7	NA 22.4	NA 680.4	NA 3,413.4
1992	4.7	281.1	144.0	79.0	200.5	424.4	NA 23.8	NA 733.8	NA 3,553.8
1993	6.4	329.3	182.5	82.4	220.8	455.7	NA 25.7	NA 816.3	NA 3,902.3
1994	6.3	346.4	114.1	48.5	209.7	372.3	NA 25.2	NA 750.2	NA 3,791.2

^a Liquid petroleum gases^b Commercial sector prices and expenditures for wood and waste are included in the residential sector^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of liquids beginning in 1990

NA Revised data

—No consumption

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 211. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, North Carolina

Year	Primary Energy								Total	Electricity	Total Energy ^b
	Coal	Natural Gas	Petroleum								
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.53	0.94	1.02	0.77	1.41	2.82	0.67	1.23	0.98	4.80	2.51
1971	0.60	0.96	1.06	0.79	1.41	2.98	0.72	1.27	1.02	4.92	2.68
1972	0.57	1.06	1.06	0.79	1.42	2.98	0.57	1.24	1.06	5.27	2.96
1973	0.60	1.11	1.22	0.90	1.54	3.14	0.60	1.40	1.15	5.52	3.26
1974	1.32	1.25	2.13	2.18	2.46	4.17	1.76	2.41	1.65	7.12	4.39
1975	1.53	1.71	2.34	2.37	2.67	4.08	1.79	2.68	2.01	8.48	5.16
1976	1.29	2.00	2.54	2.60	2.87	4.83	1.76	2.76	2.22	9.29	5.79
1977	1.43	2.69	2.69	2.98	3.27	4.95	2.12	3.08	2.89	9.95	6.85
1978	1.65	2.74	3.04	3.15	3.46	5.12	1.90	3.25	2.64	10.77	7.11
1979	1.64	3.03	4.31	4.05	3.55	6.95	2.95	4.41	3.50	11.24	7.46
1980	1.71	3.87	6.33	6.12	6.24	8.91	3.69	5.58	4.73	12.29	8.50
1981	1.86	4.66	7.65	7.22	6.42	11.05	4.83	6.45	5.50	14.03	10.33
1982	2.02	5.07	7.61	7.45	6.19	10.52	4.33	7.94	5.73	18.20	11.74
1983	1.70	5.62	R 6.44	6.05	6.59	9.16	4.44	R 8.77	R 6.10	16.92	R 11.72
1984	1.90	5.67	R 6.51	7.73	6.70	8.93	4.65	R 7.12	R 6.37	17.67	R 12.21
1985	1.88	5.65	R 6.19	R 7.56	9.33	9.08	4.48	R 5.72	R 6.91	18.18	R 12.68
1986	1.85	5.39	R 5.79	R 6.12	8.70	6.89	2.74	R 4.65	R 4.90	18.79	R 13.00
1987	1.75	5.05	R 4.11	R 5.23	8.32	7.33	2.85	R 5.05	R 4.90	18.45	R 12.56
1988	1.74	4.80	R 3.72	R 4.79	6.71	7.25	2.36	R 4.58	R 4.55	18.35	R 12.17
1989	1.71	4.94	R 4.31	R 5.89	7.90	8.10	2.75	R 5.33	R 4.98	18.44	R 12.63
1990	1.88	4.48	R 5.41	R 6.80	9.41	8.44	3.16	R 6.66	R 6.16	18.94	R 13.61
1991	1.71	4.39	R 4.93	R 6.20	10.59	9.20	2.42	R 6.38	4.95	19.11	13.80
1992	1.79	4.63	R 4.72	R 5.86	10.04	8.96	2.48	R 5.25	R 4.91	19.50	R 13.94
1993	1.73	5.32	R 4.51	R 5.66	8.27	R 8.56	2.35	R 5.18	R 5.05	19.41	R 13.98
1994	1.74	5.37	4.27	5.19	8.67	8.67	2.47	5.17	5.06	19.30	13.76
Expenditures in Million Nominal Dollars											
1970	3.5	26.7	10.1	1.0	2.8	6.8	0.8	29.9	44.3	162.2	195.5
1971	3.4	25.9	10.0	1.0	2.7	5.7	1.3	20.8	50.1	178.5	229.6
1972	3.1	25.9	10.9	0.9	2.9	5.9	1.3	21.8	50.8	207.8	258.1
1973	3.7	26.2	12.4	0.8	2.6	6.6	1.1	23.7	59.6	241.1	294.7
1974	7.9	26.9	18.3	1.6	3.7	8.7	3.1	36.4	70.2	300.8	371.0
1975	8.8	37.7	18.4	1.8	3.8	9.8	3.8	37.4	83.8	337.0	420.8
1976	5.8	40.9	23.9	1.9	4.2	10.9	4.2	44.9	91.5	389.6	481.1
1977	5.2	55.8	26.3	2.0	5.0	11.3	6.0	52.6	113.6	447.6	561.3
1978	6.0	58.0	25.8	1.9	6.2	12.0	4.1	50.1	112.8	501.0	614.0
1979	3.8	74.0	46.5	1.7	6.1	16.7	7.0	78.0	155.8	623.6	679.4
1980	4.5	97.1	61.7	4.1	6.7	41.1	11.7	128.3	230.1	597.4	827.5
1981	4.1	124.4	61.5	1.8	11.5	49.5	3.0	124.3	252.7	750.4	1,033.2
1982	5.0	130.4	38.8	1.4	9.9	38.1	5.0	83.2	228.6	871.2	1,099.8
1983	3.7	146.4	R 110.0	3.7	12.6	32.0	4.7	R 163.0	R 315.1	844.5	R 1,259.7
1984	3.6	159.0	R 114.1	1.8	13.5	71.5	7.0	R 207.9	R 370.5	1,101.0	R 1,471.4
1985	6.0	146.2	R 84.1	R 10.4	18.9	38.0	9.8	R 163.8	R 314.8	1,186.8	R 1,593.5
1986	4.6	141.7	R 53.4	R 5.0	17.8	22.6	4.1	R 103.0	R 249.3	1,337.2	R 1,586.5
1987	4.8	156.4	R 70.2	R 4.1	20.8	27.8	1.2	R 124.1	R 285.0	1,392.0	R 1,677.1
1988	5.8	160.4	R 65.9	R 7.0	20.1	26.1	4.2	R 124.3	R 290.4	1,447.0	R 1,737.4
1989	4.2	170.4	R 69.1	R 5.7	24.6	26.6	3.9	R 120.1	R 294.7	1,526.9	R 1,821.6
1990	4.8	144.8	R 61.1	3.8	26.7	38.5	4.5	R 132.9	R 282.3	1,648.0	R 1,931.3
1991	2.7	155.4	R 52.3	R 3.3	32.9	18.2	1.8	R 107.8	R 286.0	1,722.0	R 1,986.0
1992	5.7	R 174.4	R 45.0	R 1.5	34.5	15.2	1.8	R 98.1	R 276.2	1,791.0	R 2,069.3
1993	6.4	205.8	R 49.5	R 1.6	29.2	R 2.7	4.3	R 67.3	R 299.7	1,891.0	R 2,190.7
1994	7.4	216.5	45.9	10.0	31.7	3.8	4.2	98.2	322.1	1,928.0	2,250.1

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R-Revised data.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 212. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, North Carolina

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Electricity ^e	Total ^e		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	4.85	0.83	4.86	0.67	0.71	0.77	1.41	5.08	2.82	0.45	1.18	0.86	—	4.86	2.75	1.88
1971	—	0.60	0.80	0.82	0.72	0.73	0.79	1.41	5.27	2.98	0.59	1.24	0.90	—	0.74	2.91	1.13
1972	—	0.57	0.57	0.58	0.77	0.72	0.79	1.42	5.58	2.98	0.62	1.20	0.86	—	0.74	3.12	1.17
1973	—	0.60	0.60	0.60	0.81	0.83	0.90	1.54	5.33	3.14	0.63	1.34	1.00	—	0.83	3.39	1.33
1974	—	1.22	1.32	0.85	1.39	1.89	2.16	2.48	7.22	4.17	1.79	2.96	2.09	—	1.53	4.69	2.23
1975	—	1.63	1.83	1.34	1.89	2.19	2.37	2.67	7.49	4.86	1.92	2.54	2.31	—	1.91	6.38	2.99
1976	—	1.29	1.29	1.06	1.82	2.40	2.60	2.67	7.06	4.63	1.94	2.84	2.34	—	2.07	6.72	3.20
1977	—	1.43	1.43	2.22	1.98	2.73	2.98	3.27	6.87	4.96	2.21	3.10	2.59	—	2.40	7.24	3.61
1978	—	1.88	1.88	1.82	2.20	2.85	3.15	3.46	7.80	5.12	2.12	3.30	2.73	—	2.46	7.96	3.93
1979	—	1.84	1.84	2.62	2.59	3.79	4.05	3.95	10.21	6.95	2.88	4.64	3.40	—	2.94	8.19	4.19
1980	—	1.71	1.71	3.32	3.67	5.49	6.12	5.24	14.36	9.91	3.73	7.44	6.86	—	4.49	9.39	5.34
1981	—	1.88	1.88	4.39	4.79	6.52	7.22	6.42	18.80	11.05	4.61	7.85	6.45	—	4.85	10.24	6.20
1982	—	2.02	2.02	4.49	4.11	6.78	7.45	6.18	17.25	10.52	4.89	8.75	6.32	—	4.77	11.93	6.87
1983	—	1.79	1.79	6.01	4.89	8.70	8.85	6.59	16.36	9.18	4.37	7.87	6.86	—	4.74	12.24	6.76
1984	—	1.99	1.99	6.14	4.49	8.59	7.73	6.70	17.83	8.93	4.86	7.71	6.81	—	4.94	13.64	7.21
1985	—	1.99	1.99	4.76	4.84	8.38	7.59	6.33	17.81	9.83	4.86	7.23	6.34	—	4.84	13.83	7.29
1986	—	1.83	1.83	3.87	4.22	8.34	5.12	8.70	15.59	6.89	2.74	4.93	4.70	—	4.81	14.39	6.47
1987	—	1.75	1.75	3.65	3.23	8.43	6.23	6.32	12.70	7.33	2.86	6.11	4.38	—	4.76	13.80	6.40
1988	—	1.74	1.74	3.47	3.18	8.66	4.79	6.71	14.61	7.26	2.26	5.17	4.46	—	4.62	13.60	6.36
1989	—	1.71	1.71	3.33	2.89	8.83	5.05	7.90	14.46	6.10	2.75	6.06	4.88	—	4.86	13.03	6.62
1990	—	1.89	1.89	3.36	2.86	8.77	5.89	8.41	14.89	6.44	3.18	6.41	6.87	1.26	4.84	13.99	6.39
1991	—	1.71	1.71	3.14	3.09	8.26	6.20	10.89	16.79	9.23	2.42	6.29	6.21	1.36	4.53	14.12	6.29
1992	—	1.73	1.73	3.23	2.92	8.49	5.88	10.84	19.43	8.86	2.49	6.26	6.48	1.34	4.44	14.44	6.18
1993	—	1.73	1.73	3.61	2.89	8.81	5.58	8.27	18.94	8.69	2.36	4.86	4.53	1.33	4.50	14.37	6.28
1994	—	1.74	1.74	3.55	2.85	4.84	5.47	7.56	19.16	6.87	2.47	4.93	4.61	1.32	4.50	14.48	6.32
Expenditures in Million Nominal Dollars																	
1970	—	28.7	28.7	38.4	36.1	38.8	3.8	30.1	38.1	14.9	38.5	8.8	189.9	—	38.6	151.4	319.4
1971	—	26.3	26.3	41.9	36.0	19.5	5.8	9.8	12.3	15.4	32.3	12.2	125.4	—	192.6	170.3	363.0
1972	—	20.3	20.3	50.9	21.0	20.7	5.4	11.5	14.9	14.2	38.8	13.3	136.9	—	207.2	196.4	403.6
1973	—	21.9	21.9	65.1	24.9	23.7	3.0	16.4	16.3	14.9	36.5	14.8	149.7	—	239.7	234.5	471.1
1974	—	46.6	46.6	75.5	36.3	48.1	4.3	27.6	21.2	18.7	94.3	21.4	278.9	—	399.2	395.8	795.1
1975	—	63.2	63.2	94.8	38.4	64.6	10.9	38.8	26.2	18.7	85.1	25.6	287.9	—	425.7	452.8	878.6
1976	—	41.7	41.7	74.9	39.2	72.7	11.4	42.4	21.2	19.0	140.8	37.1	379.6	—	499.2	520.6	1,019.8
1977	—	51.1	51.1	86.7	48.8	87.2	21.7	41.4	24.1	15.4	190.3	47.3	494.1	—	561.9	585.5	1,167.4
1978	—	62.0	62.0	86.9	51.9	77.1	22.7	54.2	28.2	15.9	140.0	51.8	441.9	—	550.8	662.9	1,203.7
1979	—	65.7	65.7	184.5	60.8	166.2	11.2	81.0	39.7	19.3	188.2	72.8	658.3	—	808.5	701.6	1,510.1
1980	—	57.9	57.9	287.1	73.3	132.8	13.7	86.2	46.7	25.9	197.3	113.6	684.6	—	1,038.9	798.8	1,837.7
1981	—	79.3	79.3	379.3	66.7	124.9	15.2	96.3	59.9	26.3	154.3	130.9	678.3	—	1,136.9	863.1	1,999.0
1982	—	80.3	80.3	358.6	60.2	119.9	11.6	83.9	62.2	24.0	116.1	82.0	561.8	—	987.9	802.2	1,790.1
1983	—	83.9	83.9	388.3	67.2	115.1	9.5	78.2	53.5	18.6	153.8	81.4	607.8	—	1,076.9	1,029.2	2,106.1
1984	—	83.6	83.6	422.7	114.7	115.6	7.9	68.1	59.6	43.6	232.9	103.1	746.3	—	1,292.6	1,231.7	2,524.3
1985	—	186.1	186.1	387.2	113.3	128.8	12.1	86.8	63.8	38.8	203.8	88.8	728.9	—	1,199.2	1,299.8	2,499.1
1986	—	116.2	116.2	269.8	127.0	116.0	12.9	107.0	49.0	28.6	302.7	89.9	642.3	—	1,048.3	1,292.2	2,340.5
1987	—	110.3	110.3	278.7	96.3	97.9	8.3	123.5	44.3	31.6	88.0	101.1	691.1	—	980.1	1,338.5	2,318.6
1988	—	109.4	109.4	258.9	94.8	97.7	12.7	105.4	49.1	28.2	67.1	83.8	636.9	—	907.3	1,375.3	2,282.6
1989	—	108.5	108.5	289.3	72.3	99.7	6.9	94.6	49.8	35.6	68.4	106.2	630.6	—	902.3	1,441.5	2,343.9
1990	—	133.2	133.2	267.8	62.4	97.5	6.4	118.5	61.8	38.9	68.1	132.5	613.8	23.4	1,033.4	1,467.3	2,500.7
1991	—	116.3	116.3	275.0	79.2	91.2	6.0	171.7	53.3	41.7	79.9	133.9	654.9	33.2	1,079.3	1,516.0	2,595.3
1992	—	124.0	124.0	363.9	85.4	83.1	4.9	188.1	62.9	39.5	106.7	144.6	686.1	32.3	1,145.3	1,802.0	2,747.2
1993	—	107.6	107.6	345.2	89.9	85.9	5.1	154.6	62.4	39.5	109.5	128.7	675.7	33.3	1,161.9	1,842.0	2,803.9
1994	—	104.5	104.5	349.9	81.6	84.3	2.6	151.1	66.0	40.6	92.9	131.9	688.0	34.3	1,147.8	1,842.0	2,789.8

^a Liquefied petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.^e Revised data.

— No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 213. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, North Carolina

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
													Total
Prices in Nominal Dollars per Million Btu													
1970	0.63	—	2.17	1.26	0.73	1.41	5.88	2.82	0.27	2.52	2.82	—	2.82
1971	0.60	—	2.21	1.33	0.79	1.41	5.27	2.98	0.67	2.67	2.67	—	2.67
1972	0.57	—	2.18	1.37	0.76	1.42	5.56	2.96	0.52	2.71	2.71	—	2.71
1973	0.60	—	2.36	1.76	0.80	1.54	5.33	3.14	0.54	2.86	2.86	—	2.86
1974	1.32	—	3.23	2.94	1.56	2.46	7.22	4.17	1.61	3.90	3.90	—	3.90
1975	1.53	—	3.46	3.12	2.83	2.87	7.48	4.55	1.56	4.37	4.37	—	4.37
1976	1.29	—	3.68	3.32	2.17	2.67	7.05	4.83	1.83	4.53	4.53	—	4.53
1977	1.43	—	3.97	3.72	2.55	3.27	6.97	4.95	1.91	4.69	4.69	—	4.69
1978	—	—	4.29	3.86	2.53	3.46	7.80	6.12	1.53	4.86	4.86	—	4.86
1979	—	—	5.73	5.25	3.95	3.55	10.21	6.95	2.67	6.55	6.55	—	6.55
1980	—	—	8.88	7.34	6.46	5.34	14.36	9.81	3.43	9.38	9.38	—	9.38
1981	—	—	10.84	8.86	7.51	6.42	18.00	11.05	4.16	10.53	10.53	—	10.53
1982	—	—	10.92	8.57	7.18	6.18	17.25	10.52	3.98	10.09	10.09	—	10.09
1983	—	—	10.44	7.85	^a 6.40	6.58	16.98	9.16	4.17	9.51	9.51	—	9.51
1984	—	—	10.27	7.80	^a 6.17	6.70	17.83	8.89	4.47	8.80	8.80	—	8.80
1985	—	—	9.89	7.96	5.77	6.89	17.61	8.85	3.78	8.82	8.82	—	8.82
1986	—	—	8.41	6.25	3.85	8.70	15.69	8.69	1.89	8.46	8.46	—	8.46
1987	—	—	7.55	6.79	3.95	8.32	12.70	7.33	2.83	6.95	6.95	—	6.95
1988	—	—	7.41	6.41	3.71	8.71	14.41	7.28	2.07	6.84	6.84	—	6.84
1989	—	—	8.28	7.05	4.30	7.80	14.48	8.10	2.37	7.82	7.82	—	7.82
1990	—	4.43	8.32	8.75	5.85	9.41	14.88	8.44	2.88	8.19	8.19	—	8.19
1991	—	4.51	8.71	8.37	4.79	10.59	18.79	9.23	2.00	8.86	8.86	—	8.86
1992	—	4.91	8.54	6.04	4.48	10.54	19.43	8.36	2.19	8.59	8.59	—	8.59
1993	—	2.51	8.24	7.82	4.19	8.27	18.94	^a 8.68	2.04	^a 8.34	^a 8.34	—	^a 8.34
1994	—	4.29	7.95	7.83	3.87	7.97	19.18	8.67	2.20	8.35	8.35	—	8.35

Expenditures in Million Nominal Dollars													
1970	(b)	—	1.7	47.8	18.7	0.3	16.1	615.5	0.6	998.7	998.7	—	998.7
1971	(b)	—	2.2	47.3	19.3	0.4	16.9	697.1	0.5	985.0	985.0	—	985.0
1972	(b)	—	2.7	52.3	17.2	0.5	19.2	972.7	0.4	1,085.6	1,085.6	—	1,085.0
1973	(b)	—	3.4	92.5	19.3	0.6	18.6	1,087.1	0.6	1,202.1	1,202.1	—	1,202.1
1974	(b)	—	3.9	153.5	33.2	1.0	24.1	1,427.1	1.9	1,644.9	1,644.9	—	1,644.9
1975	(b)	—	3.8	148.2	42.9	1.1	22.6	1,578.5	2.6	1,792.1	1,792.1	—	1,792.1
1976	(b)	—	2.6	173.3	44.1	1.2	23.7	1,746.9	2.1	1,985.1	1,985.1	—	1,985.1
1977	(b)	—	4.6	217.1	57.2	1.6	26.0	1,854.7	1.4	2,163.4	2,163.4	—	2,163.4
1978	—	—	5.6	234.9	67.4	2.0	31.4	1,994.6	0.8	2,336.7	2,336.7	—	2,336.7
1979	—	—	6.9	400.3	94.1	1.9	44.1	2,583.2	2.2	3,111.8	3,111.8	—	3,111.8
1980	—	—	8.8	457.5	185.3	1.8	85.3	3,384.8	2.1	4,082.6	4,082.6	—	4,082.6
1981	—	—	14.7	548.3	223.6	3.3	86.5	3,785.6	11.0	4,652.9	4,652.9	—	4,652.9
1982	—	—	10.2	545.3	255.2	3.2	58.1	3,578.4	6.0	4,427.3	4,427.3	—	4,427.3
1983	—	—	9.9	580.3	^a 227.7	4.1	60.9	3,190.9	1.1	^a 4,073.9	^a 4,073.9	—	^a 4,073.9
1984	—	—	8.7	634.8	^a 218.0	6.0	66.3	3,165.3	1.2	^a 4,100.1	^a 4,100.1	—	^a 4,100.1
1985	—	—	8.8	687.8	218.6	6.2	61.7	3,282.5	2.3	4,192.7	4,192.7	—	4,192.7
1986	—	—	9.6	558.9	152.9	5.4	59.4	2,500.3	1.5	3,336.0	3,336.0	—	3,336.0
1987	—	—	8.3	605.5	171.2	3.8	49.2	2,888.9	11.8	3,738.0	3,738.0	—	3,738.0
1988	—	—	8.9	680.0	172.1	4.7	54.6	2,981.5	6.4	3,600.1	3,600.1	—	3,600.1
1989	—	—	9.5	653.0	184.0	4.5	55.5	3,284.2	10.0	4,082.7	4,082.7	—	4,082.7
1990	—	(b)	18.9	688.4	174.2	5.5	57.5	3,745.5	8.7	4,851.8	4,851.8	—	4,851.8
1991	—	(b)	7.5	760.4	116.3	7.1	59.2	3,574.9	9.4	4,834.7	4,834.7	—	4,834.7
1992	—	(b)	6.6	787.0	116.4	5.2	89.9	3,581.9	8.1	4,585.9	^a 4,586.0	—	^a 4,586.0
1993	—	(b)	4.9	782.3	114.2	4.8	80.3	^a 3,688.4	8.5	^a 4,880.1	^a 4,880.2	—	^a 4,880.2
1994	—	(b)	5.5	903.4	95.0	7.9	73.4	3,758.1	2.9	4,548.2	4,548.2	—	4,548.2

^a Liquefied petroleum gases.^b Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(b)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 214. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1870-1994, North Carolina

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
1870	0.41	0.37	0.68	0.83	—	0.78	—	—	8.43
1871	0.45	0.47	0.74	0.90	—	0.81	—	—	0.46
1872	0.44	0.48	0.86	0.85	—	0.87	—	—	0.45
1873	0.46	0.51	0.80	0.87	—	0.82	—	—	0.49
1874	1.07	0.82	1.77	2.30	—	1.83	—	—	1.12
1875	1.07	1.07	1.78	2.22	—	1.89	0.29	—	1.05
1876	1.10	3.36	1.79	2.44	—	1.96	0.32	—	1.07
1877	1.24	4.13	2.12	2.73	—	2.05	0.47	—	1.16
1878	1.38	3.01	1.91	2.80	—	2.19	0.43	—	1.22
1879	1.46	2.85	2.02	2.80	—	2.26	0.37	—	1.33
1879	1.46	2.85	2.02	2.80	—	2.26	0.37	—	1.33
1880	1.57	3.15	3.82	5.32	—	6.82	0.38	—	1.46
1881	1.79	4.48	7.37	7.05	—	7.05	0.37	—	1.62
1882	1.86	4.48	4.36	7.05	—	7.05	0.41	—	1.66
1883	1.88	4.70	5.18	5.18	—	5.39	0.44	—	1.62
1884	1.89	5.21	4.84	5.81	—	5.91	0.35	—	1.55
1885	1.86	4.75	—	6.06	—	6.06	0.34	—	1.59
1886	1.85	4.75	—	6.06	—	6.06	0.33	—	1.49
1887	1.79	3.09	—	3.91	—	3.91	0.59	—	1.29
1888	1.79	3.37	—	3.49	—	3.49	0.59	—	1.30
1889	1.77	3.45	—	3.49	—	3.49	0.55	—	1.31
1890	1.78	3.46	—	3.12	—	3.12	0.54	—	1.39
1891	1.76	3.49	—	4.74	—	4.74	0.82	—	1.27
1892	1.73	2.65	—	4.41	—	4.41	0.51	—	1.35
1893	1.70	2.62	—	4.05	—	4.05	0.46	—	1.34
1894	1.68	3.25	—	3.84	—	3.84	0.49	—	1.21

Expenditures in Million Nominal Dollars

1870	173.8	4.8	1.9	6.9	—	8.9	—	—	180.7
1871	186.1	10.0	0.1	4.9	—	10.0	—	—	216.1
1872	198.8	8.4	1.42	3.4	—	17.6	—	—	224.8
1873	234.7	4.0	2.9	2.9	—	25.9	—	—	264.7
1874	511.6	1.0	53.5	61.6	—	61.6	—	—	574.2
1875	466.1	0.1	2.6	1.2	—	3.9	—	—	473.8
1876	557.3	0.1	7.1	3.2	—	10.3	4.4	—	578.5
1877	628.9	0.1	4.4	13.0	—	18.0	28.8	—	675.7
1878	632.4	1.8	15.8	10.4	—	28.2	46.6	—	705.2
1879	749.8	4.2	4.3	3.5	—	7.8	27.3	—	798.5
1880	918.7	4.2	—	20.6	—	18.0	22.8	—	967.2
1881	1,005.0	0.4	—	13.6	—	20.6	25.5	—	1,105.3
1882	1,094.8	0.8	—	18.2	—	18.6	41.5	—	1,160.2
1883	1,030.2	0.7	—	11.6	—	11.6	58.6	—	1,105.9
1884	987.8	0.7	—	11.6	—	11.6	58.6	—	1,105.9
1885	487.8	2.9	—	14.7	—	14.7	127.5	—	1,087.2
1886	528.1	3.2	—	7.1	—	7.1	111.8	—	1,079.1
1887	773.2	3.7	—	9.9	—	9.9	171.2	—	880.0
1888	783.1	3.7	—	9.3	—	9.3	183.3	—	899.4
1889	985.7	6.0	—	12.9	—	12.9	173.4	—	1,099.0
1890	804.0	7.9	—	11.1	—	11.1	160.4	—	873.5
1891	804.4	8.3	—	9.9	—	9.9	169.8	—	992.1
1892	802.5	8.4	—	6.1	—	6.1	122.6	—	1,043.7
1893	876.5	10.6	—	6.3	—	6.3	123.0	—	1,118.3
1894	881.4	2.9	—	10.0	—	10.0	129.1	—	1,043.4

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or other thermal energy.

—No consumption.

(b) Values less than 0.05 million nominal dollars.

Note: Expenditure totals may not equal sum of components due to independent rounding. Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 215. Energy Price and Expenditure Estimates by Source, 1970-1994, North Dakota

Year	Primary Energy															Electricity Utility Fuel	Electricity Purchased by End-Users	Total Energy ^d
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biofuels	Total ^c				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total							
Prices in Nominal Dollars per Million Btu																		
1970	—	\$1.34	0.94	8.78	1.07	8.75	1.87	2.83	8.91	\$1.18	1.83	—	—	1.26	0.25	7.04	1.87	
1971	—	0.31	0.31	0.85	1.09	0.78	1.88	2.87	0.94	\$1.23	1.91	—	—	1.27	0.27	7.02	2.06	
1972	—	0.33	0.33	0.88	1.10	0.78	1.88	2.80	1.00	\$1.33	1.80	—	—	1.19	0.27	7.22	2.01	
1973	—	0.21	0.21	0.93	1.36	0.93	3.03	3.13	1.15	\$1.25	2.20	—	—	1.39	0.18	7.22	2.39	
1974	—	0.27	0.27	1.03	2.40	1.80	3.28	4.22	1.88	\$2.16	3.13	—	—	1.88	0.18	7.73	3.10	
1975	—	0.42	0.42	1.26	2.88	2.08	3.29	4.88	0.88	\$2.83	3.85	—	—	2.23	0.27	8.67	3.47	
1976	—	0.40	0.40	1.53	2.91	2.29	3.88	4.98	1.72	\$2.40	3.83	—	—	2.20	0.30	9.11	3.84	
1977	—	0.50	0.50	1.86	3.12	2.69	4.33	5.31	1.85	\$2.88	4.15	—	—	2.30	0.40	9.79	4.19	
1978	—	0.51	0.51	2.12	3.29	2.90	3.98	5.52	1.89	\$2.74	4.29	—	—	2.28	0.40	10.24	4.34	
1979	—	0.57	0.57	2.66	4.71	4.03	5.14	7.38	2.32	\$3.80	5.58	—	—	2.69	0.49	10.61	5.41	
1980	—	0.67	0.67	3.41	6.58	6.47	6.12	9.87	3.58	\$5.04	7.70	—	—	3.68	0.67	11.86	7.28	
1981	—	0.78	0.78	3.81	7.75	7.60	6.52	11.02	3.92	\$7.19	8.82	—	—	4.08	0.70	14.00	8.47	
1982	—	0.92	0.92	4.24	7.70	7.19	8.22	10.52	4.14	\$8.25	9.50	—	—	3.78	0.82	15.88	8.33	
1983	—	0.99	0.83	5.04	\$7.06	\$6.91	8.50	9.75	3.94	\$8.31	\$7.89	—	—	3.48	0.84	16.65	8.25	
1984	—	1.14	1.14	5.52	\$7.06	\$6.83	8.43	9.51	4.13	\$8.50	\$7.91	—	—	3.36	0.88	16.80	\$7.73	
1985	—	1.44	1.44	4.87	\$6.78	8.44	8.37	9.84	3.48	\$8.38	\$7.87	—	—	\$3.28	0.88	17.11	\$7.44	
1986	—	1.43	1.43	4.73	\$5.99	4.90	7.48	9.92	1.93	\$5.47	\$5.92	—	—	\$2.73	0.83	17.30	\$5.93	
1987	—	1.35	1.35	4.65	5.73	4.54	5.28	7.53	1.81	\$4.81	6.27	—	—	2.68	0.80	17.15	5.88	
1988	—	1.15	1.15	4.34	\$5.83	4.37	5.08	8.06	2.49	\$4.73	\$6.41	—	—	\$2.43	0.71	16.93	\$5.85	
1989	—	1.21	1.21	4.08	\$6.17	4.77	5.43	8.88	2.58	\$4.58	\$6.97	—	—	2.81	0.70	16.74	\$6.06	
1990	—	1.18	1.18	4.12	7.49	6.11	7.81	9.87	2.64	\$4.83	\$6.87	—	\$3.58	\$2.74	0.68	16.86	\$6.48	
1991	—	1.18	1.18	4.15	\$6.77	5.17	7.73	9.57	2.35	\$5.14	\$7.73	—	\$3.58	2.59	0.71	16.90	\$6.48	
1992	—	1.18	1.18	4.24	\$6.81	4.88	7.28	9.29	2.30	\$5.96	\$7.24	—	\$3.58	\$2.58	0.73	17.04	\$6.17	
1993	—	1.18	1.18	4.41	\$6.72	4.81	\$7.38	\$9.34	2.37	\$4.92	\$7.49	—	\$3.58	\$2.64	0.72	17.10	\$6.34	
1994	—	1.18	1.18	4.29	6.55	4.57	8.03	9.12	2.51	4.85	7.23	—	3.38	2.51	0.71	17.00	6.23	
Expenditures in Million Nominal Dollars																		
1970	—	18.6	18.6	14.8	38.8	6.3	12.1	136.2	3.2	\$16.3	301.2	—	—	236.5	-12.3	67.3	290.6	
1971	—	21.0	21.0	17.1	31.2	9.4	12.0	143.2	2.6	\$16.3	219.0	—	—	268.2	-16.8	71.2	310.8	
1972	—	23.9	23.9	21.2	39.5	9.8	12.9	130.7	4.1	\$16.0	206.8	—	—	280.8	-17.6	61.9	316.0	
1973	—	15.0	15.0	18.9	39.2	9.3	18.2	184.4	5.4	\$17.8	283.0	—	—	287.0	-10.7	89.5	386.8	
1974	—	20.6	20.6	24.7	61.8	19.9	19.4	213.6	10.8	\$27.8	348.7	—	—	394.9	-12.5	89.2	481.6	
1975	—	38.8	38.8	31.1	68.8	20.9	19.3	247.6	18.0	\$27.8	388.8	—	—	453.5	-15.8	185.9	646.7	
1976	—	36.5	36.5	38.1	89.1	22.0	23.7	273.1	9.8	\$27.9	425.4	—	—	500.0	-25.3	122.8	597.6	
1977	—	54.0	54.0	44.2	74.5	27.7	25.3	291.2	9.4	\$28.5	454.7	—	—	552.8	-39.3	140.1	653.6	
1978	—	65.7	65.7	56.5	81.0	28.8	28.3	312.4	8.4	\$32.2	491.3	—	—	613.5	-47.0	171.7	738.1	
1979	—	84.8	84.8	66.9	228.8	39.8	31.2	379.6	8.2	\$35.1	722.6	—	—	874.2	-67.9	186.7	966.3	
1980	—	110.2	110.2	77.8	312.6	69.7	29.0	480.1	13.6	\$43.4	938.4	—	—	1,128.3	-97.8	210.2	1,248.6	
1981	—	133.8	133.8	79.3	346.8	67.0	34.3	551.1	22.1	\$51.5	1,072.8	—	—	1,264.8	-115.6	263.8	1,432.9	
1982	—	182.7	182.7	104.8	325.0	61.8	32.0	516.2	25.2	\$48.0	1,004.8	—	—	1,292.3	-154.9	314.8	1,451.9	
1983	—	197.8	197.8	111.4	\$282.0	\$55.7	33.9	481.8	26.6	\$54.8	\$914.0	—	—	\$1,223.1	-170.9	327.2	\$1,379.4	
1984	—	232.2	232.2	143.3	\$308.4	\$62.8	10.9	443.2	15.3	\$58.8	\$998.5	—	—	\$1,332.0	-199.6	386.1	\$1,519.6	
1985	—	436.0	436.0	193.4	\$386.0	\$89.3	16.3	446.7	8.2	\$58.3	\$979.8	—	—	\$1,434.3	-203.4	487.8	\$1,638.4	
1986	—	444.2	444.2	103.3	\$519.2	43.5	46.4	311.7	3.1	\$41.4	\$685.3	—	—	\$1,212.9	-189.0	401.2	\$1,426.1	
1987	—	430.8	430.8	89.4	327.8	31.5	33.6	346.8	2.8	\$39.3	682.5	—	—	1,202.7	-189.0	383.2	\$1,409.2	
1988	—	424.0	424.0	108.4	\$521.9	31.0	29.5	363.7	4.0	\$40.7	\$800.8	—	—	\$1,218.2	-201.8	407.3	\$1,423.7	
1989	—	436.6	436.6	106.4	\$561.8	34.5	34.1	381.7	3.8	\$37.8	\$733.5	—	—	\$1,286.5	-189.4	400.6	\$1,506.7	
1990	—	443.8	443.8	96.8	\$591.8	38.8	35.3	428.1	4.0	\$37.8	\$877.8	—	\$1.8	\$1,372.5	-188.3	408.8	\$1,575.0	
1991	—	438.9	438.9	110.1	\$582.3	27.0	55.9	414.8	2.8	\$38.8	\$829.9	—	2.0	\$1,381.9	-209.5	415.8	\$1,588.2	
1992	—	472.6	472.6	109.6	\$570.6	32.1	46.5	401.9	2.7	\$47.4	\$808.2	—	2.1	\$1,380.8	-220.8	411.7	\$1,561.5	
1993	—	470.9	470.9	125.2	\$590.9	32.8	\$38.2	\$416.2	\$4.0	\$41.8	\$821.6	—	1.7	\$1,419.4	-220.3	430.6	\$1,629.7	
1994	—	473.8	473.8	120.4	318.0	21.1	31.2	402.1	3.5	48.8	624.4	—	1.7	1,420.4	-218.5	442.6	1,644.5	

^a Liquefied petroleum gases.^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.^e Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 216. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, North Dakota

Year	Primary Energy							Electricity	Total Energy ^a	
	Coal	Natural Gas	Petroleum			Biomass ^b	Total ^c			
			Distillate Fuel	Kerosene	LPG ^d					Total
Prices in Nominal Dollars per Million Btu										
1970	1.88	0.89	1.28	1.85	2.07	1.82	—	1.37	7.86	2.64
1971	2.02	1.87	1.36	1.83	2.03	1.67	—	1.42	7.82	2.89
1972	2.24	1.10	1.36	1.83	2.07	1.68	—	1.42	6.82	2.69
1973	1.40	1.12	1.58	1.92	3.58	2.52	—	1.86	8.06	3.28
1974	2.80	1.19	2.51	2.87	3.56	3.01	—	2.10	8.46	3.58
1975	3.80	1.81	2.56	2.89	3.51	3.82	—	2.25	9.18	3.86
1976	3.64	1.79	2.60	2.89	4.13	3.53	—	2.62	9.74	4.50
1977	1.83	2.11	3.28	3.40	4.72	4.14	—	2.86	10.48	5.06
1978	1.77	2.33	3.38	3.81	4.61	4.18	—	2.86	11.03	5.26
1979	1.81	2.86	4.83	—	8.22	5.15	—	3.96	11.50	5.91
1980	1.88	3.84	6.82	7.39	7.40	7.44	—	5.12	13.14	7.32
1981	1.17	4.10	8.30	9.94	7.54	8.10	—	5.82	15.12	8.65
1982	2.78	4.60	8.07	9.84	7.81	8.05	—	5.86	16.51	9.38
1983	2.17	5.33	7.80	8.23	7.82	7.83	—	6.11	17.91	10.07
1984	2.73	6.08	7.47	8.29	8.22	7.72	—	6.46	17.78	10.82
1985	1.74	5.28	7.49	8.89	8.46	7.57	—	6.87	18.03	10.18
1986	1.53	5.08	4.84	6.24	6.13	5.19	—	4.98	18.28	9.66
1987	1.45	6.22	5.34	6.77	6.13	5.28	—	5.14	18.44	10.00
1988	1.15	4.86	4.80	5.94	5.24	4.85	—	4.74	18.26	9.57
1989	1.13	4.46	5.56	6.80	7.32	6.20	—	5.08	18.01	9.57
1990	1.18	4.88	6.37	7.42	7.98	7.23	8.96	8.96	18.86	9.71
1991	1.45	4.61	6.39	8.09	7.60	6.68	3.55	8.535	18.18	9.30
1992	1.11	4.78	5.21	5.83	7.81	6.13	3.58	8.517	18.54	9.46
1993	0.92	4.93	6.05	6.61	6.28	6.14	3.59	8.519	18.54	9.83
1994	0.92	4.91	6.12	6.61	6.28	6.17	3.58	8.517	18.71	9.77
Expenditures in Billion Nominal Dollars										
1970	1.2	8.4	8.3	1.8	10.8	28.8	—	28.8	27.2	86.8
1971	1.3	8.3	7.9	1.7	9.7	18.4	—	29.0	30.5	89.3
1972	1.2	11.7	8.1	1.3	10.2	19.8	—	32.5	43.7	76.2
1973	0.7	9.4	7.5	1.0	16.0	24.5	—	34.6	44.8	79.2
1974	2.2	11.4	11.8	0.3	15.5	27.7	—	41.3	50.3	91.8
1975	2.3	15.4	11.8	0.3	18.4	37.3	—	44.8	88.5	104.4
1976	2.2	18.2	10.7	0.5	19.4	30.6	—	51.0	88.1	119.1
1977	1.4	21.4	8.2	0.5	20.5	29.2	—	52.0	76.6	128.7
1978	2.2	28.9	8.8	0.3	22.8	32.1	—	63.2	90.3	153.6
1979	1.6	33.3	44.9	—	17.7	82.5	—	87.5	98.7	198.2
1980	1.8	37.1	47.8	8.2	14.6	84.6	—	108.8	119.1	218.1
1981	0.9	38.3	51.5	0.7	17.9	70.2	—	109.4	136.7	248.1
1982	2.8	51.4	42.9	1.1	19.7	54.7	—	107.8	163.3	271.3
1983	2.4	63.9	41.8	0.9	12.8	52.2	—	111.8	185.1	278.7
1984	3.1	63.6	44.2	0.8	3.8	48.8	—	115.4	179.0	294.5
1985	1.6	87.8	48.8	4.6	8.2	54.5	—	118.8	185.1	298.1
1986	1.2	49.5	28.8	4.2	13.9	43.9	—	94.7	183.5	278.1
1987	0.7	44.1	27.8	4.2	12.0	40.8	—	84.8	175.4	260.2
1988	0.7	47.1	26.2	0.2	14.4	48.8	—	88.8	199.0	278.7
1989	0.8	48.0	28.6	0.5	22.6	82.4	—	89.2	188.0	287.4
1990	0.7	49.2	33.8	0.2	18.9	92.9	1.9	94.8	198.8	299.6
1991	1.0	49.8	33.5	0.3	25.0	58.8	2.8	111.6	182.0	303.6
1992	0.7	48.6	19.5	0.2	27.5	47.1	2.1	98.4	191.0	289.4
1993	0.7	58.8	26.5	0.3	17.2	44.9	1.7	102.4	203.0	305.4
1994	0.7	55.2	28.1	0.2	15.8	42.1	1.7	99.8	207.0	308.0

^a Liquid petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of non-electric utility use of biomass beginning in 1989.

Revised data.

—No consumption.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 217. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, North Dakota

Year	Primary Energy								Electricity	Total Energy ^a	
	Coal	Natural Gas	Petroleum					Total			
			Diesel Fuel	Kerosene	LPG ^b	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.74	0.87	1.86	—	1.39	2.83	0.84	1.46	0.89	6.82	1.74
1971	0.69	0.74	1.09	—	1.39	2.97	0.82	1.60	0.94	6.57	1.73
1972	0.77	0.76	1.09	—	1.39	2.80	0.89	1.34	0.92	6.79	1.75
1973	0.69	0.85	1.33	—	1.43	3.13	0.89	1.43	0.99	6.82	1.99
1974	1.01	1.00	2.27	—	2.50	4.29	1.80	2.19	1.35	7.59	2.12
1975	1.28	1.11	2.34	—	2.83	4.49	1.69	2.23	1.43	7.84	2.29
1976	1.60	1.38	2.56	—	2.96	4.90	1.65	2.39	1.63	8.52	2.50
1977	1.62	1.67	2.95	—	3.20	5.31	1.89	2.70	1.93	9.17	3.04
1978	1.52	1.94	3.06	—	2.46	5.52	1.82	2.48	2.01	9.83	3.35
1979	1.68	2.47	4.54	—	4.19	7.39	2.32	3.64	2.75	10.29	4.02
1980	2.63	3.86	6.46	—	5.29	9.97	3.79	5.83	4.06	12.19	6.39
1981	2.70	3.51	7.80	—	5.60	11.02	5.62	7.89	4.42	14.15	6.59
1982	2.71	3.99	7.46	7.40	5.82	10.32	4.83	4.99	4.35	14.88	6.82
1983	2.94	4.64	R 6.37	8.82	6.87	9.75	3.67	R 6.17	R 4.94	16.74	R 7.40
1984	2.81	5.58	R 6.37	7.40	6.76	9.51	4.13	R 6.07	R 5.32	17.20	R 8.81
1985	3.21	4.81	R 6.83	R 7.88	8.92	8.84	3.49	R 6.17	R 4.96	17.54	R 9.73
1986	3.11	4.59	R 6.89	R 4.54	6.25	8.92	1.92	R 4.39	R 4.39	17.53	R 9.69
1987	2.80	4.53	R 4.27	R 5.11	5.37	7.53	1.61	R 4.74	R 4.44	17.25	9.14
1988	2.09	4.25	R 3.68	R 4.73	4.86	8.05	2.49	R 4.76	R 4.16	17.41	R 8.57
1989	2.74	3.99	R 4.52	R 5.38	6.60	4.86	2.59	R 4.78	R 5.98	16.85	R 8.07
1990	2.82	4.06	R 5.89	R 6.57	6.16	9.87	3.64	R 4.51	R 4.33	17.87	R 8.84
1991	2.70	4.15	R 4.88	R 5.85	6.34	9.57	2.35	R 4.98	R 4.34	17.12	R 8.89
1992	2.68	4.35	R 4.88	R 5.78	7.73	8.29	2.30	R 4.18	R 4.40	17.28	R 9.19
1993	2.71	4.48	R 4.50	R 5.80	6.84	R 9.34	2.37	R 3.95	4.47	17.45	9.14
1994	2.78	4.23	4.29	5.35	7.75	9.12	2.51	5.24	4.21	17.28	6.97
Expenditures in Million Nominal Dollars											
1970	1.8	5.8	1.5	—	1.1	2.2	0.5	5.4	12.2	16.7	27.8
1971	0.7	8.9	1.3	—	1.2	2.5	0.4	5.3	13.0	15.0	27.8
1972	0.8	8.0	1.5	—	1.2	1.6	0.9	5.2	13.8	16.7	30.6
1973	0.7	9.0	1.4	—	1.1	1.8	1.1	5.5	14.5	18.9	33.7
1974	1.6	11.5	2.4	—	1.8	2.4	0.7	12.4	28.8	20.7	46.2
1975	1.7	18.7	2.4	—	2.8	2.3	0.2	12.8	37.5	21.5	48.8
1976	1.8	18.5	2.2	—	2.5	2.1	4.5	11.5	29.9	25.9	55.2
1977	3.9	18.8	1.7	—	2.5	2.1	4.3	19.6	32.3	29.1	60.4
1978	5.6	23.0	1.8	—	2.2	2.3	4.5	10.8	37.4	37.5	74.9
1979	2.7	29.8	5.6	—	2.1	2.8	6.9	28.7	53.2	40.4	93.8
1980	3.2	37.8	24.1	—	1.7	3.8	9.5	36.2	96.3	47.5	137.2
1981	3.9	34.4	17.8	—	2.4	4.6	2.1	26.9	65.9	60.0	126.3
1982	5.0	46.5	9.1	0.2	1.5	4.5	8.1	21.3	72.8	68.4	141.2
1983	6.0	49.7	R 15.7	(4)	1.7	4.3	3.4	R 25.1	R 60.6	72.2	R 153.0
1984	6.0	58.3	R 16.9	(4)	0.5	1.0	2.4	R 20.8	R 60.0	114.5	R 188.5
1985	5.6	51.7	R 17.8	(8)	6.9	3.5	1.8	R 22.8	R 79.9	121.2	R 201.1
1986	4.7	43.5	R 9.7	(4)	3.3	2.8	0.9	R 13.6	R 61.7	119.9	R 161.6
1987	2.5	37.6	R 6.0	(6)	2.2	2.9	0.3	R 11.5	R 51.5	118.0	R 167.5
1988	3.2	44.0	R 3.5	(4)	2.4	3.1	0.7	R 9.7	R 56.9	116.9	R 174.9
1989	4.1	44.5	R 4.9	(5)	2.9	2.8	0.4	R 10.2	R 56.7	115.4	R 173.7
1990	3.4	42.9	R 4.8	(8)	2.8	3.8	0.4	R 11.4	R 67.7	135.8	R 191.7
1991	3.3	48.6	R 4.5	(6)	5.2	2.2	0.1	R 12.1	R 62.0	140.0	R 202.0
1992	3.1	44.1	R 4.3	(5)	5.3	1.8	0.2	R 11.6	R 56.8	134.0	R 182.8
1993	3.8	R 50.5	R 3.6	(8)	4.3	0.5	0.2	8.8	52.9	138.0	200.9
1994	3.6	49.3	4.8	(8)	3.4	0.5	0.2	9.0	60.9	143.0	204.0

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R-Reviewed data.

—No consumption.

(c)-Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 218. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, North Dakota

Year	Primary Energy															Electricity	Total Energy ^d
	Coal			Natural Gas	Petroleum									Nuclear ^c	Total ^c		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	0.74	0.74	0.38	0.79	0.79	0.85	1.30	5.06	2.83	0.54	0.51	1.85	—	1.38	6.86	4.52
1971	—	0.63	0.63	0.43	0.32	0.78	0.85	1.38	5.27	2.87	1.05	0.51	1.54	—	1.39	5.67	1.65
1972	—	0.77	0.77	0.48	0.90	0.78	0.84	1.38	5.58	2.90	1.06	0.58	1.44	—	1.29	6.28	1.83
1973	—	0.69	0.69	0.53	0.80	1.02	1.10	1.43	5.33	3.13	1.30	0.90	1.71	—	1.56	6.36	1.97
1974	—	1.01	1.01	0.64	1.84	2.19	2.36	2.50	7.22	4.22	1.64	0.51	2.70	—	2.40	6.96	2.79
1975	—	1.26	1.26	1.00	2.88	2.72	2.80	2.83	7.48	4.58	1.94	0.40	3.18	—	2.73	8.80	3.12
1976	—	1.60	1.60	1.33	2.01	2.98	3.22	2.98	7.05	4.98	1.82	1.53	3.30	—	2.98	8.36	3.41
1977	—	1.82	1.82	1.71	2.07	2.75	2.98	3.20	6.67	5.31	1.92	1.80	3.46	—	3.06	9.00	3.64
1978	—	1.52	1.52	1.06	2.18	2.98	3.25	2.48	7.60	5.52	2.01	1.59	3.51	—	2.97	9.21	3.63
1979	—	1.66	1.66	2.50	2.58	4.24	—	4.19	10.21	7.38	2.53	1.65	4.66	—	3.97	9.38	4.60
1980	—	2.63	2.63	2.59	3.85	5.50	5.76	5.33	14.38	9.97	3.15	2.48	8.07	—	5.37	8.94	5.87
1981	—	2.70	2.70	3.99	5.48	5.68	—	6.09	18.00	11.02	3.51	3.06	6.73	—	6.06	12.06	6.73
1982	—	2.71	2.71	4.21	4.66	7.00	—	6.62	17.25	10.62	3.63	2.28	6.90	—	6.99	14.52	6.94
1983	—	2.94	2.94	4.86	4.86	R 6.57	6.82	5.87	16.68	9.76	3.95	3.48	R 6.36	—	R 5.72	15.28	R 6.83
1984	—	2.81	2.81	4.23	5.02	R 6.61	7.40	5.75	17.63	9.51	4.13	2.48	R 6.37	—	R 4.63	15.15	R 5.40
1985	—	3.21	3.21	4.19	6.17	R 6.28	7.03	8.32	17.81	6.64	3.48	2.31	R 6.32	—	R 4.25	15.27	R 4.90
1986	—	3.11	3.11	3.82	4.07	R 4.06	R 4.54	8.25	16.59	6.92	1.92	1.53	R 4.54	—	R 3.82	15.60	R 4.23
1987	—	2.80	2.80	3.09	3.74	R 4.56	R 5.11	5.37	12.70	7.53	1.61	1.80	4.83	—	3.34	16.06	3.69
1988	—	2.85	2.85	9.23	3.53	R 4.22	R 4.73	4.95	14.61	6.05	2.49	1.45	R 4.82	—	R 3.19	14.44	R 3.82
1989	—	2.74	2.74	3.38	3.13	R 4.51	R 5.38	3.60	14.48	6.88	2.58	1.74	R 4.82	—	R 3.29	14.58	3.88
1990	—	2.82	2.82	3.24	3.32	R 5.87	R 6.57	6.16	14.88	8.97	2.64	2.02	R 5.77	d	d 3.86	13.99	d 4.04
1991	—	2.70	2.70	3.05	3.38	R 5.22	R 5.85	6.34	18.79	9.57	2.85	1.72	R 5.63	—	R 3.50	14.30	R 4.00
1992	—	2.88	2.88	3.11	2.58	R 5.18	R 5.78	7.73	19.43	9.29	2.90	1.29	R 4.87	—	R 3.27	14.21	R 3.75
1993	—	2.71	2.71	3.23	3.00	R 5.00	R 5.60	8.84	18.96	R 9.34	2.57	1.05	R 5.11	—	R 3.31	14.15	R 3.82
1994	—	2.70	2.70	3.13	3.00	4.85	5.44	6.60	19.10	9.12	2.51	1.14	4.82	0.95	3.27	13.85	3.78
Expenditures in Million Nominal Dollars																	
1970	—	5.4	5.4	0.7	7.3	16.9	0.3	1.0	0.8	34.4	2.3	0.4	54.9	—	63.6	14.3	77.3
1971	—	3.7	3.7	0.7	10.4	9.5	0.3	1.1	0.8	38.0	1.3	0.9	62.2	—	66.6	17.0	83.6
1972	—	4.5	4.5	1.4	7.3	9.5	0.2	1.4	0.7	32.1	3.0	0.9	55.0	—	60.8	21.5	82.4
1973	—	3.2	3.2	0.6	9.0	10.1	0.3	1.0	1.8	38.6	4.2	1.1	68.1	—	70.1	26.0	96.0
1974	—	4.4	4.4	1.7	18.3	20.6	1.1	1.8	2.3	50.2	4.9	1.5	98.7	—	104.8	28.2	133.0
1975	—	9.4	9.4	1.9	14.6	28.8	0.8	1.8	1.3	54.1	4.8	2.6	185.8	—	195.2	27.0	143.2
1976	—	7.8	7.8	3.4	14.6	22.6	0.6	1.6	1.0	58.0	4.5	3.1	103.2	—	114.4	29.4	143.9
1977	—	11.6	11.6	4.0	12.5	16.0	0.8	2.3	1.1	54.6	4.2	3.8	95.2	—	110.8	35.4	146.2
1978	—	13.8	13.8	4.6	16.6	17.2	1.1	3.2	1.3	55.8	3.4	3.3	101.8	—	120.2	43.9	164.1
1979	—	17.1	17.1	3.8	15.7	70.6	—	11.3	1.8	70.7	0.6	4.1	174.7	—	195.6	49.6	245.2
1980	—	20.2	20.2	2.8	18.2	78.8	0.3	13.9	2.3	86.7	4.1	5.3	203.7	—	226.5	62.6	279.1
1981	—	17.4	17.4	5.5	27.9	115.2	—	11.5	2.7	87.3	20.0	2.7	246.4	—	269.3	66.6	336.2
1982	—	23.8	23.8	7.6	23.5	114.6	—	16.8	2.4	72.1	10.7	2.6	242.0	—	273.6	82.5	356.4
1983	—	21.9	21.9	7.7	35.1	R 91.7	0.1	15.3	2.5	56.7	22.2	0.8	R 226.5	—	R 258.0	89.9	R 345.9
1984	—	30.3	30.3	21.3	33.2	R 98.9	0.1	6.2	2.7	42.1	12.9	1.7	R 197.1	—	R 308.7	82.7	R 401.4
1985	—	228.0	228.0	8.7	35.9	R 101.8	R (a)	9.8	2.5	54.7	4.8	2.8	R 211.6	—	R 448.6	101.1	R 549.7
1986	—	251.5	251.5	10.3	23.7	R 72.6	0.2	26.6	2.2	33.6	2.2	0.8	R 169.6	—	R 425.5	87.9	R 513.3
1987	—	245.1	245.1	7.7	22.0	R 68.3	(a)	19.3	2.0	40.6	2.3	1.3	R 155.7	—	R 408.5	91.8	R 500.4
1988	—	219.4	219.4	12.3	22.4	R 60.4	R 0.2	12.4	2.2	37.9	3.3	1.4	R 140.3	—	R 371.9	89.3	R 471.2
1989	—	244.0	244.0	15.0	19.2	R 77.6	(a)	9.3	2.3	38.2	3.0	1.5	R 151.4	—	R 410.4	87.5	R 508.0
1990	—	243.2	243.2	12.9	17.9	R 68.7	(a)	13.7	2.4	41.2	3.7	1.8	R 166.3	d	d 425.5	81.8	d 507.3
1991	—	228.0	228.0	13.7	17.3	R 93.1	0.1	25.3	2.4	39.4	2.7	1.4	R 161.7	—	R 423.4	83.8	R 507.1
1992	—	240.6	240.6	17.2	26.1	R 68.3	(a)	13.2	2.9	36.1	2.6	1.4	R 166.6	—	R 435.3	86.7	R 522.0
1993	—	246.2	246.2	19.5	18.2	R 65.9	(a)	R 14.2	2.8	R 33.1	R 3.8	R 1.0	R 159.0	—	R 426.7	89.6	R 516.3
1994	—	252.7	252.7	18.7	24.9	91.4	(a)	11.4	3.0	39.5	3.2	1.2	168.6	(a)	439.1	82.8	531.7

^a Liquefied petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

R=Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

(a) Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, calculation procedures, and assumptions are described in Appendix A

Table 219. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, North Dakota

Year	Primary Energy										Electricity	Total Energy
	Coal	Natural Gas	Petroleum							Total		
			Aviation Gasoline	Diesel Fuel	Jet Fuel	LPQ ^a	Lubricants	Motor Gasoline	Residual Fuel			
Prices in Nominal Dollars per Million Btu												
1970	0.74	—	2.17	1.33	0.75	1.30	5.96	2.33	0.33	2.19	—	2.19
1971	0.63	—	2.21	1.30	0.78	1.30	5.27	2.97	0.62	2.25	—	2.25
1972	0.77	—	2.19	1.33	0.78	1.30	5.58	2.40	—	2.06	—	2.06
1973	0.69	—	2.30	1.60	0.93	1.43	5.33	3.13	—	2.50	—	2.50
1974	1.01	—	3.23	2.55	1.60	2.50	7.22	4.22	—	3.50	—	3.50
1975	1.26	—	3.45	2.67	2.09	2.63	7.44	4.60	—	3.85	—	3.85
1976	1.60	—	3.59	2.92	2.26	2.90	7.05	4.96	—	4.25	—	4.25
1977	1.82	—	3.97	3.26	2.69	3.20	6.97	5.31	—	4.51	—	4.51
1978	—	—	4.29	3.40	2.90	2.48	7.00	5.52	—	4.73	—	4.73
1979	—	—	5.73	5.08	4.03	4.19	10.21	7.38	2.20	6.32	—	6.32
1980	—	—	6.02	7.23	5.47	5.23	14.38	9.97	—	8.74	—	8.74
1981	—	—	10.84	9.57	7.60	5.69	18.00	11.02	—	10.03	—	10.03
1982	—	—	10.62	8.24	7.19	5.62	17.25	10.52	4.25	9.41	—	9.41
1983	—	—	10.44	7.28	^R 6.91	6.87	16.98	9.75	3.89	^R 8.82	^R 8.82	^R 8.82
1984	—	—	10.27	7.42	^R 6.83	5.75	17.63	9.51	4.60	^R 8.71	^R 8.71	^R 8.71
1985	—	—	9.99	7.12	6.44	6.32	17.81	9.64	—	8.65	—	8.65
1986	—	—	8.41	6.46	4.90	5.25	16.59	6.92	2.34	8.64	—	8.64
1987	—	—	7.55	6.97	4.64	5.37	12.70	7.53	—	7.16	—	7.16
1988	—	—	7.41	7.14	4.37	4.95	14.61	8.06	—	7.48	—	7.48
1989	—	—	8.28	7.73	4.77	3.60	14.46	8.88	—	8.19	—	8.19
1990	—	4.18	9.32	8.98	6.11	6.18	14.60	9.87	—	9.38	—	9.38
1991	—	3.19	8.71	9.50	5.17	6.34	18.79	9.57	—	8.99	—	8.99
1992	—	4.07	8.54	8.32	4.89	7.73	19.43	9.29	—	8.64	—	8.64
1993	—	4.35	8.24	8.42	4.81	8.94	18.94	^R 9.34	—	^R 8.74	^R 8.74	^R 8.74
1994	—	3.98	7.96	8.15	4.57	8.68	19.16	9.12	—	8.62	—	8.62
Expenditures in Million Nominal Dollars												
1970	(a)	—	4.8	11.1	6.3	(a)	4.2	83.6	4.2	118.6	—	118.6
1971	(a)	—	1.3	13.4	9.4	(a)	4.1	102.7	0.1	130.6	—	130.6
1972	(a)	—	1.1	14.4	8.6	(a)	4.6	97.0	—	125.8	—	125.8
1973	(a)	—	1.1	18.1	9.3	(a)	3.4	124.0	—	158.9	—	158.9
1974	(a)	—	1.5	26.9	16.8	(a)	4.4	161.0	—	210.7	—	210.7
1975	(a)	—	1.5	29.2	20.8	(a)	6.2	191.2	—	249.1	—	249.1
1976	(a)	—	1.5	33.3	22.0	(a)	6.6	218.1	—	279.5	—	279.5
1977	(a)	—	1.6	48.2	27.7	(a)	6.4	234.4	—	318.4	—	318.4
1978	—	—	2.1	52.7	28.8	0.1	7.5	294.5	—	345.6	—	345.6
1979	—	—	2.9	100.2	39.6	0.1	10.5	306.1	0.6	460.3	—	460.3
1980	—	—	2.9	159.9	58.7	0.2	13.2	388.6	—	631.5	—	631.5
1981	—	—	2.3	156.2	67.0	2.5	15.9	479.1	—	725.3	—	725.3
1982	—	—	1.9	154.7	81.6	3.9	13.9	499.5	8.4	683.1	—	683.1
1983	—	—	1.3	129.8	^R 55.7	4.1	14.3	388.6	(a)	^R 603.9	^R 603.9	^R 603.9
1984	—	—	1.6	143.4	^R 62.8	0.4	15.6	400.1	(a)	^R 624.2	^R 624.2	^R 624.2
1985	—	—	0.2	128.3	58.3	0.3	14.7	398.6	—	588.4	—	588.4
1986	—	—	1.6	108.9	43.6	0.7	12.7	275.3	(a)	443.0	—	443.0
1987	—	—	1.1	124.1	31.5	0.3	11.7	305.4	—	474.1	—	474.1
1988	—	—	1.2	130.8	31.0	0.3	13.0	322.7	—	499.0	—	499.0
1989	—	—	1.3	137.7	34.5	0.2	13.2	380.6	—	537.6	—	537.6
1990	—	(b)	1.3	182.7	39.0	0.3	13.7	375.3	—	582.4	—	582.4
1991	—	(a)	1.2	159.4	27.0	0.5	14.1	373.3	—	575.5	—	575.5
1992	—	(a)	1.2	156.9	37.1	0.5	16.7	365.0	—	577.4	—	577.4
1993	—	(a)	2.8	173.1	32.6	0.6	16.5	^R 382.7	—	^R 608.0	^R 608.0	^R 608.0
1994	—	(c)	1.7	163.0	21.1	0.6	17.6	368.1	—	602.1	—	602.1

^a Liquefied petroleum gases

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 220. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, North Dakota

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.28	0.36	0.80	1.23	—	0.96	—	—	4.25
1971	0.25	0.39	0.86	1.20	—	0.89	—	—	0.27
1972	0.27	0.38	0.94	1.29	—	1.01	—	—	0.27
1973	0.16	0.40	0.79	0.93	—	0.83	—	—	0.18
1974	0.16	0.45	1.87	2.04	—	1.71	—	—	0.18
1975	0.26	0.66	1.83	2.12	—	1.94	—	—	0.27
1976	0.29	0.82	1.57	2.49	—	1.90	—	—	0.30
1977	0.39	0.89	1.95	2.76	—	2.12	—	—	0.40
1978	0.39	1.31	1.82	2.87	—	2.17	—	—	0.40
1979	0.47	1.90	2.24	3.95	—	3.41	—	—	0.49
1980	0.56	2.47	—	8.07	—	6.67	—	—	0.67
1981	0.68	4.22	—	7.54	—	7.54	—	—	0.70
1982	0.61	3.16	—	7.18	—	7.18	—	—	0.82
1983	0.83	4.40	—	5.76	—	5.76	—	—	0.84
1984	0.87	5.66	—	5.91	—	5.91	—	—	0.89
1985	0.88	4.74	—	5.82	—	5.82	—	—	0.89
1986	0.82	5.22	—	3.71	—	3.71	—	—	0.83
1987	0.79	4.43	—	4.19	—	4.19	—	—	0.80
1988	0.70	4.29	—	3.81	—	3.81	—	—	0.71
1989	0.69	4.39	—	4.41	—	4.41	—	—	0.70
1990	0.69	3.86	—	5.69	—	5.69	—	—	0.69
1991	0.71	4.34	—	4.49	—	4.49	—	—	0.71
1992	0.72	4.03	—	4.76	—	4.76	—	—	0.73
1993	0.71	4.25	—	4.42	—	4.42	—	—	0.72
1994	0.70	3.76	—	4.11	—	4.11	—	—	0.71
Expenditures in Million Nominal Dollars									
1970	12.0	8.1	0.1	(e)	—	8.2	—	—	12.3
1971	15.2	0.2	1.2	(e)	—	1.2	—	—	16.6
1972	17.4	0.1	0.2	0.1	—	0.2	—	—	17.8
1973	10.5	0.1	(e)	(e)	—	0.1	—	—	10.7
1974	12.3	(e)	0.2	(e)	—	0.2	—	—	12.8
1975	16.4	0.1	0.2	(e)	—	0.2	—	—	15.8
1976	24.7	(e)	0.3	0.3	—	0.5	—	—	25.3
1977	28.0	(e)	0.9	0.9	—	1.3	—	—	30.3
1978	46.0	(e)	0.5	0.4	—	1.0	—	—	47.0
1979	63.2	(e)	0.9	8.3	—	4.2	—	—	67.8
1980	95.5	(e)	—	3.4	—	3.4	—	—	97.9
1981	111.5	0.1	—	4.0	—	4.0	—	—	115.6
1982	151.2	0.1	—	3.7	—	3.7	—	—	154.9
1983	167.6	0.1	—	3.3	—	3.3	—	—	170.9
1984	192.8	0.1	—	5.6	—	5.6	—	—	198.5
1985	201.1	(e)	—	2.4	—	2.4	—	—	203.4
1986	199.8	(e)	—	1.2	—	1.2	—	—	199.0
1987	182.5	(e)	—	1.2	—	1.2	—	—	183.8
1988	200.8	(e)	—	1.0	—	1.0	—	—	201.8
1989	187.6	(e)	—	1.9	—	1.9	—	—	189.4
1990	186.5	(e)	—	1.6	—	1.6	—	—	186.3
1991	207.7	(e)	—	1.8	—	1.8	—	—	209.5
1992	219.3	(e)	—	1.6	—	1.6	—	—	220.9
1993	218.5	(e)	—	1.8	—	1.8	—	—	220.3
1994	215.8	(e)	—	2.7	—	2.7	—	—	216.5

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

—No consumption.

(e)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 221. Energy Price and Expenditure Estimates by Source, 1970-1994, Ohio

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^d
	Coal			Natural Gas	Petroleum						Nuclear Fuel	Biomass	Total ^c				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b				Total			
Prices in Nominal Dollars per Million Btu																	
1970	6.62	6.33	6.35	6.74	1.13	6.74	6.73	2.89	6.61	R 1.52	2.17	—	6.65	6.67	6.38	4.86	1.58
1971	6.50	6.38	6.40	6.70	1.22	6.78	1.75	3.03	6.60	R 1.61	2.27	—	6.60	1.06	6.36	4.96	1.55
1972	6.58	6.41	6.44	6.84	1.23	6.82	1.77	3.08	6.71	R 1.68	2.26	—	6.72	1.09	6.30	4.97	1.70
1973	6.66	6.46	6.50	6.86	1.30	6.86	2.46	3.09	6.64	R 1.69	2.34	—	6.77	1.16	6.44	5.11	1.93
1974	1.30	0.92	1.00	1.01	2.39	1.82	3.36	4.45	2.13	R 2.71	3.65	—	6.84	1.76	6.91	6.06	2.66
1975	1.57	1.89	1.14	1.39	2.53	2.89	3.73	4.73	2.14	R 3.82	3.79	—	6.92	2.09	6.99	7.84	3.85
1976	1.53	1.10	1.11	1.58	2.73	2.36	3.76	4.83	1.89	R 3.15	3.68	—	6.98	2.10	6.98	7.97	3.20
1977	1.55	1.07	1.17	2.03	3.10	2.66	4.33	5.08	2.34	R 3.22	4.09	0.19	1.04	2.36	1.05	9.02	3.71
1978	1.78	1.28	1.36	2.19	3.28	2.87	4.21	5.14	2.38	R 3.96	4.18	0.27	1.12	2.52	1.28	10.21	3.95
1979	1.76	1.36	1.44	2.53	4.93	3.91	4.47	6.90	2.83	R 4.61	5.57	0.28	1.56	3.10	1.34	11.13	4.85
1980	2.86	1.47	1.68	3.27	6.44	6.38	5.46	8.45	3.34	R 5.46	7.78	0.29	1.74	4.08	1.88	12.87	6.23
1981	2.35	1.64	1.76	3.64	7.69	7.65	6.09	10.63	4.69	R 6.16	9.07	0.44	1.24	4.68	1.62	14.80	7.14
1982	2.45	1.71	1.81	4.68	7.61	7.22	6.82	10.28	4.86	R 6.11	8.96	0.53	1.28	4.83	1.71	17.45	7.82
1983	2.18	1.70	1.74	5.80	7.71	R 6.73	7.48	9.42	4.42	R 6.42	8.67	0.61	1.12	R 4.60	1.69	18.07	R 6.28
1984	2.10	1.70	1.74	6.44	R 7.80	R 6.46	7.51	8.10	4.60	R 6.61	8.49	0.67	1.28	4.62	1.69	16.79	6.10
1985	2.86	1.88	1.72	5.32	R 7.89	6.84	8.53	8.15	4.21	R 6.28	8.33	1.09	1.78	4.81	1.70	16.99	R 6.26
1986	2.04	1.62	1.65	5.11	R 6.83	3.85	8.93	6.78	2.60	R 6.73	6.49	0.72	0.32	4.01	1.63	17.23	7.34
1987	1.72	1.55	1.68	4.70	R 6.07	4.04	8.37	7.36	2.84	R 6.07	6.78	0.73	0.95	3.92	1.61	16.87	7.34
1988	1.73	1.51	1.53	4.55	R 6.96	3.92	8.44	7.43	2.50	R 6.37	6.61	1.33	0.87	R 6.67	1.52	16.90	R 7.24
1989	1.76	1.48	1.51	4.85	R 6.84	4.46	9.32	8.18	2.82	R 6.57	7.35	1.32	(*)	4.08	1.49	16.83	7.64
1990	1.88	1.81	1.84	4.83	R 7.84	5.73	10.42	8.38	2.89	R 6.25	6.37	1.24	d 2.77	4.34	1.50	17.33	d R 8.38
1991	1.72	1.46	1.49	4.83	R 7.44	4.96	10.04	9.23	2.38	R 6.30	6.23	1.14	2.16	R 4.21	1.45	17.06	R 8.35
1992	1.74	1.44	1.46	4.55	R 7.15	4.84	9.39	8.98	2.27	R 6.32	7.05	1.12	2.19	4.16	1.40	17.84	R 8.19
1993	1.69	1.42	1.43	5.03	R 7.20	4.90	9.60	R 6.82	2.42	R 6.79	7.96	1.07	2.10	R 4.34	1.39	18.30	R 8.49
1994	1.57	1.44	1.45	5.06	7.12	4.92	7.66	9.09	2.64	6.83	7.92	1.08	2.16	4.40	1.42	18.21	8.55
Expenditures in Million Nominal Dollars																	
1970	149.6	489.5	654.1	768.2	224.5	24.4	56.5	1,837.3	17.8	R 289.2	2,323.4	—	(6)	3,546.7	-245.8	1,344.2	4,647.4
1971	149.9	449.8	598.7	862.8	349.6	29.2	58.7	1,723.7	18.1	R 287.0	2,343.4	—	(6)	3,795.0	-316.1	1,480.5	4,959.3
1972	190.1	496.2	694.3	948.7	295.9	32.0	66.4	1,808.2	17.0	R 283.4	2,502.6	—	(6)	4,146.6	-395.7	1,641.3	5,422.4
1973	246.6	667.0	903.6	868.0	317.9	37.3	94.3	1,936.6	29.6	R 315.6	2,730.2	—	(6)	4,481.7	-452.6	1,861.0	5,690.1
1974	476.3	1,171.8	1,648.1	1,090.6	575.0	52.7	122.5	2,747.4	94.3	R 450.8	4,043.2	—	(6)	5,701.9	-643.1	2,400.0	8,228.7
1975	549.3	1,329.3	1,847.6	1,343.3	621.6	70.7	127.8	2,949.3	117.1	R 468.5	4,356.8	—	(6)	7,448.8	-1,046.9	2,774.5	9,173.4
1976	511.4	1,321.8	1,833.2	1,575.5	813.2	84.8	136.4	3,103.4	115.9	R 546.1	4,800.9	—	(6)	8,210.5	-1,088.6	3,021.8	10,143.7
1977	515.9	1,430.8	1,946.7	1,716.4	943.0	103.5	156.2	3,387.8	190.8	R 614.0	5,377.9	0.9	(6)	9,041.0	-1,207.2	3,656.7	11,492.5
1978	576.7	1,684.1	2,234.8	2,037.1	1,041.5	114.4	183.5	3,427.5	195.3	R 689.9	6,602.1	7.2	(6)	9,681.2	-1,475.3	4,109.8	12,515.6
1979	574.8	1,629.2	2,403.0	2,203.9	1,220.2	150.2	782.2	4,410.9	179.9	R 880.2	7,589.6	8.6	(6)	12,209.1	-1,642.6	4,564.5	15,131.1
1980	640.5	1,446.7	2,288.1	2,887.8	1,828.0	259.2	983.2	5,623.4	122.1	R 1,192.9	9,996.7	4.4	(6)	15,193.8	-1,729.9	4,984.7	18,267.8
1981	629.3	2,073.5	2,702.9	3,129.3	2,071.1	244.9	858.2	6,154.1	135.0	R 1,315.7	10,701.4	21.3	(6)	18,849.9	-1,679.9	5,828.6	20,369.5
1982	465.4	2,051.8	2,517.1	3,673.8	1,860.8	223.1	994.3	6,735.9	54.9	R 1,075.4	9,837.5	19.1	(6)	15,147.4	-1,688.6	5,978.3	20,241.1
1983	274.8	2,029.0	2,303.8	4,111.0	R 1,496.9	R 220.4	1,091.8	6,289.2	76.9	R 1,006.1	9,191.3	32.8	0.1	R 16,630.8	-1,648.3	6,535.1	R 20,289.6
1984	287.2	2,077.0	2,364.8	4,274.1	R 1,641.1	R 246.5	773.8	6,211.8	46.2	R 1,114.9	9,036.4	31.3	2.7	R 15,709.9	-1,675.5	6,665.5	R 20,599.0
1985	287.4	2,084.1	2,353.9	3,944.6	R 1,610.5	245.3	834.8	5,234.8	33.6	R 1,094.5	9,653.5	28.0	2.2	R 15,487.3	-1,918.7	7,888.8	R 20,566.3
1986	283.0	2,090.3	2,373.3	3,711.1	R 1,217.0	215.8	492.7	3,989.7	24.5	R 959.6	8,775.3	0.2	0.9	R 12,880.8	-1,370.3	7,209.8	R 18,200.3
1987	248.6	1,993.0	2,239.6	3,382.8	R 1,184.0	249.2	478.8	4,477.8	27.0	R 880.6	7,304.4	89.0	3.5	R 12,989.5	-1,844.2	7,450.9	R 18,596.2
1988	252.4	2,007.8	2,260.2	3,686.3	R 1,293.9	209.8	535.2	4,569.4	32.7	R 822.9	7,247.7	129.8	3.2	R 13,320.2	-1,915.4	7,849.7	R 18,054.4
1989	247.6	1,960.4	2,208.0	3,886.1	R 1,478.5	263.6	439.4	4,994.1	29.1	R 889.3	8,104.0	179.7	(*)	R 14,317.8	-1,980.6	8,003.5	R 20,270.7
1990	239.0	1,955.3	2,194.3	R 3,380.5	R 1,674.2	243.5	486.8	5,384.3	38.5	R 857.7	8,790.1	141.5	d 53.5	d R 14,589.7	-1,929.0	8,321.6	d R 20,871.3
1991	170.7	1,939.3	2,109.9	R 3,506.0	R 1,345.6	261.0	367.8	5,326.0	13.3	R 895.1	8,486.7	182.1	56.7	R 14,328.4	-1,980.3	8,367.3	R 21,136.4
1992	176.2	1,898.0	2,073.3	R 3,705.6	R 1,596.2	279.0	490.4	5,127.9	15.4	R 889.2	8,479.1	178.6	58.7	R 14,492.5	-1,827.6	8,717.6	R 21,282.8
1993	130.3	1,821.0	2,051.3	4,221.8	R 1,661.7	229.1	R 614.0	R 5,313.9	R 22.1	R 840.7	8,712.9	114.2	39.7	R 15,159.6	-1,857.6	R 8,163.3	R 22,415.3
1994	129.9	1,869.2	1,999.1	4,247.9	1,791.2	266.7	428.8	5,401.8	21.8	865.1	8,871.2	124.3	39.6	15,262.3	-1,886.4	9,475.9	22,881.8

^a Liquidated petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.^e Unless used biomass fuels at no charge or received a fee for accepting them.

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(s)—Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 222. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Ohio

Year	Primary Energy							Electricity	Total Energy ^d	
	Coal	Natural Gas	Petroleum				Biofuels ^b			Total ^c
			Distillate Fuel	Kerosene	LPG ^a	Total				
Prices in Nominal Dollars per Million Btu										
1970	1.05	0.98	1.41	1.42	2.14	1.64	—	0.98	1.69	
1971	1.02	0.99	1.52	1.49	2.14	1.63	—	1.00	1.63	
1972	1.23	1.03	1.53	1.48	2.16	1.65	—	1.13	1.92	
1973	1.16	1.08	1.41	1.75	3.80	1.88	—	1.22	2.19	
1974	2.57	1.21	2.26	2.80	4.13	2.75	—	1.49	2.65	
1975	2.62	1.47	2.51	2.80	4.83	2.96	—	1.74	3.12	
1976	2.81	1.73	2.77	3.11	4.46	3.10	—	2.01	3.38	
1977	2.85	2.15	3.22	3.61	5.21	3.57	—	2.48	4.11	
1978	2.73	2.37	3.42	3.78	4.79	3.67	—	2.65	4.44	
1979	2.80	2.74	4.95	3.40	6.16	5.22	—	3.10	5.38	
1980	3.07	3.49	8.69	8.87	7.68	6.94	—	3.92	6.37	
1981	3.37	3.68	8.16	9.91	8.50	8.44	—	4.39	7.25	
1982	3.28	4.63	7.85	9.98	8.47	8.31	—	5.14	8.42	
1983	3.06	5.99	7.67	8.84	9.80	8.47	—	5.07	9.85	
1984	3.10	5.85	7.73	8.63	9.91	8.57	—	5.05	9.57	
1985	3.08	5.79	7.89	8.48	10.89	8.39	—	5.82	9.77	
1986	2.66	5.55	5.88	8.57	9.58	8.99	—	5.65	9.59	
1987	2.74	5.12	5.64	8.32	8.98	8.81	—	5.27	9.45	
1988	2.66	5.01	5.88	8.32	8.40	8.57	—	5.16	9.25	
1989	2.89	5.11	6.18	8.90	11.42	8.08	—	5.41	9.53	
1990	2.80	5.69	7.43	8.38	12.05	9.18	2.88	5.47	9.87	
1991	2.54	5.08	6.89	7.70	10.71	8.34	3.58	5.36	9.80	
1992	2.55	5.02	6.39	7.07	10.72	7.78	3.86	5.26	9.45	
1993	2.55	5.80	6.34	7.10	9.89	7.69	3.56	5.69	10.20	
1994	2.51	5.67	6.15	6.87	9.92	7.49	3.55	5.83	10.63	
Expenditures in Million Nominal Dollars										
1970	13.4	414.0	78.5	24.1	31.5	122.8	—	883.9	1,060.9	
1971	11.4	453.4	91.5	23.6	30.1	139.2	—	803.1	1,184.1	
1972	11.8	504.2	90.4	20.7	38.2	149.3	—	866.2	1,297.8	
1973	10.5	497.5	88.0	24.3	64.5	176.8	—	874.8	1,378.8	
1974	31.0	540.4	142.6	35.5	72.3	250.6	—	822.0	1,709.2	
1975	23.3	643.4	187.3	33.8	82.0	273.5	—	848.4	1,988.1	
1976	25.2	790.5	219.0	51.2	89.3	362.5	—	1,159.1	2,261.1	
1977	31.5	899.1	269.6	60.3	90.5	420.6	—	1,341.2	2,684.9	
1978	31.9	1,011.0	282.9	58.5	86.8	420.2	—	1,463.0	2,932.0	
1979	21.6	1,049.2	229.2	49.5	72.1	344.9	—	1,415.9	3,031.7	
1980	14.8	1,398.9	288.6	45.3	73.0	495.3	—	1,815.3	3,675.4	
1981	19.5	1,485.7	270.6	57.1	86.1	414.0	—	1,929.2	4,009.3	
1982	19.5	1,834.4	207.7	51.0	60.8	339.5	—	2,193.3	4,528.6	
1983	21.8	2,008.5	139.3	44.0	106.0	292.2	—	2,320.5	4,969.4	
1984	24.7	2,125.8	151.5	60.8	118.0	329.5	—	2,480.0	5,031.7	
1985	21.7	1,976.7	186.7	48.6	121.3	283.0	—	2,363.4	4,887.4	
1986	25.9	1,896.7	157.0	44.0	130.2	321.2	—	2,245.2	4,843.5	
1987	16.8	1,748.7	137.1	38.4	131.9	307.4	—	2,072.9	4,899.0	
1988	16.4	1,828.7	153.4	45.1	122.2	320.6	—	2,163.9	5,101.8	
1989	12.4	1,810.7	164.6	34.2	180.1	386.9	—	2,312.0	5,329.0	
1990	15.5	1,831.8	178.5	26.4	183.7	388.6	2.85.1	2,071.3	5,120.3	
1991	11.0	1,898.7	189.4	29.5	172.3	371.2	37.0	2,117.9	5,459.0	
1992	13.0	1,771.3	171.8	29.2	154.9	385.5	39.0	2,175.2	5,404.1	
1993	13.2	2,022.0	185.7	33.8	188.3	367.8	19.9	2,482.5	5,830.8	
1994	11.2	2,018.8	175.9	27.8	189.7	399.8	19.5	2,419.1	5,895.3	

^a Unrefined petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.

R/Revised data.

—/No consumption.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 223. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Ohio

Year	Primary Energy										Electricity	Total Energy ^b
	Coal	Natural Gas	Petroleum						Total			
			Distillation Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel					
								Prices in Nominal Dollars per Million Btu				
1970	0.40	0.75	1.28	0.84	1.28	2.83	0.89	1.86	0.76	0.89	1.87	
1971	0.43	0.80	1.28	0.88	1.42	3.03	0.73	1.84	0.82	0.85	2.03	
1972	0.47	0.86	1.28	0.88	1.42	3.03	0.75	1.42	0.88	0.76	2.11	
1973	0.50	0.90	1.21	0.88	1.42	3.08	0.87	1.44	0.93	0.97	2.31	
1974	0.89	1.05	2.19	2.41	2.41	4.45	2.28	2.86	1.19	0.98	2.90	
1975	1.31	1.31	2.55	2.48	2.48	4.73	2.30	3.74	1.81	1.01	3.89	
1976	1.22	1.56	2.55	2.85	3.01	4.83	1.80	2.72	1.72	1.04	3.74	
1977	1.30	2.02	2.98	3.00	3.34	5.08	2.43	3.18	2.13	12.09	4.73	
1978	1.39	2.18	3.12	3.15	3.77	5.14	2.43	3.18	2.27	13.25	4.89	
1979	1.52	2.34	4.57	4.20	4.55	6.90	3.04	4.83	3.71	14.99	5.92	
1980	1.54	3.28	4.57	4.20	4.55	8.46	3.04	4.83	3.71	16.27	7.07	
1981	1.52	3.49	7.81	7.21	5.91	10.63	5.00	8.39	4.06	17.83	8.32	
1982	1.53	4.52	7.59	8.01	6.51	10.29	6.20	7.90	4.70	18.90	8.65	
1983	1.47	5.53	8.44	7.01	7.50	9.42	4.46	8.96	5.47	20.78	9.10	
1984	1.50	5.48	8.45	7.51	7.20	9.10	4.59	8.73	5.53	20.53	9.10	
1985	1.48	5.34	8.12	7.03	6.45	8.75	4.58	8.71	5.34	20.81	9.10	
1986	1.45	5.11	8.05	6.64	6.60	8.78	2.80	8.51	5.11	20.73	9.10	
1987	1.39	4.88	8.34	6.18	8.40	7.96	2.63	8.52	4.83	20.29	9.10	
1988	1.39	4.57	8.36	6.18	8.17	7.43	2.51	8.57	4.57	19.87	9.10	
1989	1.39	4.70	8.51	6.18	8.17	8.18	2.80	8.57	4.70	20.06	9.10	
1990	1.44	4.50	8.53	6.18	8.17	8.18	2.84	8.57	4.50	21.39	9.10	
1991	1.41	4.56	8.47	6.18	8.17	8.18	2.30	8.57	4.56	21.98	11.63	
1992	1.42	4.58	8.47	6.18	8.17	8.18	2.30	8.57	4.58	21.98	11.63	
1993	1.44	4.50	8.47	6.18	8.17	8.18	2.30	8.57	4.47	21.76	11.63	
1994	1.40	5.16	8.30	5.25	7.75	9.08	2.64	8.78	4.99	22.16	11.95	

Expenditure in Million Dollars

1970	9.5	140.9	13.8	0.7	3.8	6.2	3.8	27.1	176.6	368.2	544.7	
1971	9.7	155.6	13.7	0.7	3.9	6.2	3.3	27.8	182.2	411.4	603.5	
1972	8.4	162.7	13.1	0.6	4.4	8.2	2.6	31.2	222.1	453.6	678.6	
1973	8.2	181.9	15.0	0.6	4.7	10.2	3.7	34.1	224.5	503.2	727.7	
1974	22.1	207.3	26.0	1.6	8.2	14.2	11.4	61.3	290.8	628.4	917.1	
1975	21.8	227.6	28.0	1.5	8.0	23.7	20.1	83.5	322.5	686.7	1,003.2	
1976	21.6	290.3	38.6	2.3	9.9	23.2	19.6	94.7	407.3	765.1	1,182.3	
1977	36.5	309.5	49.6	2.6	10.8	19.8	32.1	114.8	459.0	895.1	1,349.1	
1978	30.1	388.3	51.3	2.4	11.2	20.7	28.0	113.7	539.0	974.6	1,504.7	
1979	21.6	411.3	41.8	2.0	9.0	34.6	25.6	113.0	546.0	1,000.9	1,464.9	
1980	21.3	461.1	44.8	4.4	8.9	18.2	8.5	113.0	546.0	1,000.9	1,464.9	
1981	16.3	597.9	18.1	2.7	10.6	8.2	0.9	79.1	1,259.2	1,584.2	2,386.9	
1982	16.8	732.6	28.3	2.8	11.3	49.3	5.8	157.7	917.0	1,800.5	2,707.6	
1983	18.2	807.3	32.1	13.7	14.6	39.0	0.8	157.7	1,041.5	1,919.5	2,961.5	
1984	22.1	862.8	31.5	13.6	15.1	39.0	0.6	157.7	1,100.8	2,000.7	3,101.5	
1985	18.7	794.9	27.8	17.4	28.0	28.0	2.2	141.2	1,069.2	2,088.1	3,148.3	
1986	23.7	743.7	42.6	15.0	18.0	86.3	2.6	140.8	908.0	2,156.5	3,308.5	
1987	17.6	718.7	45.3	15.2	21.3	77.9	0.9	159.3	856.7	2,199.6	3,308.5	
1988	15.9	754.3	45.3	15.2	21.3	115.0	1.2	198.9	856.7	2,199.6	3,308.5	
1989	11.7	791.4	44.3	15.2	24.0	68.5	0.3	164.7	856.7	2,199.6	3,308.5	
1990	14.6	867.8	44.3	15.2	24.0	68.5	0.6	164.7	856.7	2,199.6	3,308.5	
1991	10.8	871.6	44.3	15.2	24.0	68.5	0.6	164.7	856.7	2,199.6	3,308.5	
1992	13.3	871.6	44.3	15.2	24.0	68.5	0.6	164.7	856.7	2,199.6	3,308.5	
1993	13.0	871.6	44.3	15.2	24.0	68.5	0.6	164.7	856.7	2,199.6	3,308.5	
1994	11.4	897.4	37.6	15.2	24.0	68.5	0.6	164.7	856.7	2,199.6	3,308.5	

^a Liquid petroleum gases.
^b There are no data for propane and solar thermal energy sources.
 Expenditures for wood and waste are included in the residential sector.

Prices derived from:
 Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 224. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Ohio

Year	Primary Energy														Electricity	Total Energy ^c		
	Coal			Natural Gas	Petroleum												Nuclear ^e	Total ^d
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total					
Prices in Nominal Dollars per Million Btu																		
1970	8.42	8.40	8.41	8.57	0.74	0.77	0.84	1.29	8.08	2.83	0.98	1.14	1.21	—	8.89	2.99	8.89	
1971	0.50	0.43	0.45	0.60	0.85	0.81	0.89	1.42	5.27	3.03	0.95	1.17	1.28	—	0.87	3.89	0.94	
1972	0.58	0.47	0.53	0.62	0.89	0.81	0.89	1.42	5.59	3.03	0.99	1.16	1.31	—	0.71	3.13	1.06	
1973	0.88	0.60	0.60	0.68	0.89	0.79	0.85	1.49	5.33	3.09	0.83	1.22	1.31	—	0.76	3.38	1.08	
1974	1.30	0.99	1.17	0.79	1.84	2.22	2.41	2.64	7.22	4.48	2.00	1.87	2.42	—	1.29	4.62	1.72	
1975	1.57	1.31	1.47	1.68	2.80	3.31	2.88	2.83	7.48	4.73	2.17	2.96	3.89	—	1.69	6.81	2.16	
1976	1.53	1.22	1.41	1.59	2.97	2.49	2.65	3.01	7.06	4.63	1.98	2.87	2.68	—	1.70	5.59	2.29	
1977	1.53	1.30	1.46	1.95	2.97	2.75	3.00	3.54	6.97	5.09	2.31	2.92	2.89	—	1.95	6.36	2.69	
1978	1.78	1.39	1.63	1.96	2.17	2.89	3.15	3.77	7.80	5.14	2.37	2.96	3.03	—	2.11	7.51	2.99	
1979	1.76	1.62	1.69	2.30	2.80	3.87	4.20	4.36	10.21	6.90	2.75	4.24	4.12	—	2.71	8.22	3.56	
1980	2.00	1.84	1.79	3.81	3.86	4.48	5.81	5.39	14.38	9.48	3.31	6.98	6.73	—	3.88	9.73	4.43	
1981	2.35	1.52	2.05	3.25	5.92	6.60	7.21	6.81	16.08	10.63	4.57	8.53	6.93	—	4.04	10.94	5.40	
1982	2.43	1.63	2.07	4.19	4.29	7.29	8.01	6.81	17.25	10.29	4.63	7.89	7.07	—	4.49	18.00	5.83	
1983	2.18	1.47	1.81	4.99	4.21	^a 6.73	7.01	7.30	18.99	9.42	4.42	8.89	^a 7.39	—	^a 4.75	13.12	6.99	
1984	2.10	1.50	1.79	4.89	4.40	^a 6.82	7.51	7.20	17.63	9.10	4.59	8.40	7.44	—	4.59	11.94	6.05	
1985	2.85	1.49	1.78	4.89	4.49	^a 6.89	^a 7.89	9.49	17.81	9.15	4.48	7.57	^a 7.97	—	4.89	11.75	6.19	
1986	2.04	1.45	1.75	4.49	3.79	^a 4.22	^a 4.64	8.59	15.59	6.79	2.69	^a 8.07	^a 8.13	—	3.89	12.12	^a 5.89	
1987	1.72	1.39	1.56	4.09	3.29	^a 4.70	^a 5.18	8.20	12.70	7.39	2.83	^a 8.32	^a 8.89	—	^a 3.82	11.89	^a 5.44	
1988	1.73	1.39	1.56	3.94	3.29	^a 4.59	^a 4.63	8.46	14.61	7.43	2.51	^a 8.42	^a 5.71	—	^a 3.43	11.79	^a 5.23	
1989	1.78	1.39	1.58	4.02	2.99	^a 5.04	^a 5.55	6.17	14.48	6.19	2.80	^a 5.82	^a 6.69	—	^a 3.62	11.36	5.43	
1990	1.89	1.44	1.68	3.82	3.19	^a 6.14	^a 6.79	9.38	14.89	9.35	2.34	^a 6.17	^a 8.89	^a 4.89	^a 3.89	11.81	^a 5.84	
1991	1.72	1.41	1.85	3.82	2.98	^a 5.35	^a 5.89	9.59	16.79	9.23	2.30	^a 5.35	^a 8.89	1.89	3.71	12.31	^a 5.62	
1992	1.74	1.44	1.59	4.01	2.30	^a 5.46	^a 5.89	8.86	19.43	8.89	2.23	^a 5.89	^a 8.11	1.56	^a 3.99	12.14	^a 5.93	
1993	1.69	1.42	1.53	4.47	2.91	^a 4.89	^a 5.37	8.47	19.84	^a 8.32	2.42	^a 8.59	^a 8.25	1.57	^a 4.20	12.45	^a 6.24	
1994	1.57	1.43	1.51	4.29	2.05	4.74	5.22	8.89	19.18	8.89	2.64	5.38	5.72	1.57	4.90	12.12	6.08	
Expenditures in \$Billion Nominal Dollars																		
1970	146.8	153.3	381.8	299.8	44.3	94.5	18.8	26.7	73.7	29.7	7.9	58.5	391.1	—	889.5	483.4	1,262.8	
1971	146.9	152.5	291.4	253.2	46.1	48.5	15.6	20.9	73.3	30.9	8.5	58.1	395.1	—	819.8	497.4	1,207.2	
1972	186.1	133.1	321.2	259.8	53.1	49.7	11.9	22.7	89.1	27.9	9.2	62.0	319.8	—	985.7	564.8	1,461.5	
1973	248.5	115.9	364.4	279.8	63.8	51.3	11.0	23.9	87.9	29.4	15.8	78.6	350.4	—	982.7	649.2	1,635.8	
1974	478.3	260.4	738.7	328.9	99.1	140.8	23.2	40.1	114.2	41.5	41.8	108.8	603.6	—	1,689.3	885.4	2,554.0	
1975	519.3	288.9	818.2	398.9	118.0	149.7	26.2	34.7	88.3	37.7	73.9	188.8	647.2	—	1,639.4	1,042.9	2,679.9	
1976	511.4	249.7	760.1	409.5	108.7	201.4	27.8	40.8	94.4	34.4	73.0	178.8	766.7	—	2,816.4	1,172.4	3,988.8	
1977	515.9	261.3	777.2	514.6	126.3	253.5	35.5	53.5	101.2	33.5	111.1	221.8	914.9	—	2,205.7	1,444.6	3,650.5	
1978	576.7	248.7	825.4	439.8	139.3	241.5	31.3	67.4	118.6	31.5	92.8	248.5	883.7	—	2,423.7	1,894.5	4,318.2	
1979	514.8	248.9	821.7	733.9	164.5	326.2	44.5	667.4	106.5	26.3	82.3	361.3	1,539.0	—	3,394.8	1,845.4	5,241.0	
1980	549.5	174.1	723.6	929.8	176.1	399.8	44.8	797.9	299.8	87.3	98.1	586.1	2,343.4	—	3,595.8	1,792.8	5,388.1	
1981	629.3	229.8	859.1	1,027.9	271.4	473.8	88.2	764.1	250.9	48.4	128.8	497.0	2,499.4	—	4,385.5	1,981.4	6,366.9	
1982	485.4	199.8	685.1	1,181.8	208.5	469.3	72.2	893.6	219.1	25.4	44.4	371.7	2,294.3	—	4,056.9	1,829.2	5,886.1	
1983	274.6	902.5	477.1	1,276.7	188.8	^a 177.5	28.7	667.6	225.9	51.6	71.7	353.6	^a 2,653.3	—	^a 3,989.0	2,016.8	^a 5,995.8	
1984	287.2	214.7	501.8	1,262.0	201.1	^a 194.6	19.1	626.7	250.1	70.1	41.3	408.4	^a 1,808.2	—	^a 3,573.1	2,350.5	^a 5,923.6	
1985	287.4	183.7	473.1	1,183.8	198.3	^a 249.3	^a 43.1	798.7	232.4	51.8	37.5	384.7	^a 1,894.9	—	^a 3,534.9	2,381.2	^a 5,916.1	
1986	263.0	187.0	470.0	1,085.9	198.3	^a 142.8	^a 5.2	910.8	201.5	36.3	20.4	^a 298.9	^a 1,194.8	—	^a 2,729.9	2,392.9	^a 5,122.8	
1987	245.9	191.6	438.4	914.7	193.3	^a 144.8	^a 6.9	915.0	185.7	39.8	23.9	^a 242.2	^a 1,298.5	—	^a 2,998.7	2,422.9	^a 5,421.6	
1988	252.4	206.2	457.6	1,103.9	196.4	^a 132.4	^a 8.9	180.5	286.9	48.1	25.3	^a 287.3	^a 1,813.0	—	^a 2,575.4	2,438.6	^a 5,013.9	
1989	247.6	159.6	407.2	1,120.9	210.6	^a 154.2	^a 7.9	214.0	289.3	43.7	28.1	^a 296.6	^a 1,154.8	—	^a 2,802.6	2,593.4	^a 5,396.1	
1990	238.0	168.4	406.4	1,084.8	288.9	^a 189.7	^a 8.4	199.8	317.1	47.6	17.4	^a 304.2	^a 1,288.0	^a 4.89	^a 2,714.2	2,789.8	^a 5,504.0	
1991	170.7	165.7	336.4	1,087.4	178.5	^a 183.4	^a 3.8	189.2	223.5	46.7	9.9	^a 319.3	^a 1,155.2	21.6	^a 2,570.7	2,776.2	^a 5,549.9	
1992	175.2	139.9	315.1	1,399.3	153.2	^a 182.1	^a 4.4	304.8	281.6	131.8	12.5	^a 350.0	^a 1,412.5	19.7	^a 2,918.9	2,948.6	^a 6,727.4	
1993	120.9	142.6	273.0	1,301.7	148.4	^a 184.9	^a 9.6	^a 308.9	281.6	^a 52.0	^a 21.1	^a 319.0	^a 1,305.4	19.6	^a 2,823.9	2,947.4	^a 6,777.2	
1994	129.9	135.0	265.5	1,320.0	173.4	186.3	6.2	221.4	276.9	52.4	29.2	394.4	1,251.2	29.3	2,867.7	2,989.6	5,841.3	

^a Liquefied petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.^e Limited data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 225. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Ohio

Year	Primary Energy										Total	Electricity	Total Energy
	Coal	Natural Gas	Petroleum										
			Aviation Gasoline	Diesel Fuel	Jet Fuel	LPG*	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.40	—	2.17	1.26	0.74	1.39	5.00	2.93	0.84	2.00	2.00	4.05	2.00
1971	0.43	—	2.21	1.40	0.76	1.42	5.27	3.03	0.86	2.75	2.75	4.50	2.75
1972	0.47	—	2.19	1.37	0.78	1.42	5.50	3.03	0.86	2.72	2.72	4.61	2.72
1973	0.50	—	2.36	1.61	0.82	1.40	5.30	3.00	0.77	2.82	2.82	5.00	2.82
1974	0.99	—	3.23	2.01	1.50	2.04	7.22	4.45	2.01	4.12	4.12	7.07	4.12
1975	1.31	—	3.46	2.70	2.04	2.03	7.46	4.73	1.61	4.39	4.39	7.83	4.39
1976	1.22	—	3.59	2.96	2.35	3.04	7.05	4.83	1.73	4.49	4.48	8.59	4.48
1977	1.30	—	3.97	3.36	2.66	3.54	6.97	5.00	2.15	4.75	4.75	11.15	4.75
1978	—	—	4.29	3.54	2.87	3.77	7.80	5.14	2.11	4.82	4.82	12.04	4.82
1979	—	—	5.73	5.14	3.92	4.35	10.21	6.90	2.60	6.52	6.52	13.14	6.52
1980	—	—	5.82	4.96	4.30	4.34	14.36	6.45	3.02	6.87	6.87	13.51	6.87
1981	—	—	10.84	6.63	7.65	6.91	18.00	10.63	4.45	10.16	10.16	17.96	10.16
1982	—	—	10.82	6.20	7.22	6.81	17.25	10.20	4.70	9.87	9.87	20.78	9.87
1983	—	—	10.44	6.15	^R 6.73	7.30	10.98	9.42	4.22	^R 9.18	^R 9.18	22.27	^R 9.18
1984	—	—	10.27	6.26	^R 6.46	7.29	17.53	9.10	4.54	^R 8.90	^R 8.90	21.70	^R 8.90
1985	—	—	9.99	6.39	6.94	9.43	17.81	8.15	—	8.92	8.92	22.90	8.92
1986	—	—	8.41	6.47	6.86	8.89	15.59	6.76	2.51	8.61	8.61	23.15	8.61
1987	—	—	7.55	6.70	4.04	8.29	12.70	7.38	2.84	7.66	7.66	17.79	7.66
1988	—	—	7.41	6.57	3.92	8.46	14.61	7.43	2.16	7.13	7.13	17.01	7.13
1989	—	—	6.88	7.22	4.40	8.17	14.40	6.16	2.30	7.00	7.00	17.50	7.00
1990	—	3.04	9.32	6.45	5.73	9.36	14.89	9.36	2.70	8.98	8.98	17.97	8.98
1991	—	2.94	6.71	6.22	4.95	9.59	16.79	9.23	2.26	8.60	8.60	17.84	8.60
1992	—	3.01	6.54	6.02	4.64	8.88	19.49	8.96	2.41	8.56	8.56	18.26	8.56
1993	—	4.64	6.24	6.10	4.90	9.47	18.94	^R 8.82	2.42	^R 8.45	^R 8.45	18.27	^R 8.45
1994	—	4.70	7.96	6.11	4.02	8.88	19.10	9.08	2.38	8.58	8.58	18.67	8.58

Expenditures in Million Nominal Dollars													
1970	0.4	—	7.8	81.2	24.4	8.7	36.3	1,099.5	3.1	1,786.8	1,787.3	6.6	1,787.3
1971	0.9	—	7.6	82.1	28.2	0.9	39.7	1,666.6	1.4	1,863.5	1,863.5	0.6	1,864.4
1972	0.3	—	7.9	131.0	28.0	1.0	45.0	1,772.0	0.8	1,966.8	1,967.0	0.6	1,967.7
1973	0.2	—	7.4	153.6	38.0	1.2	49.9	1,990.1	0.5	2,146.9	2,147.1	0.6	2,147.8
1974	0.3	—	9.7	233.7	50.8	2.0	94.6	2,691.7	4.1	3,056.4	3,056.7	1.0	3,057.7
1975	0.1	—	6.5	251.5	69.3	1.9	73.6	2,887.8	6.9	3,296.5	3,296.8	1.2	3,299.8
1976	(6)	—	6.5	315.0	81.6	2.4	77.0	3,045.9	9.8	3,540.1	3,540.1	1.3	3,541.5
1977	(6)	—	9.3	341.5	99.7	3.3	60.2	3,314.2	8.6	3,836.9	3,836.9	1.6	3,838.6
1978	—	—	9.9	410.7	111.0	4.0	70.5	3,375.3	7.8	3,969.1	3,969.1	1.7	3,969.8
1979	—	—	12.0	599.6	149.0	9.7	99.1	4,340.0	12.0	5,210.4	5,210.4	2.1	5,212.5
1980	—	—	21.5	984.9	269.3	4.4	134.1	6,588.9	4.3	6,872.9	6,872.9	2.6	6,874.9
1981	—	—	22.3	1,173.5	344.3	7.4	149.2	6,039.5	1.4	7,037.8	7,037.8	2.9	7,040.5
1982	—	—	21.4	1,068.7	223.1	6.5	130.4	5,695.3	(8)	7,107.6	7,107.6	3.2	7,110.5
1983	—	—	20.9	1,024.5	^R 220.4	10.9	134.4	5,208.6	0.6	^R 6,820.1	^R 6,820.1	2.7	^R 6,822.6
1984	—	—	16.7	1,131.3	^R 248.5	14.1	143.6	5,039.4	1.1	^R 6,589.9	^R 6,589.9	2.6	^R 6,592.4
1985	—	—	18.6	1,674.9	245.3	12.8	138.8	5,744.9	—	6,832.3	6,832.3	3.2	6,835.5
1986	—	—	15.0	689.8	215.8	12.9	119.0	3,864.0	0.1	5,107.4	5,107.4	3.2	5,110.6
1987	—	—	9.1	686.2	246.2	10.6	110.5	4,360.1	0.5	5,573.1	5,573.1	2.8	5,575.4
1988	—	—	12.4	686.9	209.6	10.8	122.4	4,411.1	0.2	5,696.6	5,696.6	2.3	5,698.9
1989	—	—	10.5	1,182.9	253.6	11.2	124.6	4,861.9	0.1	6,374.6	6,374.6	2.4	6,377.3
1990	—	0.2	11.2	1,296.5	303.9	12.3	129.2	5,285.1	0.1	7,037.8	^R 7,037.8	2.4	^R 7,040.4
1991	—	0.2	9.4	1,149.6	291.0	10.1	133.0	5,234.4	0.1	6,827.7	^R 6,827.7	2.4	^R 6,830.9
1992	—	0.2	9.7	1,174.9	279.0	8.1	156.6	4,984.3	0.8	6,593.7	^R 6,593.7	2.7	^R 6,596.6
1993	—	0.2	6.6	1,280.9	252.1	8.4	156.7	^R 5,245.1	0.2	^R 6,998.0	^R 6,998.0	^R 2.5	^R 6,999.7
1994	—	0.2	7.5	1,382.1	266.7	14.5	164.8	5,828.1	1.0	7,143.7	7,143.9	2.5	7,146.4

* Liquefied petroleum gases.

^R—Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(9)—Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 226. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Ohio

Year	Petroleum					Nuclear Fuel	Solar/Geothermal	Total Energy *	
	Coal	Natural Gas	Heavy Oil	Petrolium					Total
				Light Oil	Petrolium Cokes				
Prices in Nominal Dollars per Million Btu									
1970	0.29	0.39	0.69	0.75	—	—	0.65	0.30	
1971	0.35	0.49	0.73	0.79	—	—	0.69	0.36	
1972	0.36	0.40	0.75	0.83	—	—	0.72	0.39	
1973	0.43	0.67	0.85	1.22	—	—	0.77	0.44	
1974	0.66	0.69	2.16	2.16	—	—	0.84	0.91	
1975	0.86	1.19	2.15	2.35	—	—	0.82	0.86	
1976	0.85	1.27	1.89	2.47	—	—	0.80	0.80	
1977	1.01	1.40	2.39	2.60	—	0.19	1.04	1.06	
1978	1.25	1.56	2.63	2.83	—	0.27	1.12	1.26	
1979	1.33	1.83	2.93	3.72	—	0.25	1.56	1.34	
1980	1.44	2.86	3.59	5.72	—	0.26	1.74	1.50	
1981	1.64	3.23	4.85	7.15	—	0.44	1.24	1.62	
1982	1.72	4.25	5.22	7.44	—	0.53	1.26	1.71	
1983	1.72	5.17	4.46	6.71	—	0.81	1.12	1.66	
1984	1.72	5.17	4.71	6.71	—	0.87	1.23	1.69	
1985	1.68	5.09	4.43	6.69	—	1.89	0.79	1.70	
1986	1.53	4.67	2.73	3.71	—	0.72	0.32	1.63	
1987	1.56	3.04	3.00	4.10	—	0.73	0.65	1.51	
1988	1.52	3.47	2.45	3.77	—	1.33	0.67	1.52	
1989	1.49	3.13	2.66	3.43	—	1.32	(b)	1.49	
1990	1.52	3.35	3.12	5.40	—	1.24	(b)	1.50	
1991	1.46	2.19	2.56	4.97	—	1.14	(b)	1.46	
1992	1.44	2.24	2.72	4.51	—	1.12	(b)	1.40	
1993	1.41	2.65	2.70	4.07	—	1.07	(b)	1.39	
1994	1.44	3.75	2.65	4.04	—	1.05	—	1.42	

Expenditures in Million Nominal Dollars	
1970	230.5
1971	297.0
1972	343.8
1973	421.9
1974	659.1
1975	967.4
1976	1,026.2
1977	1,111.5
1978	1,349.4
1979	1,538.0
1980	1,641.4
1981	1,609.0
1982	1,621.6
1983	1,794.6
1984	1,816.1
1985	1,669.8
1986	1,654.3
1987	1,794.9
1988	1,770.4
1989	1,776.7
1990	1,763.7
1991	1,751.6
1992	1,731.8
1993	1,752.1
1994	1,711.0

1970	6.5	3.0	3.4	6.4	—	—	—	246.5
1971	10.3	2.9	5.9	8.8	—	—	—	316.1
1972	6.2	4.2	12.5	16.7	—	—	—	385.7
1973	8.8	9.6	12.1	21.6	—	—	—	452.6
1974	13.8	39.0	34.3	71.2	—	—	—	943.1
1975	4.3	18.6	35.2	53.2	—	—	—	1,044.9
1976	5.6	14.5	42.4	56.9	—	—	—	1,066.6
1977	3.3	38.0	52.5	91.5	0.9	0.9	—	1,207.2
1978	3.2	56.6	99.7	118.6	7.2	7.2	—	1,475.3
1979	9.5	90.0	38.4	65.4	6.6	6.6	—	1,642.6
1980	13.7	13.5	62.7	68.3	8.4	8.4	—	1,723.9
1981	6.8	6.7	35.1	41.8	21.3	21.3	—	1,678.9
1982	6.3	4.7	31.6	36.5	19.1	19.1	—	1,682.6
1983	5.5	2.9	20.4	23.3	32.6	32.6	—	1,646.3
1984	3.6	3.3	18.7	22.0	31.3	31.3	—	1,679.6
1985	3.5	3.9	13.0	22.4	23.0	23.0	—	1,671.7
1986	2.8	1.4	10.7	12.1	0.2	0.2	—	1,670.3
1987	2.7	17.7	12.4	14.1	69.0	69.0	—	1,944.2
1988	3.4	8.0	11.7	17.7	120.6	120.6	—	1,915.4
1989	3.1	8.5	12.6	21.1	179.7	179.7	—	1,990.6
1990	3.2	2.7	14.2	16.9	181.3	181.3	—	1,898.8
1991	7.1	2.7	16.7	19.4	162.1	162.1	—	1,960.3
1992	6.8	1.1	11.2	12.9	178.6	178.6	—	1,927.6
1993	8.1	0.3	12.9	13.0	114.2	114.2	—	1,937.8
1994	10.9	0.6	19.6	20.9	124.3	124.3	—	1,866.4

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^b Limited waste biomass fuels at no charge or reversed a fee for abating them.

—No consumption.

(b)-Value less than 0.05 million nominal dollars.

Note: Expenditure totals may not equal sum of components due to independent rounding. Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Expenditure in Million Nominal Dollars

1970	230.5	6.6	3.0	3.4	—	6.4	—	(b)	246.5
1971	297.0	10.3	2.9	5.9	—	8.8	—	(b)	316.1
1972	342.8	6.2	4.2	12.5	—	16.7	—	(b)	365.7
1973	421.9	8.6	9.6	12.1	—	21.8	—	(b)	452.6
1974	659.1	13.8	38.6	34.3	—	71.2	—	(b)	743.1
1975	867.4	18.3	18.6	35.2	—	93.2	—	(b)	1,004.9
1976	1,026.2	5.6	14.5	42.4	—	56.9	—	(b)	1,096.6
1977	1,111.5	3.3	39.0	53.5	—	91.5	—	(b)	1,207.2
1978	1,349.4	3.2	56.6	59.7	—	115.6	7.2	(b)	1,475.2
1979	1,538.0	9.5	50.0	56.4	—	96.4	9.6	(b)	1,642.6
1980	1,441.4	13.7	13.5	64.7	—	94.3	21.3	(b)	1,728.9
1981	1,609.0	6.8	6.7	35.1	—	41.8	19.1	(b)	1,807.9
1982	1,621.6	6.3	4.7	31.6	—	36.5	32.6	(b)	1,892.6
1983	1,794.6	5.5	2.9	20.4	—	23.2	31.3	(b)	1,846.2
1984	1,816.1	3.6	3.3	19.7	—	23.0	25.9	(b)	1,879.6
1985	1,659.8	3.5	3.9	18.0	—	22.8	0.2	(b)	1,679.7
1986	1,654.3	2.9	1.4	10.7	—	12.1	0.2	(b)	1,670.3
1987	1,764.9	2.7	1.7	13.4	—	14.1	59.0	(b)	1,844.2
1988	1,770.4	3.4	8.0	11.7	—	17.7	120.8	(b)	1,915.4
1989	1,776.7	3.1	8.5	12.6	—	21.1	179.7	(b)	1,960.0
1990	1,753.7	3.2	2.7	14.2	—	16.9	141.3	(b)	1,928.8
1991	1,751.8	7.1	2.7	16.7	—	19.4	162.1	(b)	1,940.3
1992	1,751.8	6.9	1.1	12.3	—	12.3	175.6	(b)	1,927.6
1993	1,752.1	6.1	0.3	12.9	—	13.3	144.2	(b)	1,897.6
1994	1,711.0	10.9	0.6	19.6	—	20.3	124.3	(b)	1,868.4

Table 227. Energy Price and Expenditure Estimates by Source, 1970-1994, Oklahoma

Year	Primary Energy													Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c	
	Coal			Natural Gas	Petroleum						Nuclear Fuel	Waste	Total ^c				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b							Total
Prices in Nominal Dollars per Million Btu																	
1970	—	0.57	0.57	0.35	0.80	0.72	1.42	2.82	0.80	\$ 1.81	1.97	—	—	1.03	0.19	5.78	1.83
1971	—	0.65	0.65	0.38	0.88	0.75	1.49	2.80	0.44	\$ 1.11	2.01	—	—	1.06	0.21	5.78	1.86
1972	—	0.46	0.46	0.36	0.63	0.75	1.44	2.76	0.55	\$ 1.19	1.98	—	—	1.00	0.24	5.81	1.93
1973	—	0.36	0.36	0.42	1.07	0.89	2.19	2.89	0.89	\$ 1.31	2.20	—	—	1.21	0.28	5.71	2.12
1974	—	0.81	0.81	0.53	2.17	1.54	3.01	4.04	1.55	\$ 1.97	3.14	—	—	1.51	0.40	8.11	2.60
1975	—	0.96	0.96	0.75	2.36	2.01	2.81	4.52	1.89	\$ 2.25	3.82	—	—	1.90	0.81	8.84	3.08
1976	—	1.31	1.31	1.05	2.84	2.12	3.82	4.78	1.87	\$ 2.37	3.78	—	—	2.13	1.01	7.82	3.25
1977	—	1.14	1.14	1.38	2.89	2.48	4.00	5.10	1.94	\$ 2.74	4.10	—	—	2.44	1.29	8.99	3.69
1978	—	1.14	1.14	1.52	3.02	2.86	4.21	5.34	1.90	\$ 2.98	4.31	—	—	2.59	1.39	9.74	4.00
1979	—	1.22	1.22	1.84	4.84	3.96	4.40	6.09	2.37	\$ 3.80	5.67	—	—	3.24	1.50	10.16	4.89
1980	—	1.25	1.25	1.96	6.77	6.34	6.83	9.78	3.33	\$ 5.16	7.97	—	—	4.84	1.63	11.80	6.45
1981	—	1.46	1.46	2.27	7.33	7.47	6.56	10.89	4.33	\$ 7.43	9.19	—	—	4.88	1.77	13.53	7.50
1982	—	1.68	1.68	2.66	7.47	7.09	7.20	10.25	4.84	\$ 6.61	8.84	—	—	4.67	1.90	15.54	7.64
1983	—	1.74	1.74	3.06	\$ 6.96	\$ 6.41	7.83	9.78	4.86	\$ 6.84	7.90	—	—	\$ 4.55	2.10	16.42	\$ 7.61
1984	—	1.73	1.73	3.28	\$ 7.00	\$ 6.24	7.28	8.64	4.20	\$ 7.64	7.53	—	—	\$ 4.50	2.21	16.31	\$ 7.49
1985	—	1.89	1.89	3.41	\$ 6.74	5.87	7.21	8.76	3.41	\$ 8.89	7.73	—	—	\$ 4.68	2.38	17.23	\$ 7.73
1986	—	1.65	1.65	3.11	\$ 5.38	3.94	7.92	6.30	2.09	\$ 6.89	6.03	—	—	3.87	2.17	17.83	\$ 6.97
1987	—	1.68	1.68	2.75	\$ 5.08	3.90	7.40	7.08	2.18	\$ 5.80	5.36	—	—	\$ 3.78	2.08	16.48	\$ 6.62
1988	—	1.60	1.60	2.80	\$ 5.63	3.75	6.45	7.12	1.81	\$ 5.67	5.17	—	—	\$ 3.68	2.04	16.20	\$ 6.49
1989	—	1.36	1.36	2.85	\$ 6.17	4.27	5.70	7.79	2.04	\$ 6.03	5.70	—	—	3.84	2.02	16.28	6.69
1990	—	1.40	1.40	2.89	\$ 7.49	6.83	6.50	9.80	2.46	\$ 5.75	7.88	—	\$ 2.28	\$ 4.28	2.08	16.86	\$ 7.25
1991	—	1.32	1.32	2.78	\$ 6.95	4.73	6.46	8.72	1.77	\$ 6.17	7.41	—	2.24	\$ 4.02	1.82	16.99	\$ 7.21
1992	—	1.24	1.24	3.02	\$ 6.71	4.42	5.98	8.37	2.29	\$ 6.36	7.03	—	2.27	4.03	1.88	17.04	\$ 7.11
1993	—	1.25	1.25	3.17	\$ 6.60	4.12	7.17	\$ 8.21	2.42	\$ 5.94	7.09	—	2.18	\$ 4.01	1.88	17.51	\$ 7.21
1994	—	1.05	1.05	3.01	6.63	3.84	7.26	8.16	2.35	6.30	7.00	—	2.10	3.96	1.60	17.16	7.18
Expenditure in Million Nominal Dollars																	
1970	—	4.1	4.1	182.7	28.7	17.2	64.3	481.9	2.2	\$ 66.4	586.3	—	—	788.7	-46.8	\$ 11.7	1,854.5
1971	—	0.1	0.1	180.8	25.8	18.1	51.0	496.3	0.6	\$ 66.2	559.1	—	—	820.0	-51.7	395.1	1,103.3
1972	—	0.1	0.1	181.6	38.2	17.1	61.3	522.0	4.6	\$ 68.6	702.1	—	—	863.8	-65.4	392.0	1,210.2
1973	—	1.5	1.5	197.0	56.1	19.7	79.4	588.9	5.2	\$ 90.6	628.9	—	—	1,027.3	-77.8	409.8	1,359.4
1974	—	3.4	3.4	274.5	110.7	33.6	99.0	784.6	11.7	\$ 123.7	1,183.7	—	—	1,441.7	-122.1	459.8	1,779.4
1975	—	4.8	4.8	392.2	128.1	48.2	88.1	813.4	8.7	\$ 138.8	1,329.1	—	—	1,721.5	-180.0	588.6	2,441.9
1976	—	2.0	2.0	648.2	173.4	46.3	126.1	1,011.1	6.3	\$ 133.8	1,468.7	—	—	2,147.0	-348.7	629.3	2,428.6
1977	—	14.1	14.1	875.5	216.4	57.0	137.3	1,183.0	7.5	\$ 180.4	1,701.6	—	—	2,551.2	-482.9	794.1	2,922.4
1978	—	50.0	50.0	976.5	253.4	74.8	163.3	1,227.0	7.2	\$ 171.2	1,866.9	—	—	2,913.5	-565.4	919.0	3,275.0
1979	—	74.0	74.0	1,182.9	409.6	99.4	133.1	1,518.3	13.0	\$ 233.3	2,404.5	—	—	3,671.3	-634.2	984.7	4,051.9
1980	—	132.5	132.5	1,208.5	478.2	170.5	198.3	2,038.2	13.1	\$ 398.5	3,082.7	—	—	4,844.7	-727.3	1,211.3	6,028.7
1981	—	230.6	230.6	1,383.9	680.4	208.5	169.7	2,384.1	18.9	\$ 399.0	3,355.5	—	—	5,330.1	-783.2	1,571.2	6,118.1
1982	—	337.4	337.4	1,484.8	631.0	232.5	206.3	2,337.0	15.1	\$ 261.2	3,683.2	—	—	5,504.9	-850.3	1,863.8	6,508.2
1983	—	380.6	380.6	1,642.7	\$ 671.3	\$ 212.4	227.4	1,865.7	10.3	\$ 272.5	3,369.7	—	—	\$ 5,383.0	-868.0	2,054.9	\$ 6,482.0
1984	—	400.4	400.4	1,780.8	\$ 732.7	\$ 243.0	183.6	1,902.6	6.3	\$ 260.3	3,327.6	—	—	\$ 5,408.6	-965.2	1,979.9	\$ 6,473.2
1985	—	408.3	408.3	1,833.3	\$ 729.5	198.6	204.8	1,848.7	2.4	\$ 277.3	3,326.2	—	—	\$ 5,368.7	-988.8	2,141.2	\$ 6,523.5
1986	—	360.2	360.2	1,418.3	\$ 438.5	123.8	168.6	1,342.7	3.2	\$ 257.3	3,217.9	—	—	\$ 4,024.4	-883.8	2,159.5	\$ 6,368.1
1987	—	379.9	379.9	1,305.9	\$ 484.4	161.8	148.9	1,439.3	3.3	\$ 190.1	2,421.8	—	—	\$ 4,107.2	-882.1	2,014.1	\$ 6,239.3
1988	—	404.1	404.1	1,307.5	\$ 458.9	150.7	96.2	1,454.1	5.2	\$ 215.7	2,410.5	—	—	\$ 4,122.2	-900.4	2,047.7	\$ 6,299.6
1989	—	386.5	386.5	1,363.3	\$ 530.6	220.5	118.0	1,590.1	3.7	\$ 201.8	2,581.5	—	—	\$ 4,391.3	-891.0	2,040.0	\$ 6,540.3
1990	—	388.1	388.1	1,307.5	\$ 688.4	288.6	75.8	1,851.0	7.8	\$ 224.3	3,065.7	—	\$ 15.2	\$ 4,787.6	-944.7	2,318.2	\$ 6,208.0
1991	—	384.4	384.4	1,282.8	\$ 573.6	279.1	111.7	1,778.1	2.0	\$ 237.6	2,982.2	—	16.9	\$ 4,648.1	-882.2	2,288.6	\$ 6,060.5
1992	—	381.7	381.7	\$ 1,281.5	\$ 638.2	321.7	86.6	1,754.2	5.9	\$ 233.4	3,037.9	—	16.9	\$ 4,716.0	-836.3	\$ 2,207.6	\$ 6,080.2
1993	—	414.5	414.5	\$ 1,429.4	\$ 645.1	207.9	\$ 144.5	\$ 1,758.6	\$ 7.2	\$ 249.7	3,014.9	—	15.8	\$ 4,574.7	-873.1	2,403.3	\$ 6,404.9
1994	—	321.3	321.3	1,367.0	688.7	223.4	144.5	1,751.3	5.2	250.6	3,073.7	—	15.8	4,777.9	-719.3	2,391.1	6,449.6

^a Liquefied petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used as electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discrepancy in this time series between 1988 and 1990 due to the expanded coverage of non-electric utility use of fuels beginning in 1990

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 223. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Oklahoma

Year	Primary Energy								Electricity	Total Energy ^c
	Coal	Natural Gas	Petroleum				Distillate ^a	Total ^c		
			Distillate Fuel	Kerosene	LPG ^b	Total				
Prices in Nominal Dollars per Million Btu										
1970	0.88	0.81	0.88	1.41	1.88	1.80	—	8.90	7.42	2.24
1971	0.84	0.85	0.91	1.44	1.85	1.85	—	1.02	7.45	2.38
1972	0.88	0.88	0.91	1.41	1.59	1.59	—	1.04	7.41	2.54
1973	1.46	0.91	1.13	1.67	2.78	2.78	—	1.32	7.25	2.84
1974	1.07	1.02	2.18	2.78	3.22	3.21	—	1.49	7.65	3.14
1975	1.58	1.22	2.22	2.88	3.13	3.12	—	1.82	8.32	3.19
1976	1.41	1.51	2.48	3.09	4.11	4.09	—	2.05	9.45	3.79
1977	1.61	1.78	2.80	3.53	4.24	4.23	—	2.24	10.80	4.28
1978	1.71	1.92	2.91	3.74	4.36	4.38	—	2.41	11.38	4.78
1979	2.97	2.18	4.83	6.24	5.67	6.88	—	2.44	11.88	5.12
1980	2.54	2.48	6.88	7.88	7.28	7.28	—	2.84	13.88	6.48
1981	3.42	2.87	8.00	9.71	7.40	7.47	—	3.31	15.88	7.88
1982	3.18	3.50	7.54	9.87	8.49	8.50	—	3.85	18.00	8.91
1983	2.91	4.18	8.85	8.57	8.05	8.05	—	4.89	19.31	9.84
1984	2.92	4.48	8.61	8.34	7.90	7.82	—	4.72	18.18	9.47
1985	2.83	4.48	8.73	8.57	7.78	7.47	—	4.78	19.37	10.08
1986	2.78	4.80	8.41	8.63	6.95	6.90	—	5.05	20.89	11.17
1987	2.40	4.48	8.84	4.45	6.33	6.28	—	4.82	19.76	10.71
1988	2.12	4.26	8.81	5.88	6.80	6.71	—	4.51	19.74	10.33
1989	2.43	4.40	8.14	7.52	6.70	6.71	—	4.57	20.52	10.41
1990	2.41	4.71	7.37	8.82	6.27	6.28	^a 3.53	^a 4.88	18.29	^a 10.87
1991	2.36	4.86	6.84	8.38	7.36	7.38	3.53	^a 4.78	20.82	^a 10.77
1992	2.43	4.85	6.25	7.85	8.11	8.08	3.53	^a 4.98	21.01	^a 10.90
1993	2.78	4.84	6.28	7.68	8.82	8.80	3.53	^a 5.01	20.84	^a 10.80
1994	2.25	5.58	7.88	8.88	8.58	8.53	3.53	5.48	20.81	11.38
Expenditures in Million Nominal Dollars										
1970	(a)	68.1	(a)	8.4	35.1	35.5	—	188.7	184.8	286.3
1971	(a)	65.8	(a)	0.3	34.7	35.0	—	188.8	187.7	288.5
1972	(a)	63.7	0.1	0.3	35.1	36.4	—	186.2	231.8	306.8
1973	(a)	67.8	0.1	0.4	68.6	68.1	—	126.9	238.9	385.8
1974	(a)	78.6	0.2	0.5	83.4	84.1	—	140.7	296.0	486.7
1975	(a)	97.8	0.2	0.4	85.4	86.0	—	163.3	288.7	482.8
1976	(a)	122.9	0.2	0.2	87.5	87.9	—	210.8	300.0	610.8
1977	0.1	154.8	0.2	0.3	88.3	88.6	—	243.7	372.8	816.4
1978	0.1	182.2	0.3	0.4	91.2	91.9	—	254.1	429.6	883.7
1979	0.4	187.5	0.2	0.2	98.7	98.0	—	228.9	494.7	861.6
1980	0.6	188.5	0.4	0.9	47.1	48.6	—	287.8	508.8	884.8
1981	0.3	206.5	4.5	0.8	80.9	56.1	—	281.7	722.1	883.8
1982	0.4	261.0	(a)	0.8	68.8	67.8	—	348.1	888.1	1,217.1
1983	(a)	343.5	3.8	0.8	84.8	88.5	—	432.0	885.0	1,306.9
1984	0.1	371.0	3.2	1.2	46.2	50.6	—	421.7	894.3	1,306.0
1985	0.1	348.2	1.8	0.8	88.8	89.4	—	487.8	981.4	1,388.4
1986	0.1	333.7	0.9	0.3	37.4	38.7	—	372.4	981.5	1,353.9
1987	(a)	297.1	0.2	0.8	31.8	32.3	—	329.5	949.8	1,279.0
1988	0.1	325.3	0.8	0.8	32.9	34.5	—	368.9	975.0	1,354.8
1989	(a)	323.1	(a)	0.8	37.2	38.1	—	381.1	982.0	1,323.1
1990	(a)	395.0	(a)	0.8	38.2	38.7	^a 9.8	^a 388.2	1,124.8	^a 1,487.2
1991	(a)	328.8	(a)	0.5	36.5	36.9	10.0	^a 373.8	1,078.0	^a 1,451.8
1992	(a)	326.4	0.1	0.5	32.6	33.2	10.8	^a 370.2	1,022.0	^a 1,382.2
1993	(a)	387.1	(a)	0.3	40.9	41.2	9.2	^a 437.5	1,138.0	^a 1,573.6
1994	(a)	380.7	(a)	0.3	37.4	37.7	9.1	427.4	1,134.1	1,581.5

^a Liquid petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct heat costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1988 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

R-Reviewed data.

—No consumption.

(a)-Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 229. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Oklahoma

Year	Primary Energy								Electricity	Total Energy ^a	
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^b	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.45	0.51	0.82	0.82	1.12	2.82	0.47	1.10	0.81	5.58	1.88
1971	0.65	0.52	0.85	0.82	1.24	2.80	0.44	1.22	0.85	5.56	1.81
1972	0.48	0.55	0.83	0.81	1.18	2.78	0.54	1.11	0.86	5.70	1.91
1973	0.36	0.69	1.03	0.78	1.34	2.90	0.75	1.26	0.77	5.64	2.06
1974	0.61	0.70	2.05	2.17	2.80	4.04	1.67	2.44	1.07	6.05	2.43
1975	0.94	0.84	2.12	2.37	2.88	4.62	1.46	2.58	1.24	6.73	2.98
1976	1.31	1.18	2.37	2.63	2.85	4.73	1.49	2.79	1.47	7.99	3.45
1977	1.23	1.51	2.89	3.07	3.64	5.10	1.95	3.36	1.81	9.16	4.21
1978	1.48	1.88	2.79	3.23	3.96	5.34	1.83	3.50	2.01	10.05	4.69
1979	1.85	2.40	4.43	4.74	4.05	6.99	2.27	4.51	3.50	10.80	5.83
1980	1.89	2.30	8.31	6.42	5.72	9.78	3.42	7.30	2.74	11.81	6.12
1981	1.55	2.76	7.65	5.38	6.29	10.89	—	8.16	3.47	13.16	7.81
1982	1.77	3.42	7.21	8.89	6.71	10.25	—	7.96	3.85	14.77	8.55
1983	1.77	3.36	^a 8.25	7.19	7.24	8.76	—	^a 7.22	4.43	15.94	9.28
1984	1.78	4.35	^a 6.31	6.94	7.09	8.64	—	^a 7.33	^a 4.79	17.03	^a 9.51
1985	1.79	4.32	^a 5.88	^a 6.82	7.01	8.78	—	^a 6.85	^a 4.79	18.82	^a 10.89
1986	1.84	4.31	^a 5.86	^a 4.27	8.28	6.30	—	^a 5.75	^a 4.46	18.48	^a 11.29
1987	1.95	4.05	^a 4.21	^a 4.79	7.78	7.08	2.18	^a 5.79	^a 4.29	17.13	^a 10.78
1988	1.86	3.92	^a 3.80	^a 4.42	4.95	7.12	1.80	^a 4.87	^a 4.03	16.87	^a 9.38
1989	1.42	3.86	^a 4.44	^a 5.01	5.33	7.79	2.01	^a 5.27	^a 4.07	16.87	10.04
1990	1.33	3.84	^a 5.47	^a 6.20	5.53	9.00	2.38	^a 6.28	4.39	16.88	10.57
1991	1.32	3.86	^a 4.86	^a 5.52	6.10	8.72	1.86	^a 6.64	4.07	17.59	10.85
1992	1.39	4.14	^a 4.66	^a 5.45	4.47	8.37	2.29	^a 6.29	^a 4.28	17.68	^a 11.16
1993	1.41	4.33	^a 4.48	^a 5.29	6.67	^a 8.21	—	5.35	4.39	18.04	11.10
1994	1.53	4.61	4.26	5.83	7.76	8.16	—	5.84	4.67	17.46	11.47
Expenditures in Million Nominal Dollars											
1970	(a)	22.8	4.5	0.8	4.3	3.4	0.8	9.8	32.5	82.8	185.4
1971	(a)	22.4	0.6	0.8	4.6	3.5	0.8	10.1	32.5	80.2	122.7
1972	(a)	24.8	1.7	0.6	4.6	3.5	1.3	11.8	38.5	104.0	140.5
1973	(a)	25.9	2.5	0.6	5.0	3.9	2.4	14.8	40.5	108.0	148.8
1974	(a)	30.9	4.9	1.8	8.4	6.3	4.0	25.5	66.4	179.3	276.3
1975	(a)	39.1	8.0	1.4	9.4	6.3	1.8	24.8	82.1	219.8	318.8
1976	0.1	52.3	7.5	0.8	10.7	6.9	1.9	27.8	80.3	184.1	274.3
1977	0.1	73.8	7.7	1.1	13.3	7.6	1.9	31.6	105.3	242.8	348.1
1978	0.1	77.1	8.6	1.6	14.5	8.1	1.4	35.2	112.3	280.3	389.6
1979	0.4	177.6	5.4	0.7	5.0	10.8	3.2	26.2	203.4	301.4	504.8
1980	0.6	948.4	11.6	0.5	6.5	15.5	6.8	34.8	143.8	388.8	588.6
1981	0.1	118.6	23.3	1.2	7.6	19.0	—	30.2	165.3	475.0	641.9
1982	0.4	157.7	6.6	9.8	9.3	17.3	—	42.8	200.3	573.2	774.1
1983	0.1	182.3	21.7	0.6	12.0	18.9	—	53.1	^a 235.5	640.0	^a 675.5
1984	0.1	196.5	^a 23.7	0.8	7.3	27.2	—	^a 56.8	^a 256.4	652.3	^a 937.7
1985	0.1	179.8	^a 24.6	^a 0.7	8.8	15.4	—	^a 49.8	^a 228.8	719.9	^a 989.7
1986	0.1	180.2	^a 6.0	0.1	7.6	11.4	—	^a 25.4	^a 188.4	734.7	^a 921.1
1987	0.1	135.5	^a 10.0	0.1	6.6	13.3	0.2	^a 30.5	^a 188.1	677.5	^a 843.7
1988	0.2	194.8	^a 13.8	^a 1.1	4.2	12.6	0.1	^a 31.8	^a 227.0	690.0	^a 917.0
1989	(a)	151.7	^a 16.5	^a 2.5	3.2	12.6	0.6	^a 37.8	^a 188.3	684.0	^a 873.3
1990	(a)	145.8	^a 17.2	^a 0.4	4.3	17.4	1.2	^a 46.7	^a 188.6	776.0	^a 982.8
1991	(a)	154.8	^a 19.7	0.3	8.3	10.6	0.8	^a 30.7	^a 183.6	780.0	^a 945.8
1992	(a)	^a 148.9	^a 10.2	0.1	3.2	7.6	0.6	^a 21.7	^a 170.5	^a 749.0	^a 916.9
1993	(a)	^a 180.2	^a 8.5	0.2	5.5	1.6	—	18.7	^a 195.9	796.0	^a 981.3
1994	(a)	172.7	6.8	0.1	6.0	1.6	—	14.2	196.9	792.1	979.0

* Liquefied petroleum gases.

^a There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R-Reviewed data.

—No consumption.

(a)-Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 230. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Oklahoma

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Biomass ^e	Total ^g		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^d	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	—	—	0.25	0.68	0.54	0.62	1.12	5.08	2.22	0.59	0.58	0.82	—	0.83	3.13	0.76
1971	—	0.68	0.68	0.28	0.73	0.54	0.62	1.24	5.27	2.80	0.58	0.67	0.90	—	0.58	3.09	0.80
1972	—	0.48	0.48	0.29	0.79	0.63	0.61	1.19	5.58	2.78	0.58	0.64	0.88	—	0.80	3.13	0.85
1973	—	0.36	0.36	0.36	0.63	0.68	0.79	1.34	5.33	2.99	0.68	0.68	1.00	—	0.72	3.20	0.97
1974	—	0.81	0.81	0.48	1.44	1.87	2.17	2.69	7.22	4.04	1.50	0.89	1.63	—	1.13	3.57	1.35
1975	—	0.84	0.84	0.72	1.86	2.09	2.37	2.86	7.46	4.52	1.63	1.48	2.97	—	1.39	4.28	1.70
1976	—	1.31	1.31	0.90	1.90	2.28	2.83	2.85	7.05	4.78	1.79	1.58	2.22	—	1.43	5.52	1.81
1977	—	1.23	1.23	1.31	2.01	2.54	3.07	3.64	6.97	5.10	1.94	1.84	2.54	—	1.79	6.70	2.26
1978	—	1.48	1.48	1.48	2.21	2.70	3.23	3.96	7.80	5.34	1.95	1.84	2.72	—	1.97	7.27	2.49
1979	—	1.66	1.66	1.79	2.59	4.28	4.74	4.06	10.21	6.80	2.42	2.03	3.89	—	2.68	7.56	3.04
1980	—	1.39	1.39	2.11	3.80	5.88	6.42	6.72	14.36	9.78	3.22	2.90	4.82	—	3.23	8.31	3.80
1981	—	1.65	1.65	2.49	4.79	4.90	5.38	6.29	16.00	10.89	4.34	3.66	5.64	—	3.57	10.80	4.16
1982	—	1.77	1.77	2.90	4.03	8.05	6.99	6.71	17.25	10.25	4.84	2.96	5.87	—	3.77	12.20	4.71
1983	—	1.77	1.77	3.23	4.21	R 6.84	7.19	7.24	16.86	8.76	4.87	5.97	R 9.28	—	R 4.19	12.83	R 5.21
1984	—	1.78	1.78	3.27	4.19	R 6.54	6.94	7.09	17.83	8.84	4.25	4.17	R 8.48	—	R 4.21	12.89	R 5.16
1985	—	1.79	1.79	3.23	4.20	R 6.24	R 6.82	7.01	17.61	8.78	3.39	3.36	R 8.36	—	R 4.23	13.33	R 5.28
1986	—	1.84	1.84	2.57	4.58	R 4.03	R 4.27	6.25	15.59	6.90	2.11	R 2.95	R 5.66	—	R 3.46	13.06	R 4.69
1987	—	1.86	1.86	1.98	3.44	R 4.80	R 4.78	7.76	12.70	7.08	2.18	R 2.78	R 5.34	—	R 2.80	11.19	R 3.91
1988	—	1.68	1.68	1.70	3.24	R 4.16	R 4.42	4.96	14.61	7.12	1.80	R 2.36	R 4.42	—	R 2.50	10.78	R 3.56
1989	—	1.42	1.42	1.99	3.16	R 4.72	R 5.01	5.33	14.48	7.79	2.01	R 2.75	R 4.80	—	R 2.84	10.73	R 3.66
1990	—	1.33	1.33	1.71	3.14	R 5.84	R 6.28	5.39	14.68	8.00	2.38	R 3.14	R 5.19	1.36	R 2.58	10.64	R 3.55
1991	—	1.32	1.32	1.67	3.40	R 5.20	R 5.92	6.10	16.79	8.72	1.96	R 3.71	R 5.34	1.46	2.61	11.30	R 3.72
1992	—	1.39	1.39	1.96	2.47	R 5.14	R 5.45	4.47	19.49	8.37	2.29	R 3.43	R 4.87	1.42	R 2.74	11.32	3.85
1993	—	1.41	1.41	2.15	2.74	R 4.98	R 5.29	6.97	18.94	R 8.21	2.42	R 3.07	R 5.10	1.40	R 2.89	12.13	4.02
1994	—	1.53	1.53	2.09	2.71	4.94	5.19	8.80	19.18	8.16	2.35	3.45	5.25	1.36	2.90	11.93	3.98
Expenditures in Million Nominal Dollars																	
1970	—	—	—	16.1	20.7	4.3	2.9	8.7	5.1	7.8	1.2	7.7	80.2	—	78.3	44.2	122.8
1971	—	0.1	0.1	21.1	25.2	7.7	2.0	9.1	10.2	7.1	0.1	6.9	79.8	—	81.6	47.2	136.8
1972	—	(3)	(6)	22.1	24.9	11.7	1.6	9.1	11.6	6.6	2.2	9.5	77.2	—	89.4	56.4	155.8
1973	—	1.4	1.4	26.3	27.7	16.9	1.9	12.2	17.0	7.9	3.3	10.4	95.9	—	124.6	82.6	187.2
1974	—	3.3	3.3	47.2	52.7	43.8	3.9	21.4	22.1	9.3	6.7	13.7	172.4	—	222.9	73.9	296.8
1975	—	0.4	0.4	68.8	68.9	48.3	2.7	19.7	12.4	16.4	9.3	23.1	180.6	—	257.7	94.8	352.2
1976	—	1.9	1.9	125.4	59.7	72.4	2.9	22.6	13.0	9.2	4.0	26.0	209.7	—	337.0	134.2	471.2
1977	—	6.0	6.0	194.8	61.9	90.1	2.9	27.6	24.5	9.2	0.9	30.3	260.5	—	451.3	179.6	629.9
1978	—	12.1	12.1	221.4	64.4	109.4	2.9	37.7	28.6	8.6	4.3	27.4	293.2	—	516.8	208.1	724.9
1979	—	13.6	13.6	285.6	80.3	152.3	16.4	37.0	40.3	14.6	8.9	32.0	432.5	—	731.9	228.6	960.5
1980	—	7.8	7.8	316.8	118.1	122.5	11.1	137.7	80.4	18.4	12.8	48.7	513.5	—	631.9	278.8	1,190.5
1981	—	22.3	22.3	498.4	106.7	140.7	7.6	103.6	60.6	19.8	15.8	26.0	490.9	—	671.6	374.1	1,345.7
1982	—	25.1	25.1	509.0	91.8	162.9	8.1	120.1	53.9	17.5	15.1	18.2	498.7	—	1,020.9	412.3	1,433.2
1983	—	22.4	22.4	620.8	121.1	R 222.8	3.9	117.6	54.6	13.2	10.3	12.1	R 555.6	—	R 1,098.6	460.0	R 1,548.7
1984	—	26.4	26.4	574.0	85.9	R 241.1	3.0	126.7	60.5	33.9	5.0	19.2	R 574.3	—	R 1,174.6	443.9	R 1,617.9
1985	—	32.8	32.8	486.3	111.7	R 251.9	R 2.4	136.5	88.3	44.8	9.3	18.8	R 622.8	—	R 1,442.4	489.7	R 1,932.0
1986	—	30.2	30.2	369.8	99.8	R 81.3	R 1.5	120.1	46.7	30.0	3.1	R 10.6	R 396.4	—	R 796.3	442.2	R 1,237.9
1987	—	25.9	25.9	348.9	82.4	R 76.6	R 1.0	104.8	44.9	30.5	3.0	R 14.1	R 337.3	—	R 709.6	386.9	R 1,096.4
1988	—	22.6	22.6	299.4	79.7	R 76.4	0.5	57.3	49.8	29.7	5.0	R 13.5	R 308.9	—	R 600.7	352.7	R 953.5
1989	—	20.0	20.0	345.4	57.5	R 76.2	R 0.3	79.9	50.6	37.1	3.0	R 15.1	R 310.7	—	R 679.2	364.0	R 1,070.2
1990	—	16.8	16.8	315.5	73.1	R 105.1	R 0.5	51.1	52.5	39.2	5.3	R 19.9	R 326.2	5.7	R 664.8	416.1	R 1,080.9
1991	—	21.3	21.3	282.9	77.6	R 98.8	0.4	67.5	54.0	41.0	1.0	R 27.6	R 385.8	6.8	R 678.8	426.6	R 1,105.4
1992	—	23.1	23.1	330.0	47.9	R 126.6	R 0.5	49.3	63.7	36.5	5.1	R 29.8	R 368.5	6.3	R 717.9	436.5	R 1,154.4
1993	—	37.9	37.9	368.6	67.7	R 80.8	0.4	R 95.9	63.3	R 44.2	R 1.1	R 25.7	R 395.0	6.7	R 805.3	471.3	R 1,276.7
1994	—	24.6	24.6	391.0	63.6	96.0	0.7	96.6	67.0	47.6	5.1	25.8	404.2	6.9	826.8	465.0	1,291.7

^a Liquefied petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

R=Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

(S)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 231. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Oklahoma

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG #	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	—	—	2.17	1.11	0.72	1.12	5.08	2.82	0.46	2.44	2.44	—	2.44
1971	0.68	—	2.21	1.12	0.75	1.24	5.27	2.80	0.43	2.46	2.46	—	2.46
1972	0.46	—	2.19	1.13	0.75	1.19	5.58	2.78	0.63	2.43	2.43	—	2.43
1973	0.36	—	2.36	1.48	0.89	1.34	6.33	2.89	0.73	2.67	2.67	—	2.67
1974	0.81	—	3.29	2.47	1.54	2.69	7.22	4.04	1.63	3.86	3.86	—	3.86
1975	0.94	—	3.45	2.81	2.91	2.56	7.44	4.52	1.78	4.11	4.11	—	4.11
1976	1.31	—	3.59	2.80	2.72	2.85	7.05	4.79	—	4.32	4.32	—	4.32
1977	1.23	—	3.67	3.24	2.48	3.84	6.97	5.10	—	4.67	4.67	—	4.67
1978	—	—	4.29	3.38	2.86	3.96	7.80	5.34	—	4.89	4.89	—	4.89
1979	—	—	5.73	5.26	3.96	4.05	10.21	6.99	—	6.50	6.50	—	6.50
1980	—	—	9.82	7.30	6.34	6.72	14.38	9.79	—	9.12	9.12	—	9.12
1981	—	—	10.84	6.61	7.47	8.29	18.00	10.69	—	10.25	10.25	—	10.25
1982	—	—	10.92	6.16	7.08	8.71	17.25	10.25	—	9.63	9.63	—	9.63
1983	—	—	10.44	7.23	^A 6.41	7.24	18.96	8.76	—	^A 8.34	^A 8.34	—	^A 8.34
1984	—	—	10.27	7.31	^A 6.24	7.09	17.83	8.84	—	^A 8.22	^A 8.22	—	^A 8.22
1985	—	—	8.89	7.18	6.67	7.01	17.61	8.78	—	8.27	8.27	—	8.27
1986	—	—	8.41	6.82	5.94	6.28	16.56	8.30	—	8.11	8.11	—	8.11
1987	—	—	7.65	6.45	5.80	7.78	12.70	7.06	—	8.01	8.01	—	8.01
1988	—	—	7.41	6.17	5.70	4.96	14.61	7.12	—	8.59	8.59	—	8.59
1989	—	—	8.28	6.64	4.27	5.93	14.48	7.79	—	7.08	7.08	—	7.08
1990	—	—	9.32	6.80	5.93	8.33	16.80	9.09	—	8.44	8.44	—	8.44
1991	—	3.78	8.71	7.59	4.73	8.10	15.79	8.72	—	7.89	7.89	—	7.89
1992	—	2.89	8.54	7.34	4.42	4.47	19.43	8.37	—	7.49	7.49	—	7.49
1993	—	2.80	8.24	7.31	4.12	6.67	19.94	^A 8.21	—	^A 7.64	^A 7.64	—	^A 7.64
1994	—	2.90	7.96	7.14	3.84	9.46	19.18	8.16	—	7.97	7.97	—	7.97

Expenditures in Million Nominal Dollars													
1970	—	—	4.9	21.7	17.2	2.2	14.1	479.9	0.2	531.2	531.2	—	531.2
1971	(a)	—	4.7	18.1	18.1	2.7	13.9	495.9	0.1	543.3	543.3	—	543.3
1972	(a)	—	4.4	24.6	17.1	2.5	15.7	512.0	1.0	577.1	577.1	—	577.1
1973	(a)	—	4.6	36.4	19.7	2.8	17.7	577.4	0.2	657.6	657.6	—	657.6
1974	(a)	—	6.0	61.7	33.6	4.7	23.0	770.2	0.2	899.6	899.6	—	899.6
1975	(a)	—	5.4	73.0	43.2	4.5	24.4	896.7	0.5	1,047.7	1,047.7	—	1,047.7
1976	(a)	—	5.4	92.7	46.9	5.3	25.5	995.0	—	1,170.2	1,170.2	—	1,170.2
1977	(a)	—	6.6	117.3	57.0	6.0	32.9	1,106.2	—	1,328.0	1,328.0	—	1,328.0
1978	—	—	7.6	132.7	74.8	9.8	36.4	1,210.3	—	1,473.6	1,473.6	—	1,473.6
1979	—	—	8.9	249.9	95.4	2.5	84.0	1,490.6	—	1,905.2	1,905.2	—	1,905.2
1980	—	—	14.9	341.7	179.5	4.9	67.7	2,604.2	—	2,994.9	2,994.9	—	2,994.9
1981	—	—	14.7	490.4	206.5	7.8	81.4	2,345.2	—	3,146.7	3,146.7	—	3,146.7
1982	—	—	8.6	459.2	232.5	10.2	71.1	2,302.2	—	3,063.8	3,063.8	—	3,063.8
1983	—	—	6.4	422.0	^A 212.4	13.0	73.3	1,933.7	—	^A 2,680.8	^A 2,680.8	—	^A 2,680.8
1984	—	—	9.8	462.7	^A 243.0	3.4	81.2	1,841.5	—	^A 2,641.6	^A 2,641.6	—	^A 2,641.6
1985	—	—	11.8	439.7	199.8	3.4	79.5	1,898.2	—	2,808.4	2,808.4	—	2,808.4
1986	—	—	10.8	345.9	129.8	3.2	85.4	1,301.2	—	1,856.5	1,856.5	—	1,856.5
1987	—	—	8.8	396.1	181.8	2.8	80.2	1,382.8	—	2,020.1	2,020.1	—	2,020.1
1988	—	—	6.5	396.7	150.7	1.8	86.8	1,411.7	—	2,034.1	2,034.1	—	2,034.1
1989	—	—	6.9	436.5	220.5	1.7	87.9	1,540.2	—	2,273.7	2,273.7	—	2,273.7
1990	—	—	6.8	545.9	259.8	1.8	70.8	1,794.2	—	2,578.2	2,578.2	—	2,578.2
1991	—	(a)	4.9	462.5	279.1	2.4	72.5	1,726.5	—	2,547.9	2,547.9	—	2,547.9
1992	—	0.1	5.0	499.9	321.7	1.3	85.5	1,710.1	—	2,823.9	^A 2,824.1	—	^A 2,824.1
1993	—	0.3	4.3	549.5	307.9	2.3	84.9	^A 1,713.6	—	^A 2,862.9	^A 2,862.9	—	^A 2,862.9
1994	—	0.4	3.4	563.8	223.4	4.5	89.9	1,732.1	—	2,617.1	2,617.4	—	2,617.4

Liquefied petroleum gases.

R- Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)-Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 232. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Oklahoma

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Geothermal	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.39	0.19	0.48	0.55	—	0.50	—	—	0.18
1971	0.21	0.21	0.42	0.52	—	0.48	—	—	0.21
1972	0.19	0.24	0.53	0.66	—	0.57	—	—	0.24
1973	0.13	0.27	0.75	1.29	—	0.95	—	—	0.28
1974	0.17	0.39	1.63	1.63	—	1.63	—	—	0.40
1975	0.43	0.61	1.45	1.92	—	1.78	—	—	0.61
1976	—	1.01	1.53	2.14	—	1.65	—	—	1.01
1977	1.06	1.30	1.93	2.99	—	2.18	—	—	1.29
1978	1.07	1.42	1.66	2.61	—	2.19	—	—	1.39
1979	1.15	1.54	2.23	5.09	—	3.63	—	—	1.50
1980	1.22	1.79	3.44	5.30	—	5.28	—	—	1.83
1981	1.45	1.82	3.69	7.09	—	6.78	—	—	1.77
1982	1.65	2.08	3.76	6.71	—	6.61	—	—	1.90
1983	1.73	2.39	3.42	5.81	—	5.72	—	—	2.10
1984	1.79	2.65	3.65	5.85	—	6.38	—	—	2.21
1985	1.88	2.85	3.73	5.54	—	6.36	—	—	2.36
1986	1.64	2.86	1.50	2.90	—	2.61	—	—	2.17
1987	1.56	2.67	2.76	3.01	—	3.89	—	—	2.08
1988	1.48	2.81	2.50	3.42	—	3.35	—	—	2.04
1989	1.56	2.93	2.91	4.18	—	3.84	—	—	2.02
1990	1.48	3.81	3.62	7.26	—	4.34	—	—	2.69
1991	1.32	2.87	3.33	4.08	—	3.84	—	—	1.92
1992	1.23	3.08	2.16	4.39	—	3.54	—	—	1.89
1993	1.24	3.11	2.07	3.60	—	3.16	—	—	1.88
1994	1.02	2.67	2.10	3.70	—	3.26	—	—	1.80
Expenditures in Million Nominal Dollars									
1970	(a)	46.5	0.3	0.2	—	0.4	—	—	46.8
1971	(a)	51.5	0.1	0.1	—	0.2	—	—	51.7
1972	(a)	64.9	0.3	0.2	—	0.5	—	—	65.4
1973	(a)	77.1	0.3	0.4	—	0.7	—	—	77.8
1974	(a)	118.9	1.8	0.4	—	2.2	—	—	122.1
1975	(a)	188.1	0.3	0.6	—	0.9	—	—	190.9
1976	—	347.7	0.4	0.6	—	1.0	—	—	348.7
1977	7.9	452.3	1.6	1.1	—	2.8	—	—	462.9
1978	37.7	515.8	1.6	1.3	—	2.9	—	—	558.4
1979	59.6	642.0	0.8	1.8	—	2.6	—	—	604.2
1980	123.5	682.8	(a)	1.8	—	1.8	—	—	727.3
1981	206.1	573.4	0.1	1.5	—	1.6	—	—	781.2
1982	311.6	536.5	(a)	2.2	—	2.2	—	—	850.3
1983	358.1	598.2	(a)	1.7	—	1.7	—	—	958.0
1984	378.8	619.1	0.3	2.0	—	2.3	—	—	995.2
1985	387.4	618.3	0.2	2.5	—	2.7	—	—	998.8
1986	329.8	551.9	0.1	1.9	—	2.0	—	—	883.8
1987	354.5	526.0	(a)	1.5	—	1.6	—	—	882.1
1988	381.3	518.0	0.1	1.1	—	1.2	—	—	900.4
1989	398.5	543.1	0.2	1.3	—	1.5	—	—	901.0
1990	371.3	591.1	1.1	1.2	—	2.3	—	—	964.7
1991	383.1	498.2	0.3	0.8	—	0.9	—	—	902.2
1992	358.6	476.1	0.1	0.5	—	0.6	—	—	835.3
1993	376.5	486.1	0.1	0.4	—	0.5	—	—	873.1
1994	296.6	422.2	0.1	0.4	—	0.5	—	—	719.3

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

—No consumption.

(a) Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 233. Energy Price and Expenditure Estimates by Source, 1970-1994, Oregon

Year	Primary Energy													Nuclear Fuel	Biomass	Total ^c	Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^e
	Coal			Natural Gas	Petroleum						Renewable Fuel	Other ^b	Total ^c						
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Heating Oil										
Prices in Nominal Dollars per Million Btu																			
1970	—	8.57	0.67	0.81	1.21	6.73	2.21	2.63	4.51	\$1.46	1.89	—	0.69	1.63	0.48	2.99	1.87		
1971	—	0.51	0.61	0.87	1.27	0.77	2.26	2.85	0.82	\$1.41	1.82	—	0.69	1.67	0.70	3.12	1.95		
1972	—	0.57	0.67	0.94	1.25	0.76	2.29	2.82	0.89	\$1.42	1.87	—	0.72	1.65	0.72	3.24	1.94		
1973	—	0.62	0.62	0.90	1.48	0.81	2.86	3.07	0.77	\$1.54	2.59	—	0.77	1.62	0.82	3.29	2.10		
1974	—	0.74	0.74	1.22	2.41	1.57	3.32	4.15	1.70	\$2.48	3.12	—	0.84	2.69	1.23	3.63	2.98		
1975	—	1.84	1.84	1.84	2.62	2.84	4.17	4.45	2.06	\$2.62	3.49	0.29	0.82	2.87	2.84	4.13	3.22		
1976	—	1.36	1.36	2.03	2.51	2.32	3.73	4.58	1.91	\$2.52	3.62	0.21	0.99	3.08	0.23	4.43	3.82		
1977	—	1.51	1.51	2.36	3.05	2.82	4.77	4.93	2.04	\$2.63	3.89	0.22	1.04	3.10	0.30	5.00	3.84		
1978	—	1.71	1.71	2.87	3.11	2.86	4.65	5.29	2.14	\$2.98	4.11	0.19	1.12	3.73	0.38	5.70	4.27		
1979	—	2.09	2.09	3.22	4.69	3.79	5.71	7.15	2.73	\$3.79	5.53	0.30	1.58	4.58	0.87	6.13	5.32		
1980	—	1.72	1.72	4.49	6.42	5.31	7.09	8.75	3.92	\$6.91	7.86	0.36	1.74	6.28	0.69	7.59	7.34		
1981	—	1.77	1.77	4.92	7.61	7.56	7.66	10.83	5.26	\$6.55	8.75	0.47	1.24	6.65	0.74	6.63	8.12		
1982	—	1.95	1.95	5.91	7.87	7.37	7.78	10.61	5.63	\$7.13	8.49	0.41	1.28	7.05	0.79	10.27	8.53		
1983	—	1.89	1.89	5.93	\$7.29	\$6.78	8.64	8.81	5.44	\$6.96	\$7.89	0.64	—	\$6.73	0.78	11.58	\$8.44		
1984	—	2.15	2.15	5.80	\$7.29	\$6.42	7.86	8.79	5.12	\$6.87	\$7.69	0.58	—	\$6.45	0.79	12.10	\$8.45		
1985	—	2.15	2.15	5.88	\$7.45	6.16	9.18	8.67	4.78	\$6.90	\$7.81	0.54	—	\$6.78	0.87	13.88	\$8.67		
1986	—	2.47	2.47	4.94	6.32	4.24	9.59	8.82	2.62	\$6.94	5.86	0.62	—	\$4.95	0.52	12.25	7.36		
1987	—	2.43	2.43	4.65	6.75	4.33	8.71	7.12	2.62	\$4.95	6.01	0.45	—	5.19	0.45	12.86	7.41		
1988	—	2.43	2.43	4.80	\$5.81	4.04	8.84	7.48	2.35	\$4.89	\$5.10	0.46	0.67	\$5.11	0.47	12.81	\$7.41		
1989	—	1.76	1.76	4.17	\$6.79	4.76	10.19	8.50	2.86	\$4.65	6.92	0.46	0.38	\$5.61	0.99	12.49	\$7.87		
1990	—	1.22	1.22	4.28	\$7.57	3.93	10.37	9.46	3.80	\$4.44	\$7.74	0.44	\$1.99	\$5.82	0.78	12.25	\$8.83		
1991	—	1.17	1.17	4.01	\$7.72	5.01	10.84	9.14	2.56	\$4.80	\$7.42	0.43	2.02	\$5.95	1.01	12.45	\$7.88		
1992	—	1.18	1.18	3.65	\$7.78	4.67	10.36	10.03	1.89	\$4.32	\$7.57	0.53	2.04	\$5.58	0.98	12.64	\$7.89		
1993	—	1.20	1.20	4.14	7.99	4.62	10.43	\$9.96	2.04	\$4.47	\$7.69	—	1.87	\$6.24	\$1.60	12.97	\$8.17		
1994	—	1.15	1.15	4.12	7.82	4.18	10.29	10.00	2.06	4.61	7.85	—	1.99	6.12	1.37	13.48	8.91		
Expenditures in Million Nominal Dollars																			
1970	—	1.7	1.7	66.7	88.2	8.8	18.2	371.2	18.5	\$63.4	541.1	—	0.3	871.8	-0.8	249.3	888.3		
1971	—	1.7	1.7	77.5	103.7	9.0	11.1	393.3	23.2	\$44.8	585.2	—	0.2	884.7	-0.2	284.8	949.2		
1972	—	1.3	1.3	88.9	113.2	9.0	9.7	411.5	26.0	\$49.6	619.2	—	0.4	709.8	-0.4	301.5	1,030.8		
1973	—	1.3	1.3	103.1	140.1	12.2	11.7	468.7	35.7	\$51.3	717.7	—	0.5	822.0	-2.3	381.1	1,151.4		
1974	—	2.4	2.4	116.0	195.3	19.5	13.8	818.8	60.7	\$75.8	991.9	—	0.4	1,110.7	-1.3	378.9	1,488.3		
1975	—	2.8	2.8	136.3	198.4	24.8	18.0	673.3	45.4	\$85.8	1,088.9	(4)	(4)	1,182.8	-4.4	468.4	1,651.2		
1976	—	8.0	8.0	176.6	233.1	27.0	9.8	739.9	41.6	\$80.4	1,131.9	4.9	0.6	1,320.8	-6.0	629.8	1,943.8		
1977	—	7.8	7.9	158.5	299.0	34.1	13.1	829.4	43.0	\$82.3	1,311.1	15.1	2.8	1,495.4	-22.1	655.0	2,088.3		
1978	—	8.0	8.0	208.2	310.3	41.0	12.9	930.0	51.9	\$103.3	1,449.5	3.3	1.6	1,670.6	-9.9	682.2	2,345.7		
1979	—	9.8	9.8	257.5	485.1	58.3	28.5	1,196.1	85.4	\$127.2	1,978.6	14.6	3.4	2,263.9	-57.0	778.2	2,985.1		
1980	—	28.8	28.8	320.3	693.9	88.5	31.7	1,562.9	908.9	\$189.5	2,894.6	21.4	2.9	2,950.8	-41.1	988.4	3,960.8		
1981	—	48.6	48.6	369.2	729.2	72.3	35.2	1,899.1	210.0	\$162.0	2,917.7	38.2	1.5	3,267.3	-88.5	1,108.8	4,407.5		
1982	—	29.2	29.2	386.8	659.9	74.3	34.2	1,556.9	353.3	\$138.5	2,825.3	32.8	0.5	3,270.3	-49.1	1,181.5	4,412.7		
1983	—	19.7	19.7	386.5	\$678.9	\$67.8	37.9	1,508.7	135.8	\$150.1	\$2,380.2	25.7	—	\$2,792.1	-36.2	1,302.4	\$4,058.3		
1984	—	25.3	25.3	458.2	\$689.1	\$71.0	36.8	1,354.9	135.7	\$174.8	\$2,482.2	29.7	—	\$3,003.4	-46.9	1,571.4	\$4,327.9		
1985	—	21.6	21.6	432.8	\$667.8	14.3	44.7	1,388.9	142.9	\$178.0	\$2,498.8	40.8	—	\$2,881.8	-34.8	1,573.1	\$4,472.4		
1986	—	7.2	7.2	340.2	\$461.9	82.5	52.9	1,098.0	88.9	\$158.4	\$1,910.6	39.5	—	\$2,297.5	-38.6	1,549.2	\$3,807.1		
1987	—	8.8	8.8	337.2	\$442.4	71.4	47.5	1,144.3	83.8	\$160.8	\$2,040.2	21.1	—	\$2,407.4	-21.1	1,657.4	\$4,043.7		
1988	—	7.6	7.6	308.0	\$557.5	72.7	48.3	1,263.3	91.0	\$159.2	\$2,189.9	31.4	0.8	\$2,617.7	32.3	1,682.0	\$4,277.4		
1989	—	12.0	12.0	429.7	\$642.5	90.9	80.5	1,423.0	88.4	\$158.2	\$2,459.5	28.1	0.1	\$2,927.4	-75.6	1,774.0	\$4,682.0		
1990	—	18.1	19.1	438.3	\$751.4	114.3	52.1	1,668.3	98.8	\$170.4	\$2,758.2	28.6	\$53.2	\$3,288.5	-67.8	1,799.0	\$5,018.8		
1991	—	38.5	38.5	472.4	\$726.7	106.6	81.1	1,541.7	101.7	\$168.3	\$2,706.4	6.6	57.8	\$3,281.0	-58.1	1,856.0	\$5,577.8		
1992	—	48.1	48.1	459.7	\$693.9	106.9	53.7	1,891.6	79.2	\$189.3	\$2,802.5	28.0	59.1	\$3,394.6	-96.9	1,850.1	\$5,147.7		
1993	—	44.4	44.4	680.2	\$657.7	112.7	56.7	\$1,757.8	59.8	\$163.4	\$2,830.0	—	54.8	\$3,489.4	\$-77.3	1,973.0	\$5,385.1		
1994	—	51.5	51.5	602.7	636.2	109.7	53.2	1,784.2	57.6	200.0	2,845.1	—	54.2	3,561.4	-93.4	2,070.0	5,528.0		

* Liquid petroleum gases

* "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used as electric utilities), and the "other petroleum products" category described in Appendix A.

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

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

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(b)—Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 234. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Oregon

Year	Primary Energy							Electricity	Total Energy ^c	
	Coal	Natural Gas	Petroleum				Biomass ^d			Total ^e
			Distillate Fuel	Kerosene	LPG ^a	Total				
Prices in Nominal Dollars per Million Btu										
1970	0.86	1.45	1.41	2.78	2.86	1.83	—	1.53	3.65	2.47
1971	1.05	1.53	1.48	2.90	2.86	1.88	—	1.50	3.89	2.53
1972	1.15	1.61	1.49	3.26	2.71	1.88	—	1.63	3.94	2.67
1973	1.16	1.66	1.71	3.36	3.89	1.97	—	1.80	4.14	2.91
1974	1.39	1.92	2.63	3.75	4.24	2.86	—	2.33	4.57	3.40
1975	1.14	2.11	2.80	3.83	4.37	3.83	—	2.42	5.27	3.76
1976	1.90	2.59	3.11	3.87	4.45	3.22	—	2.86	5.96	4.47
1977	1.36	3.29	3.34	4.31	5.93	3.54	—	3.44	8.92	5.48
1978	2.85	3.85	3.30	4.54	5.33	3.50	—	3.57	7.53	5.71
1979	4.00	3.95	4.80	5.49	7.42	5.24	—	4.57	7.73	6.31
1980	4.28	5.36	7.02	6.80	8.89	7.38	—	4.20	8.37	8.04
1981	4.57	5.81	8.03	11.63	9.12	8.26	—	7.01	10.58	9.02
1982	4.81	6.83	8.05	11.44	9.51	8.36	—	7.37	10.58	9.21
1983	3.75	6.85	7.47	10.83	10.37	8.07	—	7.44	12.07	10.17
1984	3.76	6.93	7.18	10.07	10.92	7.62	—	7.21	12.73	10.43
1985	3.67	6.73	7.80	9.85	8.73	7.24	—	6.94	13.72	10.78
1986	3.79	6.47	5.08	7.14	10.89	5.77	—	6.18	13.84	10.67
1987	3.76	6.44	5.23	7.36	9.83	5.94	—	6.21	14.07	10.93
1988	3.37	6.54	6.11	7.19	9.16	5.51	—	6.23	14.02	10.87
1989	3.66	5.98	5.78	6.14	15.83	6.89	—	6.30	13.97	10.82
1990	3.77	6.13	6.99	9.94	13.32	7.82	^d 4.75	^d 8.48	13.88	^d 10.01
1991	5.21	5.95	6.73	9.47	14.25	8.91	4.75	^d 8.34	14.11	^d 10.05
1992	3.76	5.94	6.30	8.91	12.88	7.68	4.75	^d 8.16	14.45	^d 10.24
1993	5.77	6.17	6.62	9.31	13.14	8.10	4.75	^d 8.36	14.71	^d 10.53
1994	3.74	6.88	5.40	8.00	10.95	7.61	4.75	6.87	15.51	11.15
Expenditures in Million Nominal Dollars										
1970	8.2	29.8	25.6	1.0	8.7	35.3	—	65.4	122.8	168.1
1971	0.4	33.9	26.1	0.6	9.5	38.1	—	72.4	149.8	216.3
1972	0.3	39.1	26.8	0.4	8.2	37.4	—	76.8	182.6	229.9
1973	0.2	39.3	30.4	0.1	9.9	40.4	—	79.8	186.3	245.2
1974	0.1	43.8	39.9	1.0	10.1	50.9	—	94.6	188.1	282.9
1975	0.1	63.1	39.8	1.0	7.1	47.1	—	119.3	217.4	327.8
1976	0.3	56.4	48.1	0.9	5.9	34.9	—	111.6	243.1	354.7
1977	0.2	34.6	80.6	1.7	5.2	70.4	—	105.3	292.1	397.4
1978	0.4	87.3	56.4	3.7	7.1	68.1	—	133.8	329.5	452.3
1979	0.5	77.8	77.2	2.3	16.6	98.1	—	174.4	362.7	537.2
1980	0.6	105.1	82.5	2.1	18.0	102.6	—	207.3	422.9	640.2
1981	0.1	104.1	118.6	4.6	20.9	144.1	—	246.9	478.5	724.8
1982	0.2	129.5	98.9	3.9	21.2	124.1	—	259.8	498.0	751.8
1983	0.1	121.6	80.3	1.7	27.1	109.0	—	230.6	540.0	770.6
1984	0.1	140.0	87.0	1.5	17.3	105.8	—	246.0	610.1	856.1
1985	0.1	148.8	96.8	2.3	18.3	115.4	—	284.2	680.0	944.3
1986	(a)	126.1	80.5	0.9	17.2	79.6	—	204.6	647.8	882.5
1987	0.1	124.1	53.2	0.4	15.1	68.7	—	182.9	658.3	851.2
1988	0.1	141.4	54.9	0.4	10.6	65.6	—	207.3	696.0	893.4
1989	0.2	139.3	83.6	1.8	21.0	65.4	—	228.9	719.0	944.9
1990	0.3	146.5	72.7	0.7	18.3	82.8	^d 20.8	^d 256.3	727.8	^d 988.3
1991	(a)	181.4	58.3	0.7	25.2	84.2	21.1	^d 266.7	768.0	^d 1,034.7
1992	(a)	142.6	39.4	0.9	20.2	80.4	22.2	^d 225.2	750.0	^d 975.2
1993	0.1	181.2	39.9	1.0	22.9	83.8	18.7	^d 273.5	838.0	^d 1,111.8
1994	(a)	221.6	34.8	2.6	20.3	57.8	18.4	277.7	877.0	1,154.7

^a Liquidated petroleum gases^b Commercial sector prices and expenditures for wood and waste are included in the residential sector^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biotuels beginning in 1990^e Revised data^f No consumption^g Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 225. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Oregon

Year	Primary Energy										Electricity	Total Energy *
	Coal	Natural Gas	Petroleum					Total	Total			
			Distillate Fuel	Kerosene	LPG *	Motor Gasoline	Residual Fuel					
Prices in Monthly Dollars per Million Btu												
1970	0.63	1.22	1.22	0.53	1.12	2.43	0.79	1.16	1.16	3.80	2.29	
1971	0.60	1.26	1.26	0.56	1.18	2.89	0.81	1.18	1.19	4.14	2.36	
1972	0.50	1.37	1.29	0.58	1.20	2.82	0.78	1.09	1.19	4.11	2.37	
1973	0.56	1.37	1.61	0.57	1.30	3.07	0.92	1.31	1.31	4.25	2.69	
1974	0.72	1.64	2.47	0.39	2.11	4.15	1.97	2.02	2.02	4.78	3.26	
1975	1.04	1.78	2.68	2.53	2.76	4.45	2.46	2.41	2.41	5.34	3.67	
1976	1.35	2.29	2.90	2.89	3.01	4.95	2.26	2.82	2.54	5.54	4.03	
1977	1.52	2.99	3.12	3.16	3.61	4.83	2.36	3.02	2.68	5.05	4.51	
1978	1.89	3.24	3.06	3.29	4.02	5.29	2.51	3.06	3.14	5.49	4.95	
1979	2.04	3.65	4.66	4.24	4.32	7.15	3.15	3.50	3.50	6.08	5.66	
1980	2.34	4.88	6.71	4.84	6.40	8.78	4.90	6.39	6.39	7.29	7.29	
1981	2.36	5.20	7.66	7.10	6.24	10.53	6.50	7.45	6.26	10.36	8.36	
1982	2.70	6.08	7.87	7.04	6.94	10.51	6.42	7.32	6.67	11.83	9.12	
1983	2.55	6.23	8.57	6.82	8.10	9.61	5.97	6.82	6.91	13.11	10.34	
1984	2.50	6.32	8.57	7.06	8.28	8.79	4.17	6.54	6.13	14.55	11.05	
1985	2.48	6.06	8.68	6.80	8.45	8.87	4.13	6.20	6.24	14.55	11.05	
1986	2.47	5.47	8.27	6.06	8.06	8.92	2.10	6.42	6.42	14.55	11.05	
1987	2.42	5.17	8.37	6.44	8.24	7.12	2.95	6.41	6.41	14.55	11.05	
1988	2.42	5.24	8.76	6.54	8.54	7.48	2.95	6.41	6.41	14.55	11.05	
1989	2.37	4.84	8.56	6.49	8.55	6.50	2.36	6.47	6.47	14.55	11.05	
1990	2.34	4.74	8.36	6.39	8.36	6.45	2.36	6.45	6.45	14.55	11.05	
1991	2.43	4.81	8.43	6.09	9.29	6.11	2.36	6.45	6.45	14.55	11.05	
1992	2.45	4.56	8.43	6.11	9.29	6.11	2.36	6.45	6.45	14.55	11.05	
1993	2.33	4.84	8.43	6.11	9.29	6.11	2.36	6.45	6.45	14.55	11.05	
1994	2.32	5.29	8.35	6.47	10.10	10.03	2.43	6.72	6.72	14.61	11.02	

Expenditures in Million Monthly Dollars

1970	0.5	14.5	11.8	0.2	4.8	3.7	6.6	22.8	37.4	38.7	158.4	158.4
1971	0.5	17.8	12.5	0.1	0.7	3.8	7.5	24.6	42.5	101.1	143.6	143.6
1972	0.2	20.6	12.8	0.1	0.6	3.4	6.3	25.5	40.0	108.7	139.2	139.2
1973	0.1	19.9	13.9	0.1	0.8	3.4	10.2	28.1	46.2	119.1	157.3	157.3
1974	0.1	22.9	19.3	0.5	0.9	4.7	19.3	44.6	67.7	133.8	201.3	201.3
1975	0.2	28.6	18.8	0.5	4.7	5.1	14.8	59.8	68.7	136.1	225.8	225.8
1976	0.4	33.2	25.3	0.6	0.7	5.2	10.9	40.3	74.1	164.7	239.8	239.8
1977	0.4	38.4	29.3	0.8	0.9	6.4	10.8	47.2	81.1	181.4	262.5	262.5
1978	0.4	41.1	28.6	1.9	0.9	8.4	11.4	48.5	89.0	212.7	290.7	290.7
1979	0.5	51.4	36.0	1.1	1.7	9.6	12.1	56.5	107.4	249.6	357.2	357.2
1980	0.6	77.5	78.8	1.4	2.0	14.8	27.8	118.3	188.4	318.0	496.3	496.3
1981	0.1	81.0	44.7	0.5	2.3	16.8	40.2	124.5	185.7	321.3	507.0	507.0
1982	0.2	105.8	44.7	0.5	2.3	18.8	41.2	128.2	185.7	321.3	507.0	507.0
1983	0.1	98.3	44.7	1.7	2.3	16.8	41.2	128.2	185.7	321.3	507.0	507.0
1984	0.2	111.5	44.7	1.3	1.3	19.7	41.2	128.2	185.7	321.3	507.0	507.0
1985	0.1	118.3	44.7	1.0	1.0	19.7	41.2	128.2	185.7	321.3	507.0	507.0
1986	0.1	94.2	44.7	0.1	2.2	8.5	4.3	62.6	110.4	262.0	372.6	372.6
1987	0.1	98.9	44.7	0.1	1.7	9.8	5.3	64.8	110.4	262.0	372.6	372.6
1988	0.2	98.7	44.7	0.2	2.0	9.8	4.0	64.8	110.4	262.0	372.6	372.6
1989	0.1	98.2	44.7	0.2	2.2	8.4	5.5	64.8	110.4	262.0	372.6	372.6
1990	0.1	106.1	44.7	0.1	2.9	8.4	5.5	64.8	110.4	262.0	372.6	372.6
1991	0.1	106.1	44.7	0.1	2.9	8.4	5.5	64.8	110.4	262.0	372.6	372.6
1992	0.1	121.2	44.7	0.2	2.6	8.4	5.5	64.8	110.4	262.0	372.6	372.6
1993	0.1	121.2	44.7	0.4	2.6	8.4	5.5	64.8	110.4	262.0	372.6	372.6
1994	0.1	126.7	44.7	0.4	3.3	1.7	1.7	20.1	146.9	369.5	496.4	496.4

^a Liquefied petroleum gases.
^b There are no direct fuel costs for propane and other thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.
 Footnotes data.

(b) Values less than 0.05 million rounded to zero.
 Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are discussed in Appendix A.

Table 236. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Oregon

Year	Primary Energy															Electricity	Total Energy ^c	
	Coal			Natural Gas	Petroleum										Biomass ^c			Total ^c
	Coking Coal	Steam Coal	Total		Asphalt and Fuel Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total					
Prices in Nominal Dollars per Million Btu																		
1970	—	0.53	0.53	0.48	0.39	0.80	0.83	1.12	5.08	2.03	0.39	0.78	0.83	—	0.67	1.28	0.78	
1971	—	0.46	0.45	0.43	0.81	0.82	0.96	1.18	5.27	2.06	0.54	0.79	0.89	—	0.73	1.35	0.84	
1972	—	0.50	0.50	0.62	0.82	0.83	0.85	1.20	5.58	2.02	0.53	0.79	0.88	—	0.74	1.43	0.85	
1973	—	0.58	0.58	0.86	0.86	1.10	1.27	1.30	5.33	3.07	0.72	0.77	1.04	—	0.89	1.42	0.97	
1974	—	0.72	0.72	0.85	1.72	2.03	2.53	2.11	7.22	4.16	1.59	0.98	1.91	—	1.45	1.58	1.47	
1975	—	1.04	1.04	0.92	1.78	2.28	2.88	2.78	7.48	4.08	1.86	1.01	2.16	—	1.80	2.13	1.73	
1976	—	1.35	1.36	1.71	1.60	2.46	2.66	3.01	7.08	4.58	1.76	1.75	2.17	—	1.94	2.51	2.40	
1977	—	1.52	1.52	2.02	1.79	2.76	3.16	3.61	6.97	4.86	1.93	1.96	2.30	—	2.22	2.76	2.87	
1978	—	1.69	1.69	2.41	1.80	2.90	3.28	4.02	7.60	5.29	1.83	1.89	2.51	—	2.44	3.28	2.97	
1979	—	2.04	2.04	2.78	2.43	3.74	4.24	4.32	10.21	7.15	2.29	2.40	3.24	—	3.04	3.73	3.25	
1980	—	2.34	2.34	4.21	3.89	5.62	6.34	5.40	14.36	9.75	3.36	4.04	4.94	—	4.53	4.85	4.58	
1981	—	2.35	2.35	4.43	4.34	6.51	7.15	6.24	18.00	10.60	3.48	3.50	5.30	—	4.78	5.83	5.17	
1982	—	2.70	2.70	5.35	3.99	6.44	7.86	5.94	17.25	10.51	4.49	3.91	5.44	—	5.32	6.82	6.33	
1983	—	2.55	2.55	5.13	4.14	R6.14	6.62	6.30	16.90	8.91	4.43	4.87	R5.82	—	R5.27	9.72	R6.75	
1984	—	2.60	2.60	5.07	4.27	R6.00	7.06	6.29	17.49	8.79	4.47	3.86	R5.42	—	R6.17	9.70	R6.83	
1985	—	2.48	2.48	4.85	4.42	R5.88	R4.99	9.45	17.41	8.87	4.19	6.48	R5.58	—	R5.19	10.22	R6.39	
1986	—	2.47	2.47	3.73	4.47	R5.81	R4.24	9.05	18.59	8.82	2.10	2.80	R4.67	—	R5.39	10.80	R5.69	
1987	—	2.42	2.42	3.30	4.27	R4.73	R4.48	8.26	12.70	7.12	2.85	2.43	R4.13	—	R3.78	9.91	5.68	
1988	—	2.42	2.42	3.84	3.95	R4.51	R4.51	8.36	14.61	7.40	2.55	2.19	R4.00	—	R3.81	9.82	R5.85	
1989	—	2.37	2.37	3.40	3.19	R4.84	R5.89	8.85	14.40	8.80	2.39	2.39	R4.38	—	R3.98	9.69	R5.33	
1990	—	2.64	2.64	3.39	3.15	R5.28	R6.18	9.83	14.80	9.48	2.88	2.88	R4.38	R1.47	R3.49	9.37	R5.14	
1991	—	2.66	2.65	3.31	3.28	R5.18	R5.00	9.28	16.78	9.14	2.39	—	R2.75	1.52	R3.45	9.25	R5.08	
1992	—	2.45	2.45	3.24	2.81	R5.19	R5.11	9.28	19.43	10.63	2.30	—	R2.27	1.51	R3.24	9.42	R4.94	
1993	—	2.33	2.33	3.34	2.85	R5.49	R4.47	9.21	19.94	R9.86	2.20	—	R2.16	1.51	R3.40	9.74	R5.01	
1994	—	2.32	2.32	3.45	3.13	4.70	5.53	10.13	19.18	10.93	2.43	—	2.18	1.55	3.38	10.17	6.12	
Expenditures in Million Nominal Dollars																		
1970	—	1.2	1.2	23.9	8.3	14.8	0.8	0.8	8.7	18.7	7.8	6.3	87.1	—	32.2	36.8	116.1	
1971	—	1.1	1.1	25.8	14.9	10.2	0.5	0.8	7.5	9.0	13.5	6.2	68.5	—	35.4	29.9	135.3	
1972	—	0.8	0.8	29.6	17.2	10.0	0.5	0.7	8.5	9.3	16.5	6.3	78.4	—	189.2	29.7	147.9	
1973	—	1.0	1.0	42.2	18.2	26.4	0.6	1.1	9.8	9.6	24.0	6.2	94.8	—	137.3	45.6	183.9	
1974	—	2.1	2.1	49.1	29.5	38.3	2.3	2.7	12.9	62.8	46.7	5.5	148.7	—	204.9	57.3	258.2	
1975	—	2.6	2.5	47.2	38.0	36.1	2.1	2.1	8.6	13.1	34.6	10.4	139.9	—	193.5	84.5	288.3	
1976	—	7.3	7.3	85.0	23.6	44.1	2.3	3.1	9.0	32.1	25.6	11.9	137.6	—	330.9	120.8	351.7	
1977	—	7.3	7.3	90.4	22.2	68.3	4.5	3.8	9.4	32.5	28.7	17.3	164.6	—	282.3	121.4	383.8	
1978	—	7.2	7.2	99.5	38.8	57.9	5.2	3.8	11.9	11.3	17.7	13.0	158.1	—	265.1	141.6	406.1	
1979	—	8.8	8.8	120.2	52.5	63.5	1.2	8.8	15.4	15.1	12.0	11.8	200.2	—	328.1	165.7	494.8	
1980	—	8.8	8.5	138.8	89.2	78.4	1.4	9.8	18.3	21.4	44.2	18.1	304.5	—	482.7	249.4	654.4	
1981	—	13.9	13.9	183.2	63.2	120.0	0.7	8.6	23.2	17.9	42.5	30.6	288.7	—	493.8	311.0	804.8	
1982	—	7.5	7.5	168.3	44.2	108.1	1.0	9.1	20.3	15.7	81.3	11.3	284.9	—	485.6	325.5	791.2	
1983	—	9.6	9.6	146.8	58.7	R134.4	0.1	6.1	20.9	8.7	16.2	8.5	R236.5	—	R382.2	359.8	R751.9	
1984	—	8.2	8.2	294.7	71.3	R127.9	0.1	11.1	23.1	32.4	69.7	15.5	R332.2	—	R545.1	476.8	R1,021.1	
1985	—	7.8	7.8	185.3	63.3	R98.8	0.1	10.9	21.8	22.4	48.3	9.8	R382.1	—	R654.8	385.4	R838.2	
1986	—	7.1	7.1	119.9	65.9	R52.0	(0)	28.9	18.6	59.2	28.5	20.0	R251.3	—	R368.3	379.2	R738.5	
1987	—	8.8	8.8	124.3	80.8	R73.3	(0)	24.9	17.2	10.9	26.2	26.6	R248.9	—	R379.8	446.7	R826.5	
1988	—	7.2	7.2	147.9	63.5	R65.1	(0)	30.9	19.0	16.4	25.8	23.8	R244.5	—	R350.7	457.0	R856.7	
1989	—	3.5	3.5	184.0	60.4	R11.7	0.1	31.7	19.3	21.3	5.5	24.8	R243.8	—	R401.4	493.0	R894.4	
1990	—	3.8	3.8	189.6	63.3	R17.8	0.2	24.7	20.1	21.8	8.8	32.1	R257.0	R31.2	R483.8	494.8	R933.5	
1991	—	5.0	5.0	187.7	57.9	R68.1	0.1	27.7	20.7	23.5	5.2	R33.9	R236.0	38.8	R457.5	482.0	R949.5	
1992	—	5.7	5.7	198.9	61.4	R66.7	0.3	26.0	24.4	19.4	7.3	R38.3	R238.7	35.9	R477.8	495.0	R983.8	
1993	—	5.2	5.2	210.9	85.2	R77.9	0.4	28.2	24.2	R23.7	9.4	R28.8	R258.7	35.9	R510.8	498.0	R1,008.8	
1994	—	6.8	6.8	228.9	71.9	57.3	0.3	22.2	25.8	25.3	6.4	32.5	241.6	35.8	510.0	523.0	1,038.0	

^a Liquefied petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c These are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

R=Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(R)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 237. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Oregon

Year	Primary Energy										Electricity	Total Energy
	Coal	Natural Gas	Petroleum							Total		
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel			
Prices in Nominal Dollars per Million Btu												
1970	0.53	—	2.17	1.94	0.73	1.12	5.00	2.89	0.71	2.41	—	2.41
1971	0.45	—	2.21	1.42	0.77	1.18	5.27	2.60	0.70	2.47	—	2.47
1972	0.50	—	2.19	1.39	0.78	1.20	5.58	2.82	0.69	2.44	—	2.44
1973	0.58	—	2.36	1.59	0.91	1.30	5.33	3.07	0.85	2.63	—	2.63
1974	0.72	—	3.23	2.48	1.57	2.11	7.22	4.15	1.83	3.68	—	3.68
1975	1.04	—	3.45	2.89	2.04	2.78	7.49	4.45	2.21	3.88	—	3.88
1976	1.35	—	3.59	2.84	2.32	3.01	7.05	4.58	2.08	4.14	—	4.14
1977	1.52	—	3.87	3.06	2.82	3.61	6.97	4.83	2.08	4.41	—	4.41
1978	—	—	4.29	3.19	2.86	4.02	7.80	5.29	2.16	4.61	—	4.61
1979	—	—	5.73	4.74	3.79	4.32	10.21	7.15	2.79	6.10	—	6.10
1980	—	—	9.82	6.98	6.24	5.88	14.38	9.75	4.14	8.81	—	8.81
1981	—	—	10.84	7.94	7.58	6.24	18.09	10.85	5.61	9.64	—	9.64
1982	—	—	10.92	7.82	7.37	5.94	17.25	10.51	6.01	9.25	—	9.25
1983	—	—	10.44	7.31	^R 5.70	6.10	16.98	5.81	5.61	^R 8.34	—	^R 8.34
1984	—	—	10.27	6.31	^R 6.42	6.28	17.03	5.79	5.61	8.41	—	8.41
1985	—	—	9.88	6.27	6.16	6.45	17.61	6.37	5.02	8.48	—	8.48
1986	—	—	8.41	6.16	4.24	6.06	15.59	6.92	2.86	6.39	—	6.39
1987	—	—	7.56	6.63	4.35	6.26	12.70	7.12	2.80	6.54	17.04	6.54
1988	—	—	7.41	6.81	4.04	6.38	14.61	7.48	2.26	6.69	13.54	6.69
1989	—	—	6.89	7.77	4.76	6.56	14.48	6.50	2.57	7.51	14.24	7.51
1990	—	—	9.92	6.84	5.85	6.69	14.88	6.85	3.69	8.65	13.99	8.65
1991	—	—	6.71	6.63	5.01	9.29	16.79	6.14	2.58	7.99	15.39	7.99
1992	—	2.09	8.54	6.83	4.67	9.29	19.43	10.03	1.84	8.28	14.54	8.38
1993	—	3.62	8.24	6.83	4.62	9.21	18.94	^R 9.96	2.00	^R 8.73	15.45	^R 8.73
1994	—	4.09	7.96	6.75	4.16	9.26	19.18	10.03	2.04	8.85	13.47	8.85
Expenditures in Million Nominal Dollars												
1970	(a)	—	3.3	37.4	8.8	8.1	15.8	368.7	4.8	426.0	—	426.0
1971	(a)	—	1.9	47.0	8.9	0.7	13.2	380.9	2.2	454.1	—	454.1
1972	(a)	—	2.0	62.0	9.0	0.1	15.0	369.9	1.0	477.9	—	477.9
1973	(a)	—	2.2	80.1	12.2	0.1	18.1	453.7	1.6	555.0	—	555.0
1974	(a)	—	3.3	99.2	19.5	0.1	20.9	599.1	3.7	746.0	—	746.0
1975	(a)	—	3.8	188.2	34.4	0.1	22.3	857.1	8.1	818.7	—	818.7
1976	(a)	—	3.1	117.4	27.0	0.2	23.3	722.8	5.1	898.6	—	898.6
1977	(a)	—	4.0	146.6	34.1	0.2	22.4	611.8	5.6	1,024.7	—	1,024.7
1978	—	—	4.2	169.2	41.0	1.1	26.2	913.3	22.8	1,178.7	—	1,178.7
1979	—	—	6.0	255.8	56.3	1.5	36.6	1,174.4	65.2	1,595.9	—	1,595.9
1980	—	—	11.8	369.8	86.5	1.3	49.1	1,826.7	28.8	2,888.1	—	2,888.1
1981	—	—	12.0	445.4	72.3	3.2	55.5	1,855.4	127.2	2,370.9	—	2,370.9
1982	—	—	7.0	406.6	74.3	1.8	48.5	1,594.4	210.1	2,282.5	—	2,282.5
1983	—	—	6.6	420.8	^R 67.8	1.9	60.0	1,282.2	115.2	^R 1,944.5	—	^R 1,944.5
1984	—	—	6.5	385.9	^R 71.0	6.5	55.3	1,318.8	116.7	^R 1,890.5	—	^R 1,890.5
1985	—	—	7.1	437.9	74.3	8.8	61.6	1,328.7	97.8	1,896.5	—	1,896.5
1986	—	—	8.2	323.6	62.5	5.1	44.6	1,081.3	54.1	1,559.6	—	1,559.6
1987	—	—	4.6	379.5	71.4	6.3	41.1	1,117.2	53.9	1,672.0	0.4	1,672.4
1988	—	—	3.7	404.2	72.7	6.2	46.5	1,237.5	58.9	1,829.7	0.4	1,830.1
1989	—	—	4.2	460.7	90.9	5.8	40.3	1,391.9	70.9	2,062.7	0.4	2,063.1
1990	—	—	5.7	548.7	111.3	6.8	48.0	1,531.8	84.8	2,396.3	0.4	2,396.8
1991	—	—	5.5	570.9	105.8	5.3	49.4	1,509.9	82.8	2,339.7	0.5	2,340.1
1992	—	(a)	9.6	584.4	105.9	4.9	59.3	1,868.5	67.3	2,466.0	0.4	^R 2,466.5
1993	—	(a)	4.6	683.1	112.7	4.7	57.8	^R 1,782.6	47.8	^R 2,483.9	0.4	^R 2,483.8
1994	—	0.1	6.3	552.9	106.7	7.4	61.3	1,759.2	48.7	2,523.4	0.4	2,523.8

^a Liquefied petroleum gas.^R Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)-Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 238. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1984, Oregon

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Geothermal	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	—	8.37	8.86	0.83	—	0.80	—	8.68	0.48
1971	—	—	—	0.86	—	0.86	—	0.89	0.70
1972	—	—	—	0.76	—	0.76	—	0.72	0.72
1973	—	0.66	0.94	1.21	—	1.20	—	0.77	0.62
1974	—	0.75	2.01	2.28	—	2.28	—	0.64	1.23
1975	—	1.27	—	2.21	—	2.21	0.26	0.82	2.94
1976	—	1.64	—	2.22	—	2.22	0.21	0.96	0.23
1977	—	1.94	—	2.66	—	2.66	0.22	1.04	0.30
1978	—	—	—	2.54	—	2.54	0.19	1.12	0.96
1979	—	3.27	—	5.89	—	5.89	0.30	1.56	0.67
1980	1.41	4.29	—	6.53	—	6.53	0.38	1.74	0.89
1981	1.59	4.40	—	6.70	—	6.70	0.47	1.24	0.74
1982	1.72	5.38	—	7.22	—	7.22	0.61	1.29	0.79
1983	1.62	5.06	—	6.07	—	6.07	0.64	—	0.76
1984	2.00	5.09	—	5.75	—	5.75	0.58	—	0.76
1985	2.00	—	—	5.87	—	5.87	0.54	—	0.67
1986	—	2.51	—	3.24	—	3.24	0.52	—	0.52
1987	—	—	—	4.10	—	4.10	0.45	—	0.45
1988	—	—	—	4.03	—	4.03	0.46	0.87	0.47
1989	1.56	2.92	—	4.53	—	4.53	0.46	0.39	0.99
1990	1.86	3.83	—	3.47	—	3.47	0.44	0.46	0.76
1991	1.08	1.57	—	4.75	—	4.75	0.43	1.63	1.01
1992	1.10	1.94	—	4.49	—	4.49	0.53	1.81	0.95
1993	1.12	2.25	—	3.83	—	3.83	—	^R 1.13	^R 1.50
1994	1.07	1.89	—	4.65	—	4.65	—	—	1.37
Expenditures in Million Nominal Dollars									
1970	—	0.4	0.1	(a)	—	0.1	—	0.3	0.8
1971	—	—	—	(a)	—	(a)	—	0.2	0.2
1972	—	—	—	(a)	—	(a)	—	0.4	0.4
1973	—	1.6	(a)	0.2	—	0.2	—	0.5	2.3
1974	—	0.2	(a)	0.7	—	0.7	—	0.4	1.3
1975	—	(a)	—	8.4	—	8.4	(a)	(a)	0.4
1976	—	(a)	—	0.3	—	0.3	4.8	0.5	5.6
1977	—	(a)	—	4.1	—	4.1	15.1	2.6	22.1
1978	—	—	—	2.1	—	2.1	3.3	1.5	6.9
1979	—	5.1	—	30.8	—	30.8	14.8	3.4	57.0
1980	16.2	1.4	—	4.2	—	4.2	21.4	2.8	41.1
1981	31.5	0.9	—	1.4	—	1.4	33.2	1.5	66.5
1982	15.3	0.2	—	0.6	—	0.6	32.6	0.5	49.1
1983	9.8	(a)	—	0.9	—	0.9	25.7	—	36.2
1984	16.8	(a)	—	0.3	—	0.3	29.7	—	46.8
1985	13.9	—	—	8.1	—	8.1	48.6	—	64.5
1986	—	(a)	—	0.1	—	0.1	50.5	—	39.6
1987	—	—	—	(a)	—	(a)	21.1	—	21.1
1988	—	—	—	(a)	—	(a)	31.4	0.9	32.3
1989	8.1	39.2	—	2.0	—	2.0	26.1	0.1	75.5
1990	15.3	22.9	—	1.1	—	1.1	28.6	(a)	47.8
1991	33.5	17.2	—	0.6	—	0.6	5.6	(a)	58.1
1992	42.3	27.9	—	0.5	—	0.5	26.0	0.1	66.8
1993	39.1	36.8	—	1.2	—	1.2	—	^R 0.1	^R 77.3
1994	44.7	48.3	—	0.3	—	0.3	—	—	93.4

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^R Revised data.

—No consumption.

(a)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 239. Energy Price and Expenditure Estimates by Source, 1970-1994, Pennsylvania

Year	Primary Energy														Nuclear Fuel	Hydro	Total C	Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy C
	Coal			Natural Gas	Petroleum															
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total									
Prices in Nominal Dollars per Million Btu																				
1970	0.44	0.36	0.39	0.87	1.37	0.72	1.82	2.82	0.47	\$ 1.91	1.71	0.21	—	0.97	8.34	6.23	1.47			
1971	0.46	0.41	0.43	0.93	1.25	0.75	1.77	2.97	0.59	\$ 1.87	1.83	0.15	—	1.08	0.43	8.04	1.05			
1972	0.66	0.43	0.47	0.99	1.27	0.78	1.84	2.94	0.70	\$ 1.91	1.88	0.16	—	1.11	0.46	8.34	1.78			
1973	0.67	0.46	0.54	1.07	1.50	0.91	2.16	3.03	0.85	\$ 2.13	2.00	0.16	—	1.19	0.50	8.98	1.90			
1974	1.36	0.84	1.04	1.26	2.50	1.56	3.42	4.40	2.00	\$ 3.11	3.16	0.25	—	1.87	0.93	8.81	2.85			
1975	1.62	1.82	1.21	1.83	2.68	2.01	3.99	4.72	2.02	\$ 3.28	3.48	0.25	—	2.02	0.93	10.37	3.26			
1976	1.62	1.02	1.25	1.72	2.80	2.18	3.95	4.90	1.94	\$ 3.25	3.54	0.24	—	2.14	0.96	10.65	3.39			
1977	1.82	1.06	1.28	2.20	3.20	2.61	4.12	5.21	2.25	\$ 3.47	3.81	0.26	—	2.30	1.07	11.58	3.65			
1978	1.98	1.20	1.47	2.31	3.36	2.66	4.31	5.11	2.18	\$ 3.66	3.84	0.27	—	2.47	1.16	12.27	4.07			
1979	1.88	1.23	1.46	2.81	4.77	3.65	4.76	7.00	3.13	\$ 4.90	5.37	0.32	—	3.08	1.28	13.09	4.87			
1980	2.20	1.29	1.88	3.37	6.70	6.37	6.18	9.71	4.36	\$ 7.44	7.87	0.42	—	4.04	1.58	15.17	8.41			
1981	2.37	1.59	1.80	4.02	8.17	7.49	7.08	10.79	5.19	\$ 9.31	8.95	0.53	—	4.68	1.78	17.08	7.40			
1982	2.53	1.67	1.80	4.85	7.97	7.02	7.77	10.04	4.87	\$ 8.82	8.63	0.67	—	4.76	1.70	19.93	8.36			
1983	2.16	1.56	1.86	5.68	\$ 7.79	\$ 6.53	8.40	9.18	4.51	\$ 8.82	8.07	0.89	—	4.68	1.75	19.75	\$ 8.33			
1984	2.02	1.62	1.71	5.74	\$ 7.91	\$ 6.24	8.43	8.91	4.90	\$ 9.22	\$ 8.08	0.89	—	\$ 4.52	1.72	20.03	\$ 8.11			
1985	1.88	1.68	1.84	6.74	\$ 7.98	8.84	8.75	9.81	4.38	\$ 8.82	8.08	0.92	—	4.48	1.61	21.24	\$ 8.47			
1986	1.76	1.52	1.56	5.38	\$ 6.81	3.91	8.98	9.64	2.46	\$ 7.11	\$ 5.88	0.79	—	3.68	1.36	21.98	\$ 7.68			
1987	1.69	1.47	1.49	4.94	\$ 5.66	4.02	6.49	7.03	2.95	\$ 6.28	\$ 6.08	0.78	—	3.68	1.36	21.48	7.45			
1988	1.81	1.47	1.50	4.70	\$ 5.82	3.95	6.66	7.01	2.34	\$ 6.51	\$ 6.01	0.84	—	3.46	1.35	20.92	7.31			
1989	1.87	1.47	1.50	4.98	\$ 6.28	4.44	9.28	7.79	2.83	\$ 6.53	\$ 6.61	0.88	—	3.73	1.38	21.88	\$ 7.77			
1990	1.71	1.54	1.57	5.34	\$ 7.78	6.59	11.42	9.35	3.20	\$ 6.57	7.99	0.83	4.186	\$ 4.81	3.32	22.46	\$ 8.51			
1991	1.75	1.55	1.59	5.38	\$ 7.56	4.81	12.18	9.44	2.31	\$ 7.18	\$ 7.97	0.77	2.02	\$ 4.03	1.29	23.51	\$ 8.66			
1992	1.73	1.50	1.54	5.22	\$ 7.14	4.49	10.31	9.33	2.33	\$ 7.70	\$ 7.84	0.88	2.02	\$ 3.91	1.19	23.61	\$ 8.56			
1993	1.73	1.45	1.60	5.33	\$ 7.01	4.17	\$ 10.59	\$ 9.01	2.35	\$ 7.73	\$ 7.51	0.86	2.02	\$ 3.88	1.18	23.25	\$ 8.49			
1994	1.73	1.44	1.60	5.73	6.99	3.90	9.96	9.21	2.53	7.48	7.53	0.82	1.98	3.93	1.14	23.13	8.83			

Expenditures in Million Nominal Dollars																	
1970	317.5	339.1	888.6	883.4	428.1	38.9	32.7	1,683.8	187.4	\$ 231.9	2,447.5	1.1	—	3,758.7	-298.5	1,330.2	4,792.4
1971	279.2	409.2	688.4	717.1	458.6	38.6	32.6	1,677.0	239.1	\$ 243.7	2,682.6	0.7	—	4,089.8	-397.7	1,569.9	5,279.0
1972	345.7	439.6	785.2	798.1	508.9	38.0	38.0	1,791.4	239.2	\$ 269.8	2,865.4	0.6	—	4,489.3	-461.0	1,782.8	6,791.1
1973	436.2	623.3	959.5	817.6	627.7	47.4	47.4	1,829.0	280.2	\$ 292.2	3,123.9	0.6	—	4,901.6	-632.8	2,017.4	6,386.1
1974	875.2	884.6	1,729.7	880.1	1,043.9	76.8	72.4	2,514.3	612.5	\$ 407.4	4,728.5	19.5	—	7,348.8	-973.7	2,857.3	8,090.4
1975	813.7	1,078.1	1,941.7	864.8	1,399.8	97.3	78.5	2,895.2	441.2	\$ 370.8	4,720.4	44.3	—	7,721.4	-1,847.7	3,090.5	8,794.3
1976	1,012.5	1,079.6	2,092.1	1,180.0	1,220.0	104.8	93.7	3,091.3	522.6	\$ 433.4	5,405.3	43.8	—	8,721.1	-1,143.4	3,370.9	10,848.6
1977	902.8	1,073.0	1,975.8	1,411.0	1,448.5	120.8	103.9	3,293.8	730.3	\$ 471.1	6,168.2	49.7	—	9,004.7	-1,299.3	3,728.5	12,032.0
1978	1,066.5	1,235.2	2,300.7	1,495.7	1,488.5	144.8	116.1	3,278.8	887.0	\$ 526.1	6,218.3	67.1	—	10,081.8	-1,513.7	4,025.9	12,694.0
1979	1,123.0	1,423.0	2,546.0	1,977.9	2,132.2	215.6	148.7	4,271.8	771.3	\$ 728.1	6,257.7	66.1	—	12,057.8	-1,722.7	4,430.9	15,865.8
1980	1,806.0	1,889.6	2,594.8	2,489.5	2,885.1	268.1	183.8	5,807.8	798.1	\$ 909.6	10,484.8	86.4	—	15,824.2	-1,957.2	5,098.8	18,723.8
1981	941.5	1,738.9	2,880.4	3,034.3	2,838.4	382.0	191.8	5,901.0	906.4	\$ 1,189.0	11,408.6	82.8	—	17,204.0	-2,178.4	5,828.2	20,851.9
1982	482.4	1,637.2	2,319.6	3,255.5	2,443.1	342.3	198.6	5,386.2	690.1	\$ 1,082.8	9,962.9	121.7	—	15,659.7	-2,088.9	6,382.4	19,959.2
1983	483.3	1,730.1	2,213.4	3,506.9	\$ 2,393.4	\$ 337.7	214.7	4,963.7	663.7	\$ 881.0	\$ 9,444.2	142.4	—	\$ 15,305.9	-2,222.3	6,188.3	\$ 19,551.9
1984	624.9	1,670.1	2,484.9	3,716.2	\$ 2,523.1	\$ 389.6	261.3	4,784.1	669.9	\$ 920.6	\$ 9,528.7	204.8	—	\$ 15,843.7	-2,309.7	6,863.4	\$ 20,497.4
1985	492.9	1,814.3	2,387.2	3,444.6	\$ 2,408.2	334.6	282.3	4,828.9	483.6	\$ 1,308.6	\$ 9,328.5	282.2	—	\$ 15,336.8	-2,233.1	7,269.2	\$ 28,308.7
1986	350.9	1,711.8	2,062.7	3,147.9	\$ 1,821.3	219.3	289.5	3,678.6	348.8	\$ 819.7	\$ 7,068.3	338.6	—	\$ 12,582.4	-2,058.6	7,508.9	\$ 18,102.9
1987	357.1	1,894.3	2,051.5	2,944.4	\$ 1,989.4	236.6	268.6	3,927.4	427.8	\$ 790.0	\$ 7,582.8	283.8	—	\$ 12,872.6	-2,014.1	7,769.8	\$ 18,847.9
1988	437.4	1,785.6	2,183.0	3,012.8	\$ 1,990.1	255.1	192.4	4,084.0	312.7	\$ 784.5	\$ 7,598.8	342.6	—	\$ 13,147.1	-2,092.5	7,994.9	\$ 19,048.9
1989	442.2	1,767.4	2,189.8	3,283.4	\$ 2,243.3	242.5	229.6	4,453.3	372.1	\$ 795.7	\$ 8,338.4	389.7	—	\$ 14,199.1	-2,169.5	8,360.8	\$ 20,390.4
1990	488.0	1,784.7	2,244.7	3,291.8	\$ 2,440.5	380.7	261.3	5,248.8	338.3	\$ 870.7	\$ 8,468.3	511.5	\$ 81.9	\$ 15,577.9	-2,215.1	8,738.6	\$ 22,069.4
1991	412.9	1,765.0	2,163.0	3,285.9	\$ 2,330.9	309.5	327.9	5,310.9	214.3	\$ 778.2	\$ 8,268.6	474.0	67.6	\$ 15,380.1	-2,122.4	8,236.0	\$ 22,372.7
1992	459.8	1,710.2	2,169.0	3,404.6	\$ 2,253.0	277.8	338.6	5,257.8	205.6	\$ 844.4	\$ 8,227.1	436.0	87.8	\$ 16,304.8	-1,992.9	8,274.4	\$ 22,588.2
1993	479.5	1,638.8	2,118.3	\$ 3,598.9	\$ 2,489.7	278.1	\$ 217.1	\$ 5,204.8	\$ 254.8	\$ 869.8	\$ 8,314.3	416.7	71.4	\$ 15,458.6	-1,991.2	8,429.7	\$ 22,887.1
1994	501.6	1,636.8	2,037.6	3,533.3	2,534.7	289.7	200.1	5,303.8	289.1	919.7	8,506.1	447.2	72.3	15,898.5	-1,971.8	9,618.9	23,541.7

^a Liquid petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used as electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 240. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Pennsylvania

Year	Primary Energy							Electricity	Total Energy ^a	
	Coal	Natural Gas	Petroleum			Biomass ^c	Total ^b			
			Distillate Fuel	Kerosene	LPG ^a					
Prices in Residential Dollars per Million Btu										
1970	1.83	1.28	1.36	1.57	2.47	1.41	—	1.28	7.85	1.86
1971	1.06	1.24	1.44	1.62	2.37	1.49	—	1.32	8.09	2.18
1972	1.14	1.31	1.45	1.59	2.59	1.50	—	1.36	8.54	2.32
1973	1.08	1.43	1.67	1.82	3.48	1.74	—	1.53	9.09	2.60
1974	2.26	1.62	2.62	2.89	4.40	2.69	—	2.09	11.33	3.51
1975	2.87	1.89	2.41	3.12	4.42	2.89	—	2.32	12.89	3.97
1976	2.27	2.09	2.93	3.26	5.31	3.04	—	2.48	13.81	4.10
1977	2.36	2.45	3.32	3.69	5.33	3.41	—	2.66	14.61	4.57
1978	2.46	2.59	3.52	3.88	5.46	3.61	—	2.98	14.80	4.82
1979	2.54	3.13	3.03	5.27	7.45	5.11	—	3.90	15.62	5.91
1980	3.76	3.79	6.98	6.06	6.60	7.19	—	4.92	17.42	7.17
1981	3.21	4.41	6.52	10.29	6.77	6.69	—	5.79	18.54	8.54
1982	3.20	5.28	6.28	10.35	10.37	6.44	—	6.19	22.49	9.30
1983	2.76	6.26	6.09	9.19	11.37	6.30	—	6.78	22.87	10.17
1984	3.06	6.34	6.25	9.15	11.83	6.50	—	6.88	23.36	10.30
1985	2.89	6.88	7.82	8.98	11.83	6.12	—	6.88	25.86	10.78
1986	2.79	6.17	6.22	6.80	8.95	6.50	—	6.13	25.96	10.48
1987	2.72	6.82	5.99	6.52	10.30	6.21	—	5.80	26.96	10.41
1988	2.69	6.59	5.95	6.80	8.26	6.23	—	5.88	25.44	10.19
1989	2.79	5.92	6.50	7.22	11.06	6.35	—	6.10	26.06	10.57
1990	2.96	6.37	7.84	6.79	12.84	6.39	^d 2.83	^d 6.88	27.42	^d 11.83
1991	2.94	6.53	7.62	8.46	13.36	6.23	2.83	^e 6.75	26.09	^e 11.90
1992	2.88	6.37	6.79	7.64	11.37	7.31	2.83	^e 6.35	26.33	^e 11.36
1993	2.79	6.60	6.80	7.32	11.36	7.88	2.83	^e 6.47	27.39	^e 11.41
1994	2.75	7.18	6.56	7.27	11.06	6.95	2.83	6.81	28.05	11.81
Expenditures in Million Residential Dollars										
1970	46.4	387.4	246.1	28.9	17.8	292.7	—	798.4	581.5	1,388.9
1971	47.7	389.5	263.0	33.8	18.7	313.2	—	790.5	570.7	1,361.2
1972	38.3	414.2	286.7	38.4	18.7	343.8	—	785.4	740.3	1,525.7
1973	37.4	433.2	334.3	33.4	26.3	383.9	—	844.5	845.3	1,709.8
1974	63.6	451.3	487.0	41.4	28.8	659.1	—	1,073.0	1,057.1	2,130.1
1975	68.9	617.3	817.2	65.6	34.7	987.6	—	1,174.9	1,388.6	2,563.5
1976	51.3	621.9	694.5	40.2	43.7	679.3	—	1,350.5	1,280.0	2,630.4
1977	53.4	696.9	680.6	39.1	45.2	764.1	—	1,512.5	1,443.3	2,955.8
1978	57.7	755.5	679.5	36.5	42.4	757.4	—	1,596.6	1,532.9	3,109.5
1979	42.3	921.2	949.8	41.0	37.8	1,046.3	—	2,014.8	1,874.2	3,889.0
1980	81.2	1,898.2	1,127.1	167.4	52.6	1,987.5	—	2,497.1	1,996.1	4,493.2
1981	74.7	1,296.0	1,200.5	116.3	65.0	1,381.8	—	2,745.1	2,114.3	4,859.4
1982	68.0	1,477.7	999.8	126.7	66.0	1,489.9	—	2,709.7	2,414.6	5,144.3
1983	51.2	1,025.5	975.2	65.8	68.9	1,127.8	—	2,804.3	2,522.9	5,327.2
1984	60.8	1,740.5	1,019.9	55.8	97.2	1,773.1	—	2,974.3	2,840.0	5,814.3
1985	42.7	1,844.8	988.4	148.4	88.3	1,223.1	—	2,816.7	2,793.4	5,794.2
1986	46.5	1,820.4	683.8	116.4	71.2	871.3	—	2,548.2	2,832.4	5,381.6
1987	53.5	1,514.6	682.8	79.5	64.6	816.3	—	2,384.9	3,169.9	5,551.8
1988	46.1	1,551.9	685.1	109.2	79.9	874.2	—	2,474.2	3,289.0	5,757.2
1989	52.3	1,862.4	836.2	103.7	103.1	1,442.0	—	2,796.7	3,395.9	6,151.6
1990	92.2	1,985.5	776.8	98.4	148.9	893.4	^d 23.8	^d 2,888.6	3,588.9	^d 6,137.8
1991	47.0	1,040.8	776.9	72.3	147.2	965.4	37.5	^e 2,728.0	3,795.9	^e 6,545.8
1992	52.5	1,758.1	698.2	67.7	133.7	896.5	38.5	^e 2,760.7	3,782.0	^e 6,543.7
1993	44.2	1,838.9	803.5	68.7	121.5	983.7	42.3	^e 2,920.1	3,959.0	^e 6,879.1
1994	43.6	1,806.9	755.3	61.4	116.1	932.9	41.4	3,014.7	4,035.0	7,049.7

^a Liquidated petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

R-estimated data.

—No consumption.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 241. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Pennsylvania

Year	Primary Energy								Total	Electricity	Total Energy ^b
	Coal	Natural Gas	Petroleum								
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.32	0.83	1.00	0.74	1.40	2.92	0.47	1.12	0.90	6.71	1.00
1971	0.43	0.87	1.16	0.79	1.40	2.97	0.71	1.22	0.97	7.54	2.12
1972	0.41	1.05	1.36	0.78	1.40	2.94	0.71	1.25	1.05	7.85	2.25
1973	0.43	1.11	1.34	0.89	1.49	3.09	0.84	1.30	1.10	8.25	2.48
1974	0.80	1.25	2.30	2.27	2.00	4.40	1.86	2.37	1.81	10.45	3.51
1975	1.25	1.87	2.40	2.62	2.84	4.72	2.82	2.86	1.94	11.88	4.48
1976	1.13	1.88	2.61	2.53	3.23	4.90	1.82	2.53	1.90	12.95	4.37
1977	1.19	2.20	3.01	2.80	3.51	5.21	2.27	2.85	2.40	13.44	5.20
1978	1.21	2.34	3.19	2.90	3.84	5.11	2.14	3.00	2.44	14.40	5.50
1979	1.30	2.69	4.57	4.01	4.24	7.00	3.27	4.33	3.22	15.21	6.83
1980	1.33	3.48	6.39	6.01	5.98	8.71	4.43	6.88	3.95	16.83	7.57
1981	1.57	4.13	8.81	7.02	6.17	10.79	5.35	7.59	4.67	18.57	8.64
1982	1.71	4.91	7.55	7.49	6.80	10.84	4.82	7.30	5.06	21.58	9.84
1983	1.50	5.80	R 6.70	6.65	7.14	8.16	4.58	R 6.47	R 5.64	21.67	R 10.39
1984	1.65	5.90	R 6.71	7.61	7.20	8.91	5.16	R 6.43	R 5.71	22.29	R 10.50
1985	1.61	5.98	R 6.88	R 7.20	8.92	8.81	4.78	R 6.39	R 6.72	20.28	R 11.35
1986	1.52	5.61	R 4.28	R 4.65	8.54	8.54	2.71	R 4.90	R 4.80	23.68	R 11.00
1987	1.46	5.23	R 4.47	R 5.14	7.82	7.09	3.05	R 4.51	R 4.84	22.78	R 10.86
1988	1.45	4.91	R 4.14	R 4.88	6.50	7.01	2.54	R 4.23	R 4.43	22.37	R 10.37
1989	1.44	5.16	R 4.78	R 5.05	6.20	7.79	3.02	R 4.66	R 4.75	23.28	R 10.74
1990	1.47	5.79	R 5.85	R 6.88	10.20	9.35	3.46	R 5.05	R 5.38	24.01	R 12.03
1991	1.43	5.80	R 5.48	R 6.20	11.09	9.44	2.51	R 5.74	R 5.38	24.65	R 12.39
1992	1.42	5.67	R 5.12	R 6.00	9.50	8.35	2.51	R 5.17	R 5.12	25.11	R 12.13
1993	1.36	5.78	R 4.82	R 5.82	9.32	R 8.81	2.54	R 4.71	R 5.20	24.63	R 12.30
1994	1.34	6.27	4.75	5.57	10.46	9.21	2.63	4.87	5.60	24.55	12.37
Expenditures in Million Nominal Dollars											
1970	12.3	96.9	34.4	1.2	1.8	37.8	15.4	88.4	188.6	308.4	587.0
1971	15.8	110.7	38.8	1.4	1.7	58.0	23.3	94.2	222.6	387.9	590.5
1972	10.9	135.1	38.0	1.6	1.9	57.2	22.6	108.3	247.2	408.5	655.7
1973	12.9	134.0	48.5	1.4	2.0	29.8	28.6	108.3	255.1	457.7	712.8
1974	20.1	131.1	74.2	2.8	3.9	30.4	58.3	170.7	321.9	571.1	893.0
1975	23.3	198.1	78.4	2.5	3.9	32.5	46.8	164.3	395.8	754.2	1,111.1
1976	20.7	214.3	91.9	2.7	4.7	24.7	49.7	173.7	408.7	821.1	1,229.8
1977	20.2	258.2	107.4	2.6	5.2	33.0	63.1	211.3	489.7	931.9	1,421.8
1978	28.0	264.4	105.9	2.5	5.3	42.0	53.8	209.2	501.5	1,015.6	1,517.1
1979	18.8	329.0	150.0	4.0	3.8	35.8	85.0	258.7	607.2	1,091.5	1,690.0
1980	23.0	422.8	218.2	6.6	6.5	18.9	42.4	288.6	734.4	1,234.7	1,949.1
1981	51.0	542.2	240.9	7.3	7.2	37.8	63.5	345.9	920.0	1,440.8	2,360.8
1982	36.3	635.2	210.6	10.0	7.6	25.8	34.2	288.4	958.9	1,688.0	2,623.0
1983	28.4	809.9	R 222.8	14.4	9.8	32.2	49.5	R 222.3	R 1,060.7	1,702.8	R 2,753.4
1984	30.4	782.2	R 228.8	8.5	10.4	18.4	67.7	R 291.8	R 1,144.3	1,821.3	R 2,885.6
1985	24.3	714.6	R 198.9	R 14.7	13.9	21.2	41.8	R 277.8	R 1,016.8	1,935.3	R 2,871.8
1986	27.0	885.6	R 149.7	10.4	10.9	15.8	16.1	R 202.8	R 885.5	2,082.4	R 2,987.8
1987	29.8	822.2	R 147.1	R 9.0	11.3	17.9	23.1	R 208.0	R 851.0	2,101.5	R 2,862.5
1988	26.3	848.4	R 134.6	R 11.6	13.1	17.4	18.3	R 185.2	R 869.8	2,183.7	R 3,038.8
1989	27.2	708.5	R 203.3	R 8.1	13.5	18.5	17.3	R 261.7	R 897.4	2,340.9	R 3,238.3
1990	23.4	R 754.8	R 194.8	R 8.7	16.7	34.2	17.5	R 284.7	R 1,081.2	2,477.8	R 3,518.0
1991	25.2	783.3	R 174.0	R 4.8	20.5	27.5	10.0	R 296.8	R 1,015.3	2,563.7	R 3,878.0
1992	25.7	798.1	R 161.3	R 9.4	18.9	16.4	14.0	R 214.0	R 1,031.8	2,730.0	R 3,761.8
1993	20.2	R 789.3	R 168.8	R 5.7	18.6	R 4.1	17.9	R 213.2	R 1,022.7	R 2,794.7	R 3,817.5
1994	17.7	900.1	191.2	10.5	19.4	4.2	32.9	248.3	1,166.0	2,884.4	4,250.4

^a Liquefied petroleum gases.^b These are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures in wood and waste are included in the residential sector.

R-Revised data.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 242. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Pennsylvania

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Biofuels ^a	Total ^d		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^e	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	0.44	0.32	0.41	0.57	0.76	0.70	0.74	1.40	5.08	2.92	0.58	1.15	0.66	—	0.66	3.55	0.78
1971	0.46	0.40	0.45	0.60	0.87	0.75	0.78	1.40	6.27	2.97	0.68	1.28	1.07	—	0.63	4.14	0.93
1972	0.56	0.41	0.50	0.70	0.87	0.75	0.78	1.40	5.58	2.94	0.68	1.29	1.10	—	0.70	4.41	1.03
1973	0.67	0.43	0.53	0.73	0.88	0.85	0.89	1.49	5.33	3.03	0.88	1.44	1.28	—	0.80	4.64	1.16
1974	1.38	0.90	1.28	0.92	1.69	2.17	2.27	3.06	7.22	4.40	2.07	1.93	2.45	—	1.46	8.70	1.98
1975	1.52	1.25	1.47	1.07	1.97	2.36	2.82	2.84	7.49	4.72	2.07	2.38	2.88	—	1.82	7.89	2.24
1976	1.62	1.13	1.54	1.32	1.97	2.41	2.55	3.23	7.06	4.90	1.97	2.67	2.55	—	1.74	8.06	2.36
1977	1.62	1.13	1.54	1.68	2.08	2.79	2.90	3.51	6.97	5.21	2.28	2.98	2.81	—	1.96	9.04	2.71
1978	1.68	1.21	1.84	1.98	2.24	2.85	2.99	3.94	7.60	5.11	2.24	3.00	2.96	—	2.16	9.88	3.01
1979	1.98	1.30	1.78	2.45	2.70	3.82	4.01	4.24	19.21	7.00	3.00	4.22	4.03	—	2.48	10.43	3.31
1980	2.20	1.39	2.03	3.09	3.73	3.87	6.81	5.86	14.96	9.71	4.87	8.74	8.08	—	3.13	12.87	4.30
1981	2.37	1.37	2.22	3.62	5.02	6.81	7.02	8.17	18.00	10.79	4.88	8.62	7.43	—	3.77	14.48	5.16
1982	2.53	1.71	2.27	4.38	4.27	6.87	7.49	8.69	17.25	10.04	4.75	7.87	7.02	—	4.32	16.97	6.26
1983	2.15	1.58	1.98	4.93	4.22	\$6.77	6.85	7.14	16.88	9.18	4.45	8.29	\$7.49	—	4.14	18.10	\$6.10
1984	2.02	1.65	1.92	4.93	4.51	\$6.72	7.61	7.20	17.63	8.91	5.18	8.38	\$7.64	—	\$3.92	18.21	\$5.77
1985	1.88	1.61	1.81	4.77	4.85	\$6.48	\$7.28	8.92	17.61	8.01	4.70	7.98	\$7.77	—	3.88	17.87	6.86
1986	1.76	1.52	1.68	4.21	4.01	\$6.40	\$6.85	8.54	15.89	8.54	2.71	\$6.43	\$5.84	—	3.64	17.31	\$5.93
1987	1.59	1.48	1.55	3.52	3.25	\$6.54	\$5.14	7.62	12.70	7.03	3.08	\$6.55	5.47	—	3.16	16.91	\$5.42
1988	1.61	1.45	1.57	3.50	3.04	\$6.29	\$6.96	8.69	14.61	7.01	2.54	\$6.72	\$5.45	—	\$2.97	16.18	5.20
1989	1.67	1.44	1.61	3.76	2.81	\$6.98	\$6.85	8.20	14.48	7.79	3.02	\$6.55	\$5.61	—	3.17	16.86	5.41
1990	1.71	1.47	1.66	4.89	2.83	\$6.88	\$6.68	10.23	14.80	9.35	3.48	\$6.50	\$5.95	\$1.41	\$3.29	17.51	\$5.55
1991	1.75	1.43	1.65	3.88	2.76	\$6.47	\$6.20	11.09	16.79	9.44	2.51	\$6.66	6.30	1.49	\$3.34	18.43	\$5.96
1992	1.73	1.42	1.65	3.62	2.31	\$6.19	\$6.96	9.50	19.43	9.33	2.61	\$7.41	6.84	1.45	\$3.27	18.21	\$5.84
1993	1.73	1.38	1.63	3.71	3.15	\$6.14	\$5.82	9.32	18.94	\$9.01	2.54	\$6.70	6.32	1.43	\$3.18	17.69	\$5.45
1994	1.73	1.34	1.63	3.87	3.27	5.04	5.71	8.29	19.18	9.21	2.83	6.77	6.22	1.39	3.18	17.38	5.45

Expenditures in Million Nominal Dollars

1970	317.8	64.3	381.8	186.2	34.0	38.9	2.5	12.6	77.8	18.1	60.9	38.6	283.1	—	651.1	488.4	1,389.6
1971	279.2	72.0	351.2	212.0	36.6	40.7	3.3	13.4	73.8	20.7	69.3	43.9	323.6	—	688.8	645.8	1,432.6
1972	345.7	57.3	403.0	249.1	41.4	42.2	3.7	15.4	93.7	17.9	94.8	48.5	345.6	—	999.7	622.4	1,619.1
1973	436.2	62.8	499.1	249.9	40.7	55.1	2.3	18.1	117.0	18.2	125.2	52.6	429.2	—	1,177.2	711.6	1,888.8
1974	875.2	129.5	1,004.6	274.3	73.1	138.1	11.5	36.7	151.9	27.0	286.5	88.5	773.3	—	2,049.3	1,024.6	3,073.9
1975	913.7	177.6	1,091.3	286.6	74.2	144.8	17.7	36.2	102.3	27.2	196.8	81.4	879.9	—	2,091.8	1,082.1	3,173.9
1976	1,012.5	132.8	1,145.0	344.0	82.5	171.0	17.3	45.1	107.1	28.2	220.9	124.0	793.4	—	2,282.4	1,183.1	3,465.5
1977	902.8	121.1	1,023.8	457.1	90.6	219.5	9.1	50.7	116.6	29.0	274.4	160.0	838.7	—	2,419.7	1,345.2	3,764.9
1978	1,085.8	134.4	1,220.2	478.8	94.1	203.4	12.0	65.1	136.4	22.3	299.2	188.1	908.5	—	2,685.2	1,472.5	4,157.7
1979	1,123.0	181.2	1,304.2	722.1	113.7	339.1	16.3	104.5	191.8	40.8	215.9	239.1	1,258.6	—	3,284.9	1,858.1	5,143.0
1980	1,006.0	150.8	1,156.8	667.9	127.1	368.4	7.1	102.8	240.9	28.9	153.1	371.0	1,398.6	—	3,808.3	1,964.8	5,773.1
1981	941.5	148.8	1,090.3	1,189.2	180.8	378.0	19.0	114.2	268.8	69.0	177.0	422.6	1,649.2	—	3,929.7	2,260.0	6,189.7
1982	882.4	149.5	1,031.9	1,138.1	162.9	342.9	21.3	118.8	282.2	69.2	198.8	303.5	1,447.3	—	3,217.3	2,289.3	5,506.6
1983	883.3	151.4	1,034.7	1,172.0	111.7	240.2	8.3	111.6	280.0	36.3	86.5	278.6	1,135.5	—	2,942.2	2,226.2	5,168.4
1984	824.9	190.6	1,015.4	1,150.0	121.4	240.8	5.4	144.2	287.9	26.1	132.8	290.1	1,248.8	—	2,344.7	2,381.4	4,726.1
1985	882.6	154.8	1,037.4	1,177.2	161.3	246.5	14.2	148.0	287.3	60.4	78.5	264.1	1,193.9	—	2,916.8	2,430.3	5,347.1
1986	339.8	162.5	502.3	850.9	159.5	154.6	11.7	161.5	231.9	43.2	70.8	163.9	1,016.1	—	2,349.5	2,419.9	4,769.4
1987	357.1	152.2	509.3	800.7	141.9	202.9	12.8	159.4	213.7	46.4	90.6	168.3	1,087.1	—	2,367.1	2,488.3	4,855.4
1988	437.4	146.4	583.8	803.4	110.4	170.3	9.7	94.0	257.0	51.1	59.1	159.1	890.7	—	2,277.6	2,607.3	4,784.9
1989	442.2	148.0	590.3	908.2	125.1	183.1	8.1	107.9	240.8	54.8	88.4	180.4	888.7	—	2,487.2	2,589.8	5,077.0
1990	480.0	149.3	629.4	943.7	140.3	218.8	4.3	188.8	246.9	57.8	107.4	218.5	1,056.1	28.3	2,484.8	2,783.5	5,268.3
1991	412.9	143.6	556.5	895.5	113.6	168.9	6.0	162.4	257.2	52.2	61.1	181.0	1,001.4	30.1	2,478.5	2,736.1	5,214.6
1992	458.8	146.9	605.7	846.2	92.4	168.8	4.7	179.4	303.4	83.8	52.4	218.5	1,101.4	28.3	2,580.6	2,718.3	5,298.9
1993	478.5	145.1	624.7	888.6	127.2	181.3	7.5	172.2	301.1	45.4	62.5	198.5	983.8	29.2	2,526.2	2,643.7	5,169.9
1994	501.8	134.6	636.4	906.2	165.2	149.9	6.2	59.6	319.7	44.0	54.1	194.7	988.3	30.9	2,561.6	2,664.0	5,225.6

^a Liquid petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990

R- Revised data

—No consumption, including cases where adjustments were made See explanation of adjustments in Section 7 of Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 243. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Pennsylvania

Year	Primary Energy													Total	Electricity	Total Energy
	Coal	Natural Gas	Petroleum							Total						
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG *	Lubricants	Motor Gasoline	Heating Fuel							
											Prices in Nominal Dollars per Million Btu					
1970	0.32	—	2.17	1.35	0.72	1.48	5.06	2.92	0.42	2.46	2.48	3.00	2.48			
1971	0.43	—	2.21	1.37	0.75	1.40	5.27	2.97	0.64	2.56	2.56	3.06	2.56			
1972	0.41	—	2.19	1.42	0.75	1.40	5.59	2.94	0.64	2.66	2.66	3.12	2.66			
1973	0.40	—	2.26	1.78	0.89	1.48	5.83	3.00	0.79	2.83	2.83	3.22	2.83			
1974	0.36	—	2.34	2.03	1.54	3.05	7.22	4.40	1.77	3.68	3.68	3.60	3.68			
1975	1.26	—	3.45	2.84	2.01	3.05	7.48	4.72	1.86	4.16	4.16	4.16	4.16			
1976	1.13	—	3.58	2.95	2.19	3.28	7.05	4.90	1.77	4.35	4.34	4.34	4.34			
1977	1.13	—	3.97	3.41	2.51	3.51	8.97	5.21	2.03	4.67	4.67	4.67	4.67			
1978	—	—	4.29	3.58	2.86	3.84	7.80	5.11	1.90	4.98	4.98	4.98	4.98			
1979	—	—	5.73	5.19	3.85	4.24	10.21	7.00	2.30	6.39	6.39	6.39	6.39			
1980	—	—	8.02	7.45	6.27	5.39	14.08	9.71	3.79	10.05	10.05	10.05	10.05			
1981	—	—	10.94	8.69	7.49	6.17	18.00	10.79	4.71	10.05	10.05	10.05	10.05			
1982	—	—	10.92	8.42	7.02	6.80	17.25	10.04	4.43	9.58	9.58	9.58	9.58			
1983	—	—	10.44	8.35	6.53	7.14	16.94	9.16	4.25	9.07	9.07	9.07	9.07			
1984	—	—	10.27	8.43	6.24	7.20	17.03	9.91	4.61	9.66	9.66	9.66	9.66			
1985	—	—	8.08	8.35	5.44	8.92	17.61	9.01	4.16	8.65	8.65	8.65	8.65			
1986	—	—	9.41	8.52	3.91	8.54	15.59	8.54	3.23	8.27	8.27	8.27	8.27			
1987	—	—	7.53	8.73	4.02	7.82	12.70	7.03	2.78	8.01	8.01	8.01	8.01			
1988	—	—	7.43	6.86	3.60	8.09	14.61	7.01	2.06	8.17	8.17	8.17	8.17			
1989	—	—	8.28	7.06	4.41	8.20	14.46	7.79	2.47	8.32	8.32	8.32	8.32			
1990	—	4.71	8.33	8.79	5.59	10.36	14.60	9.35	2.43	8.70	8.70	8.70	8.70			
1991	—	5.09	8.71	8.59	4.81	11.09	16.79	9.44	2.10	8.60	8.60	8.60	8.60			
1992	—	5.78	8.54	8.43	4.49	8.50	18.43	9.33	2.16	8.51	8.51	8.51	8.51			
1993	—	7.90	8.24	8.32	4.17	8.32	18.04	8.91	2.44	8.58	8.58	8.58	8.58			
1994	—	8.23	7.98	8.31	3.50	8.32	18.16	8.21	2.44	8.41	8.41	8.41	8.41			

Expenditures in million nominal dollars

Year	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	Lubricants	Motor Gasoline	Heating Oil	Total	Total	Electricity	Total Energy
1970	0.4	—	7.3	96.5	36.9	0.7	40.8	1,503.8	14.6	1,704.8	1.8	1,706.6
1971	0.4	—	7.0	96.5	35.9	0.8	42.2	1,453.3	24.2	1,631.2	2.4	1,633.7
1972	0.3	—	6.8	119.4	35.8	0.8	47.8	1,736.4	20.8	1,967.7	2.6	1,970.3
1973	0.2	—	6.8	108.8	45.9	1.0	57.9	1,781.0	30.3	2,071.6	2.8	2,074.4
1974	0.3	—	6.8	267.4	79.9	2.0	48.3	2,486.2	67.2	2,829.8	4.6	2,834.4
1975	0.1	—	7.4	234.4	98.2	1.7	48.7	2,635.4	68.4	3,116.1	5.6	3,121.7
1976	0.1	—	7.7	322.0	104.3	2.2	58.0	2,978.4	69.4	3,596.0	5.9	3,601.9
1977	0.1	—	8.7	362.2	120.6	2.8	59.5	3,282.0	81.0	3,663.5	8.1	3,671.6
1978	0.1	—	8.2	420.5	144.5	3.2	64.0	3,211.4	59.8	3,912.8	5.4	3,918.2
1979	—	—	8.8	520.5	215.6	2.7	91.2	4,185.2	88.2	5,251.0	8.8	5,259.8
1980	—	—	15.3	836.1	268.1	2.9	114.3	6,481.3	113.4	7,060.3	8.2	7,068.5
1981	—	—	15.2	949.7	361.9	3.3	137.4	6,794.1	133.3	7,450.9	11.1	7,462.0
1982	—	—	10.8	841.7	342.2	5.4	120.1	5,301.2	45.4	6,096.8	12.5	6,109.3
1983	—	—	11.1	877.2	337.7	6.8	123.8	4,896.2	43.8	5,328.4	15.4	5,343.8
1984	—	—	9.6	964.9	369.6	9.4	137.0	4,730.8	46.4	5,217.6	20.3	5,237.9
1985	—	—	10.5	877.0	354.6	9.6	127.5	4,744.2	46.7	5,267.7	24.1	5,291.8
1986	—	—	10.7	811.7	218.3	8.9	110.4	4,317.6	48.6	4,789.5	24.2	4,813.7
1987	—	—	5.6	829.9	239.8	4.3	101.7	4,361.1	105.0	4,746.5	32.8	4,779.3
1988	—	—	7.1	865.3	255.1	5.5	112.8	4,015.4	71.8	4,442.8	34.3	4,477.1
1989	—	—	7.4	974.6	242.5	5.1	114.7	4,579.6	64.1	5,768.4	35.1	5,803.5
1990	—	—	6.8	1,203.2	348.7	5.8	118.0	5,185.8	109.3	6,064.1	37.2	6,101.3
1991	—	—	6.1	1,166.6	369.3	7.5	122.4	5,231.2	75.4	6,039.0	39.2	6,078.2
1992	—	—	7.0	1,228.7	277.8	6.6	141.6	5,185.8	96.6	6,046.6	35.0	6,081.6
1993	—	—	6.2	1,205.4	278.1	6.8	143.4	5,185.8	82.4	6,046.6	32.2	6,078.8
1994	—	—	5.5	1,406.6	259.7	11.1	161.7	5,256.8	91.9	7,182.1	33.6	7,215.7

4. Logarithmic price index

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a) Values less than 0.05 million nominal dollars. (b) Expenditure data may not equal sum of components due to independent rounding. Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 244. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Pennsylvania

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Hydro	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per million Btu									
1970	0.31	0.41	0.47	0.49	—	0.47	0.21	—	0.34
1971	0.36	0.48	0.72	0.77	—	0.73	0.15	—	0.43
1972	0.40	0.49	0.75	0.83	—	0.76	0.16	—	0.48
1973	0.44	0.57	0.86	1.18	—	0.92	0.15	—	0.50
1974	0.76	1.34	2.00	2.31	—	2.08	0.25	—	0.99
1975	0.96	1.47	2.07	2.27	—	2.12	0.26	—	0.99
1976	0.96	1.64	1.98	2.36	—	2.05	0.24	—	0.96
1977	2.01	2.07	2.30	2.81	—	2.37	0.26	—	1.07
1978	1.16	2.53	2.21	2.82	0.85	2.21	0.27	—	1.15
1979	1.20	3.00	3.25	3.66	0.61	3.23	0.32	—	1.28
1980	1.38	3.80	4.82	6.86	0.72	4.68	0.42	—	1.55
1981	1.56	4.02	5.42	7.27	0.83	5.51	0.53	—	1.78
1982	1.64	4.10	5.02	7.08	1.14	5.11	0.67	—	1.70
1983	1.53	5.10	4.54	6.15	1.27	4.56	0.69	—	1.75
1984	1.59	4.83	4.82	6.19	1.25	4.79	0.68	—	1.72
1985	1.88	5.89	4.82	5.85	1.27	4.30	0.93	—	1.81
1986	1.48	3.61	2.42	3.79	1.09	2.47	0.78	—	1.35
1987	1.44	3.25	2.69	4.01	1.05	2.95	0.78	—	1.36
1988	1.45	3.33	2.37	3.57	1.02	2.59	0.84	—	1.35
1989	1.45	3.46	2.87	4.07	0.94	2.87	0.89	—	1.58
1990	1.52	2.93	3.31	6.46	0.99	3.32	0.83	—	1.32
1991	1.55	2.91	2.40	4.76	0.94	2.46	0.77	—	1.28
1992	1.48	2.97	2.45	4.31	0.78	2.36	0.68	—	1.19
1993	1.44	2.58	2.40	4.05	0.59	2.38	0.69	—	1.18
1994	1.43	2.28	2.53	3.89	0.55	2.50	0.62	—	1.14
Expenditures in Million Nominal Dollars									
1970	243.6	4.8	49.8	11.3	—	77.8	1.1	—	286.5
1971	273.5	4.8	89.4	19.3	—	116.8	0.7	—	397.7
1972	332.7	2.7	101.3	23.8	—	125.0	0.5	—	461.0
1973	429.9	1.5	96.1	24.7	—	122.8	0.6	—	532.8
1974	644.1	12.4	278.4	78.3	—	297.8	19.5	—	975.7
1975	822.7	1.8	153.8	85.2	—	178.3	44.3	—	1,047.7
1976	875.1	0.8	183.3	40.6	—	223.9	43.6	—	1,143.4
1977	878.2	0.7	311.9	58.7	—	370.6	49.7	—	1,299.3
1978	1,015.1	1.1	364.4	60.7	5.4	432.4	87.1	—	1,513.7
1979	1,189.9	5.6	404.6	44.2	2.3	451.1	93.1	—	1,722.7
1980	1,384.4	18.5	498.2	76.2	1.4	586.8	55.4	—	1,987.2
1981	1,464.4	13.3	522.6	73.4	1.9	597.9	62.8	—	2,178.4
1982	1,584.4	6.5	313.9	59.3	3.1	376.3	121.7	—	2,068.9
1983	1,489.2	6.4	485.9	78.2	7.9	572.3	142.4	—	2,222.3
1984	1,589.3	11.9	423.1	74.8	6.5	504.7	204.8	—	2,309.7
1985	1,892.7	8.0	315.7	48.5	6.9	379.2	262.2	—	2,233.1
1986	1,483.7	2.7	196.0	31.7	5.8	235.5	338.6	—	2,058.5
1987	1,466.6	6.9	211.0	36.6	6.8	254.5	293.8	—	2,014.1
1988	1,534.8	5.1	163.7	34.7	7.5	206.0	342.8	—	2,082.6
1989	1,529.6	14.4	202.2	47.0	6.4	205.8	369.7	—	2,169.5
1990	1,540.7	7.2	162.3	37.8	5.4	166.8	811.8	—	2,215.1
1991	1,534.3	8.2	77.8	25.1	5.0	106.0	474.0	—	2,122.4
1992	1,481.1	9.5	43.5	18.0	4.8	66.3	436.0	—	1,992.9
1993	1,427.3	22.0	102.0	18.9	3.2	125.2	416.7	—	1,991.2
1994	1,340.0	30.0	119.1	31.7	3.6	154.8	447.2	—	1,971.8

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
 —No consumption.

Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 245. Energy Price and Expenditure Estimates by Source, 1970-1994, Rhode Island

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c	
	Coal			Natural Gas	Petroleum						Nuclear Fuel	Biomass	Total ^c					
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b				Total				
Prices in Nominal Dollars per Million Btu																		
1970	—	0.94	0.94	1.39	1.36	0.76	1.77	2.80	0.43	1.41	—	—	—	1.40	0.43	6.85	1.81	
1971	—	1.08	1.08	1.48	1.44	0.79	1.81	2.85	0.63	1.43	—	—	—	1.51	0.64	7.13	2.01	
1972	—	1.32	1.30	1.78	1.44	0.76	1.70	2.69	0.63	1.84	—	—	—	1.57	0.66	7.95	2.36	
1973	—	1.57	1.57	2.01	1.69	0.93	2.03	3.06	0.71	1.51	—	—	—	1.76	0.71	8.39	2.44	
1974	—	1.43	1.43	2.16	2.81	1.81	2.68	4.21	1.98	2.32	—	—	—	2.78	1.77	12.79	3.78	
1975	—	2.84	2.84	2.74	2.78	2.88	3.80	4.59	1.82	2.53	—	—	—	3.11	1.84	13.78	4.16	
1976	—	2.12	2.12	3.02	2.93	2.28	3.79	4.69	1.94	2.72	—	—	—	3.25	1.98	13.58	4.30	
1977	—	2.55	2.55	3.64	3.31	2.94	3.91	4.87	2.18	2.84	—	—	—	3.60	2.07	18.02	4.70	
1978	—	2.50	2.50	3.67	3.53	2.97	3.99	5.10	3.18	3.30	—	—	—	3.60	2.95	15.38	6.05	
1979	—	2.18	2.18	3.22	3.59	3.96	5.04	6.96	3.13	4.29	—	—	—	5.07	3.03	17.41	6.55	
1980	—	2.37	2.37	5.88	7.88	6.81	6.57	9.72	4.69	6.86	—	—	—	7.88	3.91	20.47	8.05	
1981	—	3.43	3.43	5.77	8.71	7.90	7.86	10.79	4.69	7.15	—	—	—	8.18	4.43	25.86	10.80	
1982	—	4.08	4.08	7.00	8.45	7.51	7.80	10.12	4.58	6.77	—	—	—	6.12	4.56	24.73	10.41	
1983	—	3.68	3.68	7.08	8.30	6.91	8.82	9.46	4.34	6.94	—	—	—	7.60	4.13	25.85	10.45	
1984	—	3.50	3.50	6.39	8.29	6.46	8.42	8.85	5.08	6.90	—	—	—	7.61	4.33	26.75	10.04	
1985	—	3.48	3.48	6.88	8.82	6.70	11.78	9.13	4.89	6.91	—	—	—	7.41	3.82	24.73	8.88	
1986	—	2.30	2.30	6.77	8.18	4.25	10.82	7.36	2.67	6.56	—	—	—	6.00	2.39	23.40	8.46	
1987	—	3.08	3.09	5.49	8.16	4.18	11.19	7.86	3.10	6.50	—	—	—	6.16	3.50	23.53	8.60	
1988	—	2.54	2.54	5.94	8.38	4.94	11.00	8.40	2.47	6.40	—	—	—	6.15	2.28	23.28	8.63	
1989	—	2.70	2.70	6.21	8.98	4.78	9.29	9.11	2.89	6.28	—	—	—	6.20	2.65	24.24	8.42	
1990	—	3.86	3.86	5.83	8.59	5.99	12.46	19.85	3.49	6.46	—	—	2.54	6.46	2.60	26.85	18.80	
1991	—	3.51	3.51	5.94	7.91	5.23	13.81	10.09	2.86	6.14	—	—	2.80	7.45	2.23	29.75	18.41	
1992	—	3.43	3.43	5.52	7.20	4.78	12.21	9.83	2.57	6.23	—	—	2.68	6.70	2.18	30.12	18.27	
1993	—	3.31	3.31	5.97	7.11	4.48	10.29	9.57	2.84	6.50	—	—	2.84	6.92	2.92	30.52	18.57	
1994	—	3.34	3.34	6.93	7.00	4.20	6.30	9.66	2.89	6.26	—	—	2.82	6.91	2.49	30.96	18.54	
Expenditures in Million Nominal Dollars																		
1970	—	0.2	0.2	26.2	67.8	0.8	2.5	122.0	36.7	15.8	234.1	—	—	—	269.6	-8.3	98.7	959.9
1971	—	0.2	0.2	36.1	75.9	0.5	2.6	127.4	38.3	17.2	282.9	—	—	—	301.2	-12.1	101.8	980.9
1972	—	0.2	0.2	40.9	78.2	0.8	2.7	130.4	38.3	18.4	286.9	—	—	—	308.0	-11.3	121.3	417.9
1973	—	0.2	0.2	41.7	86.0	0.9	3.4	138.7	37.3	19.4	286.7	—	—	—	327.6	-11.4	137.3	453.5
1974	—	1.4	1.4	51.9	125.4	1.5	4.1	193.0	76.0	25.8	425.2	—	—	—	478.4	-29.9	187.9	649.2
1975	—	0.4	0.4	84.3	128.5	2.2	6.6	211.9	62.9	31.4	434.3	—	—	—	488.9	-18.1	208.3	696.1
1976	—	0.3	0.3	83.2	147.1	3.1	7.7	216.9	64.5	30.3	465.7	—	—	—	528.2	-11.9	223.8	741.2
1977	—	0.3	0.3	94.4	161.8	3.1	8.6	240.6	64.8	30.8	518.6	—	—	—	613.4	-15.0	247.5	846.9
1978	—	0.3	0.3	85.6	162.3	4.3	7.6	243.6	60.6	43.4	611.7	—	—	—	597.8	-15.1	259.8	842.4
1979	—	0.3	0.3	86.4	214.4	7.0	6.9	325.4	42.9	61.7	647.2	—	—	—	736.9	-23.1	307.3	1,014.1
1980	—	0.4	0.4	142.7	207.9	13.8	7.1	429.7	63.9	74.8	794.4	—	—	—	937.5	-47.5	381.8	1,382.8
1981	—	0.7	0.7	171.6	202.0	13.3	6.5	482.6	67.0	62.4	835.0	—	—	—	1,007.3	-46.5	441.4	1,492.2
1982	—	0.8	0.8	200.8	195.5	11.9	9.0	447.1	47.3	68.7	769.4	—	—	—	971.0	-28.7	415.6	1,367.8
1983	—	0.8	0.8	212.9	227.8	12.8	10.3	412.5	40.8	65.6	788.7	—	—	—	971.3	-31.7	451.3	1,388.0
1984	—	0.8	0.8	207.8	236.5	20.8	9.5	395.1	54.0	62.1	781.1	—	—	—	998.6	-24.3	472.1	1,427.5
1985	—	0.6	0.6	204.6	247.9	17.1	21.1	485.5	48.5	67.8	854.7	—	—	—	1,088.9	-27.4	458.2	1,499.7
1986	—	1.5	1.5	182.9	181.2	9.3	22.6	345.4	43.2	70.8	702.4	—	—	—	887.1	-22.3	451.8	1,338.4
1987	—	0.4	0.4	202.3	217.3	12.5	27.4	361.1	45.2	62.2	745.6	—	—	—	948.3	-25.9	495.1	1,408.8
1988	—	11.1	11.1	187.0	217.9	14.5	22.7	409.6	47.2	69.8	771.5	—	—	—	989.6	-22.4	494.0	1,441.2
1989	—	1.8	1.8	215.8	240.2	19.4	77.2	424.3	31.3	63.0	785.0	—	—	—	1,002.6	-17.7	528.0	1,510.9
1990	—	0.5	0.5	215.6	229.7	28.4	22.6	488.0	38.8	68.9	824.6	—	—	2.54	1,044.3	-29.6	536.1	1,611.8
1991	—	0.4	0.4	330.0	230.4	19.4	23.4	469.0	19.9	66.5	779.1	—	—	4.3	1,118.6	-5.7	650.0	1,770.9
1992	—	0.4	0.4	435.3	222.6	16.1	20.2	452.0	19.4	67.5	778.6	—	—	6.2	1,218.6	-3.4	657.0	1,872.3
1993	—	0.2	0.2	482.7	228.6	13.4	17.2	448.4	23.6	66.3	763.4	—	—	6.4	1,232.7	-2.5	681.9	1,912.2
1994	—	0.3	0.3	432.3	241.8	12.6	11.5	447.4	23.8	60.2	764.3	—	—	6.3	1,223.1	-2.7	674.0	1,894.4

^a Liquefied petroleum gases.^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

R-Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 246. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Rhode Island

Year	Primary Energy								Electricity	Total Energy ^a
	Coal	Natural Gas	Petroleum			Biomass ^b	Total ^c			
			Distillate Fuel	Kerosene	LPG ^d			Total		
Prices in Nominal Dollars per Million Btu										
1970	8.96	1.78	1.45	1.70	2.55	1.82	—	1.88	8.44	2.18
1971	1.51	1.89	1.57	1.68	2.82	1.59	—	1.67	6.54	2.30
1972	1.53	2.01	1.58	1.69	2.31	1.59	—	1.70	9.62	2.44
1973	1.63	2.34	1.76	1.94	3.73	1.81	—	1.93	10.17	2.63
1974	2.19	2.52	2.70	3.01	3.73	2.73	—	2.67	14.62	3.85
1975	2.62	3.04	2.85	3.18	8.48	2.80	—	2.94	15.43	4.38
1976	2.64	3.32	3.04	3.35	5.65	3.09	—	3.15	15.21	4.63
1977	3.12	4.17	3.40	3.73	5.55	3.44	—	3.65	18.91	5.12
1978	3.68	4.13	3.68	4.01	5.33	3.89	—	3.92	17.11	5.37
1979	3.64	3.64	3.25	3.33	7.64	3.26	—	4.76	19.49	6.61
1980	4.47	6.58	7.29	6.15	8.87	7.38	—	6.68	22.64	9.08
1981	5.40	6.48	8.93	10.84	10.04	8.99	—	7.75	27.88	11.18
1982	5.45	7.68	8.66	10.79	9.61	8.78	—	8.22	26.90	11.35
1983	5.62	8.37	8.45	9.38	10.62	8.53	—	8.45	27.90	11.74
1984	4.76	7.29	8.51	9.33	10.48	8.59	—	7.98	27.55	11.22
1985	4.39	7.82	8.15	8.38	11.44	8.35	—	8.08	28.77	10.88
1986	4.19	7.25	6.30	6.93	9.92	6.53	—	6.86	25.42	9.90
1987	3.85	6.83	6.31	6.91	11.25	6.60	—	6.80	25.93	9.61
1988	3.92	6.43	6.38	7.00	11.14	6.61	—	6.62	25.28	9.58
1989	3.88	6.94	7.19	7.88	8.50	7.25	—	7.10	26.34	10.43
1990	4.21	7.83	8.38	8.18	13.81	8.73	^d 2.83	^d 7.57	26.86	^d 11.15
1991	4.07	7.42	7.71	8.44	15.22	8.17	2.63	^d 7.52	32.17	^d 11.63
1992	3.84	7.54	7.04	7.71	13.80	7.37	2.63	^d 7.23	32.74	^d 10.99
1993	3.96	7.94	6.89	7.85	^d 8.85	^d 7.01	2.63	^d 7.24	33.42	^d 11.15
1994	4.07	8.65	6.53	7.48	4.81	6.73	2.63	7.45	33.94	11.41
Expenditures in Million Nominal Dollars										
1970	0.1	21.9	50.7	3.2	1.5	88.5	—	77.5	40.8	317.5
1971	0.2	23.5	56.1	3.1	1.6	80.7	—	84.4	44.2	328.6
1972	0.1	27.3	58.6	2.9	1.4	82.9	—	80.9	62.7	343.0
1973	0.1	27.1	82.5	2.0	1.9	88.4	—	83.6	59.7	352.3
1974	0.1	33.0	85.0	2.1	1.8	90.0	—	123.2	83.2	393.2
1975	0.1	46.2	88.8	1.9	3.6	94.1	—	134.5	86.7	428.7
1976	0.1	41.4	103.7	2.2	3.4	109.3	—	150.9	94.5	460.3
1977	0.2	57.1	114.2	1.6	3.4	119.2	—	178.5	102.5	579.0
1978	0.2	56.9	115.8	1.5	2.9	120.1	—	177.2	106.2	582.4
1979	0.1	48.2	151.5	1.4	3.1	158.0	—	205.4	120.3	623.7
1980	0.2	78.5	148.0	2.5	3.8	148.1	—	223.8	142.1	647.9
1981	0.6	95.3	139.5	2.8	4.4	140.7	—	236.4	172.9	609.4
1982	0.6	118.0	124.4	7.5	4.2	138.1	—	254.7	188.1	622.8
1983	0.5	119.1	142.3	3.0	5.5	151.0	—	270.5	182.1	652.6
1984	0.5	112.9	147.1	1.9	5.1	155.2	—	268.6	184.0	625.5
1985	0.3	118.0	182.4	5.8	11.5	180.5	—	298.8	193.0	678.8
1986	0.3	120.2	110.6	8.4	9.2	128.0	—	246.5	179.0	425.5
1987	0.2	114.0	117.4	4.0	12.5	133.8	—	249.1	193.4	441.5
1988	0.2	118.7	134.1	3.6	10.7	146.6	—	265.4	200.0	465.5
1989	0.2	130.4	132.9	2.5	8.5	143.9	—	274.5	213.0	487.5
1990	0.5	194.0	124.4	2.8	13.9	140.5	^d 5.2	^d 274.8	234.8	^d 608.0
1991	0.2	132.5	120.7	1.7	15.4	137.7	5.5	^d 275.0	250.0	^d 536.0
1992	0.3	153.6	134.0	1.8	13.4	149.0	5.8	^d 306.7	264.0	^d 572.7
1993	0.2	161.1	131.6	1.7	^d 10.2	^d 143.5	5.9	^d 310.7	275.0	^d 585.7
1994	0.2	158.5	139.9	1.9	5.6	147.0	5.8	311.5	277.0	588.5

^a Liquefied petroleum gases^b Commercial sector prices and expenditures for wood and waste are included in the residential sector^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

R=Revised data

—No consumption

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 247. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Rhode Island

Year	Primary Energy								Electricity	Total Energy ^b	
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
											Total
Prices in Nominal Dollars per Million Btu											
1970	9.90	1.44	1.10	0.78	1.30	2.99	2.44	0.85	1.06	7.02	2.04
1971	0.63	1.59	1.17	0.82	1.29	2.94	0.66	0.97	1.10	7.26	2.27
1972	1.05	1.79	1.17	0.82	1.32	2.89	0.68	0.97	1.15	6.08	2.49
1973	1.28	1.99	1.99	1.04	1.29	3.05	0.70	1.11	1.26	6.49	2.81
1974	1.75	2.11	2.30	2.33	2.16	4.21	1.90	2.17	2.16	12.91	4.51
1975	2.65	2.71	2.44	2.99	2.96	4.50	1.81	2.28	2.29	13.84	5.23
1976	1.62	3.35	2.62	2.41	3.00	4.69	1.79	2.36	2.53	13.84	5.37
1977	2.04	3.42	2.66	3.04	3.29	4.97	2.07	2.66	2.80	15.07	6.90
1978	1.80	3.24	3.14	3.23	3.46	5.10	1.99	2.82	2.94	15.49	6.30
1979	1.57	3.05	4.62	4.38	3.67	6.98	3.23	4.41	3.87	17.50	7.85
1980	1.67	5.06	6.46	—	5.29	8.72	3.94	6.08	5.44	20.45	10.70
1981	1.86	6.70	6.10	7.98	6.20	10.79	4.79	7.21	6.20	25.31	13.30
1982	2.01	6.62	7.65	8.64	6.44	10.12	4.56	6.90	6.69	23.69	12.79
1983	1.97	6.87	7.25	8.17	6.86	9.48	4.34	6.81	6.61	25.23	13.02
1984	2.39	6.34	7.18	8.59	6.20	8.85	5.35	6.48	6.38	25.56	12.81
1985	2.36	6.45	6.52	8.39	12.83	8.13	4.98	6.06	6.26	24.56	12.69
1986	2.06	6.21	6.74	8.51	11.25	7.36	2.95	6.76	6.84	23.01	9.82
1987	2.96	5.99	5.18	8.88	11.14	7.96	3.42	6.74	6.47	23.26	10.94
1988	2.53	5.85	5.02	8.41	10.88	6.40	2.89	6.25	6.59	22.82	10.77
1989	2.60	6.24	5.52	8.62	10.22	9.11	3.06	6.81	6.57	23.52	11.51
1990	2.82	6.04	6.85	8.31	10.80	10.03	3.35	6.42	6.72	24.39	13.66
1991	2.65	6.57	6.00	7.03	11.94	10.09	2.92	6.89	6.37	26.97	13.56
1992	2.87	6.21	5.62	6.21	9.96	9.93	2.71	6.59	6.49	29.41	14.02
1993	2.33	6.80	5.55	6.06	10.02	9.57	2.92	6.32	6.71	30.06	14.14
1994	2.23	7.36	5.59	5.87	9.83	9.96	2.82	6.49	6.14	29.45	13.22
Expenditures in Million Nominal Dollars											
1970	0.1	7.5	9.4	(a)	0.1	6.6	2.7	12.8	20.3	30.6	81.1
1971	(a)	7.3	10.4	(a)	0.1	6.8	4.8	15.7	23.1	35.4	58.5
1972	0.1	8.6	10.9	(a)	0.1	6.6	4.8	16.4	25.1	42.1	67.2
1973	0.1	8.8	12.2	(a)	0.1	6.6	4.8	17.8	26.7	47.7	74.3
1974	0.1	9.4	18.4	(a)	0.2	9.9	10.0	29.5	39.9	66.3	104.2
1975	0.1	11.8	19.3	(a)	0.3	1.8	8.9	27.3	38.1	74.4	113.5
1976	0.1	9.6	22.4	(a)	0.3	1.0	8.9	32.7	42.5	79.6	121.3
1977	0.1	10.4	25.0	(a)	0.4	1.1	10.8	37.3	47.8	89.2	137.0
1978	0.1	15.7	24.9	(a)	0.3	1.2	7.3	33.7	49.5	95.2	144.7
1979	(a)	19.1	39.4	(a)	0.3	1.6	5.4	40.7	59.6	111.9	171.6
1980	(a)	34.3	33.2	—	0.4	2.5	4.5	36.6	85.1	132.6	197.1
1981	0.1	40.0	18.0	(a)	0.5	2.9	5.7	27.2	87.3	162.2	229.5
1982	0.2	49.1	19.8	0.1	0.5	3.0	6.4	29.8	79.0	154.2	233.2
1983	0.1	49.6	24.4	0.1	0.6	2.0	6.2	36.3	83.0	170.3	255.3
1984	0.2	46.8	24.8	0.2	0.6	1.9	13.6	40.7	89.6	161.1	270.5
1985	0.1	50.6	17.8	0.2	2.1	1.6	17.2	38.8	86.5	161.0	270.5
1986	0.1	42.9	22.3	0.1	1.6	1.9	20.5	46.0	89.1	179.1	267.1
1987	0.1	62.0	26.9	0.2	2.2	1.6	10.9	41.7	99.8	190.2	293.9
1988	0.1	46.4	23.5	0.1	1.8	1.8	11.0	36.1	86.7	196.0	282.9
1989	0.1	56.2	25.0	0.1	1.6	1.8	6.8	37.6	99.9	211.0	304.9
1990	0.1	50.0	27.2	0.1	1.9	2.0	12.7	44.8	94.2	241.0	338.2
1991	0.1	49.9	27.1	(a)	2.1	1.9	10.8	42.0	92.0	264.0	358.0
1992	0.1	57.4	20.4	0.1	1.7	1.7	8.9	32.8	90.3	287.9	368.3
1993	0.1	65.4	20.7	0.1	2.0	0.5	11.4	34.7	100.1	279.0	379.1
1994	0.1	91.2	29.4	0.2	2.0	0.5	11.2	40.2	131.5	273.0	406.5

^a Liquefied petroleum gases^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.
Revised data

—No consumption

(a) Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 248. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Rhode Island

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Distillate ^d	Total ^d		
	Caking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^e	Lubricants	Motor Gasoline	Residual Fuel	Other ^f	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	0.80	4.90	8.86	0.86	6.71	4.78	1.24	8.88	2.36	6.42	1.88	6.62	—	0.66	4.83	1.86
1971	—	0.83	0.83	0.94	0.82	0.76	0.82	1.29	5.27	2.95	0.59	2.57	0.76	—	0.79	5.23	1.23
1972	—	1.05	1.05	1.12	0.84	0.78	0.82	1.32	5.56	2.89	0.61	2.77	0.79	—	0.82	5.81	1.36
1973	—	1.28	1.28	1.32	0.82	0.96	1.04	1.29	5.33	3.06	0.75	3.24	0.92	—	0.96	6.14	1.82
1974	—	1.75	1.75	1.71	1.51	2.15	2.33	2.16	7.22	4.21	1.92	3.68	1.97	—	1.94	10.48	2.98
1975	—	2.65	2.65	2.40	1.86	2.34	2.58	2.86	7.48	4.50	2.08	4.16	2.17	—	2.15	11.38	3.29
1976	—	1.82	1.82	2.36	1.94	2.23	2.41	3.00	7.05	4.69	2.04	3.92	2.34	—	2.24	11.26	3.25
1977	—	2.04	2.04	2.91	2.03	2.82	3.04	3.29	8.97	4.97	2.27	4.16	2.48	—	2.57	12.41	3.51
1978	—	1.80	1.80	2.76	2.21	2.98	3.23	3.48	7.80	5.10	2.35	4.57	2.70	—	2.71	12.92	3.99
1979	—	1.57	1.57	2.65	2.59	4.15	4.38	3.67	10.21	8.98	3.07	6.82	3.63	—	3.39	14.59	5.20
1980	—	1.67	1.67	4.46	3.98	6.85	6.16	5.28	14.38	9.72	4.24	8.28	5.07	—	4.81	18.28	7.27
1981	—	1.86	1.86	5.21	5.42	7.25	7.86	6.20	18.00	10.79	4.97	9.22	6.07	—	5.83	23.20	9.04
1982	—	—	—	5.97	4.02	7.14	—	6.44	17.25	10.12	4.52	8.28	5.08	—	5.31	22.57	8.16
1983	—	—	—	5.98	4.23	7.54	8.17	6.86	18.98	9.46	4.35	7.61	5.57	—	5.46	22.90	8.57
1984	—	2.39	2.39	5.65	4.62	7.29	8.53	6.20	17.63	8.86	5.35	7.50	5.59	—	5.60	23.36	8.88
1985	—	2.38	2.38	5.79	5.18	7.41	8.81	12.48	17.61	9.13	4.48	7.37	5.57	—	5.58	23.83	7.48
1986	—	2.08	2.08	5.58	4.86	7.41	8.51	11.25	15.59	7.96	2.85	10.73	4.74	—	4.79	20.90	7.28
1987	—	2.39	2.38	5.23	3.54	7.51	8.86	11.14	12.70	7.95	3.42	10.73	4.42	—	4.55	21.88	7.12
1988	—	2.53	2.53	4.70	3.34	7.42	6.41	10.88	14.81	8.40	2.83	10.64	4.08	—	3.94	21.10	6.80
1989	—	2.60	2.60	5.03	3.17	7.41	6.62	10.22	14.48	8.11	3.06	10.00	4.01	—	4.18	21.95	7.24
1990	—	2.82	2.62	5.18	3.34	7.53	6.84	10.88	14.88	10.83	2.38	9.71	4.42	1.52	4.54	24.48	8.87
1991	—	—	—	6.25	3.05	7.08	7.08	11.94	16.79	10.09	2.92	16.33	4.90	1.70	5.13	27.09	9.25
1992	—	—	—	4.68	2.78	7.31	6.21	9.98	19.43	8.83	2.71	14.78	3.81	1.51	4.38	25.96	8.59
1993	—	—	—	4.97	3.30	7.18	6.08	10.32	18.94	9.57	2.82	19.10	4.36	1.49	4.93	26.44	8.45
1994	—	—	—	4.31	3.66	6.12	5.89	9.35	19.18	9.86	2.82	24.78	4.46	1.41	4.92	25.95	8.99
Expenditures in Million Nominal Dollars																	
1970	—	(a)	(a)	5.0	4.1	2.8	8.4	8.7	1.6	(g)	8.2	2.2	26.1	—	25.1	38.9	45.0
1971	—	(a)	(a)	5.9	6.0	2.7	0.4	0.6	1.9	(h)	13.1	2.0	26.8	—	32.7	22.3	55.0
1972	—	(a)	(a)	4.9	4.5	2.6	0.3	1.0	2.1	(i)	19.9	2.2	26.8	—	31.6	28.6	58.0
1973	—	(a)	(a)	5.9	7.1	3.0	0.3	1.2	2.1	(j)	18.1	3.0	32.9	—	38.8	29.9	68.7
1974	—	(a)	(a)	7.7	11.5	5.5	0.6	1.8	2.7	(k)	31.8	3.4	57.4	—	65.1	49.4	114.5
1975	—	8.1	8.1	12.4	96.8	6.9	0.6	2.8	1.8	(l)	24.7	8.4	56.8	—	68.5	46.2	114.7
1976	—	0.1	0.1	11.1	16.5	6.2	0.9	3.6	1.9	(m)	32.2	7.9	69.4	—	80.5	60.6	131.1
1977	—	0.1	0.1	28.8	19.2	8.1	0.9	4.4	2.6	(n)	37.7	9.5	82.4	—	109.2	65.9	165.1
1978	—	0.1	0.1	19.0	19.0	8.5	0.9	3.8	3.1	(o)	27.5	11.1	73.9	—	86.9	59.4	148.3
1979	—	0.1	0.1	15.6	17.4	8.6	1.2	2.4	4.3	(p)	16.8	15.8	87.3	—	82.0	88.0	152.0
1980	—	0.2	0.2	29.1	26.7	13.8	1.1	2.8	6.4	(q)	17.4	22.0	87.2	—	116.5	87.9	198.3
1981	—	0.1	0.1	27.8	35.8	13.6	0.3	3.8	6.5	(r)	23.0	8.1	90.2	—	117.9	106.2	224.1
1982	—	—	—	30.5	32.1	13.4	—	3.9	6.7	(s)	17.8	6.4	78.2	—	106.7	81.2	199.9
1983	—	—	—	31.3	34.0	14.0	(a)	3.6	6.8	(t)	12.8	4.6	77.0	—	108.4	89.0	207.3
1984	—	0.1	0.1	31.4	41.0	15.9	(b)	2.9	6.5	(u)	21.6	4.2	91.7	—	123.1	107.1	230.2
1985	—	0.2	0.2	27.2	182.3	18.2	(c)	8.5	8.8	(v)	30.3	4.1	168.6	—	168.2	97.3	265.5
1986	—	1.2	1.2	18.8	47.7	7.9	(d)	10.8	5.2	(w)	20.9	4.0	97.8	—	118.9	94.6	213.5
1987	—	0.1	0.1	23.5	41.7	15.8	(e)	12.3	4.9	(x)	18.0	4.4	98.4	—	122.0	101.6	223.6
1988	—	10.8	10.8	21.5	38.6	7.3	(f)	9.3	5.3	(y)	11.3	3.5	77.3	—	109.6	96.0	207.6
1989	—	1.6	1.6	23.9	33.7	9.7	(g)	6.1	5.4	(z)	9.6	3.1	68.4	—	94.8	102.0	195.7
1990	—	(h)	(h)	29.3	38.3	10.3	(i)	6.1	5.6	(aa)	8.7	3.0	73.4	0.8	97.2	113.0	210.2
1991	—	—	—	145.1	9.3	6.0	(j)	5.3	5.9	(ab)	7.0	0.6	58.8	0.6	54.4	129.0	310.4
1992	—	—	—	223.3	27.7	8.7	(k)	4.6	6.8	(ac)	7.8	0.5	69.3	0.5	69.3	125.0	408.1
1993	—	—	—	236.2	17.9	8.7	(l)	4.7	6.8	(ad)	10.7	0.5	63.0	0.5	63.7	122.0	416.7
1994	—	—	—	181.3	30.5	9.1	(m)	3.6	7.2	(ae)	8.4	2.1	63.5	0.5	65.5	122.0	367.4

^a Liquefied petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of liquids beginning in 1990.^e Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

^f Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 249. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Rhode Island

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Diesel Fuel	Jet Fuel	LPG *	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	—	—	2.17	1.38	8.75	1.28	5.08	2.90	8.45	2.17	2.17	—	2.17
1971	—	—	2.21	1.49	8.79	1.29	5.27	2.95	8.62	2.21	2.21	—	2.21
1972	—	—	2.19	1.50	8.78	1.32	5.58	2.88	8.62	2.29	2.29	—	2.29
1973	—	—	2.36	1.64	8.93	1.29	5.33	3.08	8.65	2.61	2.61	—	2.61
1974	—	—	3.23	2.73	1.61	2.16	7.22	4.21	1.79	3.82	3.82	—	3.82
1975	2.88	—	3.45	2.98	2.89	2.88	7.48	4.58	1.71	4.19	4.19	—	4.19
1976	1.82	—	3.58	3.10	2.29	3.00	7.05	4.89	1.72	4.40	4.40	—	4.40
1977	—	—	3.97	3.61	2.84	3.29	6.97	4.97	1.91	4.78	4.78	—	4.78
1978	—	—	4.29	3.79	2.97	3.46	7.80	5.10	1.84	4.93	4.93	—	4.93
1979	—	—	5.73	5.34	3.98	3.67	10.21	6.96	2.88	6.71	6.71	—	6.71
1980	—	—	8.62	7.41	6.81	5.39	14.36	8.72	3.39	9.48	9.48	—	9.48
1981	—	—	10.84	8.93	7.60	8.20	18.00	10.79	4.14	10.58	10.58	—	10.58
1982	—	—	10.92	8.71	7.51	8.44	17.25	10.12	4.20	9.95	9.95	—	9.95
1983	—	—	10.44	8.91	6.91	8.85	16.88	9.46	—	9.37	9.37	—	9.37
1984	—	—	10.27	8.70	8.48	8.20	17.63	8.85	—	8.78	8.78	—	8.78
1985	—	—	9.98	8.88	6.19	12.83	17.61	9.18	—	8.83	8.83	—	8.83
1986	—	—	9.41	7.98	4.26	11.25	15.50	7.38	2.80	7.98	7.98	—	7.98
1987	—	—	7.58	6.58	4.15	11.14	12.70	7.86	2.83	7.57	7.57	—	7.57
1988	—	—	7.41	7.38	4.04	10.88	14.61	8.40	2.08	7.87	7.87	—	7.87
1989	—	—	5.28	7.81	4.75	10.22	14.48	9.11	2.80	6.60	6.60	—	6.60
1990	—	3.77	6.32	5.93	6.83	10.88	14.88	10.88	3.42	8.72	8.72	—	8.72
1991	—	3.67	8.71	9.39	5.23	11.34	18.79	10.08	2.16	9.71	9.71	—	9.71
1992	—	3.81	8.54	8.91	4.79	9.88	19.43	9.83	1.86	8.45	8.45	—	8.45
1993	—	6.89	9.24	9.00	4.49	10.02	19.94	9.57	2.98	9.28	9.28	—	9.28
1994	—	6.89	7.96	8.85	4.28	5.08	19.18	9.85	2.45	8.48	8.48	—	8.48
Expenditures in Billion Nominal Dollars													
1970	—	—	1.6	4.8	8.8	0.1	2.8	121.4	6.5	137.4	137.4	—	137.4
1971	—	—	1.8	6.5	8.6	0.2	2.1	126.8	11.3	149.0	149.0	—	149.0
1972	—	—	2.0	8.0	8.8	0.2	2.3	129.2	5.7	149.7	149.7	—	149.7
1973	—	—	2.6	7.9	8.9	0.2	2.2	136.0	5.3	157.2	157.2	—	157.2
1974	—	—	2.3	14.8	1.5	0.3	2.9	192.1	9.3	223.1	223.1	—	223.1
1975	(8)	—	5.8	13.3	3.3	0.3	2.8	210.8	3.5	236.7	236.7	—	236.7
1976	(8)	—	4.1	14.7	3.1	0.4	2.7	215.8	2.8	243.4	243.4	—	243.4
1977	—	—	3.2	14.4	3.1	0.4	3.0	239.4	1.4	284.9	284.9	—	284.9
1978	—	—	4.3	12.9	4.3	0.6	3.5	262.4	0.8	288.9	288.9	—	288.9
1979	—	—	7.0	13.4	7.0	0.2	4.9	325.8	2.3	364.8	364.8	—	364.8
1980	—	—	12.2	28.2	12.8	0.2	6.1	427.1	1.2	486.7	486.7	—	486.7
1981	—	—	1.2	38.2	15.3	0.2	7.3	479.7	1.3	539.2	539.2	—	539.2
1982	—	—	1.5	37.2	11.9	0.4	6.4	444.0	0.5	501.9	501.9	—	501.9
1983	—	—	1.2	44.2	12.8	0.4	6.8	410.4	—	475.7	475.7	—	475.7
1984	—	—	1.1	47.8	12.8	0.7	7.3	388.3	—	474.0	474.0	—	474.0
1985	—	—	1.3	46.9	17.1	1.8	6.8	412.7	—	485.9	485.9	—	485.9
1986	—	—	1.5	50.0	9.3	0.7	5.9	392.8	0.1	410.3	410.3	—	410.3
1987	—	—	1.6	58.7	12.5	0.8	5.4	378.4	2.7	457.8	457.8	—	457.8
1988	—	—	1.7	52.0	14.5	0.8	6.0	406.8	3.8	465.5	465.5	—	465.5
1989	—	—	1.9	72.7	19.4	0.7	6.1	420.6	1.1	522.7	522.7	—	522.7
1990	—	(8)	2.8	68.9	28.4	0.8	8.3	488.3	8.7	588.3	588.3	—	588.3
1991	—	(8)	1.3	74.0	19.4	0.6	6.5	484.5	0.1	558.5	558.5	—	558.5
1992	—	(8)	1.3	68.0	15.1	0.5	7.7	449.0	0.7	533.2	533.2	—	533.2
1993	—	(8)	0.3	65.2	13.4	0.3	7.6	443.4	0.4	530.7	530.7	—	530.7
1994	—	(8)	0.4	65.1	12.6	0.5	8.1	444.4	0.2	532.1	532.1	—	532.1

* Liquefied petroleum gases.

R-Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(p)-Value less than 0.05 billion nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 250. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Rhode Island

Year	Coal	Natural Gas	Petroleum			Nuclear Fuel	Baskets	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke			
Prices in Nominal Dollars per Million Btu								
1970	—	0.39	0.44	0.49	—	—	—	0.44
1971	—	0.40	0.60	0.78	—	—	—	0.66
1972	—	0.40	0.66	0.76	—	—	—	0.66
1973	—	0.57	0.71	1.27	—	—	—	0.72
1974	1.34	0.66	1.03	2.12	—	—	—	1.03
1975	—	1.16	1.84	2.00	—	—	—	1.84
1976	—	1.37	1.84	2.40	—	—	—	1.95
1977	—	—	2.07	2.68	—	—	—	2.07
1978	—	—	2.04	2.75	—	—	—	2.05
1979	—	2.47	3.19	4.23	—	—	—	3.21
1980	—	3.32	3.97	6.09	—	—	—	4.90
1981	—	3.27	4.79	7.55	—	—	—	4.82
1982	—	3.86	4.60	7.17	—	—	—	4.85
1983	—	3.75	4.35	6.32	—	—	—	4.40
1984	—	3.91	4.65	6.17	—	—	—	4.70
1985	—	3.37	4.63	5.63	—	—	—	4.98
1986	—	—	2.37	3.55	—	—	—	2.39
1987	—	2.32	2.69	3.39	—	—	—	2.70
1988	—	2.09	2.25	3.71	—	—	—	2.26
1989	—	2.41	2.70	4.23	—	—	—	2.77
1990	—	2.17	3.69	5.53	—	—	—	3.64
1991	—	1.98	2.41	4.70	—	—	—	2.70
1992	—	2.13	1.65	4.43	—	—	—	2.17
1993	—	2.55	3.20	4.11	—	—	—	3.41
1994	—	2.23	2.64	3.66	—	—	—	2.79

Year	Expenditures in Million Nominal Dollars					Total	Baskets	Total Energy ^a
	Coal	Natural Gas	Heavy Oil	Light Oil	Petroleum Coke			
1970	—	0.9	8.2	0.2	—	8.4	—	8.3
1971	—	1.4	10.5	0.2	—	10.7	—	12.1
1972	—	0.1	11.1	0.2	—	11.3	—	11.3
1973	—	0.1	11.0	0.3	—	11.3	—	11.4
1974	1.1	1.8	24.5	0.6	—	25.2	—	28.0
1975	—	1.4	17.8	0.3	—	18.1	—	18.1
1976	—	0.9	10.6	0.1	—	11.0	—	11.0
1977	—	—	14.8	0.1	—	15.0	—	15.0
1978	—	—	14.8	0.2	—	15.1	—	15.1
1979	—	4.5	18.1	0.6	—	18.6	—	23.1
1980	—	5.7	40.6	1.0	—	41.4	—	47.8
1981	—	8.7	36.9	0.6	—	37.8	—	46.5
1982	—	3.2	22.7	0.7	—	23.5	—	26.7
1983	—	12.0	19.0	0.7	—	19.7	—	31.7
1984	—	14.7	18.6	0.9	—	19.5	—	34.3
1985	—	8.8	17.9	0.7	—	18.6	—	37.4
1986	—	—	21.7	0.6	—	22.3	—	22.3
1987	—	12.8	13.6	0.5	—	14.1	—	26.8
1988	—	0.4	21.1	0.9	—	22.0	—	28.4
1989	—	8.3	11.5	0.9	—	12.4	—	17.7
1990	—	12.3	7.7	0.6	—	8.2	—	20.4
1991	—	3.3	1.9	0.5	—	2.4	—	5.7
1992	—	1.0	2.0	0.4	—	2.4	—	3.4
1993	—	1.0	1.1	0.4	—	1.5	—	2.5
1994	—	1.2	1.0	0.4	—	1.4	—	2.7

^a There are no direct fuel costs for hydroelectric, geothermal wind, photovoltaic, or solar thermal energy.
 —No consumption.
 (b) Value less than 0.05 million nominal dollars.
 Note: Expenditures totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 251. Energy Price and Expenditure Estimates by Source, 1970-1994, South Carolina

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biofuels	Total ^c			
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																	
1970	—	\$ 47	\$ 47	0.57	1.03	0.73	2.04	2.76	0.42	\$ 1.30	1.89	0.19	—	1.20	0.42	3.86	1.83
1971	—	0.52	0.52	0.63	1.17	0.76	1.97	2.85	0.56	\$ 1.45	2.00	0.19	—	1.25	0.46	4.28	1.97
1972	—	0.50	0.50	0.72	1.16	0.78	2.10	2.93	0.55	\$ 1.52	2.05	0.18	—	1.26	0.43	4.35	2.10
1973	—	0.64	0.64	0.80	1.47	0.90	2.74	3.07	0.57	\$ 1.71	2.16	0.18	—	1.35	0.48	4.66	2.30
1974	—	1.35	1.35	0.95	2.57	1.56	3.34	4.24	1.26	\$ 2.46	3.17	0.17	—	1.94	0.78	6.23	3.30
1975	—	1.26	1.26	1.16	2.86	2.04	3.86	4.35	1.40	\$ 2.84	3.43	0.19	—	1.86	0.66	7.72	3.79
1976	—	1.11	1.11	1.53	2.66	2.17	4.17	4.43	1.63	\$ 3.10	3.56	0.20	—	2.04	0.62	8.16	3.86
1977	—	1.26	1.26	1.97	3.17	2.55	4.16	4.90	1.96	\$ 3.33	3.77	0.27	—	2.31	0.65	9.05	4.32
1978	—	1.43	1.43	2.20	3.43	2.83	4.36	5.01	1.94	\$ 3.62	3.96	0.32	—	2.41	0.90	9.50	4.88
1979	—	1.49	1.49	2.42	4.83	3.95	5.39	7.23	2.30	\$ 4.64	5.56	0.36	—	3.17	1.00	10.25	5.61
1980	—	1.60	1.60	3.07	6.34	6.46	6.77	10.18	3.43	\$ 6.81	8.07	0.44	—	4.69	1.34	11.11	7.25
1981	—	1.82	1.82	3.90	8.41	7.61	7.57	11.33	4.45	\$ 7.96	9.48	0.45	—	4.66	1.31	12.61	8.49
1982	—	1.93	1.93	4.52	8.04	7.16	7.93	10.65	4.06	\$ 7.59	9.20	0.46	—	4.77	1.36	14.53	9.98
1983	—	1.95	1.95	6.12	\$ 7.43	\$ 6.87	8.81	9.26	4.17	\$ 6.96	\$ 6.18	0.50	—	4.06	1.08	15.13	9.88
1984	—	1.95	1.95	5.32	\$ 7.60	\$ 6.62	9.05	8.63	4.94	\$ 7.19	\$ 6.00	0.51	—	4.20	1.20	15.15	9.86
1985	—	1.89	1.89	6.98	\$ 7.11	\$ 6.11	9.87	8.94	4.39	\$ 7.21	\$ 7.08	0.52	—	3.99	1.11	15.99	\$ 9.88
1986	—	1.82	1.82	4.40	\$ 5.71	4.23	9.78	8.40	2.60	\$ 6.27	\$ 6.97	0.51	—	2.99	1.05	15.25	\$ 7.85
1987	—	1.74	1.74	4.60	\$ 5.91	4.35	9.31	7.08	2.93	\$ 6.81	\$ 6.27	0.54	—	3.00	1.03	15.41	\$ 7.10
1988	—	1.75	1.75	4.25	\$ 5.72	4.19	10.16	7.08	2.30	\$ 4.42	6.12	0.59	—	2.91	1.00	16.40	\$ 7.95
1989	—	1.71	1.71	4.22	\$ 5.21	4.74	9.26	7.84	2.70	\$ 4.92	\$ 6.55	0.58	—	3.17	0.99	16.53	\$ 6.40
1990	—	1.73	1.73	4.01	\$ 7.70	6.07	10.38	8.80	3.11	\$ 5.22	\$ 7.85	0.53	\$ 1.81	\$ 3.41	0.94	\$ 6.36	\$ 6.67
1991	—	1.64	1.64	3.65	\$ 7.26	5.12	10.82	8.56	2.42	\$ 5.28	\$ 7.82	0.52	1.80	\$ 3.29	0.90	16.50	\$ 6.62
1992	—	1.67	1.67	3.95	\$ 6.85	4.82	9.35	8.25	2.50	\$ 4.76	\$ 7.17	0.50	1.61	3.13	0.84	16.21	\$ 6.20
1993	—	1.60	1.60	4.19	\$ 6.83	4.49	9.20	\$ 7.94	2.25	\$ 4.60	\$ 6.89	0.50	1.63	\$ 3.05	0.85	16.83	\$ 6.27
1994	—	1.60	1.60	4.22	8.31	4.19	8.55	8.03	2.35	4.73	7.06	0.53	1.61	3.16	0.91	16.63	8.41
Expenditures in Million Nominal Dollars																	
1970	—	65.3	65.3	81.4	59.7	12.4	22.6	418.3	14.2	\$ 48.0	589.7	(n)	—	726.8	95.0	254.7	988.2
1971	—	78.5	78.5	109.0	81.7	13.4	22.6	457.1	19.7	\$ 58.4	630.9	4.9	—	814.1	95.2	341.8	1,070.4
1972	—	85.8	85.8	104.0	85.7	12.8	25.8	504.9	22.1	\$ 64.1	687.5	9.3	—	887.9	96.7	404.6	1,193.7
1973	—	91.0	91.0	122.9	91.7	13.8	34.7	557.2	34.0	\$ 68.9	790.1	12.3	—	1,016.3	115.1	477.0	1,378.1
1974	—	209.0	209.0	125.3	143.8	23.5	30.8	788.1	79.8	\$ 93.6	1,132.9	20.4	—	1,496.5	233.6	628.7	1,883.5
1975	—	174.7	174.7	143.3	190.7	28.5	42.3	883.3	87.5	\$ 97.4	1,166.8	49.8	—	1,525.4	265.4	782.6	2,102.7
1976	—	189.9	189.9	227.1	174.9	30.0	55.5	910.5	119.4	\$ 108.8	1,401.2	40.1	—	1,558.3	228.4	900.6	2,532.8
1977	—	242.1	242.1	272.7	242.5	37.7	57.3	983.5	161.6	\$ 130.0	1,612.6	49.3	—	2,176.7	323.8	1,063.3	2,916.2
1978	—	275.1	275.1	257.6	222.2	49.8	60.0	1,052.9	161.0	\$ 144.8	1,694.7	87.6	—	2,286.1	376.2	1,155.9	3,064.6
1979	—	307.9	307.9	310.8	321.4	62.9	58.9	1,438.9	172.0	\$ 194.3	2,248.5	71.7	—	2,936.7	384.1	1,247.7	3,790.3
1980	—	392.2	392.2	441.2	424.9	187.1	67.4	1,886.8	185.3	\$ 248.4	3,927.1	83.4	—	3,954.0	487.6	1,412.5	4,796.9
1981	—	496.0	496.0	652.6	481.2	116.2	77.9	2,116.4	148.7	\$ 343.7	3,889.2	85.5	—	4,413.5	552.4	1,725.9	5,586.0
1982	—	524.5	524.5	443.1	444.1	106.5	74.7	1,862.8	79.9	\$ 254.9	2,843.0	70.3	—	3,980.9	493.0	1,996.1	5,494.0
1983	—	455.2	455.2	520.1	\$ 456.7	\$ 84.1	81.5	1,746.8	103.2	\$ 251.0	\$ 2,733.1	140.6	—	\$ 3,646.0	482.9	2,186.7	\$ 5,512.8
1984	—	476.7	476.7	577.4	\$ 509.5	\$ 110.1	82.1	1,723.4	155.8	\$ 225.6	\$ 2,806.6	152.5	—	\$ 4,013.2	526.3	2,337.2	\$ 6,825.1
1985	—	483.6	483.6	493.6	\$ 485.7	188.3	112.4	1,781.7	80.8	\$ 276.9	\$ 2,811.9	214.6	—	\$ 4,015.3	681.3	2,623.7	\$ 6,937.7
1986	—	480.7	480.7	435.6	\$ 388.8	72.7	102.6	1,321.6	37.8	\$ 233.5	\$ 2,156.9	233.9	—	\$ 3,307.0	586.7	2,741.1	\$ 6,444.4
1987	—	513.0	513.0	488.0	\$ 408.2	75.4	110.0	1,448.6	45.3	\$ 233.8	\$ 2,321.4	269.0	—	\$ 3,891.6	670.6	2,809.0	\$ 6,830.0
1988	—	526.9	526.9	479.3	\$ 419.7	73.4	131.2	1,393.6	47.3	\$ 258.3	\$ 2,321.5	257.5	—	\$ 3,686.2	677.1	2,955.0	\$ 6,865.1
1989	—	514.1	514.1	485.2	\$ 451.9	80.3	125.0	1,754.5	46.5	\$ 248.4	\$ 2,707.0	251.7	—	\$ 3,868.0	672.7	3,036.0	\$ 6,933.9
1990	—	489.9	489.9	525.9	\$ 581.9	97.4	100.3	1,987.5	47.9	\$ 252.5	\$ 3,186.6	242.5	\$ 36.2	\$ 4,458.4	688.3	3,113.8	\$ 6,806.5
1991	—	478.2	478.2	492.9	\$ 646.6	85.8	141.0	1,912.1	37.0	\$ 292.2	\$ 3,124.6	240.5	40.5	\$ 4,376.6	640.7	3,212.0	\$ 6,847.8
1992	—	451.3	451.3	549.8	\$ 648.2	68.0	121.8	1,869.9	37.7	\$ 292.1	\$ 2,927.7	241.2	41.0	\$ 4,211.0	603.7	3,230.0	\$ 6,837.3
1993	—	528.2	528.2	\$ 596.5	\$ 627.6	49.7	121.5	\$ 1,879.1	53.9	\$ 290.2	\$ 2,911.9	247.1	41.9	\$ 4,327.6	675.1	3,471.0	\$ 7,123.5
1994	—	528.1	528.1	617.7	615.6	33.9	120.3	1,808.5	38.5	283.7	2,980.7	250.0	42.2	4,418.6	683.9	3,510.0	7,244.9

^a Liquid petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

(n)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 252. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, South Carolina

Year	Primary Energy							Electricity	Total Energy ^d	
	Coal	Natural Gas	Petroleum			Biomass ^b	Total ^c			
			Distillate Fuel	Kerosene	LPG ^a					Total
Prices in Nominal Dollars per Million Btu										
1970	1.30	1.32	1.36	1.58	2.46	1.84	—	1.81	6.64	2.88
1971	0.86	1.43	1.37	1.80	2.38	1.66	—	1.65	6.68	3.02
1972	1.22	1.57	1.37	1.82	2.54	1.72	—	1.65	6.50	3.28
1973	1.96	1.81	1.65	1.88	3.85	2.28	—	1.92	6.68	3.86
1974	2.00	1.92	2.54	2.88	4.91	3.03	—	2.48	8.30	4.86
1975	2.47	2.08	2.88	3.10	4.28	3.28	—	2.71	8.60	5.78
1976	2.80	2.24	2.83	3.31	5.31	3.86	—	2.88	18.44	6.83
1977	3.00	2.81	3.28	3.75	5.22	3.91	—	3.89	11.42	8.90
1978	3.04	2.91	3.52	4.01	6.14	4.18	—	3.43	11.85	7.08
1979	3.01	3.45	4.84	5.44	7.10	6.42	—	4.53	12.87	8.51
1980	3.19	4.86	6.95	8.37	7.47	7.69	—	5.78	13.68	9.79
1981	3.86	4.79	8.88	10.41	9.07	8.12	—	6.75	15.75	11.83
1982	3.88	5.35	8.57	10.59	9.57	8.59	—	6.85	17.81	13.15
1983	3.67	6.21	7.54	9.27	10.02	8.77	—	7.19	18.57	13.87
1984	3.68	6.46	7.81	8.86	10.43	8.88	—	7.48	19.28	14.28
1985	3.48	6.44	7.88	8.35	9.73	8.88	—	7.44	28.54	14.88
1986	3.31	6.35	8.06	7.54	10.08	8.14	—	7.06	20.88	15.28
1987	3.28	6.41	8.29	6.87	7.93	6.38	—	6.32	21.08	14.88
1988	3.25	6.56	6.81	6.88	10.82	7.90	—	7.12	20.88	15.05
1989	3.34	6.58	5.80	6.77	10.02	7.82	—	7.09	21.08	15.21
1990	3.34	6.87	7.57	8.88	10.87	8.84	d\$9.53	d\$7.51	28.56	d\$15.28
1991	3.15	6.80	7.66	8.10	11.08	8.85	3.53	\$7.43	21.17	\$15.10
1992	3.11	6.84	5.87	6.72	4.87	7.84	3.53	\$6.82	21.06	\$14.81
1993	3.28	6.84	5.80	6.77	4.78	7.48	3.53	\$6.78	21.48	\$14.93
1994	3.23	7.42	6.18	7.48	9.07	7.94	3.53	7.20	21.87	15.51
Expenditures in Million Nominal Dollars										
1970	2.3	26.8	18.2	18.8	18.5	82.8	—	36.7	141.3	322.8
1971	1.8	28.8	17.8	22.8	15.7	85.8	—	36.6	182.8	248.2
1972	2.1	33.3	19.8	17.4	18.7	88.8	—	31.3	182.7	273.9
1973	2.3	37.6	22.0	17.6	28.9	108.8	—	108.5	212.1	317.6
1974	4.0	48.2	29.3	17.3	34.1	70.7	—	114.9	264.9	379.8
1975	4.9	38.8	26.6	18.4	27.9	88.8	—	113.8	322.3	435.8
1976	3.5	78.1	39.7	18.0	38.0	95.6	—	175.3	308.0	544.3
1977	3.0	91.6	45.3	17.9	37.4	100.8	—	185.2	440.8	638.8
1978	1.1	84.8	41.2	18.9	35.1	83.2	—	178.1	473.7	682.8
1979	1.2	81.9	53.5	38.0	38.0	121.5	—	184.8	483.6	678.1
1980	5.4	78.1	84.0	58.8	41.5	181.7	—	248.2	887.8	833.4
1981	3.4	93.0	72.1	32.6	51.8	188.3	—	352.6	701.2	964.0
1982	3.7	98.8	55.2	31.0	46.1	131.3	—	231.8	411.0	1,042.7
1983	5.5	118.6	51.6	28.6	68.2	134.3	—	288.4	894.5	1,153.9
1984	3.7	127.5	54.3	18.8	58.2	132.5	—	283.7	954.3	1,216.8
1985	2.8	108.7	48.3	38.6	48.1	178.0	—	288.8	1,047.8	1,388.3
1986	6.3	114.1	45.8	42.9	62.7	181.2	—	271.8	1,140.0	1,428.8
1987	3.4	133.1	43.2	38.7	57.1	140.0	—	276.5	1,213.8	1,480.3
1988	3.6	138.9	38.2	58.1	78.4	185.7	—	308.2	1,224.0	1,535.2
1989	0.5	137.8	44.1	45.5	77.1	188.7	—	304.8	1,266.0	1,580.9
1990	8.2	151.8	48.5	37.1	84.5	188.1	d\$18.3	d\$278.9	1,388.9	d\$1,988.8
1991	0.6	138.9	41.1	33.6	78.3	182.0	11.3	\$301.7	1,351.0	\$1,652.7
1992	0.8	157.4	23.6	18.8	68.8	188.4	11.9	\$278.8	1,381.0	\$1,838.8
1993	3.3	173.8	23.6	24.8	87.2	120.8	13.0	\$10.7	1,516.0	\$1,988.7
1994	1.8	178.7	23.8	34.8	72.0	110.7	12.7	304.9	1,482.0	1,786.9

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

Full-year data.

—No consumption.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 253. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, South Carolina

Year	Primary Energy									Electricity	Total Energy ^b
	Coal	Natural Gas	Petroleum					Total	Total		
			Crude Oil Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.58	0.98	1.01	0.63	1.38	2.75	0.48	1.26	4.93	4.88	2.35
1971	0.56	0.98	1.05	0.64	1.46	2.65	0.67	1.30	5.18	5.18	2.58
1972	0.57	0.98	1.05	0.64	1.50	2.83	0.72	1.31	5.38	5.38	2.77
1973	0.60	0.99	1.27	0.77	1.58	3.07	0.61	1.44	5.80	5.80	2.92
1974	1.45	1.10	2.13	2.25	2.53	4.24	1.13	2.37	7.23	7.23	3.95
1975	1.89	1.22	2.32	2.28	2.88	4.38	1.18	2.88	7.58	6.55	4.84
1976	1.34	1.45	2.54	2.52	2.80	4.63	1.30	2.57	7.88	6.11	4.29
1977	1.36	2.07	2.80	2.95	3.01	4.80	1.75	2.84	8.21	9.08	5.20
1978	1.62	2.35	3.05	3.19	3.42	5.01	1.88	3.06	8.54	10.45	6.15
1979	1.63	2.74	4.31	3.98	3.78	7.23	2.88	4.20	9.15	11.33	7.38
1980	1.78	3.11	6.33	5.18	4.28	10.18	3.41	4.79	9.57	12.87	7.85
1981	1.88	3.87	7.80	7.41	5.71	11.33	4.35	7.81	10.58	14.22	9.54
1982	1.99	4.87	7.50	7.01	6.89	10.85	4.15	8.02	11.17	15.99	11.43
1983	1.86	5.38	R 6.80	6.82	6.58	9.25	4.32	R 6.94	R 5.48	16.58	R 11.39
1984	1.86	5.71	R 6.94	7.62	6.78	8.83	4.67	R 6.83	R 5.77	17.25	R 11.97
1985	1.77	8.88	R 6.22	R 7.38	10.89	8.84	4.58	R 7.11	R 6.98	18.81	R 12.85
1986	1.77	5.47	R 5.86	R 5.05	9.12	6.40	2.57	R 5.18	R 4.80	18.57	R 12.80
1987	1.70	5.45	R 4.18	R 5.15	6.78	7.08	2.97	R 5.37	R 5.16	18.33	R 12.73
1988	1.67	5.44	R 3.70	R 4.72	6.50	7.08	2.40	R 6.02	R 6.05	18.03	12.51
1989	1.69	5.51	R 4.40	R 5.61	6.27	7.84	2.81	R 6.47	R 5.45	18.25	R 13.25
1990	1.74	3.74	R 5.82	R 6.70	10.88	6.88	3.28	R 7.90	R 8.87	17.83	R 13.93
1991	1.71	5.41	R 4.97	R 6.05	10.80	6.56	2.59	R 6.72	R 6.08	18.15	R 14.04
1992	1.72	5.50	R 4.76	R 5.74	10.04	6.25	2.81	R 6.11	R 5.58	18.00	R 13.70
1993	1.72	5.66	R 4.85	R 5.54	9.91	R 7.94	2.30	R 5.67	R 5.40	18.14	R 13.65
1994	1.78	5.93	4.32	5.24	6.67	8.03	2.36	6.36	5.64	18.88	14.14
Expenditures in Million Nominal Dollars											
1970	1.8	12.3	4.2	4.2	1.6	3.0	0.2	9.2	23.4	70.1	83.6
1971	2.0	14.2	4.0	0.2	1.7	3.1	0.7	9.8	28.0	81.1	107.1
1972	1.8	14.2	4.6	0.2	2.0	3.3	0.8	10.8	26.9	82.5	119.4
1973	2.2	18.3	5.0	0.2	2.0	3.5	0.8	11.8	30.2	108.8	140.0
1974	5.4	16.7	7.3	0.3	2.7	4.8	1.3	16.5	38.7	141.5	180.2
1975	8.7	21.8	8.8	0.3	3.1	5.1	1.2	18.5	43.7	287.8	281.5
1976	3.0	52.0	10.2	0.4	3.7	5.5	3.3	23.1	78.1	234.9	312.9
1977	2.6	67.9	11.9	0.4	3.6	5.9	4.8	28.8	87.3	275.0	372.3
1978	1.1	60.6	10.8	0.4	4.4	6.1	4.6	28.1	87.8	303.5	381.3
1979	1.2	50.0	14.8	0.6	3.5	8.9	6.3	34.1	85.3	320.2	405.5
1980	3.3	73.5	17.8	0.7	4.1	12.6	8.7	38.2	115.8	358.4	473.4
1981	3.1	77.9	19.9	1.2	5.7	15.2	2.8	44.8	124.9	407.9	532.8
1982	3.7	74.9	17.8	1.0	5.2	14.2	0.7	38.7	117.8	489.2	616.4
1983	5.2	91.8	R 31.5	0.9	6.5	14.8	2.0	R 55.8	R 162.5	525.1	R 677.6
1984	3.5	87.5	R 33.0	0.5	6.8	9.7	3.1	R 63.2	R 164.1	541.7	R 685.8
1985	1.9	88.8	R 38.6	R 2.8	11.8	10.7	2.3	R 67.3	R 147.2	608.8	R 748.8
1986	6.3	89.5	R 18.8	1.8	9.8	8.1	0.6	R 35.8	R 131.8	658.4	R 790.0
1987	3.9	96.3	R 21.2	R 1.5	11.1	9.2	0.6	R 43.7	R 143.3	689.1	R 832.5
1988	3.4	97.7	R 23.8	0.7	12.2	8.7	0.7	R 45.6	R 148.7	708.0	R 856.7
1989	0.5	93.4	R 23.7	R 2.2	11.2	8.5	0.7	R 48.3	R 140.1	747.0	R 887.1
1990	6.3	96.8	R 19.5	R 6.5	10.8	11.8	0.4	R 42.8	R 135.8	775.0	R 889.9
1991	0.6	87.8	R 15.1	0.4	13.3	5.4	0.4	R 34.6	R 123.1	805.0	R 928.0
1992	0.9	94.0	R 18.6	R 0.4	13.8	4.5	0.9	R 38.0	R 132.9	808.0	R 940.9
1993	2.9	R 98.5	R 22.5	R 0.6	15.5	1.3	0.4	R 38.3	R 140.3	865.0	R 1,005.3
1994	1.7	109.2	16.4	0.8	12.4	1.3	1.0	31.9	142.7	900.0	1,042.7

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R- Revised data.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 254. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, South Carolina

Year	Primary Energy															Electricity	Total Energy ^d
	Coal			Natural Gas	Petroleum									Total ^c			
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	8.58	8.58	8.45	0.67	8.58	0.63	1.29	8.88	2.75	0.40	1.58	8.88	—	8.87	2.41	8.87
1971	—	0.56	0.56	0.46	0.72	0.59	0.64	1.46	6.27	2.85	0.61	1.61	0.94	—	0.82	2.61	0.97
1972	—	0.57	0.57	0.53	0.77	0.59	0.64	1.60	5.56	2.95	0.45	1.60	0.92	—	0.64	2.72	1.08
1973	—	0.60	0.60	0.63	0.81	0.71	0.77	1.58	5.33	3.07	0.54	1.89	0.97	—	0.75	3.08	1.25
1974	—	1.45	1.45	0.70	1.38	2.06	2.25	2.63	7.22	4.24	1.58	2.68	1.97	—	1.32	4.49	2.03
1975	—	1.53	1.53	1.80	1.78	2.12	2.29	2.69	7.48	4.35	1.62	3.34	2.27	—	1.58	5.80	2.48
1976	—	1.34	1.34	1.27	1.91	2.32	2.52	2.90	7.06	4.63	1.63	3.49	2.32	—	1.75	6.06	2.61
1977	—	1.38	1.38	1.56	1.98	2.70	2.96	3.01	6.97	4.90	2.15	3.75	2.60	—	2.05	6.76	3.00
1978	—	1.62	1.62	1.79	2.20	2.90	3.19	3.62	7.60	5.01	2.01	3.69	2.73	—	2.23	7.20	3.33
1979	—	1.63	1.63	2.43	2.68	3.65	3.96	3.76	10.21	7.23	2.46	5.25	3.43	—	2.72	7.96	3.84
1980	—	1.78	1.78	2.89	3.85	4.82	5.18	4.24	14.38	10.18	3.83	6.70	4.88	—	3.35	8.56	4.48
1981	—	1.88	1.88	3.75	4.65	5.69	7.41	5.71	18.00	11.33	4.79	7.53	6.55	—	4.20	10.03	5.49
1982	—	1.99	1.99	4.25	4.08	6.96	7.01	6.29	17.25	10.65	4.16	6.73	5.67	—	4.06	11.41	5.86
1983	—	1.86	1.86	4.73	4.08	R 6.76	6.92	6.56	16.68	9.28	4.21	6.79	R 5.70	—	4.19	11.58	R 6.12
1984	—	1.86	1.86	4.91	4.53	R 6.90	7.62	6.76	17.63	9.85	4.87	6.17	R 5.91	—	R 4.37	11.50	6.35
1985	—	1.77	1.77	4.57	4.98	R 6.49	R 7.38	10.09	17.61	8.84	4.88	6.83	R 6.30	—	R 4.16	12.82	R 6.41
1986	—	1.77	1.77	3.62	4.15	R 4.43	R 5.05	9.12	15.59	6.40	2.67	3.74	R 4.45	—	R 3.29	12.00	R 5.84
1987	—	1.70	1.70	3.82	3.20	R 4.52	R 5.15	8.78	12.70	7.08	2.97	3.91	R 4.37	—	R 3.33	12.27	R 5.83
1988	—	1.67	1.67	3.34	3.17	R 4.14	R 4.72	9.59	14.61	7.06	2.40	3.35	R 3.64	—	R 3.06	12.42	5.63
1989	—	1.68	1.68	3.37	2.90	R 4.92	R 5.61	8.27	14.48	7.84	2.61	4.23	R 4.49	—	R 3.27	12.48	R 5.86
1990	—	1.74	1.74	3.25	3.00	R 5.88	R 6.78	10.08	14.60	6.80	3.25	4.89	R 5.00	R 1.21	R 3.24	12.24	R 5.57
1991	—	1.71	1.71	2.87	3.06	R 5.31	R 6.05	10.60	18.79	6.58	2.59	R 4.60	R 4.68	1.32	R 3.14	12.20	R 5.51
1992	—	1.72	1.72	3.06	2.27	R 5.03	R 5.74	10.04	19.43	6.25	2.61	R 4.21	R 4.61	1.31	R 3.09	11.92	R 5.35
1993	—	1.72	1.72	3.29	2.99	R 4.86	R 5.54	8.91	18.84	R 7.94	2.30	R 4.06	R 4.18	1.31	R 3.05	11.89	R 5.31
1994	—	1.75	1.75	3.22	2.67	4.69	5.34	7.58	19.18	6.03	2.39	3.91	4.18	1.31	3.01	11.80	5.34

Expenditures in Million Nominal Dollars																	
1970	—	23.8	23.8	38.4	8.9	8.9	1.1	4.1	4.8	4.8	4.0	4.4	41.8	—	100.2	82.3	182.5
1971	—	20.2	20.2	39.9	10.0	8.5	1.8	4.8	4.8	4.3	9.8	7.0	51.0	—	110.4	97.9	208.2
1972	—	17.9	17.9	44.8	11.2	9.8	1.0	5.9	5.4	3.2	10.5	7.8	64.5	—	116.9	129.4	246.3
1973	—	16.9	16.9	55.8	11.8	10.7	0.7	6.3	7.8	4.5	13.7	10.4	68.8	—	136.2	155.1	291.3
1974	—	46.0	46.0	62.4	24.6	25.6	2.2	9.3	9.9	5.3	32.6	16.3	128.9	—	224.6	222.2	446.8
1975	—	43.2	43.2	72.3	28.9	26.2	1.9	18.8	11.3	4.9	30.7	17.5	130.8	—	246.3	252.6	498.9
1976	—	43.4	43.4	95.1	24.7	35.6	3.1	13.8	11.8	4.1	72.7	38.8	204.7	—	343.1	298.9	642.0
1977	—	46.2	46.2	110.0	27.8	50.2	8.1	14.8	11.9	3.8	97.6	50.0	264.3	—	419.5	347.5	767.1
1978	—	55.6	55.6	102.8	31.6	36.2	8.1	18.9	14.0	3.5	82.7	67.4	264.4	—	412.7	278.7	791.4
1979	—	58.0	58.0	168.8	33.7	43.9	3.4	16.7	19.6	4.3	67.4	64.4	303.3	—	549.0	434.0	983.0
1980	—	74.8	74.8	275.2	36.4	50.4	3.7	21.9	24.8	5.1	84.2	132.2	387.8	—	718.1	488.5	1,196.6
1981	—	94.8	94.8	385.9	45.9	70.0	4.1	18.1	29.5	4.3	77.7	194.7	446.4	—	807.2	616.9	1,424.0
1982	—	111.7	111.7	289.4	32.6	56.6	2.1	22.7	25.6	3.0	62.9	131.8	326.7	—	707.8	686.0	1,393.7
1983	—	101.3	101.3	304.8	51.5	R 58.0	4.1	16.6	26.6	1.4	77.1	108.5	R 344.8	—	R 751.0	737.0	R 1,488.1
1984	—	103.7	103.7	350.4	37.3	R 58.8	2.1	12.9	29.5	13.6	121.6	104.0	R 380.1	—	R 834.2	841.2	R 1,675.4
1985	—	111.3	111.3	286.3	45.3	R 64.2	R 64.4	30.3	27.4	32.6	83.1	102.7	R 378.1	—	R 783.7	866.4	R 1,679.2
1986	—	108.6	108.6	229.1	57.4	R 38.5	R 38.6	27.5	23.8	21.3	29.6	75.4	R 278.3	—	R 819.0	833.7	R 1,549.7
1987	—	109.3	109.3	256.8	81.6	R 36.7	R 44.4	39.6	31.9	24.7	34.3	89.9	R 303.0	—	R 869.1	1,009.1	R 1,675.3
1988	—	108.9	108.9	237.3	69.3	R 40.3	R 44.7	39.6	24.3	23.9	37.0	80.1	R 319.3	—	R 865.5	1,022.0	R 1,687.5
1989	—	108.1	108.1	257.9	44.5	R 54.7	R 64.4	34.3	24.7	30.2	35.3	98.2	R 327.2	—	R 890.2	1,035.0	R 1,725.2
1990	—	101.2	101.2	280.5	38.1	R 68.8	R 67.7	30.9	25.6	32.3	89.1	129.2	R 365.7	R 25.4	R 783.1	1,332.5	R 1,818.3
1991	—	95.6	95.6	253.1	39.4	R 65.0	R 67.7	45.7	26.3	30.2	28.1	R 169.5	R 383.0	29.2	R 770.8	1,058.0	R 1,826.8
1992	—	94.2	94.2	295.2	31.1	R 52.2	R 62.3	37.1	31.1	31.0	29.4	R 161.9	R 378.1	29.1	R 794.7	1,061.0	R 1,855.6
1993	—	103.9	103.9	320.1	46.8	R 44.3	R 50.0	37.6	30.9	R 18.1	44.7	R 139.7	R 382.2	28.8	R 915.1	1,090.0	R 1,905.1
1994	—	102.3	102.3	323.7	37.9	38.6	2.3	31.6	32.5	17.5	36.4	140.5	356.6	29.5	791.1	1,116.0	1,909.1

^a Liquidated petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to its expanded coverage of non-electric utility use of broillets beginning in 1990

R-Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 255. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, South Carolina

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.60	—	2.17	1.32	0.73	1.39	5.08	2.75	0.41	2.34	2.34	—	2.34
1971	0.66	—	2.21	1.35	0.76	1.46	5.27	2.85	0.60	2.47	2.47	—	2.47
1972	0.57	—	2.19	1.06	0.76	1.50	6.08	2.93	0.63	2.59	2.59	—	2.59
1973	0.60	—	2.36	1.06	0.90	1.56	5.33	3.07	0.65	2.72	2.72	—	2.72
1974	1.45	—	3.23	2.02	1.56	2.53	7.22	4.24	1.01	3.85	3.85	—	3.85
1975	1.53	—	3.46	3.01	2.03	2.68	7.48	4.36	1.52	4.04	4.04	—	4.04
1976	1.34	—	3.89	3.21	2.17	2.90	7.05	4.63	1.27	4.28	4.28	—	4.28
1977	1.36	—	3.97	3.55	2.35	3.01	6.97	4.90	1.65	4.56	4.56	—	4.56
1978	—	—	4.29	3.75	2.83	3.62	7.60	5.01	1.62	4.69	4.69	—	4.69
1979	—	—	6.73	5.00	3.95	3.76	10.21	7.23	2.36	6.61	6.61	—	6.61
1980	—	—	8.92	7.63	6.44	4.24	14.38	10.18	2.89	8.42	8.42	—	8.42
1981	—	—	10.54	9.03	7.61	5.71	18.00	11.33	3.77	10.60	10.60	—	10.60
1982	—	—	10.92	8.45	7.18	6.29	17.25	10.95	3.72	10.00	10.00	—	10.00
1983	—	—	10.44	7.89	^A 6.87	6.56	16.96	9.26	4.06	^A 8.80	^A 8.80	—	^A 8.80
1984	—	—	10.27	7.96	^A 6.82	6.75	17.63	9.83	5.28	^A 8.50	^A 8.50	—	^A 8.50
1985	—	—	9.96	7.38	6.11	6.08	17.91	8.64	3.63	8.39	8.39	—	8.39
1986	—	—	8.41	6.00	4.23	9.12	15.59	6.40	2.01	6.19	6.19	—	6.19
1987	—	—	7.55	6.46	4.35	8.78	12.70	7.06	2.80	6.77	6.77	—	6.77
1988	—	—	7.41	6.27	4.19	9.59	14.61	7.08	1.98	6.69	6.69	—	6.69
1989	—	—	8.28	6.82	4.74	8.27	14.48	7.84	2.39	7.45	7.45	—	7.45
1990	—	—	8.33	8.17	6.07	10.66	14.60	8.66	2.59	8.48	8.48	—	8.48
1991	—	—	8.71	7.77	5.12	10.60	16.79	8.56	2.06	8.12	8.12	—	8.12
1992	—	—	8.04	7.36	4.82	10.04	19.43	8.25	2.14	7.91	7.91	—	7.91
1993	—	—	8.24	7.17	4.49	9.91	19.94	^A 7.94	2.00	^A 7.65	^A 7.65	—	^A 7.65
1994	—	3.30	7.96	7.26	4.19	7.87	19.18	8.03	2.18	7.60	7.60	—	7.60

Expenditures in Million Nominal Dollars													
1970	(b)	—	2.3	22.3	12.4	6.3	7.3	486.8	4.1	487.8	487.8	—	487.8
1971	(b)	—	2.2	27.2	13.4	6.4	7.7	449.7	5.3	505.9	505.9	—	505.9
1972	(b)	—	2.5	26.9	12.6	6.6	6.7	466.5	4.3	564.1	564.1	—	554.1
1973	(b)	—	2.2	49.2	13.6	6.3	6.3	549.1	4.2	627.2	627.2	—	627.2
1974	(b)	—	2.4	75.8	23.5	6.6	10.8	759.0	5.5	879.6	879.6	—	879.6
1975	(b)	—	2.5	76.5	28.5	6.8	8.7	798.5	4.0	818.4	818.4	—	818.4
1976	(b)	—	3.0	85.1	30.0	1.1	10.1	900.8	5.4	1,035.5	1,035.5	—	1,035.5
1977	(b)	—	2.6	110.2	37.7	1.2	11.0	973.6	4.1	1,140.9	1,140.9	—	1,140.9
1978	—	—	3.5	118.1	43.8	1.6	12.9	1,043.3	6.2	1,229.3	1,229.3	—	1,229.3
1979	—	—	4.6	200.1	62.8	0.7	16.1	1,425.7	11.7	1,723.7	1,723.7	—	1,723.7
1980	—	—	6.8	273.6	107.1	0.5	22.7	1,881.0	15.4	2,307.1	2,307.1	—	2,307.1
1981	—	—	7.3	297.6	116.2	1.5	27.3	2,098.0	25.9	2,578.1	2,578.1	—	2,578.1
1982	—	—	8.6	307.6	106.6	1.7	23.9	1,865.6	19.0	2,431.1	2,431.1	—	2,431.1
1983	—	—	7.0	311.1	^A 94.1	2.2	24.6	1,730.4	23.8	^A 2,193.2	^A 2,193.2	—	^A 2,193.2
1984	—	—	6.3	366.1	^A 110.1	3.4	27.2	1,699.9	30.9	^A 2,235.9	^A 2,235.9	—	^A 2,235.9
1985	—	—	6.9	336.7	108.3	5.1	25.4	1,798.4	14.6	2,202.3	2,202.3	—	2,202.3
1986	—	—	6.6	265.4	72.7	2.5	21.9	1,282.2	7.7	1,689.1	1,689.1	—	1,689.1
1987	—	—	4.8	304.5	75.4	2.2	20.2	1,414.7	10.3	1,832.0	1,832.0	—	1,832.0
1988	—	—	4.7	312.8	73.4	3.0	22.4	1,360.9	9.6	1,766.7	1,766.7	—	1,766.7
1989	—	—	5.0	323.2	60.3	2.7	22.6	1,715.9	10.0	2,160.0	2,160.0	—	2,160.0
1990	—	—	4.6	516.3	97.4	3.2	23.8	1,643.5	8.3	2,697.5	2,697.5	—	2,697.5
1991	—	—	7.9	621.8	95.8	3.7	24.3	1,678.5	10.3	2,540.3	2,540.3	—	2,540.3
1992	—	—	9.7	450.0	66.0	3.2	26.7	1,634.4	7.2	2,401.2	2,401.2	—	2,401.2
1993	—	—	7.0	428.7	49.7	2.9	28.5	^A 1,861.7	8.0	^A 2,366.5	^A 2,366.5	—	^A 2,366.5
1994	—	(b)	4.6	532.4	33.9	4.1	30.2	1,880.0	1.0	2,496.1	2,496.1	—	2,496.1

^a Liquefied petroleum gases.

R=Revised data.

(b)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

Table 255. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, South Carolina

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Hydro	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
	Prices in Nominal Dollars per Million Btu								
1970	0.43	0.37	0.46	0.76	—	0.83	0.19	—	0.42
1971	0.49	0.43	0.80	1.08	—	0.85	0.19	—	0.46
1972	0.47	0.47	0.72	1.13	—	0.87	0.18	—	0.43
1973	0.52	0.52	0.61	1.21	—	0.89	0.18	—	0.45
1974	1.30	0.78	1.13	2.29	—	1.22	0.17	—	0.79
1975	1.14	0.71	1.14	2.41	—	1.17	0.16	—	0.56
1976	1.04	1.01	1.42	2.41	—	1.46	0.20	—	0.62
1977	1.24	1.23	1.73	2.74	—	1.96	0.27	—	0.65
1978	1.36	1.74	1.80	2.63	—	2.01	0.32	—	0.90
1979	1.48	2.17	2.80	3.77	—	2.72	0.36	—	1.00
1980	1.58	2.41	3.44	5.78	—	3.81	0.44	—	1.14
1981	1.50	3.20	4.36	7.37	—	5.64	0.45	—	1.31
1982	1.91	3.94	4.15	6.57	—	6.22	0.46	—	1.39
1983	1.96	4.29	4.31	5.99	—	5.89	0.50	—	1.69
1984	1.97	4.46	—	5.94	—	5.94	0.61	—	1.20
1985	1.91	4.54	3.94	5.73	—	6.73	0.62	—	1.11
1986	1.83	2.03	2.16	3.64	—	3.61	0.61	—	1.08
1987	1.74	3.35	2.93	4.00	—	3.96	0.64	—	1.03
1988	1.76	1.81	2.22	3.74	—	3.72	0.59	—	1.00
1989	1.71	2.22	2.71	4.25	—	4.07	0.58	—	0.99
1990	1.72	1.72	3.82	5.22	—	6.89	0.60	—	0.94
1991	1.63	1.49	2.22	4.75	—	4.54	0.62	—	0.90
1992	1.53	1.69	2.38	4.62	—	4.39	0.50	—	0.94
1993	1.57	2.91	2.19	4.28	—	3.65	0.50	—	0.86
1994	1.56	1.87	2.26	4.10	—	4.03	0.53	—	0.91

Expenditures in Million Nominal Dollars									
1970	39.0	17.1	5.9	2.1	—	9.8	(9)	—	65.8
1971	54.4	17.7	3.8	4.3	—	8.2	4.0	—	88.2
1972	65.4	11.9	6.3	5.9	—	12.2	0.8	—	96.7
1973	69.6	13.5	15.2	4.7	—	19.8	12.3	—	115.1
1974	153.5	16.8	37.1	5.8	—	42.9	20.4	—	253.6
1975	128.9	16.7	31.8	1.7	—	39.3	48.8	—	289.4
1976	139.9	3.0	30.0	4.3	—	42.5	40.1	—	226.4
1977	191.4	3.2	55.1	24.9	—	80.8	48.3	—	328.8
1978	217.3	9.4	67.6	14.2	—	91.7	67.8	—	379.2
1979	246.4	12.1	66.7	9.3	—	95.9	71.7	—	395.1
1980	306.6	13.4	46.9	19.1	—	69.1	83.4	—	467.8
1981	394.6	16.0	43.9	21.0	—	85.5	85.5	—	552.4
1982	405.4	2.1	7.3	7.8	—	15.2	78.3	—	493.0
1983	343.3	4.1	0.2	4.8	—	4.9	148.9	—	492.9
1984	365.9	2.0	—	4.9	—	4.9	182.5	—	525.3
1985	378.4	2.3	(9)	6.1	—	6.1	214.6	—	601.3
1986	359.5	2.9	(9)	2.4	—	2.5	235.0	—	600.7
1987	307.0	1.8	(9)	2.7	—	2.7	269.0	—	679.6
1988	410.9	4.4	(9)	4.2	—	4.2	257.5	—	677.1
1989	405.0	6.1	0.6	6.3	—	6.8	251.7	—	672.7
1990	387.5	12.3	6.2	4.3	—	4.4	242.8	—	696.9
1991	351.4	15.0	0.2	3.7	—	3.8	240.5	—	640.7
1992	355.3	3.1	0.2	3.9	—	4.1	241.2	—	603.7
1993	418.2	5.5	0.6	3.5	—	4.3	247.1	—	673.1
1994	422.3	5.1	0.1	5.4	—	6.5	250.0	—	683.9

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

—No consumption.

(9)—Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 257. Energy Price and Expenditure Estimates by Source, 1970-1994, South Dakota

Year	Primary Energy													Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c	
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Renewables				Total ^d
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residential Fuel	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																	
1970	—	6.41	6.41	6.89	6.97	6.75	1.61	2.97	6.79	1.44	2.85	—	—	1.65	0.41	2.13	
1971	—	6.44	6.44	6.78	1.00	6.79	1.70	2.89	6.79	1.47	2.93	—	—	1.60	0.45	2.17	
1972	—	6.46	6.46	6.77	1.00	6.78	1.65	2.81	6.79	1.54	1.90	—	—	1.60	0.46	2.06	
1973	—	6.42	6.42	6.81	1.29	6.93	2.06	3.09	6.93	1.50	2.36	—	—	1.95	0.44	2.48	
1974	—	6.69	6.69	1.85	2.44	1.02	2.85	4.20	1.88	2.71	3.41	—	—	2.73	0.54	3.33	
1975	—	6.53	6.53	1.84	2.89	2.88	3.85	4.78	2.35	2.99	3.77	—	—	2.72	0.56	3.34	
1976	—	6.69	6.69	1.18	2.81	2.28	3.17	4.89	1.78	2.88	3.97	—	—	2.68	0.58	3.73	
1977	—	6.84	6.84	1.59	3.18	2.69	3.77	5.12	1.97	3.29	4.31	—	—	2.89	0.60	4.09	
1978	—	6.89	6.89	1.98	3.29	2.90	3.83	5.34	2.06	3.32	4.43	—	—	3.15	0.68	4.46	
1979	—	6.89	6.89	2.39	4.88	4.03	4.98	7.44	2.25	4.81	5.92	—	—	4.28	0.72	5.87	
1980	—	6.85	6.85	2.83	6.53	6.47	5.68	10.14	3.38	6.87	6.19	—	—	5.74	0.83	7.77	
1981	—	1.06	1.06	3.58	7.79	7.60	5.72	11.22	3.99	6.36	8.39	—	—	6.54	1.01	8.89	
1982	—	1.25	1.25	4.35	7.44	7.19	6.11	10.72	3.91	7.85	8.69	—	—	8.40	1.20	16.04	
1983	—	1.27	1.27	6.06	6.94	6.98	6.71	9.53	4.03	6.55	8.25	—	—	8.28	1.23	16.99	
1984	—	1.30	1.30	6.53	6.87	6.80	6.50	9.22	4.80	7.12	8.12	—	—	8.14	1.23	17.04	
1985	—	1.37	1.37	6.94	6.78	6.28	7.88	8.38	4.43	6.84	8.68	—	—	8.88	1.22	17.28	
1986	—	1.36	1.36	4.82	5.11	4.57	7.54	8.93	2.33	6.76	8.10	—	—	8.05	1.27	17.35	
1987	—	1.41	1.41	4.27	6.40	4.39	6.41	7.19	2.93	6.40	8.20	—	—	8.44	1.28	17.64	
1988	—	1.37	1.37	4.18	6.01	4.38	6.48	7.49	2.91	6.24	8.21	—	—	8.67	1.25	17.64	
1989	—	1.31	1.31	4.12	6.93	4.78	8.42	6.51	2.45	6.16	7.30	—	—	8.51	1.27	17.71	
1990	—	1.32	1.32	4.41	6.87	6.21	9.36	3.98	2.81	6.35	8.06	2.75	—	8.12	1.19	17.95	
1991	—	1.22	1.22	4.21	6.59	5.98	7.19	6.92	2.39	6.59	7.64	2.89	—	8.51	1.16	17.90	
1992	—	1.21	1.21	4.44	6.84	5.18	7.91	6.65	2.39	6.39	7.45	2.73	—	8.57	1.15	18.23	
1993	—	1.29	1.29	4.69	6.42	4.90	7.98	6.79	2.41	6.25	7.52	2.64	—	8.75	1.13	18.17	
1994	—	1.21	1.21	4.57	6.32	4.59	8.64	6.85	2.24	6.40	7.38	2.61	—	8.59	1.12	18.14	
Expenditure in Million Nominal Dollars																	
1970	—	2.3	2.3	25.2	34.8	4.7	16.3	184.8	1.4	14.8	212.9	—	—	248.6	-4.7	248.6	
1971	—	2.5	2.5	23.9	27.0	6.1	17.1	154.8	1.0	11.6	216.0	—	—	243.1	-4.4	243.1	
1972	—	2.4	2.4	26.2	26.5	4.8	16.4	147.9	1.7	12.6	212.1	—	—	240.9	-5.0	240.9	
1973	—	2.7	2.7	25.3	31.9	5.4	28.1	178.5	1.2	14.7	290.8	—	—	298.8	-4.8	298.8	
1974	—	4.4	4.4	33.5	52.5	9.5	29.5	235.8	1.4	19.9	348.7	—	—	388.6	-5.8	388.6	
1975	—	12.9	12.9	33.7	58.2	11.8	33.2	282.4	2.9	28.5	389.2	—	—	436.9	-18.9	436.9	
1976	—	22.9	22.9	48.1	54.6	12.4	35.4	290.9	3.4	22.6	408.7	—	—	477.8	-20.9	477.8	
1977	—	22.8	22.8	54.1	65.5	15.9	52.3	303.8	3.5	19.5	450.1	—	—	527.1	-19.7	527.1	
1978	—	26.4	26.4	65.7	72.4	21.0	44.9	320.4	3.7	25.0	487.4	—	—	579.5	-24.8	579.5	
1979	—	24.5	24.5	60.3	173.6	29.0	44.9	420.8	3.1	27.9	699.3	—	—	784.1	-25.5	784.1	
1980	—	30.9	30.9	67.7	192.6	46.0	31.3	516.3	2.6	36.1	833.4	—	—	932.1	-28.7	932.1	
1981	—	38.5	38.5	78.3	187.9	46.6	37.1	541.8	4.0	42.5	869.9	—	—	986.7	-32.8	986.7	
1982	—	46.5	46.5	108.3	219.3	44.1	48.3	610.3	1.3	41.1	865.8	—	—	1,020.4	-37.5	1,020.4	
1983	—	59.0	59.0	116.8	180.9	36.1	54.5	448.0	3.4	39.6	791.5	—	—	919.3	-33.5	919.3	
1984	—	44.8	44.8	136.5	188.7	28.5	23.8	436.1	2.6	49.4	746.2	—	—	927.5	-37.6	927.5	
1985	—	47.9	47.9	125.9	197.9	34.6	35.3	461.2	1.8	68.2	799.4	—	—	942.6	-46.2	942.6	
1986	—	38.9	38.9	107.4	180.4	12.9	43.4	323.0	0.9	39.6	899.9	—	—	747.1	-31.5	747.1	
1987	—	20.6	20.6	96.1	185.9	18.0	55.3	338.5	1.0	32.7	628.4	—	—	740.0	-13.7	740.0	
1988	—	43.0	43.0	102.3	181.7	20.6	37.4	358.8	1.2	39.4	639.1	—	—	784.4	-36.5	784.4	
1989	—	42.7	42.7	105.9	189.0	28.3	113.1	407.6	0.9	34.3	770.1	—	—	918.7	-36.0	918.7	
1990	—	38.3	38.3	111.9	224.2	38.9	111.7	481.3	1.0	36.1	851.3	2.7	—	1,384.8	-34.6	1,384.8	
1991	—	44.6	44.6	109.4	221.9	10.8	48.6	427.3	1.0	38.0	743.8	2.9	—	893.9	-36.4	893.9	
1992	—	40.6	40.6	110.2	218.5	35.4	54.6	484.6	2.1	39.1	772.5	3.0	—	926.3	-33.5	926.3	
1993	—	41.2	41.2	131.6	222.7	31.6	74.8	440.9	1.6	35.2	816.7	2.7	—	892.4	-32.7	892.4	
1994	—	47.6	47.6	129.2	287.3	32.3	55.5	457.6	1.3	35.5	848.6	2.8	—	1,019.9	-35.3	1,019.9	

^a Liquefied petroleum gases.
^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum salts (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.
^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
^d There is a discrepancy in this line between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

Adjusted data.
 —No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.
 Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 258. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, South Dakota

Year	Primary Energy								Electricity	Total Energy ^a
	Coal	Natural Gas	Petroleum			Biomass ^b	Total ^c			
			Diesel Fuel	Kerosene	LPQ ^d			Total		
Prices in Nominal Dollars per Million Btu										
1970	1.75	1.84	1.24	1.57	1.78	1.80	—	1.30	7.78	2.41
1971	1.16	1.10	1.36	1.57	1.89	1.70	—	1.38	7.75	2.60
1972	1.18	1.13	1.36	1.61	1.71	1.59	—	1.35	7.84	2.58
1973	1.67	1.19	1.68	1.80	3.31	2.70	—	1.96	7.65	3.22
1974	3.60	1.29	2.51	2.78	3.17	2.94	—	2.09	8.43	3.55
1975	3.87	1.40	2.85	2.91	3.41	3.14	—	2.29	8.97	3.82
1976	3.52	1.50	2.90	3.14	3.69	3.38	—	2.58	9.95	4.03
1977	3.00	1.83	3.20	3.61	4.41	4.16	—	2.77	10.20	4.55
1978	3.29	2.10	3.38	3.83	4.07	3.93	—	2.85	10.98	4.91
1979	3.30	2.62	4.83	5.28	6.10	5.36	—	3.85	11.68	6.18
1980	3.48	3.14	6.92	7.83	6.88	6.89	—	4.84	14.52	7.89
1981	2.89	3.90	6.30	9.59	7.01	7.73	—	5.51	16.41	9.06
1982	4.30	4.71	8.07	9.68	7.38	7.62	—	6.03	17.90	9.85
1983	3.68	5.59	7.36	8.73	7.76	7.58	—	6.39	19.36	10.77
1984	2.18	6.09	7.25	8.90	7.25	7.25	—	6.48	18.74	10.81
1985	2.85	5.68	7.64	9.27	7.58	7.68	—	6.42	18.13	10.89
1986	3.06	5.24	5.45	6.91	6.92	5.98	—	6.55	16.44	9.86
1987	2.97	4.81	4.64	6.83	5.31	4.97	—	4.89	15.93	9.73
1988	2.88	4.81	3.95	4.78	5.84	4.61	—	4.72	16.62	9.70
1989	2.65	4.77	5.35	6.49	10.68	7.95	—	6.28	18.86	10.54
1990	2.82	5.08	5.52	6.70	7.28	6.48	^a 3.58	^d 6.79	20.38	^a 11.96
1991	2.97	4.86	5.13	6.22	6.40	5.70	^a 3.55	^a 6.17	20.25	^a 11.81
1992	2.83	5.07	5.77	7.00	7.88	6.97	^a 3.58	^a 6.70	20.82	^a 12.48
1993	2.44	5.23	5.98	7.26	7.20	6.70	^a 3.58	^a 6.78	20.64	^a 12.32
1994	2.44	5.22	5.53	6.71	6.30	5.99	^a 3.58	^a 5.45	20.68	^a 12.30
Expenditure in Million Nominal Dollars										
1970	9.4	14.3	5.7	6.1	13.5	18.4	—	34.0	42.0	76.8
1971	0.2	13.7	5.4	6.1	14.0	19.5	—	33.4	44.1	77.6
1972	0.2	14.9	6.2	6.1	14.4	20.6	—	35.7	46.3	84.1
1973	0.2	13.4	6.5	6.1	24.7	31.3	—	44.9	49.4	84.2
1974	0.6	14.6	8.7	(6)	21.5	30.3	—	45.7	55.1	100.8
1975	0.8	16.7	8.5	(6)	28.3	39.9	—	51.1	63.3	114.4
1976	0.2	21.8	8.4	2.2	26.7	34.3	—	58.9	72.6	128.9
1977	0.3	25.9	6.2	1.9	30.7	38.8	—	66.1	78.5	142.8
1978	0.2	31.2	6.2	2.2	31.5	38.9	—	71.3	93.4	164.7
1979	0.3	30.9	26.6	0.4	34.6	51.6	—	82.8	105.9	188.7
1980	0.4	33.1	36.7	0.4	28.3	46.5	—	88.9	128.9	222.8
1981	1.0	38.2	38.8	0.6	23.7	58.3	—	97.4	140.2	237.6
1982	0.6	54.6	41.1	1.2	25.3	67.5	—	122.6	159.7	282.3
1983	0.1	59.5	28.0	1.9	31.6	58.9	—	118.5	182.9	301.5
1984	0.1	67.7	27.7	1.5	16.5	44.7	—	112.6	175.9	289.4
1985	0.3	68.9	33.1	1.8	18.1	54.1	—	118.7	188.7	308.4
1986	0.5	85.6	33.0	0.9	21.2	55.1	—	111.2	182.7	299.9
1987	0.1	45.2	23.1	0.5	25.2	48.9	—	94.2	182.3	279.4
1988	0.1	52.5	21.1	0.4	18.6	41.0	—	88.5	185.0	268.5
1989	0.1	55.0	28.1	0.3	85.2	83.8	—	138.7	199.0	337.7
1990	0.7	52.4	26.9	0.2	48.2	71.3	^a 2.0	^a 125.8	199.0	^a 324.8
1991	0.1	55.4	24.0	0.2	24.5	46.7	^a 2.1	^a 106.3	210.0	^a 316.3
1992	(4)	65.6	15.9	0.1	28.7	44.8	^a 2.2	^a 102.8	202.0	^a 304.8
1993	(4)	65.9	20.6	0.2	35.2	56.0	^a 1.9	^a 123.8	219.0	^a 342.8
1994	0.9	63.5	17.3	0.1	29.2	46.7	^a 1.6	^a 112.3	222.0	^a 334.3

^a Liquid petroleum gases^b Commercial sector prices and expenditures for wood and waste are included in the residential sector^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990

R=Revised data

—No consumption

(e) Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 259. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, South Dakota

Year	Primary Energy								Electricity	Total Energy ^b	
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
											Total
Prices in Nominal Dollars per Million Btu											
1970	0.49	0.83	1.86	—	1.13	2.87	0.66	1.22	0.76	7.53	1.94
1971	0.50	0.87	1.09	—	1.18	2.88	0.77	1.26	0.80	7.50	2.09
1972	0.55	0.89	1.09	—	1.18	2.81	0.77	1.22	0.82	7.43	2.10
1973	0.82	0.76	1.33	—	1.25	3.09	0.81	1.43	0.92	7.55	2.33
1974	0.97	1.14	2.27	—	2.23	4.20	1.69	2.43	1.39	8.08	2.77
1975	1.04	0.99	2.34	—	2.29	4.70	2.21	2.54	1.31	8.82	2.71
1976	1.23	1.13	2.56	—	2.44	4.90	1.69	2.66	1.57	9.88	2.89
1977	1.34	1.44	2.83	—	3.03	5.12	1.88	3.10	1.69	9.99	3.01
1978	1.42	1.73	3.06	—	3.37	5.34	2.01	3.40	2.00	10.73	3.67
1979	1.47	2.24	4.54	—	4.07	7.44	2.30	4.63	2.82	11.38	4.73
1980	1.78	2.72	6.45	—	4.38	10.14	3.06	6.24	3.69	13.11	6.99
1981	1.85	3.40	7.80	—	4.32	11.22	4.84	7.37	4.19	15.18	7.10
1982	1.73	4.10	7.46	8.76	5.17	10.72	4.03	7.32	4.78	16.30	7.45
1983	1.92	4.82	R 8.37	8.82	8.87	9.53	4.08	R 8.44	R 5.21	16.40	R 6.23
1984	2.09	5.30	R 8.37	8.99	8.55	9.32	4.60	R 8.58	R 5.62	16.95	R 9.42
1985	2.42	4.56	R 8.83	R 8.95	8.32	8.28	4.44	R 8.98	R 5.02	17.83	R 9.13
1986	1.96	4.32	R 3.68	R 4.30	8.25	8.83	2.33	R 5.34	R 4.51	17.68	R 6.52
1987	1.85	4.17	R 4.25	R 4.81	7.75	7.16	2.84	R 5.47	R 4.58	17.82	R 6.60
1988	1.76	4.02	R 3.90	R 4.41	7.73	7.48	2.85	R 5.16	R 4.33	17.96	R 6.77
1989	1.76	3.82	R 4.44	R 4.99	7.13	8.51	2.15	R 5.01	R 4.44	17.57	R 6.86
1990	1.78	4.13	R 3.44	R 4.15	8.39	9.46	2.81	R 7.36	R 4.93	18.13	R 9.31
1991	1.73	3.87	R 4.83	R 5.46	8.34	8.92	2.33	R 6.13	R 4.37	18.17	R 9.25
1992	1.67	4.13	R 4.63	R 5.41	7.73	8.55	2.28	R 5.94	R 4.46	18.81	R 9.42
1993	1.89	4.31	R 4.48	R 5.25	8.64	8.78	2.41	R 6.15	R 4.64	19.98	R 9.33
1994	1.89	4.31	4.24	5.30	7.75	8.85	2.34	5.48	4.49	19.30	9.70
Expenditures in Million Nominal Dollars											
1970	4.2	7.2	3.8	—	1.6	0.8	6.1	4.2	11.6	34.1	36.7
1971	0.2	7.1	1.7	—	1.5	0.8	(b)	4.1	11.3	25.4	36.7
1972	0.2	7.6	2.0	—	1.8	0.7	0.1	4.8	12.5	27.4	39.6
1973	0.2	8.1	2.2	—	1.6	0.9	0.1	4.8	13.1	28.0	42.1
1974	0.4	13.2	3.1	—	2.7	1.3	0.2	7.8	20.9	31.6	52.7
1975	4.3	11.4	3.1	—	3.0	1.4	0.3	7.8	19.4	26.9	49.4
1976	0.1	12.4	2.9	—	3.1	1.6	0.6	7.6	25.0	33.0	58.0
1977	0.4	21.4	1.9	—	4.0	1.8	0.7	8.2	29.9	33.8	63.6
1978	0.2	23.4	2.2	—	4.6	1.7	0.5	9.1	32.6	41.5	74.1
1979	0.3	22.2	9.9	—	2.9	2.4	0.7	15.9	38.4	44.3	82.7
1980	6.4	33.1	13.7	—	3.3	3.5	0.4	26.9	44.4	51.8	96.3
1981	1.3	27.9	11.4	—	2.6	4.1	0.4	18.5	47.7	62.3	110.1
1982	0.4	38.4	12.4	0.4	3.1	4.3	0.3	20.6	59.3	84.5	123.6
1983	0.1	42.2	R 9.1	(b)	4.1	4.8	1.8	R 19.7	R 61.0	70.9	R 131.8
1984	0.2	48.9	R 8.7	(b)	2.1	6.8	1.2	R 16.8	R 68.0	103.4	R 171.4
1985	0.5	46.0	R 9.8	(b)	3.7	4.8	0.8	R 19.8	R 65.3	111.5	R 178.8
1986	0.6	39.8	R 5.8	(b)	4.3	5.4	0.1	R 13.6	R 66.2	98.7	R 152.9
1987	0.1	34.6	R 10.2	(b)	8.5	4.9	0.1	R 21.8	R 68.4	97.4	R 163.0
1988	0.1	34.4	R 7.6	(b)	4.7	4.8	0.3	R 17.8	R 62.1	106.0	R 166.2
1989	0.1	35.2	R 6.7	(b)	5.6	5.2	0.3	R 17.8	R 63.1	105.1	R 161.2
1990	8.1	35.9	R 8.6	(b)	18.4	3.8	0.4	R 21.2	R 87.2	112.8	R 189.2
1991	0.1	38.3	R 5.4	(b)	5.6	2.6	0.5	R 14.1	R 62.4	119.0	R 171.4
1992	(b)	38.2	R 6.8	(b)	5.0	2.5	0.5	R 14.6	R 62.6	119.0	R 171.5
1993	(b)	R 48.7	R 6.4	(b)	7.6	0.5	(b)	R 14.8	81.3	124.0	R 185.4
1994	0.3	44.7	6.6	(b)	8.4	0.6	0.1	13.5	68.6	143.0	201.6

^a Liquefied petroleum gases^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R=Revised data

—No consumption

(b)=Value less than 0.05 million nominal dollars

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 250. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, South Dakota

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum								Nuclear ^e	Total ^f			
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b			Total		
Prices in Nominal Dollars per Million Btu																	
1970	—	0.48	0.48	0.32	0.75	0.73	0.70	1.18	5.08	2.97	0.79	—	1.28	—	1.38	4.72	1.42
1971	—	0.50	0.50	0.35	0.82	0.72	0.78	1.18	5.27	2.88	0.78	—	1.49	—	1.32	4.92	1.41
1972	—	0.55	0.55	0.38	0.86	0.71	0.77	1.18	5.58	2.81	0.79	—	1.33	—	1.17	5.17	1.27
1973	—	0.62	0.62	0.41	0.91	0.84	1.02	1.25	5.33	3.09	0.97	—	1.89	—	1.61	5.11	1.61
1974	—	0.97	0.97	0.72	1.79	2.33	2.51	2.23	7.22	4.20	1.71	—	2.92	—	2.66	5.57	2.47
1975	—	1.04	1.04	0.80	2.88	2.57	2.74	2.28	7.48	4.70	2.82	—	3.15	—	2.83	6.89	2.85
1976	—	1.23	1.23	0.73	2.08	2.71	2.81	2.44	7.06	4.89	1.80	—	3.24	—	2.47	6.70	2.98
1977	—	1.34	1.34	0.86	2.10	2.82	3.04	3.03	6.97	5.12	2.14	—	3.49	—	2.76	7.02	3.24
1978	—	1.42	1.42	1.00	2.17	3.18	3.44	3.37	7.60	5.34	2.14	—	3.74	—	3.12	7.98	3.58
1979	—	1.47	1.47	2.05	2.57	4.35	4.00	4.07	10.21	7.44	2.27	—	4.80	—	4.47	8.25	4.85
1980	—	1.79	1.79	2.35	3.82	5.45	5.82	4.38	14.36	10.14	3.34	—	6.44	—	5.53	9.78	6.02
1981	—	1.93	1.93	3.02	5.42	5.56	6.83	4.32	18.00	11.22	3.92	—	7.39	—	6.22	10.95	6.82
1982	—	1.73	1.73	3.80	4.45	5.30	6.76	5.17	17.25	10.72	3.86	—	6.90	—	5.89	12.06	6.51
1983	—	1.92	1.92	4.41	4.74	R6.87	6.82	5.67	18.98	9.53	3.08	—	R6.00	—	R6.03	12.79	R6.98
1984	—	2.08	2.08	4.00	4.06	R6.91	6.09	5.65	17.43	9.32	4.60	—	R6.74	—	R6.78	12.40	R6.49
1985	—	2.42	2.42	4.11	5.06	R4.28	R4.65	6.32	17.61	9.28	4.44	—	R6.82	—	R5.61	12.34	R6.34
1986	—	1.98	1.98	3.53	3.98	R4.08	R4.30	6.25	16.58	8.83	2.33	—	R4.98	—	R4.23	12.58	R5.23
1987	—	1.85	1.85	3.04	3.73	R4.84	R4.81	7.76	12.70	7.16	2.94	—	R5.10	—	R4.49	13.41	R5.84
1988	—	1.76	1.76	3.12	3.58	R4.18	R4.41	7.73	14.61	7.48	2.35	—	R4.60	—	R4.11	13.51	R5.37
1989	—	1.76	1.76	3.04	3.14	R4.72	R4.89	7.13	14.48	8.51	2.15	—	R5.42	—	R4.65	13.82	R5.64
1990	—	1.79	1.79	2.73	3.24	R5.81	R6.15	6.36	14.88	8.48	2.81	—	R5.44	1.63	R5.44	13.62	R5.54
1991	—	1.73	1.73	3.25	3.24	R5.17	R5.48	8.34	18.79	8.82	2.23	R16.33	R5.45	1.63	R4.53	13.59	R5.97
1992	—	1.67	1.67	3.58	2.71	R5.11	R5.41	7.73	19.43	8.66	2.28	R24.76	R5.15	1.63	R4.42	13.60	R5.83
1993	—	1.69	1.69	3.71	3.08	R4.98	R5.26	8.84	19.04	R5.78	2.41	R10.10	R5.58	1.63	R4.68	13.49	R5.96
1994	—	1.89	1.89	3.88	3.12	4.81	5.10	6.80	19.18	8.85	2.34	24.75	5.17	1.63	4.25	13.14	5.41

Expenditures in Million Nominal Dollars																
1970	—	(6)	(6)	22	45	8.8	(8)	13	8.4	34.5	8.2	—	587	—	52.8	67.5
1971	—	(5)	(4)	19	53	9.8	(8)	13	9.5	30.9	0.1	—	479	—	48.9	54.4
1972	—	(6)	(6)	24	58	9.7	(8)	20	9.8	20.5	0.3	—	420	—	44.4	49.3
1973	—	(5)	(5)	22	75	10.7	(8)	24	10	30.4	0.3	—	558	—	57.9	63.8
1974	—	9.1	9.1	39	103	21.8	(8)	49	14	43.1	0.5	—	819	—	85.9	82.7
1975	—	1.2	1.2	3.5	11.9	24.5	(8)	46	9.8	48.1	0.7	—	325	—	37.3	149.4
1976	—	3.8	3.9	5.9	9.9	19.1	1.7	6.5	1.0	36.8	1.2	—	78.1	—	88.6	113.2
1977	—	4.3	4.9	6.7	7.8	16.2	1.4	15.1	0.2	38.7	1.6	—	81.1	—	92.1	122.1
1978	—	4.8	4.8	11.1	11.3	26.0	1.9	8.4	0.2	49.4	1.2	—	98.3	—	114.2	144.8
1979	—	1.5	1.5	7.0	13.5	67.6	0.6	16.5	0.2	64.7	1.3	—	144.5	—	172.9	208.8
1980	—	4.4	4.4	11.0	16.1	84.8	0.2	17.8	0.3	78.8	2.8	—	168.5	—	183.9	227.6
1981	—	5.1	5.1	12.1	19.0	80.9	0.4	10.0	0.4	71.6	3.5	—	165.8	—	183.9	230.8
1982	—	9.9	9.9	15.2	18.8	84.5	0.2	19.9	0.3	83.6	0.8	—	168.2	—	193.4	250.0
1983	—	6.9	6.9	18.9	16.8	R60.0	0.3	17.5	0.3	80.0	1.9	—	R162.7	—	R170.5	R237.0
1984	—	9.1	8.1	18.7	26.5	R80.0	0.4	5.8	0.4	44.4	1.4	—	R138.6	—	R166.4	R208.7
1985	—	11.7	11.7	14.8	29.3	R61.1	0.2	11.7	0.3	33.8	0.8	—	R136.8	—	R182.0	R294.9
1986	—	9.2	8.2	11.9	21.6	R62.1	0.3	16.6	0.3	21.3	0.8	—	R120.9	—	R140.9	R197.5
1987	—	7.4	7.4	10.1	16.7	R63.3	0.1	22.2	0.3	23.7	0.8	—	R127.2	—	R144.5	R208.8
1988	—	6.1	6.1	14.8	20.8	R64.6	0.1	12.8	0.3	21.3	0.8	—	R120.7	—	R141.8	R213.6
1989	—	7.8	7.8	15.3	18.2	R68.2	0.2	50.7	0.3	24.2	0.8	—	R149.3	—	R171.4	R247.5
1990	—	6.8	6.8	22.9	17.0	R68.9	0.1	56.4	0.3	24.0	0.8	—	R166.7	0.67	R166.3	R273.3
1991	—	8.7	8.7	15.4	16.5	R70.5	0.1	16.0	0.3	22.7	0.5	R1.6	R126.3	0.6	R153.2	R259.2
1992	—	7.7	7.7	19.3	15.9	R65.0	0.1	20.4	0.4	19.5	1.6	R2.6	R125.5	0.8	R150.3	R253.3
1993	—	9.8	9.8	18.7	13.1	R72.8	(6)	31.0	0.4	R24.9	1.8	R2.2	R148.1	0.8	R175.4	R280.4
1994	—	13.2	13.2	20.5	13.0	79.2	(6)	18.7	0.4	21.5	1.2	2.9	137.0	0.8	171.5	280.5

* Liquid petroleum gases

* "Other" as the "other petroleum products" category described in Appendix A

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

* There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non electric utility use of hydroelectric beginning in 1990

* Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of

Appendix A

* Values less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 261. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, South Dakota

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aircraft Gasoline	Diesel Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.49	—	2.17	1.32	0.75	1.13	5.88	2.97	0.85	2.56	2.56	—	2.56
1971	0.53	—	2.21	1.31	0.79	1.16	5.27	2.88	0.77	2.47	2.47	—	2.47
1972	0.55	—	2.19	1.35	0.75	1.10	5.56	2.81	—	2.34	2.34	—	2.34
1973	0.62	—	2.36	1.65	0.93	1.25	5.35	3.09	—	2.74	2.74	—	2.74
1974	0.97	—	3.23	2.60	1.60	2.23	7.22	4.20	—	3.76	3.76	—	3.76
1975	1.84	—	3.46	2.72	2.08	2.28	7.88	4.70	1.82	4.23	4.23	—	4.23
1976	1.23	—	3.59	2.92	2.26	2.44	7.05	4.88	1.71	4.41	4.41	—	4.41
1977	1.34	—	3.67	3.38	2.69	3.03	8.97	5.12	1.86	4.68	4.68	—	4.68
1978	—	—	4.29	3.52	2.90	3.37	7.60	5.34	1.95	4.84	4.84	—	4.84
1979	—	—	5.73	5.05	4.03	4.07	10.21	7.44	—	5.65	5.65	—	5.65
1980	—	—	9.02	7.12	6.47	4.36	14.38	18.14	—	8.27	8.27	—	8.27
1981	—	—	10.64	8.42	7.80	4.32	18.00	11.22	—	10.43	10.43	—	10.43
1982	—	—	10.92	8.04	7.19	5.17	17.25	10.72	—	9.90	9.90	—	9.90
1983	—	—	10.44	7.09	^R 6.96	5.87	19.56	9.53	—	^R 9.89	^R 9.89	—	^R 9.89
1984	—	—	10.27	7.20	^R 6.90	5.65	17.69	9.32	—	^R 9.73	^R 9.73	—	^R 9.73
1985	—	—	9.99	6.93	6.29	6.32	17.61	9.28	—	8.64	8.64	—	8.64
1986	—	—	8.41	6.38	4.57	6.25	15.58	8.83	—	8.77	8.77	—	8.77
1987	—	—	7.56	6.63	4.39	7.76	12.70	7.18	—	7.02	7.02	—	7.02
1988	—	—	7.41	6.86	4.36	7.73	14.61	7.46	—	7.17	7.17	—	7.17
1989	—	—	8.28	7.44	4.76	7.13	14.48	6.51	2.07	8.05	8.05	—	8.05
1990	—	—	9.32	8.87	6.21	9.38	14.48	9.40	1.82	9.01	9.01	—	9.01
1991	—	4.06	8.71	8.34	5.38	6.54	15.79	6.92	—	8.78	8.78	—	8.78
1992	—	4.02	8.54	8.25	5.16	7.73	18.43	6.68	—	8.35	8.35	—	8.35
1993	—	4.14	8.24	8.01	4.90	6.54	15.94	^R 6.78	—	^R 8.38	^R 8.38	—	^R 8.38
1994	—	3.14	7.95	7.92	4.58	6.58	19.16	6.85	—	8.35	8.35	—	8.35
Expenditures in Million Nominal Dollars													
1970	(a)	—	1.1	7.1	4.7	0.2	4.7	149.3	(a)	137.3	137.2	—	137.2
1971	(a)	—	0.9	8.8	5.1	0.3	4.7	123.2	(a)	144.1	144.1	—	144.1
1972	(a)	—	1.0	8.2	4.8	0.3	5.4	123.7	—	143.3	143.3	—	143.3
1973	(a)	—	0.9	12.4	5.4	0.3	5.2	144.0	—	168.1	168.1	—	168.1
1974	(a)	—	1.4	18.7	9.8	0.4	6.8	191.4	—	228.3	228.3	—	228.3
1975	(a)	—	1.3	21.1	11.9	0.5	8.3	230.8	(a)	282.1	282.1	—	282.1
1976	(a)	—	1.3	26.5	12.4	0.4	6.8	242.6	(a)	289.8	289.8	—	289.8
1977	(a)	—	1.6	31.5	15.6	0.5	6.6	263.2	(a)	319.2	319.2	—	319.2
1978	—	—	1.7	35.4	21.0	0.5	7.7	289.3	(a)	336.5	336.5	—	336.5
1979	—	—	2.4	67.8	29.0	0.9	10.5	353.7	—	464.5	464.5	—	464.5
1980	—	—	4.4	82.6	48.9	1.1	13.6	434.3	—	581.3	581.3	—	581.3
1981	—	—	5.8	99.3	46.6	0.9	16.3	486.0	—	624.8	624.8	—	624.8
1982	—	—	5.8	98.8	44.1	1.0	14.3	442.4	—	607.5	607.5	—	607.5
1983	—	—	9.2	89.4	^R 36.1	1.3	14.7	383.1	—	^R 529.7	^R 529.7	—	^R 529.7
1984	—	—	4.4	101.4	^R 30.5	0.8	16.3	363.9	—	^R 543.0	^R 543.0	—	^R 543.0
1985	—	—	4.4	91.8	34.8	0.7	15.2	412.7	—	569.3	569.3	—	569.3
1986	—	—	3.8	80.6	12.9	0.6	13.1	296.3	—	407.3	407.3	—	407.3
1987	—	—	5.1	88.7	16.0	1.3	12.1	310.0	—	431.0	431.0	—	431.0
1988	—	—	3.9	97.2	20.6	0.5	13.4	333.6	—	466.6	466.6	—	466.6
1989	—	—	3.7	97.2	26.3	0.5	13.6	375.2	(a)	519.5	519.5	—	519.5
1990	—	—	4.4	121.8	38.8	0.8	14.1	413.5	(a)	591.1	591.1	—	591.1
1991	—	(a)	2.7	121.0	10.8	0.4	14.6	402.1	—	551.5	^R 551.5	—	^R 551.5
1992	—	(a)	2.7	123.5	35.4	0.5	17.2	402.8	—	587.1	^R 587.2	—	^R 587.2
1993	—	(a)	2.2	132.0	31.8	0.8	17.0	^R 415.5	—	^R 599.1	^R 599.1	—	^R 599.1
1994	—	(a)	1.9	153.1	32.3	1.2	18.0	436.6	—	642.3	642.3	—	642.3

* Liquefied petroleum gases.

^R—Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)—Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 262. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, South Dakota

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.35	0.33	0.70	0.57	—	0.74	—	—	0.41
1971	0.41	0.35	0.79	1.11	—	0.85	—	—	0.45
1972	0.43	0.36	0.78	1.10	—	0.84	—	—	0.46
1973	0.36	0.40	0.79	1.25	—	0.84	—	—	0.44
1974	0.47	0.47	1.05	2.11	—	1.74	—	—	0.54
1975	0.48	0.64	2.19	2.29	—	2.22	—	—	0.58
1976	0.53	0.66	1.69	2.57	—	1.80	—	—	0.56
1977	0.55	1.20	1.84	3.00	—	2.10	—	—	0.60
1978	0.61	1.54	2.02	3.02	—	2.37	—	—	0.66
1979	0.66	1.30	2.22	4.24	—	3.07	—	—	0.72
1980	0.78	1.87	3.67	6.56	—	6.63	—	—	0.83
1981	0.94	2.29	4.63	7.85	—	7.83	—	—	1.01
1982	1.15	3.70	4.06	6.71	—	6.62	—	—	1.20
1983	1.18	3.85	4.20	5.69	—	5.66	—	—	1.23
1984	1.20	4.18	4.50	6.04	—	5.98	—	—	1.23
1985	1.18	3.73	3.89	5.61	—	5.75	—	—	1.22
1986	1.24	3.49	2.33	3.68	—	3.64	—	—	1.27
1987	1.23	2.43	2.99	4.34	—	4.23	—	—	1.26
1988	1.21	2.25	2.06	4.02	—	3.85	—	—	1.25
1989	1.24	2.58	—	4.50	—	4.50	—	—	1.27
1990	1.15	2.80	—	5.95	—	5.85	—	—	1.18
1991	1.13	1.75	—	4.88	—	4.86	—	—	1.16
1992	1.13	2.83	—	4.40	—	4.40	—	—	1.15
1993	1.10	2.38	—	4.67	—	4.67	—	—	1.13
1994	1.08	2.72	—	3.97	—	3.97	—	—	1.12
Expenditures in Million Nominal Dollars									
1970	1.8	1.8	1.2	0.3	—	1.5	—	—	4.7
1971	2.1	1.2	0.9	0.2	—	1.1	—	—	4.4
1972	2.1	1.3	1.2	0.4	—	1.6	—	—	5.0
1973	2.2	1.6	0.8	0.2	—	1.0	—	—	4.8
1974	3.1	1.7	0.7	0.2	—	1.0	—	—	5.8
1975	11.0	2.1	2.0	0.9	—	2.9	—	—	16.9
1976	17.8	1.1	1.6	0.4	—	2.0	—	—	20.9
1977	17.7	0.2	1.2	0.6	—	1.8	—	—	19.7
1978	21.3	(a)	2.0	1.3	—	3.3	—	—	24.6
1979	22.4	0.2	1.2	1.6	—	2.6	—	—	25.5
1980	26.8	0.6	0.2	2.2	—	2.4	—	—	28.7
1981	30.2	0.1	(a)	2.5	—	2.5	—	—	32.8
1982	35.4	0.1	(a)	2.0	—	2.1	—	—	37.5
1983	32.0	0.2	(a)	1.4	—	1.4	—	—	33.5
1984	36.4	0.2	(a)	0.9	—	0.8	—	—	37.6
1985	34.9	0.1	(a)	1.3	—	1.3	—	—	36.2
1986	30.5	0.1	(a)	0.6	—	0.6	—	—	31.5
1987	12.9	0.2	(a)	0.5	—	0.9	—	—	13.7
1988	36.7	0.5	0.1	1.1	—	1.3	—	—	38.5
1989	34.7	0.3	—	0.9	—	0.9	—	—	36.0
1990	32.8	0.5	—	1.1	—	1.1	—	—	34.4
1991	35.1	0.3	—	1.0	—	1.0	—	—	36.4
1992	32.6	0.1	—	0.5	—	0.6	—	—	33.5
1993	31.4	0.4	—	0.9	—	0.9	—	—	32.7
1994	33.7	0.4	—	1.2	—	1.2	—	—	35.3

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

—No consumption.

(a)—Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 263. Energy Price and Expenditure Estimates by Source, 1970-1994, Tennessee

Year	Primary Energy															Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^d
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biomass	Total ^c				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total							
Prices in Nominal Dollars per Million Btu																		
1970	0.36	0.26	0.26	0.54	1.11	0.73	1.92	2.84	0.36	\$1.13	2.06	—	—	1.02	0.28	2.95	1.71	
1971	0.44	0.35	0.35	0.59	1.10	0.76	1.97	2.84	0.40	\$1.25	2.14	—	—	1.13	0.32	3.38	1.89	
1972	0.57	0.38	0.38	0.65	1.19	0.76	2.08	2.84	0.45	\$1.28	2.13	—	—	1.13	0.36	3.36	1.91	
1973	0.68	0.40	0.40	0.68	1.44	0.90	3.21	3.00	0.67	\$1.35	2.32	—	—	1.18	0.38	3.53	2.04	
1974	1.23	0.67	0.58	0.77	2.48	1.55	3.22	4.06	1.74	\$2.33	3.33	—	—	1.73	0.51	4.27	2.78	
1975	1.80	0.91	0.91	0.93	2.58	2.85	3.44	4.58	1.78	\$2.76	3.76	—	—	2.13	0.89	5.63	3.54	
1976	1.67	0.93	0.93	1.29	2.71	2.18	3.75	4.77	1.89	\$2.93	3.82	—	—	2.21	0.93	6.38	3.81	
1977	1.78	1.05	1.06	1.68	3.03	2.55	4.48	6.13	2.04	\$2.99	4.08	—	—	2.40	1.10	6.61	4.14	
1978	1.89	1.21	1.22	1.77	3.18	2.88	4.26	5.36	2.09	\$3.23	4.28	—	—	2.69	1.26	6.49	4.68	
1979	1.78	1.38	1.38	2.17	4.61	3.90	6.24	7.13	2.46	\$4.46	6.51	—	—	3.44	1.38	9.72	5.70	
1980	1.81	1.54	1.54	2.89	6.80	6.39	8.42	9.89	3.36	\$6.41	8.37	0.38	—	4.43	1.57	10.67	7.30	
1981	2.03	1.71	1.71	3.24	8.10	7.67	7.65	11.13	4.27	\$6.45	9.51	0.42	—	4.97	1.63	12.96	8.54	
1982	2.04	1.73	1.74	4.04	7.92	7.42	7.99	10.40	4.34	\$7.37	9.24	0.40	—	4.67	1.47	15.15	8.86	
1983	1.58	1.69	1.69	4.62	\$6.84	\$6.44	8.04	9.01	4.38	\$7.95	\$8.23	0.50	—	4.25	1.42	14.48	\$8.32	
1984	1.91	1.82	1.82	4.40	\$6.88	\$6.14	8.44	9.72	4.90	\$7.50	\$8.00	0.85	—	\$4.28	1.41	14.11	\$8.12	
1985	1.83	1.85	1.85	4.48	\$6.86	\$6.83	8.97	8.86	4.98	\$7.11	\$7.92	0.79	—	\$4.27	1.41	14.66	\$8.18	
1986	1.75	1.44	1.44	4.20	\$6.88	3.81	8.65	7.01	2.83	\$6.56	\$6.98	—	—	3.69	1.43	15.59	7.52	
1987	1.63	1.36	1.36	3.69	\$6.24	4.01	8.70	7.44	2.88	\$6.01	\$6.67	—	—	3.95	1.36	15.98	7.67	
1988	1.70	1.38	1.38	3.75	\$6.89	3.82	8.91	7.43	2.64	\$4.79	6.58	0.83	—	3.76	1.30	15.19	7.72	
1989	1.74	1.35	1.35	3.87	\$6.81	4.34	9.40	8.26	2.68	\$4.86	7.20	0.89	—	3.87	1.23	15.91	\$8.00	
1990	1.83	1.38	1.38	3.99	\$7.33	5.88	10.98	9.80	3.14	\$6.21	\$8.24	0.84	2.28	\$3.98	1.24	15.59	\$8.46	
1991	1.80	1.28	1.28	3.91	\$7.39	4.82	9.70	9.00	2.34	\$5.37	\$7.88	0.85	2.32	\$3.98	1.15	15.29	\$8.22	
1992	—	1.30	1.30	4.14	\$7.23	4.66	8.47	8.82	2.51	\$5.01	\$7.68	0.84	2.35	4.02	1.20	15.28	\$8.11	
1993	—	1.28	1.28	\$4.48	\$7.20	4.19	9.32	\$8.78	2.67	\$4.99	\$7.58	0.95	2.20	\$4.16	\$1.25	15.33	\$8.10	
1994	—	1.28	1.28	4.66	7.04	3.92	9.42	8.83	2.85	4.91	7.49	1.00	2.11	4.14	1.22	15.35	8.13	
Expenditure in Million Nominal Dollars																		
1970	2.5	108.7	103.1	123.4	78.8	13.6	23.0	625.1	1.1	\$98.4	831.6	—	—	1,896.3	-80.9	884.8	1,462.0	
1971	2.7	125.5	129.2	149.2	79.1	14.3	22.4	665.0	0.4	\$106.0	876.3	—	—	1,145.7	-108.0	584.0	1,633.6	
1972	3.8	164.7	169.0	184.9	99.6	14.7	27.3	731.0	0.8	\$100.6	983.6	—	—	1,257.0	-143.3	636.2	1,788.9	
1973	4.6	206.5	213.1	172.9	133.0	19.3	45.7	825.6	0.6	\$118.7	1,142.8	—	—	1,528.0	-184.0	746.9	2,000.9	
1974	7.6	288.2	273.7	181.3	234.3	33.7	41.4	1,102.2	5.1	\$171.0	1,587.7	—	—	2,042.7	-205.8	898.2	2,736.1	
1975	8.9	482.1	431.8	198.1	272.8	45.1	46.8	1,292.7	4.3	\$207.2	1,870.9	—	—	2,487.7	-376.4	1,367.0	3,468.3	
1976	9.9	515.2	526.0	258.5	347.5	50.5	52.2	1,409.5	86.2	\$241.5	2,127.8	—	—	2,909.3	-492.9	1,578.4	3,994.8	
1977	14.1	571.6	586.7	328.9	426.0	63.1	57.9	1,653.2	32.3	\$283.8	2,416.3	—	—	3,325.9	-563.9	1,736.2	4,511.2	
1978	13.3	676.5	689.8	303.2	504.8	78.3	56.6	1,886.5	18.8	\$315.5	2,858.4	—	—	3,651.5	-563.4	2,088.6	5,074.7	
1979	10.8	729.8	739.6	453.8	649.1	107.6	57.7	2,140.8	33.0	\$318.8	3,404.9	—	—	4,596.3	-644.5	2,413.5	6,367.3	
1980	8.8	883.2	888.2	570.9	759.3	146.8	65.3	2,353.4	29.2	\$388.1	4,366.1	2.1	—	5,826.4	-804.8	2,895.5	7,678.1	
1981	6.2	951.0	970.2	660.0	921.5	150.9	42.0	3,152.2	28.9	\$384.5	4,918.1	21.6	—	6,568.6	-863.9	3,102.4	8,807.3	
1982	6.9	910.3	917.2	787.8	857.2	95.5	65.7	2,979.9	15.3	\$393.8	4,506.4	44.6	—	6,135.9	-736.5	3,383.0	8,748.4	
1983	6.9	919.2	928.2	849.6	\$302.1	\$274.6	68.9	2,548.1	20.0	\$428.2	5,337.7	78.6	—	6,570.0	-944.8	3,390.2	\$8,335.6	
1984	7.4	992.0	999.5	854.9	\$370.0	\$325.9	67.2	2,629.7	12.9	\$491.3	6,172.9	88.7	—	6,816.1	-827.9	3,428.6	\$8,616.6	
1985	6.0	921.3	928.3	813.4	\$33.7	\$68.1	73.1	2,634.2	9.5	\$584.1	6,254.8	81.1	—	6,876.3	-848.9	3,408.7	\$8,641.3	
1986	5.1	867.9	873.1	742.5	\$274.8	\$271.6	83.7	2,221.6	7.1	\$395.5	5,513.9	—	—	5,220.5	-716.0	3,589.5	\$8,073.0	
1987	3.3	819.0	822.3	889.5	\$21.3	\$23.0	82.5	2,480.3	4.4	\$383.5	5,861.2	—	—	5,593.0	-882.9	3,754.3	\$8,464.4	
1988	3.6	818.8	822.4	747.2	\$22.1	\$1.3	100.4	2,318.9	5.5	\$388.3	5,704.4	34.9	—	5,308.9	-718.6	3,975.4	\$8,665.7	
1989	3.6	781.4	785.2	787.5	\$36.8	\$106.6	118.5	2,600.6	5.7	\$419.1	6,146.5	149.2	—	6,958.5	-773.6	4,030.7	\$8,115.7	
1990	3.3	948.6	951.9	804.8	\$138.3	\$131.7	113.3	3,346.3	4.8	\$477.8	6,576.1	126.9	40.1	\$6,889.8	-803.4	4,864.9	\$8,711.1	
1991	0.9	724.2	725.0	829.9	\$74.2	\$2.9	111.6	2,865.2	4.0	\$456.8	6,304.7	151.1	43.7	\$6,604.4	-745.1	4,041.4	\$9,360.7	
1992	—	795.0	795.0	838.5	\$1,012.2	\$115.3	145.5	2,746.7	4.5	\$458.9	6,481.0	158.4	44.2	\$6,365.1	-791.8	\$4,040.6	\$9,630.9	
1993	—	893.2	893.2	\$1,065.2	\$1,005.8	155.5	\$119.2	2,821.4	\$6.1	\$435.7	6,543.7	30.6	37.9	\$6,580.6	-792.1	\$4,115.3	\$9,894.6	
1994	—	798.7	798.7	1,070.5	1,017.3	172.3	119.2	2,917.4	5.4	\$432.2	6,695.6	127.7	38.9	6,729.5	-792.0	4,295.2	10,202.8	

^a Liquefied petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

Appendix A

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 264. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Tennessee

Year	Primary Energy							Electricity	Total Energy ^f	
	Coal	Natural Gas	Petroleum			Biofuels ^d	Total ^e			
			Distillate Fuel	Kerosene	LPG ^a					Total
Prices in Nominal Dollars per Million Btu										
1970	0.74	0.89	1.24	1.62	2.10	1.82	—	1.15	3.34	2.15
1971	0.86	0.95	1.36	1.81	2.05	1.78	—	1.19	3.92	2.49
1972	1.00	1.00	1.97	1.67	2.32	1.97	—	1.25	3.80	2.45
1973	1.03	1.06	1.95	1.60	3.07	2.79	—	1.59	4.10	2.85
1974	1.05	1.13	2.41	3.16	3.51	3.26	—	1.79	5.03	3.42
1975	1.75	1.25	2.49	3.36	3.84	3.56	—	1.99	6.82	4.46
1976	1.75	1.57	2.77	3.48	4.13	3.70	—	2.23	7.26	4.96
1977	1.89	2.03	3.20	3.83	4.98	4.26	—	2.70	7.36	5.38
1978	1.89	2.08	3.36	4.24	4.88	4.34	—	2.77	8.57	6.18
1979	1.51	2.29	4.62	6.61	6.40	5.19	—	3.05	9.73	6.97
1980	1.97	2.88	6.89	8.89	7.85	7.85	—	3.73	10.48	7.79
1981	2.38	3.36	9.54	11.11	9.08	9.01	—	4.64	12.94	9.68
1982	1.75	4.22	8.11	10.96	9.87	9.79	—	5.12	14.47	10.82
1983	1.60	5.14	7.72	8.71	9.04	9.11	—	5.61	14.31	10.05
1984	2.07	4.92	8.12	8.73	9.71	9.02	—	5.65	14.01	10.68
1985	7.85	4.86	6.89	7.89	9.23	7.95	—	5.44	14.28	18.37
1986	1.67	4.81	5.30	6.71	9.96	7.76	—	5.24	15.26	11.63
1987	1.79	4.53	5.25	6.66	9.08	7.55	—	4.99	16.03	11.80
1988	1.52	4.51	5.53	5.95	9.05	7.67	—	5.00	16.74	12.11
1989	1.61	4.88	5.90	9.35	10.25	8.63	—	5.30	16.65	12.11
1990	1.77	4.94	6.59	7.09	11.80	10.19	^d 3.53	^e 11.44	18.88	^f 11.38
1991	1.78	5.02	6.12	6.56	10.57	9.26	3.53	^e 5.40	16.54	^f 11.20
1992	1.61	5.33	6.21	5.61	9.41	8.15	3.53	^e 5.80	16.71	^f 11.16
1993	1.79	5.50	5.30	5.70	9.61	8.51	3.53	^e 5.72	16.67	^f 11.43
1994	1.77	5.94	5.53	5.95	10.71	8.95	3.53	6.17	17.23	12.10
Expenditures in Million Nominal Dollars										
1970	3.3	42.5	1.2	18.6	18.9	98.7	—	84.5	284.2	288.7
1971	4.6	45.9	1.4	18.7	18.0	98.1	—	89.6	243.0	331.6
1972	3.8	55.1	1.7	15.2	22.8	99.7	—	99.5	264.0	362.5
1973	3.3	48.6	2.2	19.7	40.1	81.9	—	114.6	289.7	404.4
1974	6.2	51.0	3.1	27.7	32.5	93.2	—	119.3	339.6	459.9
1975	4.7	56.8	3.4	26.9	39.5	98.1	—	128.7	329.8	489.3
1976	3.6	79.5	6.8	30.5	41.4	75.5	—	162.6	595.4	738.0
1977	3.9	91.2	7.2	32.4	46.5	85.0	—	180.1	695.0	845.1
1978	3.8	86.2	7.5	33.9	40.4	81.8	—	170.3	759.4	929.6
1979	2.3	106.7	10.1	29.0	37.2	78.3	—	185.3	833.1	1,018.5
1980	3.9	128.9	12.4	28.3	42.2	82.8	—	216.8	992.5	1,148.1
1981	2.9	143.4	23.4	58.7	26.3	105.5	—	252.2	1,057.4	1,339.6
1982	2.9	181.6	18.0	33.6	36.7	91.4	—	275.5	1,218.3	1,491.8
1983	6.6	219.6	11.8	40.1	42.2	94.1	—	314.3	1,208.0	1,523.3
1984	5.4	222.0	13.4	43.6	40.5	97.5	—	324.9	1,253.9	1,578.5
1985	2.7	282.0	9.9	29.7	49.2	79.8	—	284.5	1,244.8	1,528.1
1986	1.1	199.9	5.1	10.7	48.5	62.2	—	283.2	1,247.6	1,810.8
1987	1.5	203.5	7.0	14.4	48.7	69.1	—	273.1	1,601.6	1,774.6
1988	2.5	221.7	7.3	21.1	58.0	88.4	—	310.5	1,597.0	1,907.5
1989	3.1	237.6	8.4	22.2	74.7	105.3	—	346.0	1,611.0	1,967.0
1990	3.6	298.8	8.1	13.0	74.0	88.1	^d 28.3	^e 361.7	1,887.0	^f 1,998.7
1991	2.8	254.2	8.6	10.0	74.0	83.5	26.7	^e 379.1	1,871.0	^f 2,050.1
1992	2.2	267.2	7.9	11.5	71.5	90.6	26.1	^e 408.2	1,882.0	^f 2,080.2
1993	1.8	395.2	6.3	10.0	75.3	92.8	21.4	^e 451.0	1,788.0	^f 2,186.1
1994	1.4	351.5	8.7	14.6	62.2	106.8	21.0	460.6	1,829.0	2,406.6

^a Liquefied petroleum gases^b Commercial sector prices and expenditures for wood and waste are included in the residential sector^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990^e Revised data^f No consumption

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 265. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Tennessee

Year	Primary Energy									Electricity	Total Energy ^b
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.35	0.70	1.00	0.78	1.37	2.84	0.42	1.46	0.75	4.97	1.87
1971	0.44	0.75	1.16	0.84	1.36	2.84	0.58	1.51	0.81	5.51	2.09
1972	0.44	0.84	1.17	0.84	1.36	2.84	0.58	1.52	0.89	5.50	2.25
1973	0.46	0.89	1.32	0.94	1.46	3.00	0.70	1.82	0.96	5.80	2.46
1974	1.07	0.90	2.16	2.16	2.50	4.06	1.66	2.66	1.22	6.67	2.94
1975	1.17	1.09	2.29	2.52	2.39	4.89	1.77	2.96	1.36	8.27	3.48
1976	1.01	1.30	2.56	2.47	2.77	4.77	1.76	2.96	1.70	8.67	4.07
1977	1.15	2.01	2.93	2.84	3.31	5.13	2.02	3.41	2.26	9.43	5.22
1978	1.32	1.90	3.07	3.17	3.47	5.38	1.81	3.63	2.33	11.05	6.71
1979	1.35	2.39	4.41	4.05	3.94	7.13	2.24	5.02	2.76	12.36	7.16
1980	1.39	2.86	6.49	5.19	4.86	8.89	3.44	7.06	3.57	13.29	7.87
1981	1.57	3.40	8.05	7.24	6.20	11.13	4.24	8.53	4.35	15.44	9.72
1982	1.58	4.32	7.57	8.35	6.29	10.40	4.08	8.90	4.85	18.77	11.87
1983	1.58	5.04	R 6.40	5.83	6.76	9.01	4.12	R 6.77	R 5.06	18.08	R 9.86
1984	1.59	4.75	R 6.46	5.16	7.04	8.72	4.90	R 6.93	R 5.09	18.56	R 8.81
1985	1.68	4.76	R 6.12	R 7.77	6.88	8.88	4.86	R 6.46	R 5.17	17.05	R 8.84
1986	1.54	4.53	R 3.74	5.30	7.01	2.83	R 4.82	R 4.48		17.96	9.40
1987	1.45	4.50	R 4.27	R 6.58	6.25	7.44	2.86	R 5.21	R 4.31	17.87	R 9.53
1988	1.40	4.25	R 3.96	R 5.14	3.71	7.43	2.62	R 5.21	4.30	18.03	9.50
1989	1.40	4.35	R 4.50	R 5.83	6.23	8.25	2.69	R 6.21	R 4.46	18.03	R 9.55
1990	1.49	4.44	R 5.52	R 7.18	9.36	9.40	3.18	R 7.28	R 4.61	18.02	R 10.86
1991	1.42	4.61	R 4.90	R 6.39	8.34	9.00	2.48	R 6.74	R 4.72	17.90	R 10.53
1992	1.41	4.93	R 4.72	R 6.34	7.73	8.92	2.67	R 6.59	R 4.92	19.35	R 9.17
1993	1.41	5.69	R 4.54	R 6.15	6.84	R 6.78	2.72	R 6.90	R 5.08	R 20.12	R 8.53
1994	1.41	5.39	4.93	5.84	7.76	8.83	2.87	5.07	5.25	19.95	8.96

Expenditures in Million Nominal Dollars											
1970	2.8	30.4	2.8	1.8	2.8	6.9	(a)	12.2	46.6	107.8	153.4
1971	3.9	23.6	2.9	1.9	2.1	5.5	(a)	12.4	50.1	128.9	179.0
1972	2.9	39.2	3.8	1.5	2.4	5.4	(a)	12.9	55.1	141.6	195.7
1973	2.7	41.8	4.7	1.9	2.7	5.8	(a)	15.2	59.8	140.5	220.2
1974	5.5	43.7	8.8	3.7	4.1	6.3	(a)	23.0	72.2	162.7	254.8
1975	6.8	47.8	7.9	3.4	4.3	10.1	(a)	25.7	79.4	218.0	289.4
1976	3.8	54.7	15.2	4.9	4.9	10.4	(a)	34.8	93.4	236.3	332.7
1977	4.1	72.8	16.4	4.7	5.4	11.4	0.1	37.9	114.9	339.4	483.3
1978	4.3	63.1	17.1	5.0	6.3	12.6	(a)	40.1	107.4	515.9	621.2
1979	3.8	106.4	24.0	4.0	4.0	16.0	(a)	48.1	157.4	697.9	745.9
1980	8.1	162.1	36.4	3.6	4.6	34.2	1.0	72.8	249.2	944.8	858.7
1981	3.5	151.3	62.6	3.0	3.1	29.2	2.0	89.7	244.2	812.3	1,056.5
1982	4.6	171.3	49.2	6.3	4.3	26.7	2.6	89.2	265.0	1,007.6	1,272.7
1983	12.1	221.1	R 74.2	7.4	5.6	25.0	3.2	R 115.4	R 345.8	890.0	R 1,236.6
1984	7.7	228.5	R 60.8	8.6	6.2	27.1	2.6	R 124.3	R 356.6	561.8	R 920.1
1985	4.3	213.2	R 109.9	R 7.4	6.7	16.8	2.9	R 142.8	R 380.1	873.3	R 933.3
1986	1.9	189.0	R 90.8	R 2.6	7.6	14.8	2.3	R 90.0	R 256.9	385.9	R 854.8
1987	2.2	191.1	R 28.9	R 4.0	7.5	14.8	1.2	R 56.1	R 249.5	614.9	R 864.4
1988	4.2	200.8	R 24.9	R 7.1	9.8	29.2	1.3	R 63.1	R 268.2	644.9	R 913.1
1989	4.8	213.3	R 17.4	R 6.1	10.6	22.3	0.9	R 56.4	R 274.5	753.0	R 1,027.3
1990	4.8	R 269.9	R 28.8	R 2.8	18.3	22.7	4.7	R 87.9	R 278.8	894.0	R 1,074.8
1991	3.9	216.7	R 17.2	R 1.1	10.9	18.9	0.5	R 49.9	R 271.3	805.0	R 1,078.2
1992	3.5	235.5	R 26.6	R 2.5	10.4	18.2	1.0	R 56.6	R 297.5	487.9	R 785.5
1993	2.5	297.8	R 24.8	R 2.1	12.4	R 9.4	0.6	R 49.2	R 319.2	R 416.9	R 759.2
1994	2.1	282.2	25.4	2.3	10.5	2.3	0.6	41.0	325.3	417.0	742.3

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.
R- Revised data.

(a)-Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 266. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Tennessee

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Biofuels ^c	Total ^c		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	0.38	0.35	0.35	0.38	0.67	0.72	0.79	1.27	5.08	2.84	0.38	0.81	0.86	—	0.84	2.08	0.93
1971	0.44	0.44	0.44	0.44	0.72	0.78	0.84	1.36	6.27	2.84	0.49	0.85	0.96	—	0.81	2.48	1.09
1972	0.57	0.44	0.48	0.49	0.77	0.78	0.84	1.39	5.58	2.84	0.45	0.80	0.96	—	0.84	2.48	1.11
1973	0.68	0.46	0.48	0.49	0.82	0.87	0.84	1.49	5.33	3.00	0.53	0.91	1.05	—	0.86	2.69	1.17
1974	1.23	1.07	1.09	0.60	1.39	2.00	2.16	2.50	7.22	4.08	1.76	1.73	1.98	—	1.12	3.28	1.70
1975	1.69	1.17	1.22	0.73	1.79	2.11	2.32	2.38	7.48	4.88	2.89	2.24	2.28	—	1.38	4.87	2.56
1976	1.67	1.01	1.08	1.14	1.81	2.26	2.47	2.77	7.06	4.77	1.91	2.81	2.39	—	1.65	5.38	2.87
1977	1.78	1.15	1.22	1.45	1.97	2.74	2.84	3.31	6.97	5.13	2.06	2.94	2.58	—	1.92	5.69	3.03
1978	1.89	1.32	1.38	1.57	2.19	2.88	3.17	3.47	7.80	5.35	2.08	3.10	2.86	—	2.09	7.36	3.50
1979	1.75	1.35	1.39	2.04	2.57	3.55	4.85	3.94	10.21	7.13	2.52	4.28	3.78	—	2.58	8.83	4.17
1980	1.81	1.38	1.41	2.54	3.58	5.50	6.16	4.98	14.36	8.88	3.36	6.24	6.51	—	3.36	9.71	5.10
1981	2.03	1.57	1.80	3.10	4.61	6.82	7.24	8.20	18.00	11.13	4.31	9.01	7.09	—	3.95	11.71	5.91
1982	2.04	1.88	1.89	3.97	4.67	7.62	8.35	8.28	17.25	10.40	4.41	7.19	6.70	—	4.14	13.60	6.37
1983	1.58	1.58	1.58	4.21	4.57	8.70	8.83	8.78	16.98	9.01	4.44	7.79	6.76	—	3.96	13.70	6.50
1984	1.91	1.59	1.60	4.01	4.39	8.70	8.16	7.04	17.53	8.72	4.90	7.24	6.60	—	3.86	13.60	6.80
1985	1.82	1.80	1.81	4.13	4.78	8.37	7.77	8.88	17.57	8.85	4.80	6.79	6.58	—	3.80	14.22	6.84
1986	1.75	1.54	1.55	3.77	4.89	8.12	8.51	9.30	15.59	7.01	2.83	4.06	4.90	—	3.35	15.12	6.54
1987	1.63	1.43	1.43	3.05	3.24	8.48	8.56	8.25	12.70	7.44	2.88	4.74	4.70	—	3.05	15.39	6.36
1988	1.70	1.40	1.40	3.16	3.05	8.42	8.14	8.71	14.61	7.43	2.62	3.91	4.37	—	2.95	15.15	6.35
1989	1.74	1.40	1.41	3.27	2.98	8.47	8.83	8.23	14.48	8.26	2.89	4.69	4.54	—	3.07	14.61	6.20
1990	1.83	1.40	1.41	3.29	2.94	8.58	8.78	8.38	14.88	9.40	3.16	4.88	4.78	1.43	3.28	13.74	6.08
1991	1.80	1.42	1.42	3.12	3.30	8.55	8.38	8.34	16.78	9.00	2.49	5.13	5.04	1.50	3.19	13.21	5.98
1992	—	1.41	1.41	3.34	2.03	8.521	8.34	7.73	19.43	8.82	2.97	4.89	4.78	1.48	3.24	13.50	6.19
1993	—	1.41	1.41	3.78	2.37	8.505	8.15	8.84	18.94	8.78	2.72	4.48	4.41	1.48	3.27	13.55	6.33
1994	—	1.41	1.41	3.72	2.45	4.91	5.98	6.80	19.18	8.83	2.87	4.32	4.48	1.44	3.21	13.24	6.16

Expenditures in Million Nominal Dollars																	
1970	2.4	17.8	26.2	46.3	16.2	13.3	7.5	1.7	10.3	3.5	1.1	27.2	80.8	—	147.4	192.8	340.0
1971	2.7	17.1	19.8	55.5	18.6	14.9	7.9	1.8	13.3	3.1	0.4	26.9	78.7	—	164.0	222.1	376.1
1972	3.6	20.9	24.4	65.3	19.1	17.8	8.7	1.6	15.1	3.1	0.8	24.1	88.3	—	178.0	239.6	417.6
1973	4.8	24.2	29.0	77.8	25.5	22.1	7.3	2.3	18.2	2.3	(0)	26.8	104.5	—	210.9	295.6	506.7
1974	7.5	54.2	61.7	96.6	31.7	52.4	11.5	3.8	23.7	3.9	4.4	47.9	179.2	—	327.5	378.0	703.8
1975	9.9	52.0	60.8	81.4	44.8	57.8	9.4	3.9	23.7	2.8	2.3	63.9	207.3	—	349.5	386.3	735.9
1976	9.8	48.8	58.6	131.1	46.7	97.2	13.2	4.7	24.8	2.3	25.4	83.0	296.3	—	475.0	753.7	1,228.7
1977	14.1	67.2	81.3	159.9	88.3	102.0	14.5	5.8	23.9	2.6	30.8	112.2	357.9	—	590.1	735.7	1,324.8
1978	19.3	85.4	98.8	154.9	80.9	108.4	15.7	9.0	27.9	2.2	17.9	117.5	380.6	—	834.3	813.4	1,447.6
1979	10.8	92.3	103.1	241.8	75.1	128.5	38.3	14.9	39.3	1.8	30.2	153.6	489.6	—	934.3	992.6	1,826.8
1980	5.8	88.4	94.4	308.4	78.8	138.3	36.8	17.1	49.2	1.8	27.0	208.4	867.8	—	998.2	1,079.4	2,067.7
1981	9.2	129.6	137.8	383.1	87.3	141.5	22.6	11.6	59.1	1.7	23.0	272.4	619.2	—	1,120.1	1,202.8	2,322.8
1982	8.8	121.7	128.6	414.9	128.7	148.1	20.1	19.2	51.7	1.4	12.2	184.1	583.4	—	1,106.9	1,120.0	2,226.9
1983	6.9	143.9	150.9	414.4	90.9	103.9	6.4	14.7	53.9	0.8	18.7	154.9	441.7	—	1,006.9	1,295.2	2,300.1
1984	7.4	147.2	154.6	408.4	111.1	112.5	7.1	15.4	59.0	20.7	10.3	152.8	489.7	—	1,040.8	1,815.1	2,856.0
1985	8.8	188.6	194.6	288.1	139.3	128.8	8.9	21.0	84.8	28.8	6.8	188.6	636.2	—	1,086.9	1,581.8	2,668.7
1986	5.1	153.1	158.6	343.7	154.9	87.9	11.8	23.8	47.6	21.3	4.9	136.9	457.7	—	960.0	1,616.0	2,576.0
1987	3.3	137.5	140.8	254.8	98.3	92.9	3.0	24.7	43.8	23.8	3.2	180.6	449.6	—	885.2	1,897.9	2,523.0
1988	3.6	139.4	140.0	324.1	81.8	83.1	3.9	27.9	48.6	21.9	4.0	140.9	412.1	—	876.2	1,733.5	2,609.7
1989	3.6	137.6	141.2	346.6	108.1	85.7	1.2	28.5	49.4	26.2	4.7	163.5	447.2	—	935.0	1,886.7	2,601.7
1990	3.3	132.8	136.1	367.4	113.0	100.4	1.9	24.8	51.2	28.8	3.9	125.7	549.3	14.8	1,057.5	1,613.9	2,671.4
1991	0.9	132.0	132.9	364.4	117.3	82.5	1.5	23.8	52.7	26.3	3.2	114.7	621.6	17.0	1,022.9	1,665.4	2,581.3
1992	—	130.9	130.9	418.1	71.2	110.8	0.4	60.9	62.2	26.9	3.1	119.9	654.9	18.2	1,117.1	1,870.6	2,987.7
1993	—	139.6	139.6	480.8	77.3	99.5	1.3	25.6	61.7	33.4	5.4	192.9	497.4	18.6	1,114.1	1,960.3	3,073.4
1994	—	144.6	144.6	435.8	99.7	108.9	1.1	18.0	65.3	36.4	4.9	197.0	518.2	17.9	1,116.3	1,920.2	3,036.5

^a Liquefied petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of

Appendix A

(S) = Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 267. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Tennessee

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.35	—	2.17	1.28	0.79	1.27	5.08	2.84	8.42	2.49	2.49	4.97	2.48
1971	0.44	—	2.21	1.32	0.76	1.39	5.27	2.84	0.58	2.51	2.51	5.51	2.51
1972	0.44	—	2.19	1.37	0.78	1.36	5.58	2.84	—	2.49	2.49	6.60	2.49
1973	0.46	—	2.36	1.70	0.80	1.48	5.33	3.00	0.67	2.67	2.67	5.80	2.67
1974	1.07	—	3.23	2.70	1.66	2.60	7.22	4.08	1.59	3.79	3.79	6.67	3.79
1975	1.17	—	3.45	3.02	2.88	2.39	7.48	4.58	1.87	4.19	4.19	6.27	4.19
1976	1.01	—	3.59	3.06	2.18	2.77	7.05	4.77	1.71	4.34	4.34	6.67	4.34
1977	1.15	—	3.87	3.30	2.55	3.31	6.87	5.13	1.90	4.65	4.65	9.40	4.65
1978	—	—	4.29	3.48	2.88	3.47	7.80	5.95	1.81	4.85	4.85	11.06	4.85
1979	—	—	5.73	5.02	3.90	3.94	10.21	7.13	2.04	6.47	6.47	12.36	6.47
1980	—	—	9.82	7.26	6.39	4.96	14.36	9.88	3.48	9.20	9.20	19.29	9.20
1981	—	—	10.84	6.48	7.67	6.20	18.00	11.13	3.90	10.48	10.48	13.44	10.48
1982	—	—	10.62	7.88	7.42	6.28	17.25	10.40	4.07	9.83	9.83	18.77	9.83
1983	—	—	10.44	6.91	^R 6.44	6.78	16.88	9.01	—	8.53	8.53	16.88	8.53
1984	—	—	10.27	6.92	^R 6.14	7.04	17.83	8.72	—	8.27	8.27	16.55	8.27
1985	—	—	9.80	6.73	5.83	6.86	17.81	8.86	—	8.29	8.29	17.06	8.29
1986	—	—	8.41	6.47	5.81	6.90	15.69	7.01	—	6.73	6.73	17.96	6.73
1987	—	—	7.65	6.75	4.01	6.25	12.70	7.44	1.92	7.10	7.10	19.88	7.10
1988	—	—	7.41	6.49	3.82	6.71	14.61	7.43	3.01	7.07	7.07	20.34	7.07
1989	—	—	8.28	6.86	4.34	6.29	14.48	8.25	2.37	7.77	7.77	19.96	7.77
1990	—	4.14	6.32	6.36	5.89	6.39	14.80	9.40	2.22	8.97	8.97	20.82	8.97
1991	—	3.98	6.71	7.94	4.82	6.34	16.79	9.00	1.71	8.57	8.57	20.08	8.57
1992	—	4.22	8.84	7.82	4.66	7.73	19.43	9.92	1.95	9.49	9.49	21.62	9.49
1993	—	4.47	8.24	7.80	4.19	6.94	18.94	^R 6.78	1.58	^R 8.27	^R 8.27	^R 23.05	^R 8.27
1994	—	5.51	7.96	7.70	3.92	6.68	19.19	8.83	1.54	8.21	8.21	22.71	8.21

Expenditures in Million Nominal Dollars													
1970	(a)	—	1.3	63.8	13.8	0.5	16.1	616.7	(a)	688.8	688.8	(a)	688.8
1971	(a)	—	1.3	68.9	14.3	0.6	15.4	656.4	(a)	746.9	746.9	(a)	746.9
1972	(a)	—	1.3	75.7	14.7	0.5	17.6	712.5	—	822.2	822.2	(a)	822.2
1973	(a)	—	1.3	102.2	19.3	0.7	18.0	817.5	0.8	959.5	959.5	(a)	959.5
1974	(a)	—	1.5	157.6	33.7	1.1	23.4	1,090.0	0.7	1,317.8	1,317.8	(a)	1,317.8
1975	(a)	—	1.2	187.1	45.1	1.1	38.6	1,278.6	2.0	1,563.0	1,563.0	(a)	1,563.0
1976	(a)	—	1.0	204.6	50.5	1.2	38.3	1,398.6	2.6	1,695.4	1,695.4	(a)	1,695.4
1977	(a)	—	1.3	242.9	53.1	1.5	29.6	1,539.1	1.4	1,878.0	1,878.0	(a)	1,878.0
1978	—	—	1.2	290.9	76.3	2.1	33.4	1,671.6	0.7	2,078.2	2,078.2	(a)	2,078.2
1979	—	—	20.4	475.1	107.8	1.5	47.0	2,123.0	2.0	2,778.8	2,778.8	(a)	2,778.8
1980	—	—	13.2	537.1	149.8	1.1	55.9	2,827.3	0.1	3,607.4	3,607.4	(a)	3,607.4
1981	—	—	12.7	686.7	160.8	2.0	70.8	3,161.4	1.8	4,088.3	4,088.3	(a)	4,088.3
1982	—	—	9.4	627.3	95.5	3.5	61.8	2,950.5	0.5	3,748.9	3,748.9	(a)	3,748.9
1983	—	—	8.4	601.2	^R 74.8	4.5	63.7	2,922.3	—	^R 3,275.6	^R 3,275.6	(a)	^R 3,275.6
1984	—	—	8.5	682.0	^R 125.9	6.1	70.6	2,962.0	—	^R 3,455.0	^R 3,455.0	(a)	^R 3,455.0
1985	—	—	7.8	596.7	180.1	5.2	65.7	2,852.7	—	3,488.2	3,488.2	(a)	3,488.2
1986	—	—	8.5	646.5	127.8	6.1	66.9	2,185.7	—	3,031.4	3,031.4	(a)	3,031.4
1987	—	—	7.1	688.2	129.0	3.8	52.4	2,422.0	(a)	3,302.3	3,302.3	(a)	3,302.3
1988	—	—	6.8	699.6	91.3	4.7	59.1	2,274.8	0.2	3,135.4	3,135.4	(a)	3,135.4
1989	—	—	7.6	799.8	108.8	4.7	59.1	2,862.1	0.2	3,529.5	3,529.5	(a)	3,529.5
1990	—	(a)	8.2	845.8	131.7	4.9	61.2	2,794.9	0.1	3,688.3	3,688.3	(a)	3,688.3
1991	—	(a)	6.4	857.0	92.6	4.1	63.1	2,609.1	0.5	3,633.1	3,633.1	(a)	3,633.1
1992	—	(a)	14.8	696.8	115.5	3.4	74.4	2,703.6	0.5	3,770.5	3,770.5	(a)	3,770.5
1993	—	(a)	16.4	694.8	105.5	4.7	73.8	^R 2,778.7	0.2	^R 3,894.1	^R 3,894.1	(a)	^R 3,894.1
1994	—	(a)	15.8	852.6	172.3	7.6	78.1	2,876.7	(a)	4,015.3	4,015.3	0.1	4,015.3

^a Unquoted petroleum gases^RRevised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 268. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Tennessee

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Others	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.23	0.25	—	—	—	—	—	—	0.23
1971	0.33	0.27	—	0.98	—	0.98	—	—	0.32
1972	0.36	0.31	—	0.87	—	0.87	—	—	0.36
1973	0.36	0.31	—	1.02	—	1.02	—	—	0.36
1974	0.50	—	—	2.68	—	2.68	—	—	0.51
1975	0.87	—	—	2.89	—	2.78	—	—	0.88
1976	0.92	0.90	—	2.39	—	2.33	—	—	0.95
1977	1.03	—	—	2.64	—	2.64	—	—	1.10
1978	1.20	—	—	2.65	—	2.65	—	—	1.20
1979	1.36	—	2.18	3.58	—	3.46	—	—	1.36
1980	1.56	2.33	—	6.38	—	6.38	0.38	—	1.57
1981	1.74	2.80	—	8.24	—	8.24	0.42	—	1.63
1982	1.75	—	—	6.40	—	6.40	0.40	—	1.47
1983	1.72	3.76	—	6.50	—	6.50	0.50	—	1.42
1984	1.62	—	—	6.11	—	6.11	0.65	—	1.41
1985	1.54	—	—	5.38	—	5.38	0.78	—	1.41
1986	1.42	—	—	3.37	—	3.37	—	—	1.43
1987	1.37	—	—	3.95	—	3.95	—	—	1.36
1988	1.34	2.39	—	3.51	—	3.51	0.35	—	1.30
1989	1.34	2.74	—	3.98	—	3.95	0.39	—	1.23
1990	1.34	2.72	—	5.01	—	5.01	0.84	—	1.34
1991	1.25	2.44	—	4.98	—	4.98	0.65	—	1.35
1992	1.27	2.42	—	4.90	—	4.90	0.94	—	1.28
1993	1.26	^a 1.07	—	4.31	—	4.31	0.95	—	^a 1.25
1994	1.26	1.18	—	4.15	—	4.15	1.00	—	1.22
Expenditures in Million Nominal Dollars									
1970	78.5	4.4	—	—	—	—	—	—	84.9
1971	100.9	5.0	—	0.1	—	0.1	—	—	106.0
1972	137.1	5.3	—	0.8	—	0.8	—	—	143.3
1973	178.3	3.8	—	1.8	—	1.8	—	—	184.0
1974	201.3	—	—	4.8	—	4.8	—	—	206.8
1975	388.6	—	—	18.7	—	18.7	—	—	378.4
1976	459.0	0.2	—	33.8	—	33.9	—	—	492.9
1977	486.4	—	—	57.5	—	57.5	—	—	553.9
1978	563.5	—	—	79.8	—	79.8	—	—	663.4
1979	630.3	—	0.8	13.4	—	14.2	—	—	644.5
1980	784.9	2.8	—	15.1	—	15.1	2.1	—	804.9
1981	828.0	0.9	—	15.4	—	15.4	21.6	—	863.9
1982	681.4	—	—	13.5	—	13.5	44.8	—	739.5
1983	756.5	0.4	—	11.0	—	11.0	76.8	—	844.8
1984	731.7	—	—	7.4	—	7.4	89.7	—	827.8
1985	757.7	—	—	8.1	—	8.1	81.1	—	846.9
1986	711.4	—	—	4.5	—	4.5	—	—	716.0
1987	677.6	—	—	5.1	—	5.1	—	—	682.8
1988	675.7	0.6	—	7.5	—	7.5	34.9	—	718.8
1989	616.1	0.1	—	6.2	—	6.2	148.2	—	773.6
1990	688.5	1.8	—	7.8	—	7.8	128.9	—	826.0
1991	585.5	0.5	—	7.9	—	7.9	161.1	—	745.1
1992	628.5	0.7	—	6.3	—	6.3	158.4	—	791.8
1993	736.4	^a 1.7	—	10.4	—	10.4	33.6	—	^a 782.1
1994	650.6	1.2	—	12.8	—	12.8	127.7	—	792.0

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^a Revised data.

—No consumption.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 269. Energy Price and Expenditure Estimates by Source, 1970-1994, Texas

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Geothermal	Total ^c			
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																	
1970	0.38	0.38	0.38	0.29	0.94	0.72	1.07	2.00	0.42	1.85	1.05	—	0.05	0.85	0.25	4.52	1.28
1971	0.44	0.46	0.45	0.30	1.02	0.75	1.14	2.73	0.45	1.11	1.03	—	0.06	0.86	0.26	4.57	1.33
1972	0.57	0.53	0.55	0.34	1.01	0.78	1.16	2.70	0.57	1.12	1.06	—	0.72	0.91	0.29	4.70	1.40
1973	0.68	0.56	0.62	0.38	1.23	0.89	1.41	2.79	0.64	1.20	1.79	—	0.77	0.98	0.27	4.88	1.47
1974	1.23	0.55	0.67	0.54	2.20	1.54	2.48	3.98	1.40	2.23	2.73	—	0.84	1.57	0.46	5.84	2.25
1975	1.60	0.46	0.61	0.88	2.36	2.01	2.48	4.36	1.81	2.85	3.09	—	0.82	1.83	0.73	6.81	2.80
1976	1.57	0.57	0.74	1.21	2.61	2.12	2.66	4.59	1.57	2.89	3.22	—	0.98	2.20	0.95	7.82	3.14
1977	1.76	0.73	0.89	1.38	2.85	2.48	3.11	4.85	1.76	3.20	3.51	—	1.04	2.42	1.15	8.99	3.48
1978	1.80	0.85	0.97	1.71	2.98	2.88	2.60	4.88	1.63	3.42	3.46	—	1.12	2.53	1.26	9.78	3.68
1979	1.75	1.10	1.14	1.93	4.57	3.95	4.31	6.59	2.15	4.88	4.77	—	1.58	3.35	1.44	10.98	4.72
1980	1.81	1.18	1.22	2.17	4.73	5.34	5.28	6.35	2.48	5.88	4.83	—	1.74	4.22	1.66	12.86	5.80
1981	2.03	1.46	1.47	2.78	7.78	7.47	5.90	10.50	3.16	8.06	7.04	—	1.24	5.01	2.11	15.62	7.12
1982	2.04	1.60	1.61	3.44	7.32	7.09	6.13	9.83	3.63	7.96	7.51	—	1.26	5.16	2.56	18.34	7.60
1983	1.59	1.88	1.68	3.53	6.59	6.27	6.04	8.74	3.48	7.27	7.10	—	1.12	4.99	2.84	19.06	7.53
1984	1.81	1.57	1.68	3.68	6.61	6.04	6.45	8.95	3.89	7.47	7.05	—	1.28	5.03	2.54	18.42	7.48
1985	1.89	1.59	1.68	3.38	6.34	5.87	4.42	8.79	4.08	7.22	6.82	—	0.78	4.81	2.44	18.59	7.84
1986	1.75	1.55	1.55	2.62	4.80	3.58	4.28	6.47	1.45	4.75	4.67	—	0.32	3.55	1.92	16.91	7.54
1987	—	1.54	1.54	2.38	5.68	3.85	3.79	7.19	2.88	5.11	5.16	—	0.95	3.80	1.80	16.38	7.72
1988	—	1.47	1.47	2.44	5.42	3.57	3.57	7.32	1.84	4.68	4.82	0.57	—	3.47	1.74	18.58	8.55
1989	—	1.44	1.44	2.51	5.30	4.16	2.89	7.92	2.43	5.24	5.08	0.42	0.35	3.51	1.73	18.78	8.65
1990	—	1.48	1.44	2.47	7.35	3.81	4.13	8.18	2.83	6.94	6.38	0.58	0.73	4.08	1.87	17.08	8.48
1991	—	1.40	1.40	2.39	6.99	4.64	4.21	8.09	2.87	5.48	6.02	0.40	1.81	3.68	1.61	17.91	8.31
1992	—	1.48	1.48	2.47	7.07	4.32	3.97	9.05	1.80	5.26	5.81	0.52	1.82	3.84	1.67	18.21	8.27
1993	—	1.42	1.42	2.79	7.07	4.01	3.81	8.90	1.88	4.97	5.75	0.69	1.73	3.90	1.61	18.63	8.43
1994	—	1.34	1.34	2.51	7.05	3.73	4.90	8.94	2.03	4.82	6.03	0.60	1.70	3.91	1.50	19.07	8.55
Expenditures in Million Nominal Dollars																	
1970	11.6	6.2	11.3	864.8	178.6	97.4	611.8	1,976.4	38.0	478.4	3,578.2	—	0.7	4,193.8	-247.6	1,431.0	9,347.2
1971	10.2	0.8	10.7	981.2	205.9	106.0	892.8	2,134.9	33.4	643.4	3,885.4	—	0.7	4,579.0	-335.9	1,551.2	9,894.4
1972	13.4	6.2	19.5	1,016.2	299.7	108.4	774.8	2,258.3	31.1	506.2	4,057.3	—	0.8	5,094.1	-364.2	1,782.9	9,492.7
1973	17.6	35.0	53.3	1,138.2	378.3	132.1	887.0	2,481.0	100.8	688.6	4,758.9	—	0.8	5,946.2	-383.4	1,961.4	7,584.2
1974	29.9	82.4	89.3	1,638.4	700.8	222.8	1,616.1	3,626.5	313.9	1,295.9	7,885.0	—	0.8	9,384.6	-675.1	2,410.9	11,120.3
1975	41.0	75.2	128.2	2,261.3	738.8	308.2	1,852.4	4,820.8	382.7	1,424.9	8,323.8	—	0.9	10,808.1	-1,088.3	2,905.0	12,601.8
1976	27.9	140.6	168.4	3,282.2	862.3	303.7	1,575.7	4,471.7	418.5	1,807.9	9,625.8	—	1.0	13,077.3	-1,618.4	3,486.8	15,064.7
1977	31.8	168.4	229.7	3,988.9	1,188.7	389.4	1,945.4	4,986.1	547.0	2,588.9	11,513.5	—	1.0	15,741.1	-2,082.7	4,510.4	18,188.8
1978	82.4	345.3	395.7	5,231.8	1,397.5	447.0	1,661.4	5,175.1	575.7	2,925.4	12,682.3	—	1.1	17,690.7	-2,442.4	5,270.4	20,445.6
1979	62.8	615.5	688.3	5,574.0	2,305.9	446.7	2,898.1	6,793.8	854.0	4,529.0	16,067.7	—	1.4	24,331.3	-2,899.2	6,019.3	27,481.4
1980	47.8	844.6	892.5	6,838.4	2,823.7	1,098.5	3,679.4	8,985.7	968.9	6,829.9	23,988.1	—	1.4	31,738.8	-3,678.1	7,434.8	38,888.4
1981	37.8	1,223.8	1,281.6	8,088.9	4,895.5	1,295.2	4,438.1	10,214.6	1,243.4	6,802.1	26,191.0	—	1.0	38,323.5	-4,835.8	9,476.0	43,163.7
1982	21.0	1,474.6	1,485.5	9,736.5	3,885.6	1,706.4	4,888.4	9,842.7	1,265.5	4,911.7	25,870.4	—	0.8	37,103.3	-5,579.5	11,288.2	42,792.0
1983	0.5	1,711.3	1,711.8	9,522.6	3,788.3	1,888.1	4,888.2	9,948.5	917.0	4,894.7	24,634.8	—	0.9	35,980.9	-5,588.6	12,051.8	42,355.1
1984	25.8	1,774.8	1,800.2	10,887.9	3,744.3	2,202.2	6,884.2	9,848.2	779.2	4,594.2	28,349.2	—	1.5	36,938.8	-6,814.0	12,889.8	43,894.3
1985	38.9	1,612.9	1,652.8	9,814.8	3,475.1	2,389.1	4,877.4	9,479.6	794.5	3,805.8	24,631.6	—	2.5	36,682.7	-6,552.8	13,175.7	43,149.6
1986	3.8	1,794.5	1,798.1	7,821.2	2,511.6	1,614.0	3,868.8	7,118.0	851.2	2,676.8	18,032.8	—	1.0	26,962.9	-4,302.1	11,920.8	34,471.4
1987	—	1,890.9	1,890.9	6,513.9	1,838.5	3,675.5	7,798.2	3,675.5	351.5	2,771.0	19,293.2	—	2.5	27,860.4	-4,009.5	11,645.9	35,289.2
1988	—	1,852.4	1,852.4	7,247.2	2,729.9	1,811.9	3,807.1	8,038.9	279.0	2,671.8	19,387.4	18.1	—	26,452.1	-4,073.9	12,325.7	38,704.0
1989	—	1,910.4	1,910.4	7,793.9	3,123.7	2,186.7	3,823.6	8,488.3	437.5	2,791.4	20,024.1	44.6	0.7	29,763.7	-4,245.4	12,782.0	38,300.4
1990	—	1,948.6	1,948.6	7,211.4	3,525.7	2,931.8	4,378.3	9,851.0	505.9	3,688.5	24,440.0	94.9	37.2	34,282.3	-4,165.2	15,431.1	43,468.2
1991	—	1,961.4	1,961.4	6,953.6	3,445.5	2,377.9	4,873.8	9,485.4	524.0	3,370.2	24,087.8	103.3	41.9	35,188.0	-4,083.1	14,270.8	43,376.7
1992	—	1,981.2	1,981.2	7,288.1	2,188.6	4,783.0	9,543.5	384.0	3,371.8	23,077.2	135.0	41.7	35,405.2	-4,210.8	14,857.3	43,851.8	
1993	—	2,008.2	2,008.2	7,821.1	3,777.4	1,975.4	4,418.7	9,708.6	260.8	3,151.3	23,281.2	91.7	99.5	34,244.7	-4,676.8	15,844.3	45,210.3
1994	—	1,859.5	1,859.5	7,808.1	3,674.1	1,768.3	3,377.4	10,279.3	273.3	3,111.8	25,473.3	184.1	99.6	35,356.6	-4,259.3	16,149.0	47,240.3

^a Liquefied petroleum gases.^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

R-Flipped data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 270. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Texas

Year	Primary Energy							Electricity	Total Energy ^a	
	Coal	Natural Gas	Petroleum			Biomass ^b	Total ^c			
			Distillate Fuel	Kerosene	LPG ^a					Total
Prices in Nominal Dollars per Million Btu										
1970	0.90	6.96	0.98	1.29	1.71	1.78	—	1.96	6.31	2.48
1971	0.84	0.97	1.06	1.39	1.74	1.73	—	1.11	6.32	2.62
1972	0.98	0.89	1.07	1.41	1.73	1.71	—	1.13	6.40	2.78
1973	1.48	1.01	1.24	1.60	3.21	3.16	—	1.39	6.61	3.08
1974	1.07	1.13	2.12	2.68	3.22	3.18	—	1.48	7.73	3.68
1975	—	1.48	2.24	3.81	3.50	3.45	—	1.79	8.74	4.08
1976	—	1.93	2.54	3.14	3.95	3.89	—	2.24	9.54	4.73
1977	1.61	2.33	2.82	3.71	4.65	4.51	—	2.62	11.11	5.45
1978	—	2.69	2.96	3.90	4.32	4.21	—	2.89	11.88	5.99
1979	—	3.12	4.90	6.65	5.77	6.62	—	3.32	13.05	6.51
1980	2.54	3.31	6.61	9.36	7.38	7.48	—	3.69	14.82	8.56
1981	3.42	4.09	8.03	10.16	8.17	8.22	—	4.47	16.32	10.71
1982	3.18	5.05	7.59	10.10	8.35	9.41	—	5.39	21.25	12.81
1983	—	5.39	8.87	8.98	8.88	8.69	—	5.70	22.44	13.36
1984	—	5.60	7.28	8.75	8.79	8.64	—	5.87	21.82	13.28
1985	2.62	5.56	5.98	8.40	8.53	8.52	—	5.67	21.99	13.39
1986	2.78	5.09	4.57	5.50	9.06	8.03	—	5.41	20.18	13.10
1987	2.40	5.00	4.69	5.53	7.80	7.82	—	5.27	18.74	12.61
1988	2.12	5.16	4.41	5.30	7.88	7.82	—	5.41	20.16	13.10
1989	2.43	5.34	5.42	6.51	10.02	9.87	—	5.77	20.45	13.22
1990	2.41	8.86	4.32	5.28	10.39	10.35	2.53	5.68	21.11	13.78
1991	2.96	5.49	3.98	4.78	11.71	11.61	3.53	5.60	22.17	14.25
1992	2.43	5.51	5.48	8.87	10.07	10.03	3.53	5.69	22.69	14.47
1993	2.16	5.74	5.78	6.94	9.80	9.75	3.53	5.60	23.45	15.06
1994	2.25	5.75	5.47	6.58	10.07	10.03	3.53	5.60	23.68	15.60

Expenditures in Million Nominal Dollars										
1970	(e)	213.8	6.8	9.2	95.5	98.5	—	314.3	781.2	1,018.4
1971	(5)	235.7	0.9	0.2	97.1	98.3	—	334.0	778.4	1,110.4
1972	(5)	244.0	1.4	0.3	96.6	101.2	—	345.3	805.3	1,240.6
1973	(5)	250.9	1.8	0.4	189.4	170.8	—	421.6	961.1	1,382.7
1974	(5)	260.4	3.3	0.6	140.5	153.4	—	419.8	1,147.9	1,561.7
1975	—	283.8	3.8	0.7	148.5	162.7	—	508.5	1,218.6	1,726.1
1976	—	468.2	4.9	0.5	171.5	178.8	—	645.0	1,382.3	2,027.2
1977	(5)	645.6	8.2	0.7	184.3	194.3	—	840.0	1,778.0	2,616.0
1978	—	750.6	10.8	0.9	186.6	201.3	—	951.9	2,068.7	3,020.6
1979	—	1,015.2	20.2	3.0	130.2	153.4	—	1,168.5	2,243.2	3,411.7
1980	(5)	785.9	8.3	9.4	168.4	178.1	—	942.9	2,918.3	3,863.3
1981	0.1	877.4	0.8	0.6	185.8	192.7	—	1,070.1	3,601.8	4,671.9
1982	0.2	1,153.9	1.3	20.4	159.8	181.4	—	1,335.4	4,402.9	5,738.2
1983	—	1,182.1	13.8	5.7	180.1	189.6	—	1,381.7	4,619.9	6,011.6
1984	—	1,340.4	14.3	22.7	182.5	199.5	—	1,639.9	5,043.0	6,582.9
1985	0.2	1,226.8	1.8	5.4	223.3	230.2	—	1,457.1	5,361.8	6,898.0
1986	0.3	1,032.8	0.6	1.4	194.4	186.4	—	1,229.5	4,984.7	6,214.2
1987	0.8	1,097.7	2.2	1.9	195.9	200.1	—	1,296.3	5,009.0	6,307.3
1988	0.8	1,127.5	0.8	1.8	179.6	181.2	—	1,309.6	5,314.0	6,623.5
1989	0.3	1,277.0	0.4	1.8	241.2	243.4	—	1,520.7	5,556.0	7,075.7
1990	0.2	1,217.8	0.1	6.8	231.1	231.8	20.8	1,470.3	5,947.8	7,417.3
1991	0.2	1,296.8	0.1	0.9	171.0	172.0	21.7	1,482.7	6,381.0	7,823.7
1992	0.2	1,240.9	0.1	0.8	125.9	126.8	22.8	1,390.7	6,343.0	7,733.6
1993	0.1	1,389.9	0.1	1.2	129.6	131.1	20.0	1,521.1	7,017.0	8,338.1
1994	(A)	1,278.5	0.2	0.7	132.8	133.8	19.8	1,431.8	7,264.1	8,685.9

^a Liquefied petroleum gases^b Commercial sector prices and expenditures for wood and waste are included in the residential sector^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of liquids beginning in 1990^e Revised data

—No consumption

(5)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 271. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Texas

Year	Primary Energy ^a										Electricity	Total ^b Energy ^b
	Coal	Natural Gas	Petrochemical									
			Distillate Fuel	Kerosene	LPG ^c	Motor Gasoline	Residual Fuel	Total				
									Prices in Nominal Dollars per Million Btu			
1970	0.06	0.44	0.90	8.78	1.00	2.86	0.48	1.01	8.58	8.18	1.41	
1971	0.76	0.48	0.97	0.90	1.06	2.73	0.51	1.07	0.90	5.22	2.08	
1972	0.90	0.51	0.97	0.80	1.11	2.70	0.50	1.05	0.84	2.23	2.23	
1973	0.84	0.54	1.14	0.85	1.26	2.79	0.50	1.16	0.89	5.46	2.34	
1974	1.31	0.69	1.99	2.16	2.41	3.58	1.57	2.26	1.10	8.43	3.01	
1975	—	1.02	2.14	2.23	2.42	4.36	1.87	2.97	1.41	7.89	3.82	
1976	—	1.36	2.42	2.85	2.55	4.96	1.83	2.89	1.77	8.51	4.44	
1977	1.68	1.75	2.71	3.10	3.00	4.85	1.90	3.02	2.06	10.06	5.03	
1978	—	2.14	2.63	3.33	2.47	4.59	1.79	2.36	2.36	11.10	5.59	
1979	—	2.16	4.59	4.09	4.25	4.59	2.25	4.59	3.30	12.94	5.93	
1980	4.89	2.46	6.22	6.88	5.22	4.28	2.83	0.24	3.80	14.12	7.77	
1981	1.48	3.56	7.66	7.81	5.32	10.50	2.85	0.80	4.67	17.24	9.94	
1982	1.68	4.35	7.20	6.83	6.06	8.74	3.11	0.51	4.62	19.62	10.77	
1983	—	4.30	6.13	6.57	6.40	8.74	3.23	0.57	5.57	20.46	11.07	
1984	—	4.80	6.14	6.00	6.40	8.94	3.47	0.16	5.94	20.14	11.51	
1985	1.60	4.70	6.13	7.74	6.38	8.78	3.87	0.37	5.33	20.86	12.08	
1986	1.50	4.00	6.60	8.44	4.15	8.47	2.05	0.46	6.42	19.46	11.28	
1987	1.27	4.08	6.09	9.47	3.89	7.16	2.57	0.43	6.41	17.46	10.76	
1988	1.31	4.03	6.23	8.58	2.59	7.82	1.90	0.43	6.41	17.79	10.76	
1989	1.27	3.85	6.23	8.58	2.59	7.82	2.33	0.11	6.41	18.12	10.76	
1990	1.44	3.87	6.47	8.48	4.08	8.18	2.80	0.58	6.40	18.12	10.76	
1991	1.23	3.86	6.47	8.48	4.11	8.09	1.95	0.70	6.43	19.11	10.76	
1992	1.27	3.90	6.43	8.17	3.81	8.05	2.07	0.44	6.43	19.56	10.76	
1993	1.16	4.33	6.40	8.01	3.74	8.00	2.07	0.44	6.43	20.25	10.76	
1994	1.26	4.15	4.07	5.24	6.86	8.94	2.12	0.86	4.21	20.82	12.41	

Year	Expenditures in Million Nominal Dollars										Electricity	Total ^b Energy ^b
	Coal	Natural Gas	Petrochemical									
			Distillate Fuel	Kerosene	LPG ^c	Motor Gasoline	Residual Fuel	Total				
									Prices in Nominal Dollars per Million Btu			
1970	0.06	0.44	0.90	8.78	1.00	2.86	0.48	1.01	8.58	8.18	1.41	
1971	0.76	0.48	0.97	0.90	1.06	2.73	0.51	1.07	0.90	5.22	2.08	
1972	0.90	0.51	0.97	0.80	1.11	2.70	0.50	1.05	0.84	2.23	2.23	
1973	0.84	0.54	1.14	0.85	1.26	2.79	0.50	1.16	0.89	5.46	2.34	
1974	1.31	0.69	1.99	2.16	2.41	3.58	1.57	2.26	1.10	8.43	3.01	
1975	—	1.02	2.14	2.23	2.42	4.36	1.87	2.97	1.41	7.89	3.82	
1976	—	1.36	2.42	2.85	2.55	4.96	1.83	2.89	1.77	8.51	4.44	
1977	1.68	1.75	2.71	3.10	3.00	4.85	1.90	3.02	2.06	10.06	5.03	
1978	—	2.14	2.63	3.33	2.47	4.59	1.79	2.36	2.36	11.10	5.59	
1979	—	2.16	4.59	4.09	4.25	4.59	2.25	4.59	3.30	12.94	5.93	
1980	4.89	2.46	6.22	6.88	5.22	4.28	2.83	0.24	3.80	14.12	7.77	
1981	1.48	3.56	7.66	7.81	5.32	10.50	2.85	0.80	4.67	17.24	9.94	
1982	1.68	4.35	7.20	6.83	6.06	8.74	3.11	0.51	4.62	19.62	10.77	
1983	—	4.30	6.13	6.57	6.40	8.74	3.23	0.57	5.57	20.46	11.07	
1984	—	4.80	6.14	6.00	6.40	8.94	3.47	0.16	5.94	20.14	11.51	
1985	1.60	4.70	6.13	7.74	6.38	8.78	3.87	0.37	5.33	20.86	12.08	
1986	1.50	4.00	6.60	8.44	4.15	8.47	2.05	0.46	6.42	19.46	11.28	
1987	1.27	4.08	6.09	9.47	3.89	7.16	2.57	0.43	6.41	17.46	10.76	
1988	1.31	4.03	6.23	8.58	2.59	7.82	1.90	0.43	6.41	17.79	10.76	
1989	1.27	3.85	6.23	8.58	2.59	7.82	2.33	0.11	6.41	18.12	10.76	
1990	1.44	3.87	6.47	8.48	4.08	8.18	2.80	0.58	6.40	18.12	10.76	
1991	1.23	3.86	6.47	8.48	4.11	8.09	1.95	0.70	6.43	19.11	10.76	
1992	1.27	3.90	6.43	8.17	3.81	8.05	2.07	0.44	6.43	19.56	10.76	
1993	1.16	4.33	6.40	8.01	3.74	8.00	2.07	0.44	6.43	20.25	10.76	
1994	1.26	4.15	4.07	5.24	6.86	8.94	2.12	0.86	4.21	20.82	12.41	

^a Liquid petroleum gases.
^b These are no direct fuel costs for petrochemical and other thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

—No consumption.
 (b) Values less than 0.05 million nominal dollars.
 Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 272. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Texas

Year	Primary Energy														Electricity	Total Energy ^c	
	Coal			Natural Gas	Petroleum									Biomass ^c			Total ^d
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	0.26	0.26	0.26	0.36	4.74	4.88	0.76	1.09	5.06	2.66	0.37	0.79	0.90	—	0.83	2.51	0.63
1971	0.44	0.78	0.46	0.24	0.76	0.70	0.80	1.09	5.27	2.73	0.47	0.87	1.03	—	0.87	2.46	0.97
1972	0.57	0.90	0.58	0.25	0.78	0.70	0.80	1.11	5.56	2.70	0.47	0.87	1.04	—	0.83	2.60	0.73
1973	0.66	0.94	0.78	0.30	0.77	0.83	0.86	1.25	5.33	2.79	0.54	0.89	1.15	—	0.70	2.85	0.81
1974	1.23	1.31	1.26	0.51	1.56	1.88	2.16	2.41	7.22	3.98	1.31	2.00	2.21	—	1.34	3.86	1.47
1975	1.89	1.84	1.20	0.82	1.77	2.82	2.23	2.42	7.48	4.36	1.51	2.49	2.41	—	1.73	4.70	1.95
1976	1.67	1.84	1.75	1.27	1.85	2.47	2.86	2.55	7.05	4.58	1.81	2.80	2.68	—	2.09	5.79	2.37
1977	1.76	1.66	1.80	1.23	2.00	2.06	3.10	3.00	6.97	4.85	1.81	3.20	3.04	—	2.32	6.73	2.66
1978	1.80	2.06	2.06	1.66	2.22	2.84	3.33	2.47	7.80	4.88	1.85	3.30	2.84	—	2.48	7.38	2.87
1979	1.75	2.26	2.86	1.84	2.51	4.24	4.89	4.25	10.21	6.59	2.70	4.49	4.30	—	3.47	9.61	3.67
1980	1.81	0.89	1.26	2.34	3.79	6.88	6.88	5.22	14.95	8.28	3.89	6.59	5.92	—	4.94	9.99	4.74
1981	2.03	1.46	1.59	2.81	5.18	6.79	7.81	5.92	18.00	10.50	3.98	8.81	7.01	—	5.05	12.44	5.58
1982	2.04	1.68	1.72	3.30	4.42	6.32	7.25	6.05	17.25	9.89	4.44	7.84	6.56	—	5.14	14.92	5.92
1983	1.58	1.71	1.71	3.34	4.24	6.40	8.83	6.57	16.98	8.74	4.40	7.21	6.84	—	5.17	15.32	6.04
1984	1.81	1.85	1.88	3.88	4.19	6.41	8.08	6.40	17.63	8.68	4.47	7.12	6.80	—	5.29	14.28	6.00
1985	1.88	1.88	1.84	3.87	4.28	6.18	7.86	4.49	17.81	8.79	3.87	7.80	6.39	—	4.30	14.18	5.87
1986	1.75	1.56	1.51	2.36	4.58	3.88	4.54	4.15	15.58	8.47	3.00	3.89	4.24	—	3.40	12.51	4.13
1987	—	1.27	1.27	1.86	3.35	4.34	6.47	3.59	12.70	7.19	3.67	4.83	4.12	—	3.16	11.82	3.81
1988	—	1.31	1.31	2.11	3.21	3.86	4.89	3.47	14.61	7.32	1.80	4.02	3.80	—	3.00	11.67	3.64
1989	—	1.27	1.27	2.16	2.84	4.60	5.80	2.53	14.48	7.82	2.33	4.86	3.49	—	2.83	11.96	3.46
1990	—	1.14	1.14	2.89	2.94	5.91	7.44	4.80	14.69	9.16	2.80	5.99	4.98	1.22	3.51	11.82	4.10
1991	—	1.23	1.23	1.88	3.33	5.14	6.48	4.11	15.79	9.09	1.86	5.07	4.61	1.35	3.32	12.16	3.93
1992	—	1.27	1.27	2.02	2.93	4.80	6.17	3.91	18.43	9.05	2.07	4.85	4.37	1.32	3.30	12.31	3.93
1993	—	1.16	1.16	2.44	3.14	4.77	6.01	3.74	18.94	8.90	1.94	4.43	4.18	1.31	3.32	12.67	3.96
1994	—	1.28	1.28	2.11	2.94	4.80	5.68	4.84	19.18	8.94	2.12	4.19	4.75	1.30	3.62	12.52	4.13
Expenditures in Million Nominal Dollars																	
1970	11.6	4.2	11.6	286.3	88.0	31.9	18.7	481.0	78.8	19.7	4.8	236.4	828.8	—	1,298.9	314.5	1,514.4
1971	10.2	0.5	10.7	340.8	68.1	38.2	12.2	529.2	84.6	21.7	4.6	300.2	1,048.6	—	1,406.1	324.0	1,730.1
1972	13.4	0.4	14.0	306.2	68.5	54.8	17.0	636.6	96.9	17.3	7.8	331.1	1,218.3	—	1,561.5	371.7	1,933.2
1973	17.8	27.6	45.2	446.3	80.5	70.9	18.6	758.6	103.3	17.3	24.7	410.5	1,464.1	—	1,867.6	432.0	2,300.6
1974	29.9	47.1	77.0	677.6	126.7	104.2	39.0	1,369.3	194.2	23.8	71.0	899.2	2,787.8	—	3,542.0	587.2	4,129.2
1975	41.8	32.8	99.3	894.9	96.7	188.1	37.5	1,241.2	117.3	28.8	98.8	1,019.0	2,898.6	—	3,728.8	799.2	4,527.0
1976	27.9	85.0	112.8	1,194.9	82.9	227.7	39.4	1,334.3	122.7	29.1	124.7	1,800.5	3,561.3	—	4,866.1	1,083.4	5,952.5
1977	31.3	63.1	94.4	1,201.2	72.1	367.7	52.8	1,580.4	145.0	24.2	135.9	2,153.9	4,532.0	—	5,627.9	1,434.3	7,062.3
1978	20.4	103.8	124.3	1,067.1	105.4	425.7	73.2	1,307.4	168.7	18.5	148.8	2,374.2	4,820.9	—	6,732.2	1,660.1	8,401.3
1979	52.9	122.0	174.8	1,589.8	158.2	781.1	198.9	2,706.6	236.5	30.4	272.4	3,497.3	7,679.5	—	9,844.1	2,052.3	11,896.4
1980	47.9	32.9	80.9	2,890.4	274.5	781.9	464.9	3,470.9	298.7	22.8	308.1	5,231.6	16,765.6	—	18,887.8	2,401.7	21,289.6
1981	37.6	107.8	145.4	3,826.3	272.5	1,117.8	165.0	4,189.9	358.2	41.4	624.3	5,634.0	12,914.4	—	18,389.7	3,094.7	21,484.4
1982	21.0	122.2	143.2	3,691.9	230.2	998.4	348.3	4,084.2	313.9	32.9	693.9	3,721.2	10,403.9	—	14,108.0	3,582.2	17,690.2
1983	0.5	112.0	112.4	3,885.9	329.8	1,197.7	82.3	4,448.8	323.6	24.5	385.7	3,267.1	10,049.3	—	13,327.7	3,865.9	17,193.6
1984	25.6	130.1	155.7	4,386.8	289.8	1,178.6	147.9	5,881.7	358.3	102.3	242.7	3,058.5	11,267.9	—	15,792.4	3,880.4	19,672.8
1985	28.9	117.8	138.6	3,949.8	329.2	1,089.9	118.0	3,824.9	335.4	217.1	133.2	2,987.1	8,782.7	—	12,862.0	3,821.9	16,683.9
1986	3.6	105.1	108.7	2,775.0	414.4	688.5	12.0	3,836.3	288.6	154.3	16.7	1,729.8	6,840.6	—	8,724.4	3,108.9	11,833.3
1987	—	78.4	78.4	2,507.9	279.8	683.2	13.6	3,457.3	265.9	159.1	16.8	2,015.3	6,871.2	—	8,457.5	2,916.5	11,374.1
1988	—	68.3	68.3	3,131.1	307.9	824.8	13.7	3,806.6	296.0	168.8	8.3	1,760.1	6,769.1	—	8,967.5	3,041.7	12,009.2
1989	—	79.1	79.1	3,476.8	182.7	673.2	8.2	2,787.4	299.8	187.7	8.0	2,084.5	6,208.5	—	8,764.4	3,103.0	12,867.4
1990	—	88.9	88.9	3,186.7	273.8	889.8	8.3	4,122.5	311.0	387.5	19.2	2,884.8	6,898.4	18.4	11,884.6	3,187.1	15,071.7
1991	—	77.8	77.8	2,915.7	208.8	682.1	1.7	4,887.0	320.1	220.4	7.2	2,842.3	6,777.6	19.2	11,790.3	3,236.7	15,027.0
1992	—	76.9	76.9	3,112.5	182.3	688.4	2.0	4,444.1	377.6	206.3	4.7	2,581.9	6,838.2	17.8	11,843.8	3,204.4	15,048.0
1993	—	82.0	82.0	4,018.9	264.9	820.1	3.3	4,276.8	374.7	180.8	20.1	2,287.2	7,968.8	18.4	12,106.2	3,417.3	15,523.4
1994	—	104.6	104.6	3,431.3	213.7	485.9	3.2	6,207.5	396.6	178.2	24.9	2,244.9	9,782.6	18.8	13,317.6	3,430.9	16,748.5

^a Liquefied petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1990 and 1991 due to the expanded coverage of non-electric utility use of biomass beginning in 1991.

Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 273. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Texas

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Automotive Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.88	—	2.17	1.08	0.72	1.08	5.86	2.66	6.42	2.87	2.87	—	2.87
1971	0.78	—	2.21	1.15	0.75	1.04	5.27	2.73	6.46	2.16	2.16	—	2.16
1972	0.90	—	2.19	1.15	0.75	1.11	5.59	2.70	6.58	2.14	2.14	—	2.14
1973	0.84	—	2.36	1.40	0.89	1.26	5.33	2.79	6.53	2.20	2.20	—	2.20
1974	1.31	—	3.23	2.35	1.54	2.41	7.22	3.88	1.39	3.22	3.22	—	3.22
1975	1.81	—	3.48	2.49	2.01	2.42	7.48	4.38	1.83	3.84	3.84	—	3.84
1976	1.84	—	3.59	2.57	2.12	2.55	7.05	4.56	1.49	3.71	3.71	—	3.71
1977	1.88	—	3.97	2.97	2.48	3.00	6.97	4.85	1.69	3.95	3.95	—	3.95
1978	—	—	4.29	3.07	2.69	2.47	7.80	4.86	1.51	3.98	3.98	—	3.98
1979	—	—	6.73	4.78	3.88	4.25	10.21	6.59	1.95	5.29	5.29	—	5.29
1980	—	—	8.82	7.89	6.34	5.22	14.36	8.28	2.15	7.42	7.42	—	7.42
1981	—	—	10.84	9.33	7.47	5.92	18.00	10.50	2.49	8.76	8.76	—	8.76
1982	—	—	10.82	7.86	7.09	6.05	17.25	8.83	2.81	8.37	8.37	—	8.37
1983	—	—	10.44	9.92	^a 6.27	6.57	18.98	8.74	3.02	^a 7.55	^a 7.55	—	^a 7.55
1984	—	—	10.27	6.80	^a 6.04	6.40	17.63	8.68	3.26	7.44	7.44	—	7.44
1985	—	—	9.99	6.80	5.87	4.36	17.81	8.79	4.83	7.44	7.44	—	7.44
1986	—	—	8.41	5.84	3.56	4.15	15.59	6.47	1.42	5.36	5.36	—	5.36
1987	—	—	7.55	5.80	3.85	3.59	12.70	7.19	2.57	6.03	6.03	—	6.03
1988	—	—	7.41	6.44	3.57	3.47	14.61	7.32	1.83	5.89	5.89	—	5.89
1989	—	—	8.28	6.97	4.16	2.53	14.48	7.82	2.41	6.41	6.41	—	6.41
1990	—	2.87	9.32	8.20	5.41	4.88	14.89	8.16	2.84	7.57	7.57	—	7.57
1991	—	5.28	6.71	7.84	4.84	4.11	16.79	9.69	3.00	7.30	7.30	—	7.30
1992	—	4.32	8.54	7.59	4.32	3.91	18.43	9.06	1.80	7.13	7.13	—	7.13
1993	—	4.69	8.24	7.94	4.01	3.74	18.94	^a 9.30	2.87	^a 7.20	^a 7.20	^a 19.58	^a 7.20
1994	—	3.27	7.96	7.97	3.73	3.04	19.18	8.94	2.02	7.25	7.25	—	7.25
Expenditures in Million Nominal Dollars													
1970	(a)	—	22.8	137.5	97.4	21.1	80.6	1,948.8	36.8	2,305.5	2,305.5	—	2,305.5
1971	(a)	—	22.3	162.5	105.9	25.9	62.0	2,104.5	27.7	2,499.9	2,499.9	—	2,499.9
1972	(a)	—	17.3	205.1	108.4	27.2	59.0	2,232.4	35.0	2,684.4	2,684.4	—	2,684.4
1973	(a)	—	18.5	292.6	132.1	28.4	58.7	2,454.5	51.9	3,036.8	3,036.8	—	3,036.8
1974	(a)	—	26.2	520.1	222.9	47.0	78.2	3,467.3	186.2	4,546.3	4,546.3	—	4,546.3
1975	(a)	—	22.4	542.4	304.2	44.4	78.9	3,882.8	266.3	5,238.3	5,238.3	—	5,238.3
1976	(a)	—	23.0	585.3	303.7	48.4	62.6	4,404.6	251.0	5,712.6	5,712.6	—	5,712.6
1977	(a)	—	27.9	751.2	368.4	59.7	80.7	4,816.6	345.4	6,550.4	6,550.4	—	6,550.4
1978	—	—	27.7	834.9	447.0	45.3	94.4	5,196.1	346.2	6,931.7	6,931.7	—	6,931.7
1979	—	—	34.0	1,376.2	646.7	12.2	132.7	6,713.2	805.4	8,522.5	8,522.5	—	8,522.5
1980	—	—	57.5	1,863.2	1,084.5	12.4	188.3	8,822.3	878.1	12,888.4	12,888.4	—	12,888.4
1981	—	—	71.2	2,788.2	1,285.2	29.6	199.9	10,130.2	561.9	15,076.3	15,076.3	—	15,076.3
1982	—	—	49.4	2,613.1	1,708.4	28.2	174.7	9,764.9	637.7	14,872.8	14,872.8	—	14,872.8
1983	—	—	43.2	2,133.6	^a 1,669.1	33.7	180.1	8,612.5	488.7	^a 13,357.9	^a 13,357.9	—	^a 13,357.9
1984	—	—	46.9	2,214.9	^a 2,202.2	19.2	199.4	8,788.4	505.4	^a 13,858.3	^a 13,858.3	—	^a 13,858.3
1985	—	—	68.4	2,138.1	2,383.1	9.4	185.8	9,172.2	547.8	14,488.9	14,488.9	—	14,488.9
1986	—	—	65.4	1,800.9	1,814.0	11.6	180.6	8,693.7	227.7	10,773.9	10,773.9	—	10,773.9
1987	—	—	43.9	2,048.6	1,839.6	5.9	148.0	7,489.8	315.8	11,891.3	11,891.3	—	11,891.3
1988	—	—	37.9	1,971.0	1,911.9	5.9	164.2	7,788.0	252.7	12,129.6	12,129.6	—	12,129.6
1989	—	—	34.3	2,297.4	2,189.7	4.2	165.9	8,173.8	394.7	13,280.7	13,280.7	—	13,280.7
1990	—	(a)	38.4	2,505.6	2,401.8	7.9	173.1	9,518.7	484.8	15,854.3	^a 15,854.3	—	^a 15,854.3
1991	—	(a)	28.8	2,680.7	2,377.9	5.1	178.1	9,187.6	512.8	14,851.1	14,851.1	—	14,851.1
1992	—	(a)	33.8	2,970.9	2,198.6	4.4	210.2	9,288.4	366.7	15,042.9	15,042.9	—	15,042.9
1993	—	0.4	26.8	3,091.8	1,975.4	4.7	208.6	^a 9,632.4	236.4	^a 15,078.1	^a 15,078.1	^a (a)	^a 15,078.1
1994	—	0.2	31.1	3,113.4	1,780.9	17.9	220.6	10,062.6	243.8	15,470.9	15,470.9	—	15,470.9

* Liquefied petroleum gases.

R-Reviewed data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)-Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 274. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Texas

Year	Petroleum							Nuclear Fuel	Biomass	Total Energy ^a
	Coal	Natural Gas	Heavy Oil	Petroleum			Total			
				Light Oil	Crude	Coke				
Prices in Nominal Dollars per Million Btu										
1970	—	8.34	8.47	8.43	—	—	0.51	—	0.65	0.25
1971	0.21	8.28	8.50	8.67	—	—	0.52	—	0.68	0.26
1972	0.22	8.28	8.67	8.69	—	—	0.60	—	0.72	0.28
1973	0.12	8.27	8.69	8.80	—	—	0.60	—	0.77	0.27
1974	0.17	8.45	8.80	8.88	—	—	1.02	—	0.84	0.46
1975	0.23	8.78	8.86	8.93	—	—	1.69	—	0.92	0.73
1976	0.34	8.12	8.41	8.50	—	—	1.50	—	0.96	0.95
1977	0.58	8.22	8.90	8.52	—	—	1.93	—	1.04	1.15
1978	0.68	8.36	8.76	8.51	—	—	1.77	—	1.12	1.26
1979	0.88	8.59	8.80	8.95	—	—	2.37	—	1.16	1.44
1980	1.21	8.94	8.89	8.83	—	—	3.38	—	1.34	1.86
1981	1.46	8.48	8.82	8.53	—	—	3.75	—	1.24	2.11
1982	1.60	8.14	8.20	8.56	—	—	4.20	—	1.28	2.53
1983	1.89	8.17	8.29	8.18	—	—	4.13	—	1.12	2.54
1984	1.68	8.16	8.91	8.57	—	—	5.34	—	1.25	2.54
1985	1.59	8.18	8.36	8.57	—	—	4.90	—	1.25	2.44
1986	1.55	8.27	8.35	8.57	—	—	2.35	—	0.32	1.82
1987	1.55	8.06	8.76	8.57	—	—	3.29	—	0.95	1.60
1988	1.47	8.06	8.08	8.43	—	—	2.69	0.37	—	1.74
1989	1.45	8.15	8.74	8.20	—	—	3.51	0.42	0.36	1.73
1990	1.45	8.18	8.80	8.78	—	—	5.14	0.58	0.35	1.87
1991	1.50	8.17	8.47	8.81	—	—	4.56	0.49	0.35	1.81
1992	1.48	8.20	8.16	8.41	—	—	3.35	0.52	0.35	1.67
1993	1.44	8.21	8.07	8.85	—	0.64	2.09	0.60	0.35	1.81
1994	1.35	8.15	8.10	8.76	—	0.50	2.71	0.60	0.35	1.59

Expenditures in Million Nominal Dollars

Year	Coal	Natural Gas	Heavy Oil	Light Oil	Petroleum Coke	Total	Biomass	Total Energy ^a
1970	—	286.5	0.3	0.2	—	8.5	—	287.5
1971	5.6	334.0	0.9	0.2	—	1.1	—	334.9
1972	6.1	370.0	2.0	0.4	—	7.9	—	384.2
1973	12.3	390.8	23.0	0.5	—	23.8	—	383.4
1974	28.9	605.2	51.4	0.8	—	83.8	—	678.1
1975	55.6	1,425.5	34.5	1.3	—	21.5	—	1,494.2
1976	135.3	1,264.8	57.7	3.8	—	58.4	—	1,512.4
1977	241.5	2,122.8	74.6	2.3	—	61.5	—	2,082.7
1978	483.4	2,304.0	61.4	2.3	—	77.0	—	2,899.2
1979	611.7	2,727.1	10.7	26.1	—	35.3	—	3,571.1
1980	1,116.0	3,465.1	10.9	23.0	—	33.9	—	4,538.6
1981	1,352.1	4,170.9	18.4	37.3	—	55.7	—	5,579.5
1982	1,590.4	3,969.8	42.6	53.7	—	96.5	—	5,665.6
1983	1,644.5	4,138.1	3.0	21.9	—	29.9	—	5,814.0
1984	1,694.8	3,997.8	24.2	26.1	—	48.3	—	5,682.6
1985	1,688.7	2,600.4	3.8	6.3	—	12.0	—	4,302.1
1986	1,771.4	2,241.5	8.9	11.4	—	21.3	16.1	4,038.9
1987	1,782.4	2,253.6	9.6	13.1	—	22.6	—	4,073.9
1988	1,800.8	2,279.2	33.4	56.6	—	94.9	44.6	4,245.4
1989	1,998.8	2,791.6	5.0	23.6	—	29.2	94.9	4,188.2
1990	1,933.1	2,043.5	2.3	10.0	—	12.2	100.3	4,063.1
1991	1,884.0	2,180.4	2.4	7.1	—	9.5	135.9	4,210.8
1992	1,928.1	2,648.8	4.3	5.4	1.6	11.2	91.7	4,678.8
1993	1,754.8	2,500.8	4.5	4.8	(e)	9.4	184.1	4,258.3

^a There are no direct fuel costs for hydroelectric, wind, photovoltaic, or solar thermal energy.

—No consumption.

(e)—Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 275. Energy Price and Expenditure Estimates by Source, 1970-1994, Utah

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biomass	Total ^d			
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																	
1970	0.43	0.39	0.38	0.57	1.08	8.76	2.12	2.75	0.39	\$1.08	1.87	—	—	1.82	0.25	5.31	1.31
1971	0.47	0.38	0.43	0.63	1.11	0.80	1.74	2.80	0.42	\$1.25	1.70	—	—	1.09	0.28	5.54	1.38
1972	0.52	0.33	0.44	0.65	1.09	0.79	2.42	2.84	0.45	\$1.24	1.78	—	—	1.15	0.29	5.63	1.47
1973	0.61	0.37	0.48	0.71	1.33	0.94	4.00	2.99	0.78	\$1.35	2.03	—	—	1.26	0.36	5.65	1.60
1974	1.29	0.67	0.93	0.80	2.43	1.62	3.09	4.03	1.62	\$2.18	2.85	—	—	1.83	0.43	6.08	2.23
1975	1.96	0.68	0.92	1.07	2.61	2.12	4.37	4.52	1.71	\$2.42	3.28	—	—	2.04	0.51	7.08	2.99
1976	1.51	0.78	1.16	1.30	2.68	2.32	3.51	4.68	1.67	\$2.19	3.36	—	—	2.20	0.58	8.13	2.71
1977	1.58	0.84	1.14	1.46	2.93	2.71	4.24	4.68	2.09	\$2.37	3.62	—	—	2.38	0.60	8.78	3.14
1978	1.70	0.94	1.18	1.74	3.03	2.92	4.84	5.19	1.58	\$2.54	3.77	—	—	2.48	0.60	10.01	3.42
1979	1.74	1.17	1.31	2.08	4.48	4.08	4.87	7.19	2.45	\$3.27	5.33	—	—	3.18	1.09	11.39	4.43
1980	1.97	1.16	1.28	2.33	8.54	6.59	8.89	8.80	3.79	\$4.83	7.46	—	—	4.05	1.25	13.11	5.77
1981	2.26	1.29	1.51	2.74	7.52	7.67	5.54	10.98	4.76	\$7.04	9.13	—	—	4.56	1.31	14.49	6.70
1982	2.07	1.45	1.64	3.26	7.31	7.39	6.79	10.82	3.98	\$6.38	9.01	—	—	4.78	1.45	16.12	7.28
1983	1.88	1.39	1.42	3.67	\$6.92	\$7.02	7.60	9.01	4.20	\$6.76	\$7.89	—	—	\$4.40	1.39	17.59	\$6.96
1984	1.91	1.38	1.48	4.46	\$6.88	\$6.93	7.33	9.93	4.06	\$6.47	\$7.81	—	—	\$4.48	1.30	17.78	\$7.09
1985	1.83	1.39	1.48	4.91	\$6.87	\$6.25	8.89	9.89	3.89	\$5.23	\$7.80	—	—	\$4.28	1.38	19.86	\$7.23
1986	1.75	1.42	1.46	4.41	\$5.82	4.05	8.83	8.78	2.36	\$5.54	\$6.93	—	—	\$3.81	1.42	19.68	\$6.98
1987	—	1.25	1.25	4.18	\$5.97	4.18	6.70	7.44	2.18	\$4.34	\$6.32	—	—	\$3.40	1.27	19.15	\$7.34
1988	2.02	1.26	1.34	3.94	\$6.04	3.95	6.82	7.71	1.98	\$4.58	\$6.53	—	—	\$3.28	1.27	18.41	\$6.78
1989	1.82	1.25	1.31	3.90	\$6.77	4.60	8.85	8.24	1.67	\$4.10	\$6.98	—	—	3.36	1.25	17.10	\$6.80
1990	1.84	1.18	1.24	4.17	\$6.04	5.75	8.86	9.09	2.47	\$4.41	\$7.87	—	\$3.82	\$2.83	1.18	18.08	\$7.11
1991	1.98	1.21	1.26	4.21	\$7.36	5.13	9.21	9.81	2.31	\$4.28	\$7.29	—	3.55	\$3.59	1.21	18.08	\$6.90
1992	2.00	1.21	1.28	4.18	\$7.29	4.86	9.44	8.95	1.79	\$4.72	\$7.63	—	3.85	\$3.57	1.22	15.61	\$7.11
1993	1.95	1.19	1.24	3.99	\$7.54	4.91	9.13	\$8.76	1.95	\$4.57	\$7.42	—	3.51	\$3.50	1.21	15.69	\$6.91
1994	1.90	1.14	1.19	3.54	7.09	4.56	7.86	8.69	1.94	4.58	7.44	—	3.77	3.42	1.17	15.78	6.92
Expenditures in Million Nominal Dollars																	
1970	22.7	7.4	38.1	61.8	32.4	7.8	6.7	177.5	16.3	\$25.4	282.9	—	—	344.5	-6.4	92.0	490.2
1971	23.0	10.7	33.7	87.3	42.1	6.9	5.9	190.8	11.6	\$20.8	279.3	—	—	380.3	-6.7	102.0	475.6
1972	23.6	10.6	34.2	71.4	40.6	8.8	9.8	209.7	10.7	\$24.3	303.6	—	—	408.3	-7.4	113.9	515.7
1973	30.7	17.8	48.5	77.3	62.1	9.9	14.0	229.2	14.6	\$24.3	354.1	—	—	479.9	-11.0	129.5	609.4
1974	68.7	30.8	99.5	83.8	125.8	16.8	11.2	305.8	42.5	\$39.2	641.4	—	—	724.7	-15.3	148.4	864.8
1975	71.7	38.3	109.8	113.4	157.5	22.4	15.4	357.3	49.5	\$38.8	812.1	—	—	832.7	-28.3	198.9	993.4
1976	79.4	39.0	118.4	163.7	131.8	23.8	12.9	387.2	43.6	\$40.7	890.5	—	—	921.6	-22.1	215.1	1,114.6
1977	84.4	68.8	153.2	129.8	149.9	30.7	12.0	423.2	50.2	\$48.0	717.0	—	—	897.8	-52.3	257.1	1,202.6
1978	77.6	92.3	169.9	173.5	161.4	35.2	10.8	468.4	36.9	\$49.9	792.4	—	—	1,105.6	-73.8	324.0	1,356.0
1979	73.2	150.5	223.6	212.8	260.1	52.1	27.9	622.2	43.0	\$69.3	1,064.5	—	—	1,500.9	-114.0	385.5	1,789.4
1980	77.8	188.2	266.0	266.8	319.7	85.4	23.8	788.6	74.8	\$84.3	1,368.3	—	—	1,882.0	-141.2	488.3	2,210.1
1981	89.4	178.0	266.3	284.1	310.9	103.3	30.7	897.1	25.8	\$84.0	1,449.6	—	—	1,993.3	-159.3	680.8	2,414.8
1982	47.0	188.0	244.9	327.1	274.1	115.0	37.0	898.0	14.2	\$78.3	1,413.8	—	—	1,995.6	-170.5	665.0	2,460.1
1983	35.1	192.3	227.4	390.1	\$267.7	\$128.7	41.2	754.8	31.3	\$68.8	\$1,282.2	—	—	\$1,999.7	-188.2	712.6	\$2,444.1
1984	68.0	208.6	276.6	489.7	\$276.2	\$128.3	34.9	757.7	14.5	\$69.8	\$1,299.4	—	—	\$2,055.7	-178.2	757.9	\$2,945.4
1985	64.8	238.2	293.0	439.9	\$230.8	\$133.8	43.4	778.3	7.7	\$66.1	\$1,280.2	—	—	\$2,015.1	-288.0	830.7	\$2,837.8
1986	36.9	238.1	275.0	368.0	\$236.3	\$8.4	36.0	824.7	0.7	\$71.2	\$1,070.3	—	—	\$1,710.3	-222.5	652.9	\$2,340.7
1987	—	342.0	342.0	348.4	\$235.3	\$118.8	37.8	687.1	1.5	\$62.1	\$1,140.4	—	—	\$1,830.7	-331.1	661.6	\$2,361.2
1988	63.8	387.5	451.3	376.3	\$258.0	\$110.4	33.2	735.7	0.6	\$67.5	\$1,165.4	—	—	\$2,023.0	-367.6	865.9	\$2,551.2
1989	80.6	391.4	472.0	408.0	\$243.7	\$131.7	41.9	749.2	0.2	\$68.9	\$1,232.6	—	—	\$2,090.7	-367.7	853.9	\$2,576.9
1990	68.8	394.2	463.0	418.4	\$243.8	\$171.8	32.4	794.2	3.1	\$63.8	\$1,406.5	—	\$6.8	\$2,387.9	-374.7	890.9	\$2,748.8
1991	83.5	377.9	461.1	512.8	\$234.1	\$170.3	23.9	795.4	0.9	\$61.7	\$1,425.7	—	7.8	\$2,387.5	-357.7	857.3	\$2,882.1
1992	59.8	403.4	463.2	474.7	\$242.6	\$158.3	22.7	842.4	0.2	\$77.9	\$1,442.2	—	7.5	\$2,387.7	-395.5	889.1	\$2,860.2
1993	52.6	406.0	458.6	512.6	\$237.3	\$152.6	25.0	\$86.8	\$1.4	\$78.5	\$1,437.8	—	7.3	\$2,437.8	-390.0	896.7	\$2,926.5
1994	51.2	386.6	449.8	457.8	346.0	133.2	21.9	912.0	1.4	78.2	1,456.8	—	7.2	2,410.3	-385.5	844.5	2,950.3

^a Liquefied petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used in electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 276. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Utah

Year	Primary Energy								Electricity	Total Energy ^c
	Coal	Natural Gas	Petroleum				Biomass ^b	Total ^c		
			Distillate Fuel	Kerosene	LPG ^a	Total				
Prices in Nominal Dollars per Million Btu										
1970	0.78	0.81	1.29	2.82	2.31	2.85	—	6.89	6.89	1.62
1971	0.73	0.83	1.26	3.00	1.64	1.70	—	6.98	6.98	1.62
1972	0.73	0.96	1.38	3.17	2.78	2.37	—	7.08	6.82	1.77
1973	0.72	1.04	1.58	3.57	4.90	3.57	—	1.85	6.97	1.99
1974	1.23	1.12	2.51	4.80	3.68	3.12	—	1.29	7.57	2.11
1975	1.39	1.28	2.84	5.16	5.77	4.31	—	1.49	8.84	2.37
1976	1.62	1.45	2.94	4.77	4.18	3.67	—	1.59	10.01	2.57
1977	1.71	1.72	3.25	5.50	5.00	4.07	—	1.94	10.95	3.05
1978	2.20	2.02	3.30	5.85	5.08	4.12	—	2.16	12.78	3.88
1979	3.65	2.32	4.51	6.22	6.74	5.59	—	2.54	14.24	4.22
1980	3.82	2.81	6.88	—	6.88	6.88	—	2.89	16.82	4.84
1981	4.34	3.00	8.22	15.04	7.75	8.40	—	3.20	18.45	5.51
1982	3.61	3.63	8.24	15.05	9.81	9.25	—	3.95	19.70	7.33
1983	3.40	3.66	6.68	14.09	9.95	8.87	—	4.19	21.36	7.09
1984	3.76	6.25	6.25	14.01	6.47	8.15	—	5.39	21.71	8.16
1985	3.95	4.82	7.38	18.24	8.46	9.07	—	4.87	22.80	7.69
1986	3.42	4.89	4.04	8.06	6.83	6.48	—	4.93	23.27	8.37
1987	2.62	4.80	3.73	6.35	7.34	6.65	—	4.89	23.28	6.73
1988	2.63	4.73	3.65	5.63	7.49	6.61	—	4.78	22.85	6.75
1989	3.01	4.73	5.43	12.17	12.23	9.88	—	4.93	21.68	6.43
1990	3.88	4.86	7.38	16.13	8.19	8.98	4.75	4.94	24.91	8.18
1991	3.08	5.07	6.08	15.36	9.59	8.82	4.75	5.12	25.83	8.08
1992	2.80	5.05	7.09	16.85	10.08	9.04	4.75	5.10	26.43	8.30
1993	2.47	4.75	4.32	9.24	10.08	6.67	4.75	4.77	26.08	7.83
1994	2.26	4.84	4.32	9.67	10.58	7.33	4.75	4.67	26.25	8.13
Expenditures in Million Nominal Dollars										
1970	6.7	37.9	3.1	8.1	6.9	7.2	—	48.9	39.5	84.4
1971	1.5	43.5	1.8	6.2	5.1	7.1	—	62.1	44.2	96.3
1972	1.0	44.0	1.8	0.2	8.8	10.8	—	65.8	47.8	103.8
1973	1.2	48.0	2.6	0.2	12.9	15.9	—	65.2	54.9	118.1
1974	3.7	53.9	4.7	0.1	8.8	13.8	—	71.2	63.5	134.7
1975	1.8	72.8	5.9	0.1	12.1	18.1	—	82.8	75.2	167.5
1976	2.5	81.6	5.8	0.1	9.1	14.9	—	109.0	81.3	200.3
1977	3.8	88.2	6.4	0.1	8.5	16.0	—	77.1	182.3	179.3
1978	5.0	92.2	6.5	0.1	8.8	15.4	—	112.5	125.3	236.9
1979	16.2	134.3	6.1	0.4	7.9	14.4	—	165.0	155.9	320.9
1980	8.8	188.8	4.8	—	11.1	15.8	—	179.4	179.8	389.4
1981	6.8	176.8	3.5	2.2	10.8	18.5	—	201.2	216.4	416.6
1982	5.6	156.7	6.6	3.9	13.8	23.8	—	188.0	254.4	440.4
1983	5.2	234.3	6.4	3.2	17.8	27.3	—	268.8	277.3	544.2
1984	7.9	310.6	6.1	2.7	18.8	28.3	—	346.7	285.7	632.4
1985	7.2	285.3	3.1	0.9	21.8	36.0	—	317.8	318.1	627.5
1986	5.3	267.4	1.8	0.2	15.7	17.7	—	290.4	318.7	607.1
1987	2.7	206.4	2.2	0.4	17.4	20.0	—	229.1	318.1	546.3
1988	4.2	215.8	3.0	0.3	17.3	20.8	—	240.6	324.0	584.6
1989	5.6	232.2	5.8	0.4	21.0	27.2	—	264.9	308.0	572.8
1990	6.5	228.3	6.7	0.4	14.1	26.3	4.75	282.8	388.8	585.8
1991	7.6	275.1	5.4	0.4	14.4	21.3	4.2	310.2	317.8	627.2
1992	5.0	243.2	4.8	0.2	12.2	17.1	4.6	271.8	314.0	595.9
1993	2.4	285.8	5.8	0.2	7.3	11.1	4.2	295.4	328.0	609.4
1994	2.0	242.7	2.8	0.3	6.2	9.4	6.1	299.1	346.1	608.1

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

Revised data.

—No consumption.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 277. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Utah

Year	Primary Energy								Electricity	Total Energy ^d	
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.28	0.63	1.05	0.71	1.20	2.79	0.27	0.94	0.70	5.32	1.78
1971	0.37	0.66	1.09	0.70	1.24	2.80	0.28	0.95	0.72	5.47	1.75
1972	0.33	0.76	1.09	0.70	1.13	2.64	0.28	0.90	0.78	5.62	2.04
1973	0.37	0.64	1.33	0.82	1.26	2.69	0.63	1.16	0.86	5.72	2.14
1974	0.72	0.96	2.27	2.11	2.07	4.03	1.59	2.05	1.52	6.93	2.66
1975	0.74	1.06	2.49	2.35	2.36	4.52	1.95	2.22	1.94	7.15	3.26
1976	0.37	1.61	2.64	2.60	2.59	4.68	1.90	2.64	1.86	7.62	3.16
1977	1.06	1.82	2.81	2.74	2.74	5.09	2.13	2.69	2.18	8.91	3.82
1978	1.09	1.74	2.99	2.82	2.49	5.10	1.60	2.61	2.11	10.32	4.30
1979	1.26	2.43	4.24	3.75	4.36	7.19	2.63	3.64	2.69	11.86	6.02
1980	1.67	5.12	6.42	5.82	4.36	9.46	3.49	5.14	4.39	18.22	7.79
1981	1.21	4.97	7.73	6.06	4.79	10.89	—	7.50	4.46	15.03	11.20
1982	1.47	3.65	7.62	6.61	5.94	10.82	4.70	7.89	3.97	16.79	7.89
1983	1.40	4.01	^R 6.49	7.42	6.52	9.01	4.49	^R 6.25	^R 4.51	16.54	^R 8.87
1984	1.47	4.61	^R 6.39	6.87	6.26	8.93	4.00	^R 6.23	^R 4.51	16.77	^R 10.61
1985	1.39	4.57	^R 6.30	^R 6.82	6.22	9.08	3.94	^R 6.48	^R 4.51	16.89	^R 11.79
1986	1.29	4.99	^R 3.76	^R 4.22	6.76	6.78	2.40	^R 4.10	^R 3.80	20.49	^R 12.77
1987	1.08	4.61	^R 4.21	^R 4.57	6.22	7.44	2.19	^R 4.35	^R 4.27	20.06	^R 10.74
1988	1.12	3.77	^R 3.99	^R 4.35	6.21	7.71	1.90	^R 4.31	^R 3.58	19.91	^R 9.80
1989	1.19	3.83	^R 4.64	^R 5.16	6.08	8.24	1.90	^R 5.22	^R 3.86	19.87	^R 9.68
1990	1.29	3.86	^R 5.81	^R 6.99	3.38	8.89	2.51	^R 4.85	^R 3.79	17.35	^R 9.53
1991	1.14	4.19	^R 5.13	^R 5.67	3.66	8.61	2.51	^R 5.72	^R 3.90	17.10	^R 9.14
1992	1.09	4.08	^R 4.97	^R 6.57	3.82	8.95	1.79	^R 5.53	^R 3.68	16.78	^R 9.65
1993	1.11	3.76	^R 4.97	^R 6.61	3.79	^R 8.76	1.86	^R 4.92	^R 3.70	16.78	^R 9.67
1994	1.16	3.59	4.66	6.06	3.27	6.93	1.94	4.02	3.59	16.69	8.77
Expenditures in Million Nominal Dollars											
1970	0.6	6.8	3.2	0.2	4.8	2.9	1.4	8.2	14.8	34.3	49.0
1971	1.4	8.4	3.2	0.3	6.6	2.6	1.6	10.4	17.3	37.9	56.1
1972	0.9	5.6	5.4	0.3	6.6	2.9	1.4	10.8	17.0	42.7	59.7
1973	1.2	7.2	6.5	0.3	6.6	2.9	3.1	15.5	23.6	47.2	71.0
1974	4.0	5.4	15.6	0.4	0.9	2.6	9.8	29.4	38.8	51.8	80.6
1975	1.5	6.2	18.8	0.4	8.9	5.6	16.7	36.8	46.4	106.9	106.9
1976	2.9	22.4	18.8	0.4	1.0	4.9	11.2	38.3	61.7	72.8	134.5
1977	4.5	16.7	20.8	0.3	0.8	5.1	14.9	42.6	63.2	85.8	149.6
1978	4.6	14.1	21.5	0.3	1.1	4.6	9.7	37.2	65.9	105.3	161.2
1979	10.3	(9)	21.0	1.2	6.9	6.0	10.5	39.7	50.0	125.7	175.7
1980	3.8	1.8	36.4	1.1	1.8	4.1	24.4	69.4	74.7	141.7	216.4
1981	3.6	1.8	8.3	2.2	1.2	5.1	—	17.7	23.1	153.8	176.9
1982	3.9	74.9	17.0	1.7	1.6	6.6	1.1	27.1	105.9	165.6	209.5
1983	4.3	34.6	^R 29.7	0.4	2.2	6.2	6.3	^R 44.7	^R 63.5	211.9	^R 295.4
1984	5.7	42.5	^R 29.8	0.5	2.5	3.6	3.4	^R 32.7	^R 67.0	273.4	^R 361.3
1985	4.9	41.7	^R 18.8	^R 6.2	3.3	4.3	1.1	^R 38.3	^R 75.9	315.0	^R 400.9
1986	3.7	21.3	^R 19.5	0.1	2.7	3.2	0.6	^R 29.4	^R 32.2	327.3	^R 379.5
1987	2.0	73.8	^R 16.1	^R 0.9	2.6	3.6	1.5	^R 25.3	^R 102.1	332.9	^R 435.0
1988	8.3	73.1	^R 15.0	0.1	2.5	3.6	0.6	^R 22.7	^R 99.1	342.0	^R 441.0
1989	4.1	68.7	^R 12.4	0.1	2.0	3.9	0.1	^R 15.5	^R 91.4	335.0	^R 424.4
1990	4.9	^R 66.7	^R 12.2	0.2	2.3	4.8	1.2	^R 30.3	^R 85.8	318.0	^R 414.8
1991	5.2	^R 66.7	^R 14.0	^R 0.3	2.3	3.9	0.3	^R 30.7	^R 118.7	325.0	^R 437.7
1992	3.7	78.0	^R 13.8	(9)	1.9	3.4	0.2	^R 19.2	^R 95.6	335.0	^R 430.6
1993	2.0	^R 91.7	^R 10.6	0.1	1.1	^R 0.9	0.7	^R 13.6	^R 107.2	339.0	^R 446.2
1994	1.8	101.8	13.1	0.1	0.9	1.0	0.2	15.2	118.8	361.0	479.8

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.^RRevised data.

—No consumption.

(9)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 278. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Utah

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Nuclear ^c	Total ^c		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	0.42	0.29	0.40	0.32	0.57	0.66	0.71	1.20	5.08	2.75	0.80	0.57	0.70	—	0.46	3.75	8.68
1971	0.47	0.37	0.45	0.36	0.61	0.66	0.70	1.24	5.27	2.80	0.87	0.62	0.83	—	0.52	3.90	9.03
1972	0.52	0.33	0.47	0.30	0.63	0.65	0.70	1.13	5.68	2.84	0.87	0.60	0.84	—	0.54	4.09	9.67
1973	0.61	0.37	0.54	0.42	0.66	0.68	0.82	1.25	5.33	2.99	0.83	0.62	0.96	—	0.62	4.08	9.78
1974	1.29	0.72	1.17	0.48	1.70	1.06	2.11	2.07	7.22	4.03	1.02	0.67	1.92	—	1.20	4.49	1.33
1975	1.36	0.74	1.26	0.73	1.79	2.10	2.30	2.30	7.48	4.82	1.78	1.41	2.04	—	1.38	5.39	1.68
1976	1.51	0.97	1.39	1.02	1.62	2.44	2.60	2.69	7.06	4.68	1.76	1.57	2.07	—	1.51	6.27	1.73
1977	1.56	1.08	1.47	1.24	1.75	2.57	2.74	3.09	6.97	4.38	2.04	1.84	2.29	—	1.69	6.90	2.00
1978	1.70	1.00	1.53	1.49	1.82	2.60	2.82	3.40	7.60	5.10	1.83	1.83	2.17	—	1.74	7.53	2.16
1979	1.74	1.25	1.59	1.81	2.45	3.54	3.75	4.36	10.21	7.10	2.36	2.00	3.15	—	2.19	8.67	2.71
1980	1.87	1.87	1.77	2.88	3.86	5.69	5.82	4.36	14.39	9.40	3.71	2.85	4.44	—	2.74	10.22	3.46
1981	2.26	1.21	1.90	2.40	4.50	6.23	6.56	4.79	18.00	10.99	4.76	4.21	5.72	—	3.01	11.50	4.00
1982	2.07	1.47	1.80	2.81	4.15	6.13	6.51	5.94	17.25	10.82	3.93	3.94	5.58	—	3.13	13.05	4.54
1983	1.50	1.49	1.84	2.92	4.17	6.68	7.42	6.82	18.88	9.01	4.08	3.79	6.77	—	3.28	13.48	4.60
1984	1.91	1.47	1.79	3.27	4.87	6.67	8.87	6.26	17.83	8.93	4.00	4.19	5.67	—	3.25	13.36	4.39
1985	1.93	1.28	1.77	3.81	4.85	6.43	6.82	6.22	17.61	8.09	3.94	3.68	5.99	—	3.35	14.36	4.50
1986	1.75	1.29	1.62	3.16	4.38	6.10	6.22	6.78	15.59	6.78	2.40	1.53	4.60	—	3.06	14.90	4.85
1987	—	1.08	1.08	2.88	3.23	6.43	6.57	6.22	12.70	7.44	2.16	1.50	4.23	—	3.15	14.35	4.40
1988	2.02	1.12	1.75	2.87	3.32	6.22	6.21	14.61	7.71	1.98	1.48	1.48	4.23	—	3.20	13.27	4.27
1989	1.92	1.19	1.68	3.04	2.73	6.03	6.18	6.68	14.48	6.24	1.66	1.74	4.28	—	3.26	11.77	4.05
1990	1.64	1.23	1.64	3.29	2.70	6.31	6.39	6.38	14.68	6.88	2.81	2.02	4.96	1.78	3.02	11.13	4.14
1991	1.99	1.14	1.78	3.44	3.25	6.50	6.67	6.68	16.79	8.81	2.31	2.35	4.41	1.80	3.10	11.27	4.22
1992	2.00	1.09	1.74	3.63	2.86	6.41	6.57	6.62	12.43	8.95	1.78	2.10	4.51	1.78	3.16	10.90	4.33
1993	1.95	1.11	1.62	3.40	2.81	6.44	6.51	6.79	18.94	8.78	1.98	1.82	4.87	1.78	3.03	11.07	4.23
1994	1.90	1.16	1.59	2.56	2.81	5.32	5.48	7.09	18.18	8.83	1.94	2.34	4.80	1.78	2.70	11.23	4.05
Expenditures in Million Nominal Dollars																	
1970	22.7	3.6	26.4	18.5	8.0	8.8	8.8	6.1	2.9	3.8	8.9	1.8	27.1	—	70.8	18.2	88.2
1971	23.0	4.9	27.9	17.6	7.5	8.4	8.9	6.1	2.7	3.7	8.9	1.8	32.1	—	77.6	18.8	97.5
1972	23.6	4.7	28.2	20.6	9.9	8.5	1.2	0.3	3.1	3.9	7.1	1.9	35.2	—	84.6	23.4	108.0
1973	30.7	7.2	37.9	20.7	8.1	14.1	1.5	0.4	3.4	3.9	10.0	2.3	43.7	—	102.4	28.3	130.7
1974	68.7	10.8	79.6	22.9	17.7	35.5	1.9	1.5	4.6	3.6	31.0	3.2	98.6	—	201.3	30.1	231.5
1975	71.7	8.5	80.2	28.9	14.5	48.9	1.6	2.3	3.3	6.3	38.5	6.2	106.7	—	216.8	51.2	268.0
1976	70.4	14.8	85.2	47.2	17.9	41.7	1.2	2.7	3.5	6.3	30.9	7.2	111.9	—	252.7	51.0	303.7
1977	84.4	15.3	99.7	49.1	21.1	48.2	1.4	2.4	4.5	6.6	34.1	8.9	126.2	—	277.1	71.3	348.4
1978	77.6	20.4	98.0	57.7	21.7	50.1	1.4	0.8	6.2	6.9	24.5	8.0	117.7	—	273.4	92.4	365.8
1979	73.2	24.1	97.3	66.9	30.9	55.1	2.0	18.9	7.4	7.9	29.3	9.6	170.2	—	336.9	114.9	451.2
1980	77.9	12.0	89.9	36.0	38.8	79.9	2.2	11.8	8.2	8.8	48.1	13.4	200.8	—	378.4	147.7	526.1
1981	89.4	21.6	111.2	95.9	27.7	82.2	2.6	17.7	11.1	8.6	22.3	10.3	183.4	—	393.8	199.7	593.2
1982	47.0	27.3	74.3	88.5	25.7	74.7	3.7	19.6	9.7	10.3	13.1	8.7	186.5	—	326.3	227.0	553.3
1983	38.1	21.0	59.2	117.6	22.7	69.7	0.4	18.8	10.0	8.4	17.1	8.2	158.3	—	330.1	223.4	553.5
1984	68.0	19.9	87.9	135.6	40.6	72.4	0.3	10.2	11.0	7.1	7.2	10.6	159.4	—	383.1	199.6	582.9
1985	64.8	13.8	78.3	111.8	50.8	61.3	0.1	16.8	18.3	10.6	(8)	8.7	139.5	—	289.8	286.7	576.3
1986	36.8	10.7	47.6	74.4	37.7	46.3	0.3	15.8	8.9	7.5	(8)	3.9	119.3	—	241.2	226.9	468.2
1987	—	12.1	12.1	98.7	30.4	39.6	0.1	15.1	8.2	7.9	(8)	3.5	106.2	—	186.1	212.6	398.7
1988	63.8	15.3	79.1	86.6	23.5	47.1	0.4	11.9	8.1	8.5	(8)	3.3	103.7	—	268.6	229.9	498.6
1989	60.6	18.4	79.1	109.0	30.3	45.2	(8)	17.5	9.2	8.4	(8)	4.4	115.1	—	297.2	212.9	510.1
1990	60.8	19.3	80.1	115.8	24.7	55.3	0.2	14.4	8.6	8.4	(8)	3.4	118.0	1.0	215.9	208.9	424.8
1991	63.5	13.4	77.0	141.9	61.9	60.6	0.1	6.8	8.9	9.7	(8)	5.8	153.9	1.6	374.4	215.3	589.7
1992	59.8	13.2	73.1	148.2	32.1	61.3	(8)	7.4	11.6	9.7	(8)	6.9	129.1	1.0	349.3	219.1	568.4
1993	52.6	19.9	71.4	140.5	53.4	58.0	0.1	15.2	11.6	11.4	10.7	5.3	136.5	1.1	349.6	223.7	573.2
1994	51.2	22.2	73.4	91.6	38.9	56.4	0.1	13.2	12.2	14.6	1.2	5.7	136.5	1.1	302.6	237.4	540.0

^a Liquefied petroleum gases^b "Other" in the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990

R=Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

(8)=Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 279. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Utah

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	4.26	—	2.17	1.32	0.78	1.39	5.06	2.75	0.26	2.24	2.26	—	2.26
1971	0.37	—	2.21	1.40	0.80	1.24	5.27	2.80	0.27	2.32	2.32	—	2.32
1972	0.33	—	2.19	1.39	0.79	1.13	6.66	2.84	0.28	2.39	2.39	—	2.39
1973	0.37	—	2.36	1.63	0.94	1.25	6.33	2.99	0.62	2.56	2.54	—	2.54
1974	0.72	—	3.23	2.62	1.82	2.07	7.22	4.03	1.55	3.59	3.58	—	3.58
1975	6.74	—	3.48	2.87	2.12	2.39	7.48	4.52	1.84	3.97	3.97	—	3.97
1976	0.67	—	3.59	2.64	2.32	2.59	7.05	4.68	1.45	4.11	4.11	—	4.11
1977	1.06	—	3.97	3.21	2.71	3.09	6.97	4.66	2.01	4.37	4.37	—	4.37
1978	—	—	4.26	3.35	2.92	3.46	7.60	5.10	1.63	4.57	4.57	—	4.57
1979	—	—	5.73	4.66	4.08	4.36	10.21	7.19	—	6.37	6.37	—	6.37
1980	—	—	9.82	7.02	6.59	4.39	14.38	9.80	—	8.82	8.82	—	8.82
1981	—	—	10.64	8.15	7.67	4.79	16.00	10.98	—	10.06	10.06	—	10.06
1982	—	—	10.62	7.91	7.36	5.94	17.25	10.82	—	9.89	9.89	—	9.89
1983	—	—	10.44	7.25	^R 7.02	6.52	16.98	9.01	4.32	^R 8.42	^R 8.42	—	^R 8.42
1984	—	—	10.27	7.11	^R 6.63	6.26	17.63	8.63	4.18	^R 8.30	^R 8.30	—	^R 8.30
1985	—	—	9.99	6.82	6.25	6.22	17.61	9.89	—	8.29	8.29	—	8.29
1986	—	—	8.41	6.60	4.05	6.76	16.59	6.79	—	6.39	6.39	—	6.39
1987	—	—	7.55	6.97	4.19	6.22	12.70	7.44	—	6.78	6.78	—	6.78
1988	—	—	7.41	7.27	3.85	6.21	14.61	7.71	—	6.98	6.98	—	6.98
1989	—	—	8.29	7.62	4.60	6.66	14.46	8.24	2.73	7.49	7.49	—	7.49
1990	—	6.29	9.32	8.78	5.76	8.36	14.69	9.69	2.82	8.39	8.39	—	8.39
1991	—	5.14	6.71	6.30	5.13	6.98	16.79	8.81	—	7.97	7.97	—	7.97
1992	—	5.03	6.54	6.20	4.96	6.82	19.43	8.95	—	8.06	8.06	—	8.06
1993	—	4.58	8.24	8.07	4.91	8.79	18.94	^R 8.76	—	^R 7.96	^R 7.96	—	^R 7.96
1994	—	4.69	7.96	7.89	4.56	7.56	12.18	8.53	—	8.00	8.00	—	8.00
Expenditures in Million Nominal Dollars													
1970	(s)	—	19	22.1	7.8	(s)	9.8	170.8	(s)	307.5	297.5	—	307.5
1971	(s)	—	19	26.6	8.6	(s)	8.2	184.1	0.1	226.6	226.6	—	226.6
1972	(s)	—	20	24.9	8.6	(s)	6.9	203.0	0.1	244.3	244.3	—	244.3
1973	(s)	—	20	36.6	9.9	(s)	6.4	222.4	0.1	277.5	277.5	—	277.5
1974	(s)	—	31	69.6	16.8	0.1	8.3	299.5	0.5	398.1	398.1	—	398.1
1975	(s)	—	28	71.7	22.4	0.1	7.2	346.8	0.8	461.0	461.0	—	461.0
1976	(s)	—	29	66.3	23.6	0.2	7.6	376.0	0.8	476.1	476.1	—	476.1
1977	(s)	—	35	73.5	30.7	0.1	8.2	411.5	0.7	528.1	528.1	—	528.1
1978	—	—	36	83.1	35.2	0.2	9.6	457.6	0.8	590.2	590.2	—	590.2
1979	—	—	42	157.4	52.1	0.2	13.5	608.3	—	835.7	835.7	—	835.7
1980	—	—	63	208.8	86.4	0.2	16.8	757.0	—	1,110.3	1,110.3	—	1,110.3
1981	—	—	77	213.4	109.3	1.0	20.3	882.4	—	1,228.1	1,228.1	—	1,228.1
1982	—	—	42	174.1	115.0	1.8	17.7	862.1	—	1,194.9	1,194.9	—	1,194.9
1983	—	—	54	149.1	^R 128.7	2.5	18.3	739.2	7.9	^R 1,051.0	^R 1,051.0	—	^R 1,051.0
1984	—	—	40	163.7	^R 126.3	2.6	20.2	747.0	4.0	^R 1,069.9	^R 1,069.9	—	^R 1,069.9
1985	—	—	47	168.5	133.0	2.2	15.8	798.7	—	1,085.9	1,085.9	—	1,085.9
1986	—	—	47	158.6	96.4	1.9	16.3	614.0	—	903.9	903.9	—	903.9
1987	—	—	38	170.9	116.8	1.3	15.0	675.5	—	983.4	983.4	—	983.4
1988	—	—	42	180.7	110.4	1.6	16.6	723.6	—	1,046.0	1,046.0	—	1,046.0
1989	—	—	44	175.1	131.7	1.4	16.9	739.9	(s)	1,069.5	1,069.5	—	1,069.5
1990	—	(s)	50	288.1	171.0	1.8	17.8	789.2	8.9	1,244.2	1,244.2	—	1,244.2
1991	—	(s)	62	250.7	170.3	1.4	18.1	781.9	—	1,227.6	1,227.6	—	1,227.6
1992	—	0.1	57	261.1	156.3	1.3	21.3	829.3	—	1,275.1	1,275.1	—	1,275.1
1993	—	0.2	47	263.5	152.6	1.3	21.2	^R 854.3	—	^R 1,297.8	^R 1,297.8	—	^R 1,297.8
1994	—	0.3	35	274.1	136.2	1.6	22.4	898.2	—	1,333.5	1,333.5	—	1,333.5

^a Liquefied petroleum gases

R-Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(s)=Value less than 0.05 million nominal dollars

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 280. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Utah

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy *
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.23	0.31	0.26	0.32	—	0.26	—	—	0.26
1971	0.26	0.32	0.26	0.33	—	0.26	—	—	0.26
1972	0.29	0.35	0.27	0.34	—	0.27	—	—	0.28
1973	0.34	0.32	0.65	0.17	—	0.62	—	—	0.36
1974	0.40	0.41	1.63	2.24	—	1.71	—	—	0.43
1975	0.46	0.41	1.54	2.31	—	1.59	—	—	0.61
1976	0.64	0.94	1.49	2.41	—	1.54	—	—	0.68
1977	0.74	1.09	1.98	2.80	—	1.98	—	—	0.80
1978	0.85	1.32	1.70	2.51	—	1.72	—	—	0.90
1979	1.03	1.61	2.64	4.73	—	2.74	—	—	1.09
1980	1.14	2.46	3.69	6.29	—	5.08	—	—	1.26
1981	1.27	2.29	4.08	7.33	—	6.48	—	—	1.31
1982	1.41	2.43	4.77	6.94	—	6.62	—	—	1.45
1983	1.35	3.13	4.59	6.11	—	6.11	—	—	1.39
1984	1.34	3.72	—	6.09	—	6.09	—	—	1.35
1985	1.37	4.12	3.71	6.67	—	6.92	—	—	1.39
1986	1.41	3.10	2.09	3.62	—	3.55	—	—	1.42
1987	1.25	3.07	—	4.12	—	4.12	—	—	1.27
1988	1.27	2.89	—	3.98	—	3.98	—	—	1.27
1989	1.24	3.14	—	4.45	—	4.45	—	—	1.25
1990	1.17	3.94	—	5.42	—	5.42	—	—	1.18
1991	1.19	1.62	—	4.80	—	4.90	—	—	1.21
1992	1.21	1.73	—	4.64	—	4.84	—	—	1.22
1993	1.19	2.18	—	5.39	—	5.59	—	—	1.21
1994	1.14	2.32	—	4.67	—	4.67	—	—	1.17
Expenditures in Million Nominal Dollars									
1970	2.5	1.6	2.9	(9)	—	2.9	—	—	6.8
1971	2.9	0.7	3.1	(9)	—	3.1	—	—	6.7
1972	4.0	1.2	2.2	(9)	—	2.2	—	—	7.4
1973	8.2	1.4	1.4	(9)	—	1.4	—	—	11.0
1974	12.2	1.5	1.2	0.3	—	1.5	—	—	15.3
1975	22.6	1.8	1.5	0.1	—	1.6	—	—	26.2
1976	18.6	2.6	0.7	0.1	—	0.8	—	—	22.1
1977	43.1	5.5	3.6	0.1	—	3.6	—	—	52.3
1978	62.4	9.5	1.9	0.1	—	2.0	—	—	73.8
1979	99.9	9.6	4.1	0.4	—	4.5	—	—	114.0
1980	127.8	9.8	1.4	2.4	—	3.8	—	—	141.2
1981	145.7	6.6	0.6	2.5	—	3.0	—	—	153.3
1982	161.2	6.9	(9)	2.4	—	2.4	—	—	170.5
1983	181.7	3.7	(9)	2.8	—	2.9	—	—	189.2
1984	175.1	1.9	—	2.0	—	2.0	—	—	176.2
1985	284.8	1.9	0.6	1.8	—	2.4	—	—	288.0
1986	216.4	1.3	0.1	2.7	—	2.6	—	—	222.5
1987	325.1	1.4	—	4.5	—	4.5	—	—	331.1
1988	364.7	0.6	—	2.4	—	2.4	—	—	367.6
1989	363.3	2.2	—	2.2	—	2.2	—	—	367.7
1990	383.6	4.6	—	2.6	—	2.6	—	—	378.7
1991	351.4	6.9	—	2.3	—	2.3	—	—	362.7
1992	381.5	12.3	—	1.7	—	1.7	—	—	395.5
1993	382.7	14.6	—	1.7	—	1.7	—	—	399.0
1994	372.5	21.3	—	1.4	—	1.4	—	—	395.5

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

—No consumption.

(9)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 281. Energy Price and Expenditure Estimates by Source, 1970-1994, Vermont

Year	Primary Energy														Electric Utility Pool	Electricity Purchased by End-Users	Total Energy ^c	
	Coal			Natural Gas	Petroleum							Nuclear Pool	Biomass	Total ^d				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total							
Prices in Nominal Dollars per Million Btu																		
1970	—	0.72	0.72	1.41	1.37	0.75	2.15	3.00	0.68	R 1.64	1.87	—	—	1.92	0.72	6.05	2.40	
1971	—	0.80	0.80	1.46	1.44	0.79	2.16	3.20	0.74	R 1.74	2.00	—	—	2.04	0.82	6.21	2.56	
1972	—	0.81	0.81	1.39	1.46	1.25	2.16	3.20	0.72	R 2.02	2.13	0.07	—	2.09	0.59	6.65	2.66	
1973	—	1.04	1.04	1.30	1.67	1.32	2.88	3.34	0.72	R 2.35	2.31	0.18	—	1.89	0.28	7.54	2.90	
1974	—	1.66	1.66	1.30	2.82	1.82	4.80	4.47	1.06	R 3.32	3.46	0.17	—	2.47	0.39	8.17	4.14	
1975	—	2.35	2.35	1.87	3.77	2.22	4.73	4.68	1.82	R 3.82	3.84	0.31	—	2.41	0.36	10.33	4.40	
1976	—	1.67	1.67	2.46	2.97	2.34	4.40	4.91	1.98	R 4.03	3.70	0.35	—	2.64	0.39	10.91	4.86	
1977	—	2.85	2.85	2.80	3.38	2.89	5.04	4.96	2.21	R 4.39	4.32	0.34	1.84	2.81	0.39	11.28	4.86	
1978	—	2.25	2.25	3.10	3.58	2.97	4.02	5.13	2.08	R 5.03	4.22	0.37	1.12	3.02	0.39	12.09	6.18	
1979	—	2.36	2.36	3.44	5.07	4.05	6.15	7.28	2.81	R 5.07	6.82	0.41	1.55	4.05	0.49	12.29	6.82	
1980	—	2.46	2.46	5.62	7.81	6.56	7.58	10.12	4.45	R 6.88	8.42	0.88	1.74	6.67	0.69	14.33	9.29	
1981	—	3.19	3.19	6.27	8.60	7.83	8.72	11.22	4.97	R 11.42	9.88	0.58	1.24	8.40	0.63	17.22	10.26	
1982	—	2.64	2.64	6.33	6.26	7.54	8.08	10.52	4.73	R 10.93	9.45	0.69	1.28	8.36	0.74	18.74	10.93	
1983	—	2.62	2.62	6.89	R 6.34	8.01	10.22	9.94	4.68	R 10.23	R 9.20	0.60	1.12	R 6.00	0.69	19.05	R 10.73	
1984	—	2.87	2.87	5.84	R 6.41	R 6.46	10.71	9.51	5.06	R 9.68	R 8.85	0.59	1.25	R 5.89	0.71	19.22	R 10.63	
1985	—	2.84	2.84	5.59	R 6.08	6.18	11.71	9.53	4.84	R 8.41	R 8.88	0.44	0.76	R 5.82	0.72	20.41	R 10.51	
1986	—	2.92	2.92	5.00	R 6.27	4.25	10.39	7.47	2.92	R 6.89	R 6.91	0.70	0.32	R 5.25	0.73	22.51	R 9.13	
1987	—	3.37	3.37	4.89	R 6.18	4.18	10.38	7.58	3.15	R 5.95	R 6.83	0.89	0.85	R 4.74	0.73	24.16	R 9.45	
1988	—	3.40	3.40	4.51	R 6.15	4.04	9.37	7.87	2.54	R 6.06	R 7.04	0.71	0.87	R 4.66	0.74	23.89	R 9.51	
1989	—	3.12	3.12	4.66	R 6.70	5.33	12.19	6.84	2.89	R 6.53	R 7.08	0.62	2.92	5.40	0.76	23.48	R 10.26	
1990	—	3.79	3.79	4.89	R 6.08	6.69	13.14	8.88	3.38	R 10.45	R 9.23	0.67	2.22	R 5.88	0.68	24.24	R 11.38	
1991	—	3.07	3.07	4.51	R 7.81	5.07	14.20	9.48	2.51	R 6.58	R 6.74	0.56	2.19	R 5.61	0.65	25.30	R 10.96	
1992	—	2.91	2.91	5.03	R 7.09	4.72	11.75	8.39	2.59	R 6.97	R 6.36	0.53	2.22	R 5.58	0.62	25.86	R 10.76	
1993	—	3.82	3.82	4.89	R 7.00	5.16	11.62	R 9.08	2.62	R 9.04	R 6.19	0.54	1.80	R 5.61	0.60	26.47	R 10.58	
1994	—	3.08	3.08	6.40	7.01	4.79	10.95	9.17	2.64	7.04	6.22	0.49	1.80	6.24	0.54	26.73	10.73	
Expenditures in Million Nominal Dollars																		
1970	—	1.5	1.5	3.8	48.7	8.5	4.4	82.5	2.7	R 9.8	146.8	—	—	859.8	-2.2	53.9	342.6	
1971	—	1.6	1.6	4.4	45.1	8.5	4.9	89.7	4.2	R 9.6	154.2	—	—	180.2	-2.3	61.9	219.2	
1972	—	1.2	1.2	5.3	48.4	1.8	8.7	85.5	4.3	R 9.2	184.8	0.1	—	171.4	-2.6	74.7	243.5	
1973	—	1.5	1.5	5.9	56.8	1.8	7.4	101.0	5.9	R 8.7	182.5	2.9	—	182.7	-5.6	82.2	289.3	
1974	—	2.4	2.4	4.7	77.3	2.2	12.0	132.0	6.5	R 12.4	243.9	4.6	—	258.7	-6.5	98.6	347.3	
1975	—	1.7	1.7	7.5	76.8	2.3	12.8	148.2	9.8	R 11.8	258.8	12.0	—	272.8	-14.5	108.6	388.8	
1976	—	1.1	1.1	9.1	94.6	1.8	15.5	151.8	14.8	R 13.3	291.8	12.6	—	314.6	-13.9	130.0	430.7	
1977	—	1.5	1.5	11.5	104.8	2.0	17.5	156.6	15.9	R 13.7	313.5	12.9	0.9	338.7	-14.9	124.8	449.7	
1978	—	1.1	1.1	11.8	109.4	2.2	20.3	170.0	12.9	R 14.8	329.8	13.1	0.1	355.8	-14.0	142.4	484.2	
1979	—	1.4	1.4	15.1	162.0	3.9	12.2	223.0	6.4	R 22.3	429.8	15.3	0.5	462.2	-19.0	157.3	600.5	
1980	—	1.3	1.3	28.2	167.3	6.6	18.5	288.8	12.8	R 26.6	518.8	18.7	0.8	588.9	-28.4	193.1	721.7	
1981	—	3.3	3.3	27.3	191.2	5.5	19.9	364.5	10.8	R 28.4	678.5	22.1	0.3	691.5	-25.2	219.2	825.5	
1982	—	3.3	3.3	27.4	128.9	3.8	25.2	365.6	10.8	R 26.0	801.2	31.7	0.8	594.3	-35.5	241.8	770.5	
1983	—	2.8	2.9	26.2	R 167.0	4.0	32.0	291.2	9.3	R 28.6	R 532.1	18.7	0.8	R 578.5	-22.4	254.2	R 811.4	
1984	—	3.7	3.7	27.3	R 182.2	6.2	24.9	290.9	13.8	R 29.2	R 546.3	21.4	2.4	R 601.0	-28.1	277.1	R 852.0	
1985	—	5.6	5.6	27.7	R 196.9	5.7	35.8	390.9	8.8	R 53.8	R 584.5	28.6	2.3	R 641.3	-26.1	285.1	R 908.3	
1986	—	1.7	1.7	24.7	R 148.1	3.1	32.8	234.0	6.7	R 41.1	R 464.8	15.5	0.3	R 507.0	-17.3	286.2	R 778.0	
1987	—	1.1	1.1	28.1	R 157.3	4.2	41.8	259.4	6.7	R 36.0	R 505.3	26.3	1.5	R 559.4	-29.2	337.8	R 867.9	
1988	—	1.0	1.0	24.8	R 167.3	3.2	39.6	281.3	3.8	R 37.6	R 532.6	31.3	0.9	R 590.6	-39.0	357.0	R 913.7	
1989	—	0.7	0.7	27.5	R 168.6	6.6	67.5	364.2	3.4	R 39.4	R 601.7	34.1	5.5	R 653.7	-31.0	368.0	R 964.7	
1990	—	0.8	0.8	21.8	R 168.6	4.6	68.8	337.8	5.8	R 23.2	R 631.5	22.1	R 8.9	R 694.7	-26.8	380.8	R 1,067.9	
1991	—	0.9	0.9	31.5	R 168.6	4.6	84.4	357.2	4.2	R 30.7	R 649.8	24.9	0.7	R 718.6	-30.1	406.1	R 1,092.7	
1992	—	1.5	1.5	38.1	R 206.1	5.0	81.5	339.3	4.5	R 24.2	R 658.5	21.2	8.3	R 728.6	-25.7	436.0	R 1,130.0	
1993	—	0.5	0.5	36.9	R 219.6	3.5	68.6	R 336.7	7.9	R 20.1	R 667.6	19.5	9.9	R 723.5	-22.3	453.0	R 1,154.2	
1994	—	0.4	0.4	30.3	208.6	3.7	66.2	344.8	4.7	22.5	646.7	22.5	10.2	721.1	-25.6	482.1	1,157.7	

^a Liquefied petroleum gases.^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.^c These are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar (thermal energy).^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of hydroelectric beginning in 1990.

R-Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(R) Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 282. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Vermont

Year	Primary Energy								Electricity	Total Energy ^d
	Coal	Natural Gas	Petroleum			Biomass ^b	Total ^c			
			Distillate Fuel	Kerosene	LPG ^a			Total		
Prices in Nominal Dollars per Million Btu										
1970	1.37	1.97	1.51	1.63	2.58	1.67	—	1.59	6.68	2.24
1971	1.56	2.04	1.55	1.66	2.62	1.65	—	1.67	6.65	2.43
1972	1.53	2.13	1.59	1.69	2.55	1.66	—	1.68	7.56	2.66
1973	1.83	2.18	1.79	1.94	3.62	1.91	—	1.92	8.11	2.86
1974	2.19	2.35	2.72	3.01	5.53	2.99	—	2.95	9.89	4.14
1975	2.82	2.62	2.87	3.16	4.72	3.07	—	3.04	11.47	4.52
1976	2.64	2.68	3.06	3.35	4.94	3.26	—	3.22	12.64	4.72
1977	3.12	3.59	3.42	3.75	6.01	3.69	—	3.68	12.63	5.22
1978	3.58	3.53	3.66	4.01	6.49	3.87	—	3.85	13.88	5.57
1979	4.58	4.05	5.23	5.33	7.82	6.38	—	5.31	14.09	7.07
1980	4.42	4.38	7.32	8.15	9.28	7.56	—	7.43	15.78	9.65
1981	5.36	7.06	9.04	10.54	10.15	9.28	—	8.99	18.20	11.48
1982	5.26	7.30	8.68	10.79	9.51	9.97	—	8.73	19.67	12.31
1983	4.57	6.55	8.47	9.96	12.65	9.04	—	8.82	18.99	11.66
1984	5.26	6.95	8.96	9.33	11.79	8.69	—	8.60	19.74	11.74
1985	4.91	6.38	8.86	8.98	11.79	8.67	—	8.41	21.29	11.08
1986	4.71	6.36	8.49	7.22	10.02	7.11	—	7.01	23.15	10.13
1987	4.37	6.31	8.23	6.92	10.04	7.00	—	6.91	27.72	11.51
1988	4.51	5.71	8.19	6.86	8.86	6.83	—	6.70	26.66	11.21
1989	4.48	5.70	8.78	7.54	12.77	6.34	—	7.97	26.24	11.91
1990	4.73	6.87	8.02	8.82	13.78	6.46	^d 2.83	^d 8.68	27.22	^d 13.70
1991	4.59	6.31	7.71	8.57	15.17	9.61	^d 2.93	^d 8.94	27.94	^d 12.73
1992	4.46	6.73	6.98	7.76	12.37	8.48	^d 2.93	^d 7.95	27.99	^d 12.04
1993	4.48	6.20	6.84	7.61	12.20	8.09	^d 2.93	^d 7.56	28.65	^d 11.95
1994	4.59	6.97	6.63	7.37	11.62	7.90	^d 2.93	^d 7.48	29.18	12.27
Expenditures in Million Nominal Dollars										
1970	8.6	2.1	34.0	4.9	3.4	41.4	—	44.1	27.7	71.8
1971	8.6	2.3	33.6	4.1	3.8	41.6	—	44.5	31.6	76.3
1972	8.8	2.6	36.9	3.8	4.5	46.3	—	46.3	36.9	86.9
1973	8.8	2.6	42.6	3.8	8.3	63.6	—	55.8	41.9	97.7
1974	8.5	2.9	53.7	5.0	10.8	89.6	—	73.0	50.5	123.5
1975	8.5	3.0	61.9	4.2	8.7	85.8	—	69.3	55.9	126.1
1976	8.5	3.3	65.1	5.5	11.4	92.0	—	85.9	64.0	140.8
1977	8.6	4.2	66.7	6.0	13.1	95.8	—	90.6	64.2	154.8
1978	8.6	4.2	73.0	6.0	12.9	91.9	—	86.6	72.3	168.0
1979	8.6	4.6	96.1	9.8	8.3	117.2	—	122.4	81.5	204.0
1980	8.7	6.1	92.5	10.8	12.1	115.3	—	124.1	98.3	219.8
1981	1.9	9.0	105.8	10.6	14.1	130.4	—	141.4	106.1	247.4
1982	1.2	8.3	70.4	9.4	14.5	94.2	—	104.7	115.1	220.7
1983	0.8	6.5	85.8	11.4	22.5	132.7	—	142.1	120.4	262.5
1984	1.2	8.5	100.5	7.1	21.3	129.6	—	139.5	124.6	263.0
1985	2.3	9.1	164.8	28.2	25.5	198.9	—	167.7	191.2	278.9
1986	3.7	10.0	89.9	11.9	22.2	104.0	—	114.7	91.3	206.0
1987	0.7	10.4	68.1	9.6	28.1	106.0	—	117.0	133.3	250.3
1988	0.8	10.8	70.0	12.0	29.6	111.7	—	122.8	143.0	296.8
1989	0.3	11.3	68.6	11.9	34.6	132.0	—	164.2	149.0	313.2
1990	0.5	12.4	90.2	9.8	55.3	158.2	^d 3.4	^d 171.6	168.8	^d 339.8
1991	0.3	13.7	91.6	12.0	45.1	169.6	^d 3.6	^d 166.3	170.0	^d 356.3
1992	0.4	16.9	89.1	9.2	63.6	162.1	^d 3.6	^d 165.2	184.0	^d 367.2
1993	0.4	15.7	94.5	10.1	53.0	157.6	^d 3.9	^d 177.5	194.0	^d 371.8
1994	0.2	16.9	83.8	7.6	51.8	143.2	^d 3.6	^d 164.2	200.0	364.2

^a Liquefied petroleum gases^b Commercial sector prices and expenditures for wood and waste are included in the residential sector^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990^d Revised data

—No consumption

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 263. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Vermont

Year	Primary Energy										Electricity	Total Energy ^b
	Coal	Natural Gas	Petroleum					Total	Electricity			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel					
										Prices in Nominal Dollars per Million Btu		
1970	8.87	1.43	1.11	0.92	1.37	8.09	0.79	1.04	1.06	6.18	2.15	
1971	0.61	1.49	1.17	0.97	1.34	3.20	0.84	1.09	1.11	6.92	2.35	
1972	1.02	1.62	1.18	0.97	1.37	3.20	0.86	1.11	1.15	7.57	2.58	
1973	1.25	1.89	1.39	1.29	1.53	3.94	0.73	1.21	1.24	8.19	2.84	
1974	1.71	1.99	2.32	2.41	2.24	4.47	1.93	2.29	2.22	10.26	4.37	
1975	2.40	2.10	2.46	2.48	2.82	4.89	1.91	2.25	2.33	11.34	4.51	
1976	1.79	2.63	2.64	2.69	3.37	4.81	1.78	2.36	2.37	12.19	4.45	
1977	2.02	3.20	2.99	3.13	3.41	4.96	2.14	2.49	2.73	12.39	4.96	
1978	1.73	3.23	3.16	3.25	3.61	5.13	1.92	2.79	2.80	13.26	5.33	
1979	1.54	3.57	4.55	4.88	3.87	7.28	2.97	4.31	4.16	13.24	7.06	
1980	1.66	4.22	4.49	4.99	4.89	16.12	4.09	6.89	6.49	16.59	9.00	
1981	1.86	6.80	6.16	7.19	11.22	11.22	5.00	7.64	7.21	19.49	11.29	
1982	1.99	7.11	7.84	7.90	10.52	10.52	4.48	7.33	7.14	21.00	12.20	
1983	1.93	6.57	7.82	7.98	9.84	9.84	4.44	6.75	6.70	21.76	13.25	
1984	2.39	5.73	7.92	7.99	9.51	9.51	5.08	6.73	6.70	22.17	14.24	
1985	2.39	6.73	7.16	7.82	11.46	9.53	4.54	7.83	6.04	24.02	15.29	
1986	2.12	8.19	6.23	7.00	11.25	7.47	2.92	6.59	6.28	25.85	16.13	
1987	2.36	4.94	6.03	6.82	11.14	7.88	3.15	6.53	6.33	24.53	16.84	
1988	2.53	4.72	6.43	6.82	10.85	7.87	2.64	6.53	6.29	24.44	17.02	
1989	2.60	4.81	6.97	7.22	10.22	8.94	2.84	6.60	6.72	24.23	17.17	
1990	2.63	5.12	6.86	7.19	10.22	9.64	2.84	6.70	6.87	25.16	17.44	
1991	2.57	5.30	6.13	6.87	11.94	9.46	2.61	6.56	6.84	26.42	18.12	
1992	2.59	5.69	6.51	7.29	9.88	9.39	2.54	6.55	6.84	27.37	18.90	
1993	2.32	5.29	6.42	6.07	10.02	8.09	2.64	6.55	6.44	27.69	18.90	
1994	2.23	5.82	6.40	6.18	9.83	6.17	2.64	6.55	6.69	27.69	19.90	
Expenditures in Million Nominal Dollars												
1970	0.2	0.5	5.1	0.1	0.3	0.4	2.1	8.1	8.1	14.1	23.2	
1971	0.2	0.9	5.1	0.1	0.3	0.4	2.2	9.2	9.2	16.0	25.3	
1972	0.2	1.0	5.6	0.1	0.4	0.4	2.4	10.2	10.2	18.3	28.8	
1973	0.2	1.0	6.8	0.1	0.4	0.6	1.8	8.7	10.9	21.4	32.3	
1974	0.3	1.1	8.3	0.2	0.7	0.6	3.0	13.9	15.3	25.9	41.2	
1975	0.4	1.5	8.1	0.2	1.1	0.7	4.8	18.6	17.8	37.4	48.0	
1976	0.2	2.0	11.5	0.3	1.4	0.8	8.5	20.4	22.7	31.3	54.0	
1977	0.3	2.5	11.9	0.3	1.3	0.8	7.1	21.5	24.2	33.1	57.2	
1978	0.2	2.9	12.9	0.3	1.6	0.9	5.6	21.1	24.2	36.6	60.9	
1979	0.1	3.6	17.5	0.5	0.8	1.2	3.0	23.0	26.7	40.0	66.7	
1980	0.2	4.1	23.4	1.4	1.3	1.7	6.1	34.1	39.3	48.0	88.3	
1981	0.4	5.7	25.4	1.1	1.6	2.1	4.8	35.9	42.1	56.6	98.7	
1982	0.3	6.0	23.1	1.2	1.8	2.1	3.2	31.4	37.7	59.7	101.4	
1983	0.3	5.8	19.3	0.4	2.2	3.0	1.9	25.8	31.9	59.4	101.0	
1984	0.4	6.3	19.0	0.2	2.2	1.9	2.1	26.7	34.0	60.4	101.4	
1985	1.4	8.9	22.1	1.6	4.4	2.0	6.7	38.7	41.3	71.6	119.9	
1986	0.2	8.8	10.4	1.7	4.4	1.6	2.8	29.3	32.4	67.1	112.5	
1987	0.2	8.9	19.1	1.0	5.5	1.6	1.9	29.3	32.4	67.1	112.5	
1988	0.2	8.9	19.1	1.0	5.5	1.6	1.9	29.3	32.4	67.1	112.5	
1989	0.2	8.9	19.1	1.0	5.5	1.6	1.9	29.3	32.4	67.1	112.5	
1990	0.1	9.9	23.4	2.0	8.4	1.7	1.5	30.6	34.3	72.1	123.4	
1991	0.1	10.8	22.5	0.5	7.7	2.1	2.5	30.6	34.3	72.1	123.4	
1992	0.2	13.1	20.2	0.6	9.0	1.4	2.1	30.6	34.3	72.1	123.4	
1993	0.1	12.5	24.2	0.5	9.1	1.7	1.7	30.6	34.3	72.1	123.4	
1994	0.2	14.9	24.2	0.7	7.7	0.3	1.4	30.6	34.3	72.1	123.4	

^a Liquidated petroleum gases.
^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

Perfused data.
 Note: Expenditures totals may not equal sum of components due to independent rounding.
 Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 284. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Vermont

Year	Primary Energy															Electricity	Total Energy ^a
	Coal			Natural Gas	Petroleum									Biomass ^b	Total ^c		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^d	Lubricants	Motor Gasoline	Residual Fuel	Other ^e	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	6.67	6.67	6.66	6.66	6.64	6.62	1.37	5.08	3.08	0.63	4.14	6.67	—	6.66	4.82	1.71
1971	—	6.61	6.61	6.60	6.60	6.58	6.57	1.34	5.27	3.20	0.64	3.97	1.09	—	1.08	4.82	1.64
1972	—	1.02	1.02	1.00	0.87	0.86	0.97	1.37	5.88	3.20	0.57	4.23	1.11	—	1.09	5.17	2.11
1973	—	1.25	1.25	1.30	0.87	1.13	1.23	1.38	5.93	3.34	0.71	4.63	1.35	—	1.31	5.52	2.37
1974	—	1.71	1.71	1.49	1.55	2.22	2.41	2.24	7.22	4.47	1.88	4.68	2.45	—	2.19	7.20	3.59
1975	—	2.60	2.60	1.44	1.81	2.38	2.65	2.92	7.48	4.86	1.93	4.96	2.63	—	2.41	7.61	3.74
1976	—	1.79	1.79	2.25	2.01	2.68	2.89	3.37	7.05	4.81	1.97	5.51	2.72	—	2.64	6.19	4.19
1977	—	2.02	2.02	2.67	2.57	2.80	3.13	3.41	6.87	4.36	2.28	6.26	2.96	—	2.93	5.13	4.23
1978	—	1.78	1.78	2.75	2.25	3.00	3.25	3.61	7.80	5.13	2.25	7.75	3.23	—	3.15	6.82	4.68
1979	—	1.64	1.64	3.22	2.42	4.42	4.66	3.67	10.21	7.28	2.86	9.43	4.62	—	4.25	8.95	5.70
1980	—	1.85	1.86	4.94	3.48	5.84	6.38	6.89	14.36	10.12	4.01	12.01	6.96	—	6.73	11.37	7.89
1981	—	1.86	1.88	5.46	6.42	6.33	7.16	6.49	18.00	11.22	4.96	13.66	6.99	—	6.59	14.15	9.18
1982	—	1.90	1.98	5.80	4.02	7.08	7.90	6.68	17.25	10.62	4.94	16.76	6.91	—	6.51	15.78	9.42
1983	—	1.93	1.93	5.06	4.22	6.67	7.68	7.11	16.06	9.84	4.70	14.29	6.86	—	6.28	15.86	9.55
1984	—	2.39	2.39	5.22	4.62	6.91	7.89	6.94	17.63	9.61	5.06	13.48	6.46	—	6.16	16.67	10.04
1985	—	2.38	2.38	4.91	6.28	6.88	7.82	11.46	17.81	9.83	4.54	13.28	6.97	—	6.47	16.48	10.85
1986	—	2.12	2.12	3.57	4.86	6.34	6.90	11.25	15.59	7.47	2.92	14.34	6.29	—	6.02	20.06	9.82
1987	—	2.36	2.36	3.62	3.85	6.76	6.82	11.44	12.70	7.86	3.16	13.65	6.28	—	6.00	19.70	9.97
1988	—	2.53	2.53	3.90	3.89	6.61	6.22	10.88	14.61	7.87	2.84	11.82	6.92	—	6.49	18.30	9.68
1989	—	2.60	2.60	3.06	3.17	6.58	6.22	10.22	14.48	8.84	2.84	17.61	6.78	—	6.23	19.21	9.65
1990	—	2.62	2.62	3.88	3.34	6.21	7.16	10.89	14.89	9.88	3.39	14.36	7.21	1.68	6.23	19.31	10.47
1991	—	2.57	2.57	3.03	3.05	6.94	6.87	11.84	16.79	9.48	2.61	—	6.29	1.56	4.32	20.66	9.88
1992	—	2.54	2.66	3.28	2.79	6.53	6.39	9.86	19.43	9.39	2.64	—	6.19	1.54	4.21	21.37	9.23
1993	—	—	—	3.58	3.30	6.25	6.07	10.02	18.94	9.09	2.82	—	6.41	1.36	3.96	21.91	9.26
1994	—	—	—	3.48	3.05	6.38	6.22	8.35	18.18	9.17	2.84	—	6.23	1.35	3.81	22.08	9.29
Expenditures in Million Nominal Dollars																	
1970	—	0.1	0.1	0.8	1.2	2.3	0.2	0.6	0.6	1.1	1.5	1.6	8.5	—	9.5	12.1	21.7
1971	—	0.1	0.1	1.2	1.7	2.3	0.2	0.7	0.4	1.0	1.9	1.7	9.6	—	11.1	13.6	24.8
1972	—	0.1	0.1	1.4	0.7	2.3	0.4	0.7	0.4	1.0	1.7	1.9	9.2	—	10.7	16.8	27.5
1973	—	0.1	0.1	2.0	0.6	3.1	0.6	0.7	0.4	1.2	2.0	2.8	11.1	—	13.2	18.9	32.1
1974	—	0.2	0.2	2.0	1.0	5.4	0.9	1.1	0.5	1.2	3.5	2.6	16.1	—	18.2	23.3	41.5
1975	—	0.1	0.1	2.2	0.4	5.1	1.4	1.3	0.5	1.9	6.1	2.5	18.3	—	20.7	22.3	43.9
1976	—	0.1	0.1	2.7	0.4	7.2	1.1	2.7	0.5	1.7	9.1	3.3	24.9	—	26.6	34.6	63.2
1977	—	0.2	0.2	4.4	0.6	7.1	0.8	3.1	0.6	1.6	8.6	3.1	26.2	—	29.8	27.6	67.3
1978	—	0.1	0.1	4.7	0.3	7.8	0.9	3.8	0.9	1.3	7.2	4.0	27.6	—	32.3	33.5	65.8
1979	—	0.1	0.1	6.6	1.3	17.2	1.1	2.1	1.1	1.5	3.2	4.8	32.2	—	37.9	35.7	73.6
1980	—	0.1	0.1	7.9	1.9	17.1	0.3	3.8	1.3	1.0	8.9	6.9	37.8	—	48.6	46.4	94.9
1981	—	0.1	0.1	11.6	1.8	17.8	0.4	3.7	1.6	0.7	6.0	8.7	38.7	—	50.4	56.9	107.0
1982	—	0.2	0.2	11.8	2.0	17.3	0.3	3.8	1.4	0.7	7.4	6.0	43.9	—	56.8	62.0	117.7
1983	—	0.2	0.2	10.2	1.6	11.5	1.5	7.1	1.4	0.5	8.0	6.9	37.7	—	48.1	64.4	112.5
1984	—	0.2	0.2	9.2	0.9	11.9	0.8	1.0	1.9	3.4	11.8	5.5	42.6	—	52.0	62.6	134.5
1985	—	0.3	0.3	8.1	11.4	12.3	1.1	2.9	4.5	6.8	2.6	4.6	48.3	—	57.7	96.3	168.1
1986	—	0.2	0.2	6.1	13.5	12.4	0.6	3.8	1.3	4.7	6.2	6.4	51.2	—	57.4	107.8	165.2
1987	—	0.1	0.1	5.8	11.8	12.2	1.0	7.8	1.2	4.8	4.8	6.5	50.8	—	58.0	96.3	142.2
1988	—	0.2	0.2	5.2	8.9	15.2	2.5	3.1	1.3	5.1	2.8	5.9	44.7	—	50.1	89.0	138.1
1989	—	0.3	0.3	5.7	9.5	15.7	0.9	4.8	1.3	5.9	1.8	8.4	48.5	—	54.5	90.0	144.5
1990	—	0.1	0.1	8.6	6.8	16.8	0.7	2.3	1.4	4.1	2.4	5.8	46.3	2.7	48.4	91.0	138.6
1991	—	0.5	0.5	5.1	10.7	16.4	0.4	0.7	1.4	4.4	2.1	—	44.2	3.2	47.9	90.0	150.9
1992	—	0.9	0.9	6.4	8.2	16.4	0.2	0.2	1.7	4.4	2.7	—	39.8	3.0	42.1	106.0	155.1
1993	—	—	—	7.3	6.7	16.6	0.3	7.8	1.7	4.6	5.0	—	34.7	4.3	46.3	107.0	153.9
1994	—	—	—	7.8	5.6	10.9	0.4	6.0	1.8	4.1	3.3	—	32.0	4.4	43.4	106.0	151.4

^a Liquid petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

Refined data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(s) = Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 285. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Vermont

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^A	Lubricants	Motor Gasoline	Residual Fuel				
													Total
Prices in Nominal Dollars per Million Btu													
1970	0.87	—	2.17	1.43	8.78	1.37	5.08	3.08	0.76	2.94	2.94	—	2.94
1971	0.81	—	2.21	1.49	0.79	1.34	5.27	3.20	0.81	3.07	3.07	—	3.07
1972	1.02	—	2.19	1.50	0.78	1.37	5.68	3.20	0.86	3.06	3.06	—	3.06
1973	1.25	—	2.36	1.61	0.98	1.33	5.35	3.34	0.71	3.16	3.16	—	3.16
1974	1.71	—	3.23	2.73	1.61	2.24	7.22	4.47	1.88	4.27	4.27	—	4.27
1975	2.60	—	3.45	2.98	2.08	2.82	7.48	4.48	1.84	4.48	4.48	—	4.48
1976	1.79	—	3.59	3.10	2.29	3.37	7.05	4.81	1.73	4.62	4.62	—	4.62
1977	2.02	—	3.97	3.62	2.64	3.41	6.97	4.96	—	4.75	4.75	—	4.75
1978	—	—	4.29	3.79	2.97	3.61	7.60	5.13	—	4.98	4.98	—	4.98
1979	—	—	5.73	5.37	3.98	3.67	10.21	7.28	—	6.95	6.95	—	6.95
1980	—	—	6.62	7.41	4.61	6.39	14.38	10.12	—	8.72	8.72	—	8.72
1981	—	—	10.84	9.02	7.60	8.49	18.00	11.22	—	10.94	10.94	—	10.94
1982	—	—	10.92	8.73	7.51	6.66	17.25	10.52	—	10.42	10.42	—	10.42
1983	—	—	10.44	9.05	6.81	7.11	16.88	9.94	—	9.84	9.84	—	9.84
1984	—	—	10.27	9.44	8.48	8.94	17.83	9.51	—	9.49	9.49	—	9.49
1985	—	—	8.89	9.39	6.19	11.46	17.81	9.53	—	9.46	9.46	—	9.46
1986	—	—	8.41	7.51	4.25	11.25	15.59	7.47	—	7.48	7.48	—	7.48
1987	—	—	7.55	7.35	4.19	11.14	12.70	7.50	2.64	7.50	7.50	—	7.50
1988	—	—	7.41	7.51	4.04	10.86	14.61	7.67	—	7.78	7.78	—	7.78
1989	—	—	8.28	7.88	5.33	10.22	14.48	8.64	2.60	8.62	8.62	—	8.62
1990	—	—	8.32	9.66	6.80	18.89	14.88	9.66	2.76	9.62	9.62	—	9.62
1991	—	—	8.71	9.14	5.07	11.94	16.79	9.49	2.19	9.39	9.39	—	9.39
1992	—	—	8.54	6.67	4.72	9.96	19.43	9.39	2.24	9.25	9.25	—	9.25
1993	—	—	8.24	6.48	5.19	10.02	16.94	8.08	—	8.06	8.06	—	8.06
1994	—	—	7.86	8.54	4.78	8.09	19.18	9.17	—	9.03	9.03	—	9.03
Expenditures in Million Nominal Dollars													
1970	(a)	—	0.2	2.9	0.8	(a)	1.6	61.0	(a)	66.0	66.0	—	66.0
1971	(a)	—	0.1	2.6	0.5	(a)	1.5	69.3	(a)	73.0	73.0	—	73.0
1972	(a)	—	0.1	3.2	0.5	(a)	1.7	94.1	(a)	99.8	99.8	—	99.8
1973	(a)	—	0.1	5.6	0.6	(a)	1.8	96.3	(a)	107.3	107.3	—	107.3
1974	(a)	—	0.1	8.1	1.1	(a)	2.1	130.2	(a)	141.7	141.7	—	141.7
1975	(a)	—	0.2	8.5	1.6	(a)	2.1	137.6	(a)	148.9	148.9	—	148.9
1976	(a)	—	0.2	10.5	1.8	(a)	2.2	148.3	(a)	163.7	163.7	—	163.7
1977	(a)	—	0.2	19.9	1.8	(a)	2.2	157.2	—	180.3	180.3	—	180.3
1978	—	—	0.1	15.6	2.2	0.3	2.6	167.8	—	188.6	188.6	—	188.6
1979	—	—	0.1	28.4	3.7	(a)	3.6	220.3	—	256.2	256.2	—	256.2
1980	—	—	1.1	32.7	4.9	(a)	4.8	288.2	—	329.5	329.5	—	329.5
1981	—	—	0.9	40.6	3.2	0.5	5.4	321.5	—	372.4	372.4	—	372.4
1982	—	—	1.1	19.4	3.4	0.1	4.8	302.6	—	330.6	330.6	—	330.6
1983	—	—	1.3	37.3	4.0	0.2	4.9	287.7	—	335.4	335.4	—	335.4
1984	—	—	0.9	49.6	6.2	0.4	5.4	295.7	—	348.4	348.4	—	348.4
1985	—	—	1.1	52.0	6.7	0.6	6.1	283.1	—	348.5	348.5	—	348.5
1986	—	—	1.2	45.4	3.1	0.4	4.4	227.7	—	282.2	282.2	—	282.2
1987	—	—	0.6	55.5	4.2	0.4	4.0	253.0	(a)	318.0	318.0	—	318.0
1988	—	—	0.6	60.6	3.2	0.4	4.5	274.6	—	343.9	343.9	—	343.9
1989	—	—	0.7	64.7	6.8	0.4	4.8	298.6	0.1	363.6	363.6	—	363.6
1990	—	—	0.7	60.7	6.6	0.4	4.7	394.7	0.1	494.9	494.9	—	494.9
1991	—	—	0.7	58.4	4.6	0.5	4.9	381.5	(a)	396.4	396.4	—	396.4
1992	—	—	0.6	74.3	3.0	0.4	6.7	393.2	0.1	417.3	417.3	—	417.3
1993	—	—	0.5	64.4	3.5	0.3	5.7	334.6	—	429.2	429.2	—	429.2
1994	—	—	0.5	67.3	3.7	0.6	6.0	340.4	—	436.5	436.5	—	436.5

^a Liquefied petroleum gases.

R- Revised data.

—No consumption. Including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)-Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 285. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Vermont

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.40	—	0.63	0.82	—	0.81	—	—	0.72
1971	0.51	0.45	0.69	0.96	—	0.97	—	—	0.82
1972	0.62	0.45	0.91	1.47	—	1.42	0.07	—	0.50
1973	0.73	0.44	0.75	1.43	—	1.42	0.16	—	0.28
1974	1.50	0.51	1.97	2.27	—	2.28	0.17	—	0.28
1975	2.05	1.17	1.95	2.42	—	2.41	0.31	—	0.38
1976	1.25	1.76	1.93	2.44	—	2.31	0.35	—	0.36
1977	1.36	2.01	2.14	2.96	—	2.65	0.34	1.04	0.36
1978	1.21	2.22	1.95	2.76	—	2.48	0.37	1.12	0.39
1979	1.77	2.60	2.92	5.27	—	4.60	0.41	1.56	0.49
1980	1.73	4.59	—	6.28	—	6.28	0.59	1.74	0.69
1981	2.17	4.82	—	7.53	—	7.53	0.66	1.24	0.63
1982	2.11	5.00	—	7.59	—	7.59	0.69	1.28	0.74
1983	2.18	4.22	—	6.32	—	6.32	0.60	1.12	0.68
1984	2.11	4.34	—	6.17	—	6.17	0.59	1.28	0.71
1985	2.03	4.34	—	6.83	—	6.83	0.64	0.79	0.72
1986	1.86	2.25	—	3.55	—	3.55	0.70	0.32	0.73
1987	—	—	—	3.39	—	3.39	0.69	0.95	0.73
1988	—	—	—	3.71	—	3.71	0.71	0.87	0.74
1989	—	2.64	—	4.23	—	4.23	0.62	2.92	0.76
1990	—	2.42	—	6.83	—	6.83	0.87	2.82	0.86
1991	—	1.74	—	4.70	—	4.70	0.66	2.60	0.63
1992	—	2.02	—	4.43	—	4.43	0.53	2.74	0.62
1993	—	2.02	—	4.85	—	4.85	0.54	2.80	0.60
1994	—	2.32	—	4.54	—	4.54	0.49	2.85	0.54
Expenditures in Million Nominal Dollars									
1970	4.7	—	6.1	1.4	—	1.8	—	—	2.2
1971	0.7	(a)	0.1	1.5	—	1.6	—	—	2.3
1972	0.5	0.3	0.1	1.6	—	1.7	0.1	—	2.6
1973	0.7	0.3	(a)	1.8	—	1.8	2.9	—	5.6
1974	1.4	0.6	(a)	1.8	—	1.8	4.6	—	6.3
1975	0.7	8.7	(a)	1.2	—	1.2	12.0	—	14.8
1976	0.3	0.1	0.2	0.7	—	0.9	12.6	—	13.9
1977	0.4	0.9	0.2	0.5	—	0.7	12.9	(a)	14.9
1978	0.2	0.1	0.1	0.3	—	0.4	13.1	0.1	14.0
1979	0.6	1.4	0.2	1.0	—	1.2	15.3	0.5	16.0
1980	4.4	1.1	—	2.3	—	2.3	18.7	0.8	21.4
1981	0.6	0.9	—	1.1	—	1.1	22.1	0.3	25.2
1982	1.7	0.5	—	1.0	—	1.0	31.7	0.8	35.3
1983	1.6	0.9	—	0.6	—	0.6	18.7	0.8	22.4
1984	2.0	1.2	—	1.1	—	1.1	21.4	2.4	26.1
1985	1.4	4.8	—	1.1	—	1.1	26.6	2.3	35.1
1986	0.6	(a)	—	0.9	—	0.9	15.5	0.3	17.3
1987	—	—	—	1.4	—	1.4	26.3	1.5	29.2
1988	—	—	—	1.8	—	1.8	31.3	0.9	33.9
1989	—	0.1	—	1.2	—	1.2	24.1	5.5	31.0
1990	—	1.7	—	0.2	—	0.2	22.1	2.7	26.9
1991	—	1.9	—	0.4	—	0.4	24.9	2.9	30.1
1992	—	1.5	—	0.2	—	0.2	21.2	2.8	25.7
1993	—	0.5	—	0.5	—	0.5	19.5	1.7	22.3
1994	—	0.4	—	0.6	—	0.6	22.5	2.0	25.5

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

—No consumption.

(a) Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 287. Energy Price and Expenditure Estimates by Source, 1970-1994, Virginia

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^d
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biomass	Total ^c			
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																	
1970	8.40	8.41	0.41	8.96	1.14	0.73	1.96	2.86	0.31	R 1.34	1.40	—	—	1.17	8.38	4.91	1.80
1971	8.47	8.49	0.49	8.99	1.24	0.76	1.92	2.82	0.40	R 1.38	1.49	—	—	1.23	8.42	5.10	1.86
1972	—	8.47	0.47	1.05	1.24	0.78	2.01	2.94	0.44	R 1.41	1.54	0.25	—	1.30	8.44	5.33	2.00
1973	—	8.50	0.50	1.11	1.43	0.90	2.82	3.16	0.63	R 1.82	1.73	0.25	—	1.39	8.47	5.62	2.21
1974	—	1.31	1.31	1.33	2.42	1.86	3.14	4.41	1.63	R 2.57	2.63	0.26	—	2.30	1.26	7.67	3.36
1975	—	1.30	1.30	1.71	2.68	2.03	3.82	4.77	1.80	R 2.99	3.16	0.28	—	2.82	1.24	8.63	3.97
1976	1.64	1.21	1.21	2.02	2.78	2.17	3.81	5.01	1.77	R 3.09	3.33	0.33	—	2.67	1.24	9.64	4.17
1977	1.60	1.40	1.41	2.49	3.18	2.55	4.23	5.33	2.11	R 3.38	3.85	0.43	—	2.99	1.49	11.29	4.73
1978	1.73	1.61	1.62	2.72	3.38	2.83	4.18	5.39	1.84	R 3.55	3.76	0.47	—	3.02	1.38	11.78	4.96
1979	1.76	1.67	1.68	3.03	4.78	3.96	5.13	7.01	2.98	R 4.74	5.06	0.48	—	4.06	1.99	13.22	6.01
1980	1.86	1.71	1.72	3.62	6.84	6.46	6.33	8.67	3.75	R 7.84	7.47	0.74	—	5.31	2.08	15.77	8.02
1981	1.88	1.93	1.63	4.04	8.37	7.61	7.24	11.14	4.79	R 8.91	9.19	0.89	—	5.77	1.84	16.08	9.13
1982	2.05	1.95	1.66	6.09	9.06	7.18	7.64	10.54	4.38	R 8.42	8.91	0.85	—	6.82	1.41	17.40	9.30
1983	1.68	1.72	1.71	5.90	R 6.03	R 6.43	8.78	9.25	4.33	R 7.76	8.19	0.46	—	5.25	1.20	18.01	9.01
1984	1.91	1.82	1.83	5.80	7.91	R 6.16	9.40	9.03	4.63	R 7.75	8.65	0.53	—	5.24	1.36	17.20	8.72
1985	1.98	1.78	1.80	5.88	R 7.78	8.79	9.87	9.33	4.36	R 7.76	8.12	0.86	—	8.14	1.18	17.06	8.78
1986	1.75	1.69	1.70	5.05	R 5.90	8.83	9.24	8.97	2.15	R 6.10	R 5.89	0.53	—	4.03	1.14	16.97	7.62
1987	1.72	1.69	1.69	4.53	R 6.12	4.05	9.19	7.80	2.99	R 5.50	R 5.35	0.56	—	4.27	1.23	17.03	R 7.60
1988	1.73	1.66	1.67	4.40	R 5.97	3.77	9.06	7.85	2.21	R 5.65	8.37	0.53	—	R 4.20	1.11	16.64	R 7.68
1989	1.76	1.69	1.67	4.95	R 6.51	4.34	8.42	8.55	2.67	R 5.57	8.86	0.39	—	R 4.65	1.28	17.26	8.29
1990	1.80	1.69	1.69	4.67	R 7.78	6.53	11.25	9.48	3.34	R 5.73	R 5.96	0.47	d 1.74	d 4.86	1.06	17.70	d 8.74
1991	1.72	1.69	1.67	4.78	R 7.41	4.79	11.70	9.02	2.03	R 6.03	R 7.58	0.63	1.84	R 4.60	1.05	17.89	R 8.85
1992	1.74	1.53	1.54	4.77	R 7.12	4.47	9.61	9.04	2.26	R 6.95	7.53	0.43	1.84	R 4.50	1.01	18.44	R 8.75
1993	1.60	1.52	1.54	6.14	R 6.93	4.16	R 9.80	R 8.89	2.02	R 6.90	R 7.37	0.43	1.88	R 4.62	1.07	18.30	R 8.89
1994	1.57	1.52	1.52	4.86	6.88	3.94	10.94	8.86	2.07	6.90	7.35	0.45	1.79	4.56	1.02	18.19	8.79
Expenditures in Million Nominal Dollars																	
1970	6.3	113.3	113.6	128.8	183.8	44.3	17.8	727.8	85.0	R 98.5	1,185.6	—	—	1,346.8	-101.4	494.4	1,738.8
1971	6.3	113.1	113.4	138.6	175.7	60.2	17.8	764.6	101.6	R 90.3	1,290.2	—	—	1,482.4	-121.6	542.6	1,873.4
1972	—	93.0	93.0	159.3	190.6	49.5	21.8	851.9	124.0	R 92.2	1,319.7	1.2	—	1,873.2	-132.7	611.5	2,062.0
1973	—	98.8	98.8	168.5	225.7	62.2	29.0	988.2	148.9	R 91.8	1,523.7	18.1	—	1,806.8	-170.1	713.5	2,360.2
1974	—	231.2	231.2	167.5	354.9	99.4	31.3	1,341.7	447.1	R 128.5	2,403.0	17.2	—	2,838.9	-446.6	975.2	3,367.6
1975	—	220.7	220.7	205.0	344.3	191.9	41.2	1,484.6	452.4	R 125.8	2,680.2	27.7	—	3,043.4	-485.1	1,288.5	3,868.8
1976	0.3	244.5	244.9	246.5	404.0	145.2	44.0	1,643.5	437.4	R 213.8	2,897.6	28.1	—	3,407.2	-480.7	1,391.8	4,318.3
1977	9.9	254.0	263.9	292.4	617.2	179.4	51.9	1,803.9	545.9	R 256.7	3,354.9	43.7	—	3,954.9	-803.9	1,701.1	5,062.2
1978	24.3	251.5	275.8	382.7	612.3	195.7	47.2	1,884.5	456.9	R 288.2	3,386.7	73.0	—	4,096.2	-588.4	1,830.9	5,340.7
1979	32.7	325.9	358.7	388.6	920.2	267.3	67.2	2,316.1	630.5	R 428.0	4,627.4	37.2	—	5,422.0	-728.0	2,093.1	6,787.2
1980	33.0	385.1	386.1	648.0	880.1	444.2	78.2	2,082.9	676.1	R 561.3	6,723.6	92.8	—	8,763.6	-736.4	2,861.3	8,817.3
1981	39.4	480.9	500.3	675.3	1,146.1	476.9	75.6	3,456.4	995.6	R 468.0	6,060.7	118.2	—	7,242.5	-662.4	2,769.3	9,349.4
1982	29.7	475.1	604.9	723.6	1,024.3	444.1	83.1	3,231.2	242.6	R 398.5	5,423.0	106.3	—	8,756.5	-536.1	3,023.9	9,244.3
1983	38.1	431.4	469.5	810.9	R 1,190.8	R 381.2	93.3	2,868.2	208.3	R 407.9	R 6,160.7	94.2	—	R 8,535.3	-470.2	3,275.9	R 9,341.1
1984	51.0	507.6	558.6	809.6	R 1,182.4	R 369.2	110.4	2,935.9	234.9	R 443.4	R 6,268.3	97.2	—	R 8,731.6	-527.1	3,245.1	R 9,449.6
1985	45.7	485.5	531.3	793.7	R 1,141.6	387.1	136.4	3,896.1	221.1	R 573.8	R 6,618.2	131.6	—	R 8,964.6	-614.6	3,343.0	R 9,793.0
1986	42.1	470.0	512.1	706.0	R 874.0	283.8	113.0	2,367.4	158.2	R 388.2	R 4,304.4	120.4	—	R 6,643.0	-510.4	3,643.1	R 8,775.5
1987	43.4	486.5	538.9	707.2	R 1,044.6	327.8	136.0	2,782.4	106.1	R 342.7	R 4,831.4	108.9	—	R 6,186.4	-536.8	3,668.1	R 9,515.7
1988	42.8	494.7	537.6	701.7	R 1,133.2	331.6	137.2	2,938.2	131.6	R 336.5	R 5,008.3	119.0	—	R 6,366.6	-522.4	3,664.6	R 9,609.0
1989	44.0	526.1	569.1	651.4	R 1,102.3	363.1	134.9	3,163.1	191.8	R 341.7	R 5,326.9	80.1	—	R 6,817.6	-568.3	4,307.7	R 10,556.9
1990	42.7	488.9	532.8	638.9	R 1,267.4	489.8	182.8	3,475.9	183.2	R 336.8	R 5,683.5	119.8	d 37.8	d 7,404.3	-506.9	4,374.4	d 11,268.7
1991	44.9	512.9	557.8	618.0	R 1,150.9	318.7	133.6	3,340.2	108.8	R 344.5	R 5,462.6	135.2	41.7	R 7,016.5	-532.0	4,658.0	R 11,041.6
1992	45.4	483.7	529.1	941.8	R 1,098.0	284.4	181.5	3,400.3	106.8	R 340.7	R 5,397.6	108.2	42.8	R 7,019.1	-500.1	4,781.8	R 11,200.6
1993	43.4	489.4	532.8	R 1,115.4	R 1,136.8	279.6	R 170.1	R 3,446.2	R 99.9	R 349.6	R 5,482.0	103.7	44.2	R 7,278.1	-561.6	5,053.4	R 11,769.8
1994	40.7	456.0	496.7	1,107.0	1,171.3	261.3	191.9	3,490.5	97.0	347.3	5,539.3	123.2	45.5	7,331.6	-648.1	5,074.9	11,888.4

^a Liquefied petroleum gases.
^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.
^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non electric utility use of biomass beginning in 1990.

R-Revised data.
 —No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.
 Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 288. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Virginia

Year	Primary Energy							Electricity	Total Energy ^c
	Coal	Natural Gas	Petroleum			Biomass ^b	Total ^a		
			Distillate Fuel	Kerosene	LPG ^a				
Prices in Nominal Dollars per Million Btu									
1970	1.34	1.45	1.57	1.44	2.37	1.45	—	1.45	2.45
1971	1.27	1.48	1.48	1.51	2.20	1.32	—	1.50	2.59
1972	1.56	1.56	1.47	1.51	2.38	1.55	—	1.55	2.71
1973	1.55	1.84	1.64	1.79	3.61	1.82	—	1.74	3.11
1974	2.64	1.83	2.54	2.75	3.85	2.57	—	2.54	4.26
1975	2.78	2.20	2.69	2.99	4.43	2.84	—	2.69	5.19
1976	3.11	2.49	2.90	3.18	4.53	3.10	—	2.85	5.39
1977	3.42	2.97	3.31	3.61	5.06	3.49	—	3.29	6.35
1978	3.74	3.21	3.94	3.89	4.77	3.68	—	3.47	6.79
1979	5.70	3.65	5.09	5.24	6.56	5.18	—	4.62	7.75
1980	5.85	4.20	7.10	7.86	6.87	7.38	—	6.75	10.23
1981	4.30	4.55	8.69	10.03	6.77	8.86	—	6.47	11.40
1982	4.23	5.98	8.40	10.01	9.72	8.88	—	7.14	12.60
1983	3.69	6.83	8.67	8.80	10.72	8.54	—	7.55	13.24
1984	4.07	6.75	8.21	8.63	10.23	8.55	—	7.46	12.61
1985	3.92	6.78	7.89	8.30	10.46	8.84	—	7.81	12.48
1986	3.88	6.24	6.43	6.76	9.86	8.80	—	6.80	12.11
1987	3.53	5.83	5.83	6.24	10.58	8.49	—	6.00	11.56
1988	3.49	6.58	6.61	6.92	9.81	8.48	—	5.96	11.76
1989	3.89	6.39	6.49	6.83	11.03	7.18	—	6.80	12.79
1990	3.46	6.48	6.26	6.66	13.68	8.48	^a 2.93	^a 7.39	^a 13.44
1991	3.36	6.59	7.54	7.93	13.85	8.79	3.53	^a 7.24	^a 13.62
1992	3.32	6.44	6.83	7.28	10.59	7.72	3.63	^a 6.75	^a 13.44
1993	3.37	7.19	6.66	7.01	11.58	7.66	3.63	^a 7.09	^a 13.84
1994	3.45	7.35	6.37	6.69	13.90	7.83	3.63	7.28	14.03
Expenditures in Million Nominal Dollars									
1970	6.3	78.9	77.7	87.1	12.8	137.1	—	209.2	446.9
1971	4.6	75.9	81.0	86.8	11.9	131.7	—	211.5	469.2
1972	5.2	86.6	82.8	95.2	14.3	132.2	—	225.0	514.7
1973	6.2	88.7	87.2	29.8	21.4	148.4	—	241.3	587.0
1974	14.7	90.1	134.9	36.1	20.3	190.3	—	295.1	751.1
1975	7.9	199.6	142.4	34.9	25.7	293.0	—	319.9	919.4
1976	11.4	133.1	169.9	41.3	29.5	229.8	—	274.4	1,022.9
1977	12.2	146.2	197.9	36.9	30.9	257.4	—	427.8	1,216.2
1978	6.7	177.3	157.4	34.9	26.1	248.4	—	432.5	1,277.9
1979	6.0	189.7	396.1	68.3	32.9	487.3	—	683.0	1,638.0
1980	6.4	233.9	396.3	99.4	41.7	493.3	—	853.8	1,851.9
1981	4.9	237.6	252.0	82.3	44.4	379.7	—	621.2	1,695.3
1982	8.9	281.0	248.9	69.5	46.0	354.4	—	654.3	1,774.9
1983	6.2	332.7	254.7	69.8	60.3	373.9	—	714.7	1,828.6
1984	10.3	358.7	254.5	46.3	64.1	376.9	—	746.9	2,193.5
1985	9.3	342.4	298.2	178.9	69.1	474.4	—	629.1	1,808.6
1986	7.7	354.3	243.3	94.9	64.9	393.1	—	735.1	2,412.7
1987	10.1	324.8	229.4	77.2	69.9	375.5	—	710.4	2,508.7
1988	9.0	340.1	243.9	94.2	63.9	402.9	—	751.2	2,807.2
1989	6.1	404.7	237.7	87.9	84.6	410.3	—	823.1	2,850.1
1990	7.2	347.3	245.9	87.1	100.8	493.8	^a 18.9	^a 779.3	^a 2,815.2
1991	4.1	368.6	201.9	59.5	113.6	374.9	19.9	^a 767.5	^a 2,940.5
1992	5.7	417.7	192.9	53.0	93.2	338.1	20.9	^a 753.4	^a 3,056.4
1993	9.2	491.7	192.6	59.2	98.9	351.5	22.8	^a 875.0	^a 3,334.0
1994	9.5	497.3	182.2	47.7	124.1	354.0	22.2	682.8	3,389.9

^a Liquefied petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.

R- Revised data.

— No consumption.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 289. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Virginia

Year	Primary Energy								Electricity	Total Energy ^b	
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.42	0.94	1.06	0.86	1.48	2.06	0.32	1.19	0.94	4.94	2.59
1971	0.54	0.97	1.15	0.69	1.53	2.02	0.40	1.22	0.99	5.05	2.64
1972	0.47	1.00	1.16	0.69	1.53	2.04	0.46	1.26	1.06	5.22	2.84
1973	0.49	1.10	1.26	0.75	1.63	3.15	0.55	1.41	1.12	5.40	2.85
1974	1.24	1.28	2.20	2.03	2.24	4.41	1.05	2.35	1.56	7.30	4.06
1975	1.47	1.89	2.97	3.36	2.79	4.37	1.86	2.69	1.99	9.48	5.59
1976	1.27	1.69	2.57	2.49	2.87	5.01	1.75	2.78	2.04	8.66	5.50
1977	1.37	2.39	2.96	2.91	3.40	5.33	2.15	3.18	2.60	11.56	6.75
1978	1.56	2.59	3.13	3.10	3.58	5.39	1.96	3.32	2.72	11.93	7.03
1979	1.60	3.07	4.56	3.50	4.24	7.01	3.02	4.57	2.56	13.46	8.42
1980	1.84	3.71	6.46	5.94	4.89	8.97	3.81	6.32	4.39	16.79	10.66
1981	1.90	4.09	6.01	7.39	5.63	11.14	5.03	7.96	5.06	16.67	11.09
1982	1.93	5.24	7.69	7.23	6.33	10.54	4.55	7.27	5.53	17.16	11.60
1983	1.72	6.06	R 8.36	6.73	6.80	9.25	4.47	R 6.96	R 5.97	17.80	R 11.84
1984	1.73	5.80	R 6.54	7.04	6.73	9.03	4.75	R 6.48	R 5.81	17.51	R 11.91
1985	1.89	5.78	R 6.16	R 6.84	6.26	8.33	4.29	R 6.47	R 5.72	17.86	R 12.06
1986	1.81	5.07	R 4.00	R 4.84	6.72	4.97	2.40	R 4.06	R 4.47	17.21	R 11.40
1987	1.55	4.46	R 4.14	R 4.86	6.46	7.80	3.05	R 4.46	R 4.25	17.12	R 11.29
1988	1.33	4.29	R 3.77	R 4.07	6.49	7.85	2.32	R 4.33	R 4.11	16.55	R 11.02
1989	1.56	4.74	R 4.41	R 5.10	6.02	8.55	2.72	R 4.90	R 4.67	16.89	R 11.71
1990	1.84	4.73	R 5.62	R 5.93	6.21	8.46	3.31	R 5.29	R 4.99	17.34	R 12.17
1991	1.41	4.80	R 6.06	R 5.49	9.80	9.02	2.22	R 5.78	R 4.85	17.46	R 12.39
1992	1.83	4.79	R 4.77	R 5.39	6.34	8.04	2.41	R 5.56	R 4.76	17.79	R 12.26
1993	1.85	6.39	R 4.69	R 4.96	6.20	R 8.69	2.22	R 4.84	R 5.03	17.53	R 12.24
1994	1.89	5.46	4.34	5.17	6.67	5.85	2.36	4.63	5.07	18.99	11.94
Expenditures in Million Nominal Dollars											
1970	3.1	29.9	18.1	0.9	1.4	3.1	0.2	19.2	26.2	176.4	299.6
1971	3.6	34.5	13.6	0.4	1.5	3.2	0.5	19.2	57.3	200.5	257.8
1972	2.9	37.7	13.8	0.3	1.6	4.4	0.8	20.9	61.5	224.6	298.3
1973	3.6	42.5	16.2	0.3	1.6	6.0	1.1	25.1	71.1	258.8	389.0
1974	13.8	46.0	24.9	0.5	2.2	6.9	3.1	37.6	97.4	347.2	444.6
1975	7.2	60.8	28.8	0.6	2.9	7.8	2.8	49.8	149.5	489.5	657.1
1976	6.6	66.1	30.3	0.6	3.1	6.4	2.9	45.3	120.0	484.8	614.6
1977	9.9	64.2	37.8	0.8	3.7	9.7	4.8	55.9	149.0	619.3	799.2
1978	5.2	113.9	35.3	0.8	2.5	8.9	2.7	51.9	170.9	666.2	831.1
1979	4.8	106.4	73.8	1.0	3.6	13.5	3.9	95.1	207.2	751.6	866.8
1980	5.9	144.9	61.5	1.5	4.9	16.4	16.9	67.8	247.7	914.2	1,161.9
1981	3.9	147.3	85.1	1.6	5.2	30.3	12.9	114.2	285.6	687.7	1,283.9
1982	7.6	205.0	86.4	1.4	5.3	19.2	14.6	107.1	319.7	1,082.9	1,402.6
1983	7.0	239.8	R 101.6	2.2	6.5	31.7	13.8	R 155.9	R 402.7	1,179.6	R 1,573.5
1984	8.0	212.0	R 107.0	1.2	7.4	19.4	19.7	R 154.6	R 375.4	1,232.9	R 1,696.3
1985	7.4	293.3	R 98.2	3.3	10.7	22.4	11.9	R 141.6	R 322.2	1,272.8	R 1,898.6
1986	6.4	196.6	R 65.0	4.0	6.6	14.5	14.7	R 107.7	R 300.9	1,260.7	R 1,591.6
1987	8.2	182.8	R 62.7	5.2	10.2	29.3	18.0	R 117.4	R 308.4	1,460.4	R 1,708.8
1988	7.3	167.0	R 67.1	5.2	8.6	29.7	6.9	R 98.7	R 293.9	1,478.6	R 1,770.7
1989	4.9	217.6	R 60.4	8.1	9.2	22.6	3.6	R 102.9	R 325.6	1,600.2	R 1,925.8
1990	8.3	202.9	R 77.6	4.7	12.3	23.8	4.6	R 123.8	R 331.8	1,643.9	R 1,974.6
1991	3.6	213.9	R 82.8	4.6	14.5	16.1	1.7	R 99.7	R 317.1	1,721.0	R 2,098.0
1992	5.1	252.3	R 54.3	3.8	13.0	16.1	3.4	R 86.6	R 346.9	1,807.6	R 2,164.6
1993	8.3	296.1	R 55.4	4.5	12.5	R 15.7	2.5	R 90.6	R 366.6	R 1,879.6	R 2,274.9
1994	6.5	300.2	62.1	3.0	13.9	6.4	2.3	87.9	396.6	1,628.0	2,224.6

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R- Revised data.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 290. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Virginia

Year	Primary Energy														Electricity ^c	Total Energy ^c	
	Coal			Natural Gas	Petroleum									Biofuels ^d			Total ^c
	Coling Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	0.40	0.42	0.42	0.49	0.58	0.50	0.68	1.46	5.08	2.35	0.34	0.96	0.78	—	4.57	3.08	6.61
1971	0.47	0.54	0.54	0.55	0.73	0.63	0.66	1.53	5.27	2.82	0.45	1.06	0.77	—	0.64	3.32	0.91
1972	—	0.47	0.47	0.58	0.78	0.63	0.69	1.53	6.58	2.84	0.40	1.06	0.74	—	0.62	3.60	0.94
1973	—	0.49	0.49	0.64	0.84	0.69	0.75	1.63	5.33	3.15	0.49	1.15	0.82	—	0.69	3.78	1.03
1974	—	1.34	1.34	0.91	1.44	1.87	2.03	2.34	7.22	4.41	1.65	2.15	1.89	—	1.52	6.81	2.03
1975	—	1.47	1.47	1.08	1.32	3.19	2.38	2.79	7.46	4.77	1.81	2.88	2.18	—	1.74	7.37	2.50
1976	1.64	1.27	1.27	1.43	1.85	2.29	2.49	2.87	7.05	5.01	1.80	3.15	2.38	—	1.96	7.17	2.68
1977	1.69	1.37	1.40	1.89	2.02	2.67	2.91	3.40	6.97	5.33	2.09	3.47	2.70	—	2.29	8.46	3.12
1978	1.73	1.68	1.62	2.10	2.22	2.82	3.10	3.88	7.80	5.39	2.02	3.61	2.67	—	2.42	8.94	3.33
1979	1.78	1.60	1.64	2.28	2.59	3.59	3.90	4.24	10.21	7.01	2.63	4.65	3.79	—	2.90	10.04	3.60
1980	1.88	1.84	1.89	2.99	3.60	5.33	5.84	4.49	14.38	8.97	3.98	7.28	5.36	—	3.77	12.19	4.68
1981	1.96	1.80	1.91	3.51	4.79	6.08	7.39	5.83	18.00	11.14	4.74	9.24	7.21	—	4.24	12.40	5.44
1982	2.05	1.93	1.95	4.27	4.14	8.87	7.23	6.33	17.25	10.54	4.23	9.55	6.87	—	4.19	13.89	5.71
1983	1.58	1.72	1.68	4.69	4.11	R 6.74	6.73	6.90	16.96	9.25	4.27	8.32	R 6.40	—	R 3.96	13.81	R 5.53
1984	1.91	1.73	1.78	4.77	4.60	R 6.70	7.04	6.73	17.53	9.03	4.76	8.59	R 6.51	—	R 4.03	12.78	R 5.34
1985	1.93	1.69	1.74	4.66	4.88	R 6.61	R 6.84	6.58	17.51	9.33	4.29	8.23	R 6.59	—	R 4.13	12.47	R 5.48
1986	1.76	1.61	1.64	3.91	4.21	R 4.60	R 4.84	6.72	15.56	6.87	2.40	R 5.94	R 4.81	—	R 3.25	12.06	R 4.68
1987	1.72	1.65	1.69	3.50	3.29	R 4.43	R 4.65	6.45	12.70	7.60	3.06	R 6.63	R 4.90	—	R 3.11	12.12	R 4.54
1988	1.73	1.63	1.67	3.22	3.25	R 3.87	R 4.07	6.49	14.81	7.85	2.32	R 5.70	R 4.54	—	R 2.92	11.95	4.44
1989	1.75	1.56	1.60	3.78	2.98	R 4.85	R 5.10	6.02	14.48	8.55	2.72	R 6.05	4.50	—	R 3.10	12.33	4.71
1990	1.80	1.84	1.87	3.82	2.89	R 5.64	R 5.88	8.21	14.50	9.45	3.31	R 6.52	R 5.99	1.16	R 3.14	12.51	R 4.80
1991	1.72	1.81	1.83	3.68	3.10	R 5.22	R 5.49	9.80	16.79	9.02	2.32	R 6.09	R 5.21	1.29	R 3.04	12.40	R 4.48
1992	1.74	1.63	1.65	3.58	2.36	R 6.04	R 5.30	9.34	19.43	9.04	2.41	R 6.34	R 4.89	1.25	R 3.06	12.54	R 4.69
1993	1.68	1.65	1.66	3.71	2.98	R 4.74	R 4.98	9.20	16.94	R 9.69	2.22	R 5.66	R 4.87	1.25	R 3.19	12.29	R 4.78
1994	1.67	1.66	1.63	3.03	2.91	4.63	4.87	7.58	19.18	9.65	2.38	5.64	4.92	1.22	2.97	12.18	4.59
Expenditures in Million Nominal Dollars																	
1970	0.3	44.8	42.1	22.5	10.2	15.3	1.5	3.8	8.9	8.6	0.6	6.8	67.8	—	132.2	78.5	287.8
1971	0.3	41.1	41.4	27.4	13.8	13.7	1.7	4.0	9.9	9.3	20.0	7.6	77.8	—	145.6	84.6	231.2
1972	—	32.4	32.4	31.2	14.2	12.7	2.0	5.3	10.1	7.7	21.8	8.4	82.1	—	145.7	97.8	243.5
1973	—	31.1	31.1	34.6	17.5	15.5	1.2	5.6	13.0	9.6	29.2	10.1	100.9	—	168.4	109.0	275.8
1974	—	74.5	74.5	48.8	29.0	31.5	2.7	9.2	17.0	11.6	95.6	19.2	215.1	—	338.4	172.1	506.4
1975	—	87.0	87.8	38.4	28.1	38.8	2.2	12.0	13.9	11.5	95.4	22.4	212.4	—	348.7	228.3	577.1
1976	0.3	68.7	67.0	45.7	33.2	42.4	3.5	11.5	14.6	10.5	92.8	95.9	304.4	—	418.1	248.7	666.8
1977	9.9	68.8	76.5	57.3	39.2	57.1	3.4	18.3	17.8	10.8	118.1	129.6	382.3	—	625.1	302.1	825.2
1978	24.3	72.8	96.9	69.4	51.0	61.0	3.5	18.8	20.9	9.3	83.4	145.7	381.2	—	547.5	324.7	872.2
1979	32.7	100.8	133.3	94.0	55.9	69.0	8.4	29.2	29.4	12.2	101.2	220.2	546.4	—	772.7	397.1	1,159.8
1980	33.9	115.4	149.4	101.3	63.6	111.0	9.8	38.3	36.8	14.6	118.9	332.0	897.0	—	1,007.3	487.6	1,474.8
1981	39.4	138.7	178.1	181.7	74.9	142.8	9.1	24.6	44.2	13.6	58.3	248.4	617.1	—	879.9	495.3	1,472.2
1982	29.7	140.8	170.5	214.9	85.3	140.7	7.6	30.1	38.6	11.3	58.9	177.7	621.2	—	906.3	563.9	1,470.2
1983	38.1	139.2	171.3	223.9	77.1	R 114.7	4.0	24.3	39.8	7.7	59.3	198.4	R 493.3	—	R 889.3	589.0	R 1,477.3
1984	51.0	151.3	202.2	223.4	109.1	R 115.1	2.1	35.5	44.1	18.9	84.6	178.5	R 585.9	—	R 1,011.4	662.5	R 1,573.9
1985	46.7	156.0	183.7	239.5	132.0	R 112.6	8.9	58.1	41.9	33.6	83.5	156.4	R 633.5	—	R 1,188.7	896.4	R 1,806.1
1986	42.1	133.9	175.9	183.2	124.2	R 68.1	R 5.2	47.7	35.6	25.2	48.5	R 73.3	R 445.8	—	R 804.9	580.5	R 1,385.4
1987	43.4	141.0	184.4	195.9	98.2	R 69.7	R 3.9	59.3	32.7	29.5	48.1	R 94.3	R 438.1	—	R 817.8	604.1	R 1,421.9
1988	42.8	142.2	185.0	172.9	77.6	R 67.4	R 3.4	60.5	36.3	29.5	34.7	R 70.4	R 338.8	—	R 756.1	627.9	R 1,383.9
1989	44.0	137.9	181.9	217.1	82.4	R 67.4	R 4.1	40.0	36.9	34.5	41.4	R 72.9	R 409.5	—	R 808.8	676.8	R 1,485.2
1990	42.7	163.1	195.8	263.7	93.3	R 69.8	R 2.8	47.1	38.2	34.8	81.2	R 98.7	R 498.7	1.3	R 936.1	886.4	R 1,823.8
1991	44.9	172.2	217.1	217.6	76.9	R 68.4	2.9	61.9	39.4	31.9	26.3	R 106.7	R 434.4	21.9	R 891.0	889.0	R 1,590.9
1992	46.4	145.6	191.0	244.6	58.5	R 73.2	R 1.7	52.2	46.5	31.8	35.2	R 114.6	R 413.7	21.6	R 870.0	886.8	R 1,587.5
1993	43.4	117.0	160.4	R 270.6	72.7	R 81.2	R 2.5	54.5	48.1	R 29.6	R 29.3	R 102.4	R 418.3	21.6	R 870.8	710.4	R 1,581.2
1994	40.7	115.7	157.4	288.3	75.9	96.2	2.8	46.8	48.6	31.0	29.4	103.9	406.8	23.3	845.8	735.9	1,581.7

^a Liquefied petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990

Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 291. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Virginia

Year	Primary Energy										Total	Electricity	Total Energy
	Coal	Natural Gas	Petroleum										
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LP-G ^a	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	5.42	—	2.17	1.25	0.73	1.48	5.08	2.85	8.38	1.85	1.85	—	1.85
1971	0.54	—	2.21	1.32	0.78	1.53	5.27	2.82	0.88	1.88	1.88	—	1.88
1972	0.47	—	2.19	1.32	0.78	1.53	5.58	2.94	0.44	2.12	2.12	—	2.12
1973	0.40	—	2.36	1.59	0.90	1.63	5.33	3.15	0.51	2.35	2.35	—	2.35
1974	1.34	—	3.23	2.58	1.58	2.34	7.22	4.41	1.54	3.54	3.54	—	3.54
1975	1.47	—	3.48	2.72	2.03	2.79	7.48	4.77	1.61	3.81	3.81	—	3.81
1976	1.27	—	3.59	2.90	2.17	2.87	7.05	5.01	1.87	4.14	4.14	—	4.14
1977	1.37	—	3.97	3.33	2.65	3.40	6.97	5.33	2.00	4.51	4.51	12.47	4.51
1978	—	—	4.29	3.51	2.83	3.58	7.60	5.59	1.64	4.62	4.62	14.62	4.62
1979	—	—	5.73	4.67	3.98	4.24	10.21	7.01	2.68	8.08	8.08	15.02	8.08
1980	—	—	8.02	7.37	6.48	4.80	14.36	9.87	3.33	8.72	8.72	14.45	8.73
1981	—	—	10.84	8.83	7.61	5.83	18.00	11.14	4.36	9.96	9.96	17.52	9.96
1982	—	—	10.92	8.48	7.18	6.33	17.25	10.54	4.17	9.58	9.58	17.82	9.58
1983	—	—	10.44	8.67	^R 6.43	6.60	18.88	9.25	4.22	8.88	8.88	18.06	^R 6.67
1984	—	—	10.27	8.38	^R 6.18	6.73	17.63	9.03	4.45	8.48	8.48	22.72	8.48
1985	—	—	8.99	8.34	^R 6.79	6.98	17.61	9.33	4.18	8.55	8.55	17.33	8.55
1986	—	—	8.41	8.34	3.83	8.72	15.59	8.67	1.91	6.29	6.29	16.20	6.29
1987	—	—	7.55	6.93	4.05	8.45	12.70	7.60	2.91	6.85	6.85	16.57	6.85
1988	—	—	7.41	6.74	3.77	8.49	14.61	7.65	1.98	6.89	6.89	16.10	6.90
1989	—	—	8.28	7.26	4.34	8.08	14.46	8.55	2.34	7.53	7.53	15.08	7.54
1990	—	—	9.32	8.40	5.83	9.21	14.69	9.46	3.83	8.46	8.46	15.55	8.47
1991	—	—	8.71	6.10	4.78	9.50	18.79	9.02	1.82	8.08	8.08	15.68	8.09
1992	—	—	6.54	7.79	4.47	9.34	19.43	9.04	2.05	8.11	8.11	16.33	8.11
1993	—	8.38	8.24	7.72	4.16	9.20	18.94	^R 8.68	1.83	^R 7.99	^R 7.99	15.32	^R 7.98
1994	—	2.46	7.96	7.72	3.84	7.87	19.18	8.85	1.90	7.68	7.68	16.48	7.67

Expenditures in Million Nominal Dollars													
1970	0.1	—	3.8	58.8	44.9	0.3	13.3	714.9	22.4	685.7	685.7	—	685.7
1971	0.1	—	3.8	65.6	50.2	0.4	14.0	783.1	28.0	915.2	915.2	—	915.2
1972	(a)	—	3.8	67.9	48.5	0.4	15.9	939.6	30.3	1,007.4	1,007.4	—	1,007.4
1973	(a)	—	3.8	62.2	62.2	0.4	15.4	853.6	30.2	1,157.9	1,157.9	—	1,157.9
1974	(a)	—	5.0	144.5	99.4	0.6	20.0	1,323.2	70.6	1,663.4	1,663.4	—	1,663.4
1975	(a)	—	4.4	130.4	131.8	0.6	18.4	1,486.4	84.4	1,816.5	1,816.5	—	1,816.5
1976	(a)	—	4.1	157.6	145.2	0.7	20.3	1,624.6	51.5	2,014.1	2,014.1	—	2,014.1
1977	(a)	—	4.8	199.2	179.4	1.0	22.4	1,783.3	58.1	2,248.2	2,248.2	0.3	2,248.5
1978	—	—	5.5	221.1	195.7	1.0	26.2	1,985.3	44.2	2,359.0	2,359.0	0.6	2,359.6
1979	—	—	6.0	354.4	267.3	1.4	36.8	2,290.4	74.7	3,031.1	3,031.1	1.5	3,032.6
1980	—	—	9.9	478.3	444.2	0.8	46.1	3,858.9	82.3	4,127.6	4,127.6	1.5	4,129.1
1981	—	—	10.1	631.4	478.9	2.1	55.6	3,422.8	115.8	4,716.4	4,716.4	2.2	4,718.6
1982	—	—	9.9	555.1	444.1	1.8	48.5	3,200.6	80.1	4,340.1	4,340.1	2.2	4,342.3
1983	—	—	8.8	681.1	^R 391.2	2.2	50.0	2,859.6	86.6	^R 4,059.4	^R 4,059.4	2.3	^R 4,061.7
1984	—	—	8.8	686.1	^R 359.2	3.4	55.3	2,897.6	83.4	^R 4,070.7	^R 4,070.7	3.1	^R 4,073.8
1985	—	—	6.8	663.2	387.1	3.4	51.8	3,898.1	88.9	4,232.8	4,232.8	3.2	4,235.2
1986	—	—	6.8	671.4	283.6	1.8	44.8	2,347.8	96.1	3,291.6	3,291.6	4.2	3,295.8
1987	—	—	2.8	655.5	327.8	2.5	41.1	2,782.8	49.7	3,811.0	3,811.0	4.2	3,815.2
1988	—	—	2.8	738.2	331.6	3.0	45.6	2,887.0	34.9	4,043.0	4,043.0	4.2	4,047.2
1989	—	—	3.1	692.9	363.1	2.0	46.3	3,125.0	39.5	4,292.0	4,292.0	3.6	4,295.6
1990	—	—	3.3	828.5	408.8	2.1	48.0	3,419.8	84.1	4,882.4	4,882.4	4.0	4,886.4
1991	—	—	3.1	795.7	318.7	3.6	49.4	3,282.2	43.2	4,609.0	4,609.0	4.0	4,612.0
1992	—	—	4.4	787.3	294.4	3.1	50.9	3,383.5	37.0	4,517.9	4,517.9	4.3	4,522.2
1993	—	(a)	4.4	792.2	279.6	3.2	57.9	^R 3,410.9	27.5	^R 4,575.7	^R 4,575.7	^R 4.1	^R 4,579.8
1994	—	0.1	4.1	849.8	251.3	5.2	61.3	3,453.1	23.7	4,658.1	4,658.2	4.0	4,662.2

^a Liquefied petroleum gases

R-Reviewed data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)-Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 292. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Virginia

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.36	0.29	0.31	0.26	0.38	0.32	—	—	0.35
1971	0.45	0.35	0.40	0.46	0.37	0.40	—	—	0.42
1972	0.43	0.39	0.46	0.53	0.38	0.48	0.25	—	0.44
1973	0.48	0.39	0.55	0.67	0.38	0.59	0.25	—	0.47
1974	1.22	0.95	1.64	2.09	—	1.67	0.28	—	1.26
1975	1.14	0.89	1.84	2.19	—	1.88	0.28	—	1.34
1976	1.14	1.14	1.79	2.38	—	1.51	0.33	—	1.34
1977	1.36	1.63	2.14	2.79	—	2.17	0.43	—	1.49
1978	1.59	1.82	1.97	2.75	—	2.00	0.47	—	1.56
1979	1.68	2.22	2.85	3.98	—	2.98	0.48	—	1.69
1980	1.71	2.89	3.94	5.24	—	4.83	0.74	—	2.89
1981	1.80	3.55	5.06	7.05	—	5.22	0.69	—	1.84
1982	1.99	3.94	4.67	6.85	—	4.89	0.55	—	1.41
1983	1.70	4.20	4.48	5.62	—	4.80	0.46	—	1.20
1984	1.83	4.23	4.82	5.95	—	4.77	0.53	—	1.35
1985	1.88	3.44	4.37	5.57	—	4.69	0.55	—	1.18
1986	1.71	1.93	2.09	3.99	—	2.16	0.33	—	1.14
1987	1.59	2.42	3.06	3.73	—	3.11	0.56	—	1.23
1988	1.55	2.05	2.30	3.38	—	2.36	0.53	—	1.11
1989	1.55	2.46	2.78	4.01	—	2.89	0.39	—	1.29
1990	1.85	2.88	3.88	5.83	—	4.14	0.47	—	1.86
1991	1.62	1.82	2.13	4.64	—	2.36	0.53	—	1.05
1992	1.47	2.37	2.33	4.71	—	2.59	0.43	—	1.01
1993	1.47	2.79	2.03	4.11	—	2.16	0.43	—	1.07
1994	1.45	2.57	1.88	3.85	—	2.20	0.45	—	1.02
Expenditures in Million Nominal Dollars									
1970	63.1	1.5	23.8	1.5	1.8	37.8	—	—	101.8
1971	63.8	1.8	59.0	1.5	1.8	98.9	—	—	121.5
1972	52.4	1.9	71.2	3.6	2.4	77.1	1.2	—	132.7
1973	67.8	1.7	86.3	4.8	0.8	91.7	19.1	—	170.1
1974	129.1	4.6	277.8	16.8	—	298.6	17.2	—	446.8
1975	189.3	8.5	386.7	7.9	—	377.8	27.7	—	495.1
1976	157.8	0.8	280.2	14.0	—	294.2	28.1	—	480.7
1977	185.2	2.6	365.7	25.5	—	391.3	43.7	—	609.8
1978	167.0	2.2	328.6	17.5	—	348.2	73.0	—	588.4
1979	214.5	6.7	450.7	16.9	—	467.8	37.2	—	728.0
1980	238.2	7.3	391.0	27.1	—	398.1	82.8	—	726.4
1981	313.4	6.5	188.5	24.8	—	224.3	118.2	—	682.4
1982	317.8	12.9	68.0	13.1	—	101.2	108.3	—	536.1
1983	283.1	14.6	68.8	8.4	—	78.3	94.2	—	470.2
1984	338.1	13.9	67.3	16.7	—	78.0	87.2	—	527.1
1985	336.8	5.5	35.7	11.8	—	46.7	121.5	—	514.5
1986	322.1	1.7	60.8	5.4	—	66.3	120.4	—	510.8
1987	336.2	4.3	82.3	7.0	—	89.4	108.9	—	538.8
1988	336.3	2.4	58.2	4.8	—	64.6	119.0	—	522.4
1989	376.2	9.8	103.3	13.9	—	122.2	80.1	—	588.3
1990	323.2	17.8	32.3	16.4	—	48.5	118.8	—	586.8
1991	333.0	16.0	37.6	9.2	—	45.8	135.2	—	532.0
1992	327.4	27.2	29.9	7.4	—	37.3	106.2	—	500.1
1993	325.0	57.1	40.6	5.3	—	45.9	103.7	—	561.5
1994	321.3	61.1	41.6	11.0	—	52.5	123.2	—	548.1

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
 —No consumption.

Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 293. Energy Price and Expenditure Estimates by Source, 1970-1994, Washington

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biofuels	Total ^c			
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																	
1970	—	0.54	0.54	0.71	1.18	0.73	2.50	2.82	0.32	\$ 6.96	1.71	0.16	0.65	1.42	0.16	2.82	1.59
1971	—	0.57	0.57	0.75	1.24	0.77	2.56	2.89	0.63	\$ 1.02	1.76	0.18	—	1.47	0.18	2.11	1.64
1972	—	0.21	0.21	0.80	1.28	0.78	2.54	2.88	0.51	\$ 0.97	1.70	0.19	—	1.37	0.18	2.19	1.64
1973	—	0.40	0.40	0.84	1.48	0.91	3.50	3.14	0.71	\$ 1.01	1.94	0.20	—	1.47	0.31	2.31	1.79
1974	—	0.43	0.43	1.00	2.35	1.57	3.40	4.29	1.34	\$ 1.88	2.87	0.21	—	2.15	0.29	2.40	2.40
1975	—	0.51	0.51	1.80	2.88	2.04	4.46	6.82	1.85	\$ 2.88	3.29	0.24	—	2.51	0.46	2.77	2.82
1976	—	0.53	0.53	2.01	2.82	2.32	3.80	4.82	1.89	\$ 2.11	3.49	0.25	—	2.82	0.51	2.81	3.06
1977	—	0.51	0.51	2.50	3.09	2.62	4.84	5.19	1.92	\$ 2.27	3.74	0.27	—	2.97	0.57	3.06	3.36
1978	—	0.51	0.51	2.71	3.21	2.86	4.81	5.40	2.05	\$ 2.37	3.91	0.30	—	3.23	0.59	3.08	3.52
1979	—	1.00	1.00	3.15	4.65	3.79	6.85	7.22	2.40	\$ 2.97	5.15	0.34	—	4.11	0.70	3.38	4.30
1980	—	1.16	1.16	4.48	6.88	5.21	6.78	9.82	3.34	\$ 4.44	7.11	0.42	—	6.83	0.81	4.48	6.96
1981	—	1.30	1.30	4.80	7.88	7.65	8.28	11.03	5.09	\$ 6.27	8.85	0.46	—	6.90	1.00	5.31	7.10
1982	—	1.53	1.53	5.83	8.13	7.37	8.46	10.82	5.23	\$ 6.19	8.43	0.54	—	6.99	1.07	7.35	7.75
1983	—	1.74	1.74	5.89	\$ 7.57	\$ 6.51	9.24	9.09	5.18	\$ 6.69	\$ 7.95	0.56	1.12	\$ 6.49	1.26	8.28	\$ 7.70
1984	—	1.82	1.82	5.50	\$ 7.73	\$ 6.32	8.26	9.25	4.76	\$ 6.85	\$ 7.69	0.57	1.28	\$ 6.28	1.26	9.08	\$ 7.74
1985	—	1.74	1.74	\$ 5.23	\$ 7.88	\$ 6.83	8.17	9.31	4.83	\$ 6.68	\$ 7.82	0.71	0.78	\$ 6.99	1.37	9.18	\$ 7.85
1986	—	1.78	1.78	4.53	\$ 5.84	4.01	9.21	7.29	2.55	\$ 5.32	\$ 6.86	0.70	0.32	\$ 4.70	1.06	9.41	\$ 6.44
1987	—	1.73	1.73	3.61	\$ 5.27	4.02	8.93	7.36	2.69	\$ 4.01	\$ 5.77	0.70	0.35	\$ 4.73	1.28	9.80	\$ 6.49
1988	—	1.62	1.62	3.96	\$ 5.24	3.79	9.06	7.40	2.17	\$ 4.05	\$ 5.98	0.49	0.87	\$ 4.58	1.15	10.13	\$ 6.51
1989	—	1.62	1.62	4.02	\$ 6.05	4.50	9.37	8.03	2.19	\$ 3.96	\$ 6.12	0.49	0.79	\$ 4.97	1.31	10.34	\$ 6.91
1990	—	1.86	1.86	3.89	\$ 7.91	5.98	10.14	9.45	2.70	\$ 3.71	\$ 7.04	0.47	\$ 2.86	\$ 5.51	1.09	10.88	\$ 7.19
1991	—	1.65	1.65	3.55	7.79	4.79	10.74	9.14	5.16	\$ 4.21	\$ 7.10	0.45	2.11	\$ 5.61	1.16	9.96	\$ 7.21
1992	—	1.45	1.45	3.70	7.75	4.56	10.58	9.47	1.85	\$ 3.29	\$ 6.27	0.36	2.11	\$ 4.93	1.07	10.13	\$ 6.73
1993	—	1.45	1.45	3.97	\$ 9.15	4.54	\$ 10.23	\$ 9.16	2.00	\$ 3.43	\$ 6.60	0.46	2.03	\$ 5.09	1.04	10.77	\$ 7.05
1994	—	1.46	1.46	3.97	7.93	4.09	10.95	9.65	2.03	3.43	6.74	0.47	2.01	5.19	1.04	11.85	7.33
Expenditure in Million Nominal Dollars																	
1970	—	3.2	3.2	97.8	129.8	42.3	16.3	653.2	17.9	\$ 68.4	812.2	5.2	(n)	917.8	-3.2	398.8	1,228.4
1971	—	3.7	3.7	107.8	133.6	50.4	15.5	684.7	27.6	\$ 62.7	856.4	4.9	—	972.8	-4.9	394.9	1,302.8
1972	—	7.9	7.9	134.2	139.4	45.6	12.9	676.8	33.0	\$ 71.8	876.8	5.6	—	1,014.4	-11.7	409.2	1,412.0
1973	—	26.1	26.1	451.0	171.9	58.7	14.8	697.3	40.3	\$ 71.9	1,018.0	9.4	—	1,202.4	-35.2	428.8	1,596.0
1974	—	23.2	23.2	190.8	226.3	107.9	13.7	898.8	69.7	\$ 98.3	1,412.7	9.0	—	1,625.4	-26.8	465.9	2,084.2
1975	—	46.9	46.9	242.3	268.4	166.7	11.6	984.2	82.8	\$ 133.4	1,831.9	9.7	—	1,928.9	-46.8	523.9	2,406.2
1976	—	67.7	67.7	273.1	305.6	169.3	10.0	1,287.9	64.7	\$ 142.0	1,788.8	6.6	—	2,134.2	-57.3	582.3	2,630.2
1977	—	82.7	82.7	318.7	381.8	177.4	15.7	1,236.2	80.7	\$ 174.0	2,063.6	12.8	—	2,456.8	-76.4	583.9	2,977.1
1978	—	77.4	77.4	308.1	385.6	184.0	10.0	1,344.7	121.7	\$ 171.3	2,228.8	13.7	—	2,637.0	-67.4	685.2	3,294.8
1979	—	98.6	98.6	453.5	592.4	270.3	29.0	1,720.9	179.1	\$ 176.0	2,553.7	13.3	—	3,284.4	-98.2	785.7	4,101.9
1980	—	164.2	164.2	598.5	718.7	480.5	34.4	2,222.4	327.7	\$ 229.1	3,998.8	9.8	—	4,583.8	-48.7	953.4	5,440.7
1981	—	118.0	118.0	574.1	806.0	512.4	43.2	2,493.2	490.8	\$ 259.7	4,594.4	10.8	—	5,297.3	-103.3	1,429.1	6,622.0
1982	—	120.9	120.9	617.7	869.3	629.9	47.6	2,398.7	404.2	\$ 188.4	4,416.1	21.8	—	5,176.5	-110.1	1,846.7	6,913.1
1983	—	138.9	138.9	582.3	\$ 744.9	\$ 476.8	51.8	2,138.2	132.2	\$ 241.0	\$ 3,782.9	22.1	0.8	\$ 4,527.8	-138.4	2,083.3	\$ 6,484.7
1984	—	150.1	150.1	678.9	\$ 816.0	\$ 555.6	55.8	2,242.1	275.3	\$ 264.6	\$ 4,198.5	38.7	1.7	\$ 5,083.9	-167.1	2,341.5	\$ 7,243.2
1985	—	163.4	163.4	688.4	\$ 988.1	\$ 822.2	69.3	2,151.5	314.2	\$ 255.8	\$ 4,968.4	61.4	2.3	\$ 5,186.2	-203.8	2,321.7	\$ 7,231.8
1986	—	112.7	112.7	610.2	\$ 787.4	385.1	67.5	1,708.4	238.4	\$ 175.3	\$ 3,460.0	63.7	0.6	\$ 4,137.3	-158.9	2,312.1	\$ 6,293.5
1987	—	105.3	105.3	470.0	\$ 772.4	421.2	91.4	1,677.9	213.1	\$ 181.8	\$ 3,657.6	41.8	3.4	\$ 4,344.4	-194.0	2,427.3	\$ 6,577.7
1988	—	100.9	100.9	551.3	\$ 783.9	440.3	74.8	1,874.4	210.7	\$ 179.6	\$ 3,843.7	31.8	3.4	\$ 4,390.0	-182.8	2,800.5	\$ 7,006.7
1989	—	157.5	157.5	627.7	\$ 650.7	632.5	80.9	2,288.1	298.5	\$ 202.7	\$ 4,148.5	31.7	3.0	\$ 4,386.5	-221.5	2,983.9	\$ 7,728.8
1990	—	141.3	141.3	654.3	\$ 680.2	718.0	71.9	2,499.8	289.6	\$ 214.2	\$ 4,991.2	28.1	\$ 75.5	\$ 5,791.4	-357.2	3,633.7	\$ 8,578.8
1991	—	147.0	147.0	680.0	\$ 693.4	672.7	79.3	2,604.1	522.2	\$ 237.7	\$ 4,849.4	20.4	61.5	\$ 5,788.3	-152.5	3,089.4	\$ 8,705.2
1992	—	153.6	153.6	810.5	\$ 691.7	610.4	75.2	2,747.7	260.4	\$ 264.5	\$ 4,807.9	23.2	63.0	\$ 5,678.1	-182.5	3,014.8	\$ 8,510.4
1993	—	141.8	141.8	771.1	\$ 732.3	670.3	\$ 71.7	\$ 2,780.6	\$ 196.9	\$ 241.4	\$ 4,573.3	35.2	79.0	\$ 5,698.3	\$ 184.5	3,248.9	\$ 8,863.6
1994	—	158.2	158.2	822.2	867.7	497.8	83.5	2,918.8	197.1	274.8	4,836.2	33.8	77.8	5,821.1	-167.4	3,446.0	9,194.7

^a Liquidated petroleum gases.^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(n) Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 294. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Washington

Year	Primary Energy								Electricity	Total Energy ^c
	Coal	Natural Gas	Petroleum				Barkfuels ^b	Total ^e		
			Distillate Fuel	Kerosene	LPG ^a	Total				
Prices in Nominal Dollars per Million Btu										
1970	0.98	1.33	1.48	2.47	3.09	1.57	—	1.47	2.12	2.92
1971	1.05	1.30	1.48	2.64	3.07	1.95	—	1.52	3.15	2.19
1972	1.15	1.39	1.49	2.78	3.08	1.63	—	1.51	3.25	2.27
1973	1.15	1.48	1.71	2.99	4.58	1.93	—	1.71	3.96	2.46
1974	1.30	1.69	2.63	3.47	4.06	2.78	—	2.20	3.56	2.87
1975	1.14	2.18	2.89	3.61	8.73	2.97	—	2.84	3.94	3.29
1976	1.90	2.58	3.11	4.03	4.17	3.20	—	2.99	4.01	3.46
1977	1.36	2.99	3.34	4.31	5.93	3.52	—	3.24	4.35	3.80
1978	2.55	3.32	3.50	4.54	6.27	3.71	—	3.62	4.47	4.03
1979	4.00	3.77	5.03	6.49	7.53	5.23	—	4.45	4.79	4.64
1980	4.28	5.05	7.27	9.80	8.12	7.48	—	5.99	5.58	5.73
1981	4.55	5.73	8.40	11.62	10.88	9.05	—	7.17	6.73	6.88
1982	4.81	6.52	8.48	11.43	9.61	9.69	—	7.35	8.19	7.69
1983	3.75	6.69	8.37	10.83	10.92	9.70	—	7.32	10.46	9.40
1984	3.75	6.54	7.88	10.07	10.73	8.17	—	7.08	10.79	9.44
1985	3.67	6.39	7.79	9.82	8.48	7.88	—	6.82	11.14	9.53
1986	3.79	6.75	6.95	7.61	9.77	6.28	—	6.93	11.45	9.45
1987	3.75	5.25	8.10	7.80	10.26	6.62	—	5.78	12.20	9.83
1988	3.37	5.36	6.03	7.70	10.31	6.47	—	5.72	12.45	9.90
1989	3.69	6.32	6.71	8.58	13.85	7.61	—	6.02	12.68	10.19
1990	3.77	4.87	7.99	16.10	12.39	8.46	^d 4.75	^d 5.88	12.98	^d 9.43
1991	5.21	4.64	7.60	9.97	12.82	8.70	4.75	^R 5.58	12.79	^R 8.20
1992	3.75	4.84	7.24	9.25	12.21	9.40	4.75	^R 5.56	13.07	^R 9.38
1993	3.77	5.05	7.67	9.80	11.37	8.70	4.75	^R 5.61	13.47	^R 9.68
1994	3.74	5.48	7.30	9.32	12.25	8.69	4.75	5.94	14.58	10.34
Expenditures in Million Nominal Dollars										
1970	8.9	44.8	57.4	1.6	13.2	72.2	—	117.5	169.5	288.8
1971	9.4	48.7	60.1	2.2	13.4	75.6	—	124.7	177.6	302.3
1972	9.3	56.7	67.7	1.9	10.2	69.8	—	126.4	209.6	336.2
1973	9.2	56.8	62.2	1.3	13.1	76.7	—	133.4	220.5	353.9
1974	9.1	62.9	75.0	4.5	10.4	88.9	—	152.9	237.1	390.1
1975	9.2	78.1	78.3	4.2	8.6	91.1	—	168.4	256.9	427.3
1976	9.3	67.2	89.8	6.2	6.4	102.4	—	169.9	277.6	467.5
1977	1.4	95.4	106.4	6.2	10.4	125.1	—	221.9	306.9	527.8
1978	3.3	95.6	109.3	9.1	12.0	130.4	—	229.5	334.3	563.8
1979	4.0	129.6	141.8	5.0	15.7	162.4	—	299.0	392.3	688.3
1980	5.8	158.9	144.9	3.6	18.7	167.2	—	330.8	488.8	794.5
1981	4.4	161.7	145.8	34.9	25.2	208.0	—	374.1	683.9	1,027.9
1982	6.5	200.2	160.4	4.7	24.0	189.1	—	385.8	814.7	1,210.5
1983	6.6	178.8	131.3	2.7	30.5	164.6	—	349.8	973.4	1,323.2
1984	6.0	200.0	139.7	4.2	18.6	162.6	—	385.8	963.9	1,352.6
1985	6.5	217.8	140.8	4.8	16.8	161.7	—	385.8	1,064.8	1,447.8
1986	2.6	179.1	108.4	2.2	16.2	123.8	—	305.6	1,095.3	1,340.8
1987	1.5	161.5	107.7	1.8	25.0	134.5	—	297.8	1,072.8	1,370.4
1988	3.0	192.4	109.2	2.6	20.0	126.8	—	324.2	1,158.0	1,480.2
1989	2.5	210.8	107.3	2.6	31.0	140.9	—	354.1	1,241.0	1,595.1
1990	1.9	282.8	138.8	2.8	29.3	170.1	^d 34.1	^d 486.7	1,286.0	^d 1,674.7
1991	9.3	216.3	112.8	2.8	40.7	156.1	35.9	^R 411.6	1,304.0	^R 1,715.6
1992	2.7	215.2	77.1	1.6	38.9	117.5	37.9	^R 373.2	1,288.0	^R 1,641.2
1993	3.4	278.5	67.8	2.4	37.8	108.0	32.2	^R 422.1	1,422.0	^R 1,844.1
1994	2.5	302.9	64.7	3.5	42.0	110.2	31.5	447.2	1,476.0	1,923.2

^a Liquid petroleum gases^b Commercial sector prices and expenditures for wood and waste are included in the residential sector^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990^R Revised data

—No consumption

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 295. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1984, Washington

Year	Primary Energy										Total	Electricity	Total Energy ^b
	Coal	Natural Gas	Distillate Fuel	Kerosene	Petroleum		Residual Fuel	Total	Total				
					LPG ^a	Motor Gasoline							
										Prices in Nominal Dollars per Million Btu			
1970	0.52	1.06	1.21	0.84	1.19	2.82	0.33	1.21	1.12	3.21	3.21	1.80	
1971	0.54	1.07	1.28	0.86	1.26	2.93	0.32	1.30	1.16	3.26	3.26	1.95	
1972	0.40	1.10	1.26	0.87	1.28	2.88	0.40	1.28	1.18	3.36	3.36	2.11	
1973	0.57	1.18	1.51	1.16	1.38	3.14	0.72	1.50	1.20	3.41	3.41	2.15	
1974	0.63	1.27	2.47	1.87	2.24	4.29	0.72	2.25	1.58	3.76	3.76	2.47	
1975	0.80	1.75	2.60	2.51	2.67	4.62	2.49	2.67	2.66	4.18	4.18	2.84	
1976	1.20	2.14	2.80	2.83	2.90	5.18	2.58	3.19	2.42	4.05	4.05	3.15	
1977	1.26	2.56	3.12	3.13	3.54	5.18	2.35	3.29	2.73	4.60	4.60	3.58	
1978	1.42	2.72	3.23	3.43	3.28	5.40	2.51	3.45	3.45	4.90	4.90	3.70	
1979	1.71	3.91	3.73	4.74	4.87	7.22	2.71	4.84	3.66	4.92	4.92	4.25	
1980	2.58	4.59	5.80	7.04	5.68	8.82	3.61	5.78	5.03	5.67	5.67	5.36	
1981	2.57	5.09	7.86	7.93	5.17	11.03	6.50	7.86	5.75	7.06	7.06	6.32	
1982	2.67	5.90	8.02	8.87	7.53	10.62	6.62	8.62	6.00	6.90	6.90	7.59	
1983	2.34	5.83	8.56	6.86	9.04	9.09	5.87	8.66	5.89	8.88	8.88	8.71	
1984	2.36	5.92	7.32	7.43	9.04	9.25	4.56	8.53	5.79	10.24	10.24	9.74	
1985	2.30	5.24	6.81	6.94	8.34	8.31	4.85	8.33	6.51	18.87	18.87	17.89	
1986	2.22	4.91	6.42	6.46	9.06	7.33	2.07	8.05	6.48	10.85	10.85	10.07	
1987	2.36	4.30	6.22	6.22	8.62	7.30	2.86	8.78	6.45	10.62	10.62	9.09	
1988	2.34	4.47	6.03	6.03	8.06	7.40	2.01	8.42	6.43	11.01	11.01	9.87	
1989	2.38	4.54	6.47	6.47	8.06	8.03	2.83	8.52	6.87	11.47	11.47	10.43	
1990	2.48	4.03	6.45	6.45	8.03	8.03	2.84	8.53	6.88	11.83	11.83	10.80	
1991	2.73	3.94	6.13	6.13	8.28	8.14	2.80	8.52	6.84	11.77	11.77	10.56	
1992	2.72	4.18	6.03	6.03	8.28	8.14	2.86	8.52	6.84	12.15	12.15	10.20	
1993	2.63	4.37	5.19	5.19	8.21	8.16	2.06	8.50	6.44	12.77	12.77	9.44	
1994	3.05	4.71	4.50	5.08	10.10	9.68	2.37	5.28	4.73	13.43	13.43	10.02	

Year	Expenditures in Million Nominal Dollars										Total	Electricity	Total Energy ^b			
	Coal	Natural Gas	Distillate Fuel	Kerosene	Petroleum		Residual Fuel	Total	Total	Total						
					LPG ^a	Motor Gasoline										
1970	0.5	20.4	15.7	6.1	5.9	4.7	1.8	23.3	43.8	73.5	73.5	115.7				
1971	0.4	23.3	18.4	6.1	5.9	4.8	1.8	25.9	47.5	80.4	80.4	127.9				
1972	0.2	27.0	16.7	6.1	6.7	4.8	1.5	28.8	50.1	110.6	110.6	160.8				
1973	0.1	40.3	17.4	6.1	6.7	5.6	2.6	34.3	66.6	128.1	128.1	185.8				
1974	0.2	44.2	22.2	6.3	6.7	6.9	2.4	38.8	78.7	128.0	128.0	207.7				
1975	0.2	58.3	23.0	6.3	6.7	9.1	5.5	41.5	87.6	145.3	145.3	248.3				
1976	0.3	70.8	26.5	6.5	6.8	10.2	3.5	41.5	112.4	153.0	153.0	285.4				
1977	0.5	80.1	31.4	6.8	11	10.9	4.9	48.5	131.1	173.8	173.8	304.6				
1978	0.7	72.2	31.6	6.9	11	11.9	5.2	51.0	128.6	187.7	187.7	314.5				
1979	3.2	115.5	42.2	6.6	16	13.6	2.7	50.7	179.5	217.1	217.1	386.5				
1980	5.4	148.7	43.1	6.7	2.3	24.3	9.7	46.7	234.8	287.8	287.8	582.8				
1981	4.8	153.1	34.6	6.8	2.7	24.3	31.1	46.7	251.6	431.1	431.1	682.9				
1982	6.7	169.6	30.0	6.8	3.8	26.1	38.3	46.7	359.1	556.0	556.0	884.1				
1983	7.9	174.5	65.9	14.4	4.2	24.3	23.4	46.7	359.1	556.0	556.0	884.1				
1984	7.2	198.9	70.0	10.7	2.3	13.8	45.0	46.7	359.1	556.0	556.0	884.1				
1985	7.8	183.3	147.1	6.2	3.3	17.4	19.4	46.7	359.1	556.0	556.0	884.1				
1986	2.6	161.7	48.3	1.3	2.5	11.9	1.6	46.7	359.1	556.0	556.0	884.1				
1987	1.8	145.6	57.9	23.9	3.7	12.1	0.9	46.7	359.1	556.0	556.0	884.1				
1988	3.8	158.3	58.7	23.8	2.8	10.8	2.8	46.7	359.1	556.0	556.0	884.1				
1989	3.1	160.2	47.1	20.2	3.2	11.0	1.0	46.7	359.1	556.0	556.0	884.1				
1990	2.3	190.3	68.4	6.8	3.8	13.8	1.9	46.7	359.1	556.0	556.0	884.1				
1991	3.2	109.6	46.1	0.0	5.3	9.1	1.5	46.7	359.1	556.0	556.0	884.1				
1992	3.6	163.3	23.6	0.4	5.2	8.6	0.6	46.7	359.1	556.0	556.0	884.1				
1993	4.4	197.6	20.4	0.6	5.4	8.6	0.6	46.7	359.1	556.0	556.0	884.1				
1994	3.8	210.8	18.9	0.5	6.1	2.5	0.7	28.7	243.1	1,071.4	1,071.4	1,314.8				

^a Liquid petroleum gases

Revised data

^b There are no direct fuel costs for petroleum and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector. Note: Expenditure totals may not equal sum of components due to independent rounding. Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 296. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Washington

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Nuclear ^e	Total ^d		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	0.82	0.52	0.38	0.66	0.73	0.84	1.19	5.89	2.82	8.33	8.08	6.57	—	8.85	8.97	6.87
1971	—	0.54	0.54	0.42	0.79	0.75	0.86	1.26	5.27	2.83	8.54	8.72	0.75	—	0.82	0.99	0.71
1972	—	0.49	0.49	0.45	0.78	0.78	0.87	1.28	5.58	2.85	8.63	8.67	0.72	—	0.82	1.00	0.72
1973	—	0.57	0.57	0.51	0.77	1.01	1.16	1.36	5.33	3.14	8.72	8.70	0.88	—	0.71	1.04	0.79
1974	—	0.83	0.69	0.77	1.63	1.63	1.87	2.24	7.22	4.28	1.53	0.68	1.47	—	1.16	1.06	1.13
1975	—	0.80	0.89	1.29	1.77	2.85	2.31	2.87	7.88	4.82	1.78	1.89	1.86	—	1.58	1.37	1.82
1976	—	1.20	1.20	1.67	1.68	2.26	2.63	2.90	7.05	4.82	1.89	1.67	1.95	—	1.79	1.41	1.67
1977	—	1.26	1.26	2.03	1.76	2.74	3.13	3.54	6.97	5.18	1.90	1.91	2.18	—	2.06	1.36	1.86
1978	—	1.42	1.42	2.40	1.94	2.94	3.43	3.29	7.60	6.40	1.86	1.79	2.25	—	2.25	1.44	1.97
1979	—	1.74	1.74	2.80	2.25	4.19	4.74	4.37	10.21	7.22	2.32	2.07	3.03	—	2.85	1.56	2.39
1980	—	2.29	2.29	4.09	3.70	6.86	7.04	5.80	14.39	8.82	3.35	2.97	4.19	—	4.86	2.38	3.48
1981	—	2.57	2.57	4.40	4.71	6.73	7.63	6.17	18.00	11.03	4.05	3.50	5.01	—	4.86	3.10	4.05
1982	—	2.67	2.67	5.28	4.02	8.06	8.87	7.63	17.25	10.52	4.48	2.87	5.35	—	5.19	5.62	5.35
1983	—	2.34	2.34	5.04	4.00	^a 6.84	6.85	8.04	18.99	9.08	4.48	2.88	^a 5.39	—	^a 6.07	6.71	^a 6.35
1984	—	2.36	2.36	4.94	4.09	^a 6.41	7.32	7.43	17.63	9.25	4.56	3.07	^a 5.15	—	5.01	8.98	^a 5.72
1985	—	2.34	2.36	4.86	4.17	^a 6.16	^a 7.08	9.34	17.61	9.51	4.65	3.48	5.22	—	4.86	8.23	5.49
1986	—	2.22	2.22	3.49	3.64	^a 3.91	^a 4.48	9.06	15.89	7.29	2.07	3.65	^a 3.69	—	^a 3.55	6.29	^a 4.59
1987	—	2.36	2.36	2.76	3.21	^a 4.68	^a 6.22	8.52	12.70	7.99	2.56	2.15	^a 3.73	—	^a 3.39	6.71	^a 4.54
1988	—	2.34	2.34	2.89	3.41	^a 4.23	^a 4.83	8.58	14.61	7.40	2.01	1.95	^a 3.28	—	^a 3.19	7.68	^a 4.97
1989	—	2.38	2.38	2.84	3.29	^a 4.78	^a 5.45	8.09	14.48	8.03	2.33	2.17	^a 3.39	—	^a 3.44	7.77	^a 5.32
1990	—	2.45	2.45	2.84	3.18	^a 5.81	^a 6.28	8.03	14.69	8.45	2.84	2.28	^a 4.44	^d 1.50	^d 5.15	7.88	^a 6.88
1991	—	2.73	2.73	2.71	3.40	^a 5.37	^a 6.63	9.29	16.79	8.14	2.90	^a 2.98	^a 4.39	1.54	^a 5.25	6.72	^a 6.65
1992	—	2.72	2.72	2.82	2.85	^a 5.28	^a 6.03	9.26	19.43	8.47	2.86	^a 2.11	^a 3.49	1.58	^a 5.29	6.56	^a 6.36
1993	—	2.83	2.83	3.11	3.30	^a 5.80	^a 6.39	9.21	19.94	^a 9.18	2.06	^a 1.96	^a 3.60	1.54	^a 3.08	7.02	^a 6.48
1994	—	3.06	3.06	2.83	3.31	5.03	5.74	10.13	19.18	9.68	2.57	1.97	3.42	1.54	2.94	8.18	4.90
Expenditures in Billion Nominal Dollars																	
1970	—	2.7	2.7	82.8	18.2	18.6	8.5	1.1	6.2	8.4	18.1	22.7	63.7	—	168.4	78.7	198.1
1971	—	2.9	2.9	35.9	12.3	26.8	0.4	1.0	4.6	7.6	22.7	28.8	88.2	—	137.0	77.0	213.9
1972	—	1.7	1.7	40.6	15.5	23.0	0.2	0.8	5.1	7.9	26.8	32.4	113.9	—	158.1	88.6	244.8
1973	—	2.2	2.2	54.1	17.0	28.5	0.1	0.9	6.0	7.7	31.0	29.9	122.2	—	178.8	88.0	266.5
1974	—	5.4	5.4	73.4	29.9	34.3	0.9	2.0	7.6	9.6	61.9	32.1	178.8	—	257.5	90.8	357.0
1975	—	9.8	9.8	106.8	34.1	44.8	1.5	1.8	8.7	18.6	47.9	98.3	288.8	—	828.5	128.8	448.2
1976	—	17.0	17.0	115.3	37.0	52.4	1.4	2.4	9.1	10.7	30.3	62.5	205.9	—	338.2	131.6	489.9
1977	—	15.9	15.9	135.3	35.5	72.1	3.9	3.5	8.5	8.8	50.4	89.9	273.8	—	425.0	114.9	538.3
1978	—	17.4	17.4	141.3	40.2	89.7	5.3	5.4	10.0	10.5	46.6	74.2	275.9	—	434.8	143.2	577.7
1979	—	21.7	21.7	202.7	47.7	123.1	2.9	9.9	14.0	10.9	25.5	63.4	287.4	—	521.7	166.3	678.1
1980	—	18.3	18.3	239.5	69.3	158.7	1.8	10.5	14.8	11.3	88.5	446.8	—	481.7	221.7	893.4	
1981	—	19.7	19.7	257.5	56.2	193.8	8.4	9.6	21.1	14.5	105.2	88.1	487.0	—	774.2	343.0	1,117.3
1982	—	21.2	21.2	228.9	47.8	209.2	5.1	16.1	18.5	15.2	187.5	53.0	562.3	—	900.4	545.8	1,309.2
1983	—	13.0	13.0	228.8	81.2	^a 148.2	46.2	11.8	19.0	10.1	80.9	38.7	^a 387.1	—	^a 629.0	580.5	^a 1,189.5
1984	—	10.8	10.8	282.8	71.3	^a 180.4	34.3	22.0	21.1	27.9	171.7	51.8	^a 580.2	—	^a 853.6	729.3	^a 1,581.9
1985	—	18.3	18.3	274.3	86.4	^a 188.0	36.8	19.8	33.8	121.6	40.2	445.7	—	^a 780.9	585.3	^a 1,376.3	
1986	—	16.4	16.4	189.0	82.9	^a 177.8	16.4	40.4	17.0	28.4	74.1	33.7	^a 342.9	—	^a 626.3	571.5	^a 1,098.8
1987	—	13.9	13.9	188.4	49.3	^a 187.2	0.4	55.1	15.8	28.4	79.2	42.5	^a 386.7	—	^a 640.2	829.0	^a 1,169.2
1988	—	12.3	12.3	185.1	49.5	^a 186.8	^a 0.5	43.2	17.3	26.3	70.6	40.9	^a 311.4	—	^a 606.8	868.8	^a 1,375.2
1989	—	11.8	11.8	189.8	57.1	^a 182.1	0.2	52.3	17.8	28.4	19.5	50.3	^a 331.6	—	^a 637.2	834.8	^a 1,471.9
1990	—	12.7	12.7	189.6	52.4	^a 142.2	8.4	28.2	18.3	32.5	94.7	78.8	^a 379.2	^d 39.3	^d 822.1	913.7	^a 1,535.8
1991	—	11.7	11.7	203.4	67.0	^a 123.8	0.2	25.1	18.8	39.1	13.1	90.0	^a 376.1	43.5	^a 634.7	892.3	^a 1,517.0
1992	—	9.2	9.2	213.7	57.2	^a 103.8	0.2	24.1	22.2	40.1	9.7	^a 115.3	^a 372.8	42.3	^a 637.9	811.9	^a 1,448.7
1993	—	9.2	9.2	275.2	64.4	^a 85.8	0.2	^a 21.3	22.0	^a 25.3	^a 7.4	^a 88.9	^a 315.8	42.3	^a 642.2	825.9	^a 1,488.1
1994	—	11.9	11.9	295.8	77.8	83.1	0.3	24.9	23.3	27.0	8.8	98.9	343.3	43.0	804.5	897.9	1,692.5

^a Liquefied petroleum gases.^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1989.

Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 297. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Washington

Year	Primary Energy											Electricity	Total Energy
	Coal	Natural Gas	Petroleum								Total		
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG*	Lubricants	Motor Gasoline	Residual Fuel	Total			
Prices in Nominal Dollars per Million Btu													
1970	0.52	—	2.17	1.32	0.73	1.19	5.88	2.92	0.30	2.23	2.23	2.48	2.23
1971	0.54	—	2.21	1.39	0.77	1.26	5.27	2.93	0.47	2.26	2.26	2.14	2.26
1972	0.48	—	2.19	1.43	0.76	1.28	5.54	2.88	0.36	2.27	2.27	2.26	2.27
1973	0.57	—	2.38	1.61	0.91	1.36	5.33	3.14	0.84	2.45	2.45	2.55	2.45
1974	0.63	—	3.23	2.61	1.37	2.24	7.22	4.29	0.64	3.43	3.43	2.80	3.43
1975	0.56	—	3.45	2.85	2.04	2.87	7.48	4.82	2.14	5.75	3.75	3.29	5.75
1976	1.20	—	3.59	2.89	2.32	2.90	7.05	4.82	2.08	3.97	3.97	3.39	3.97
1977	1.28	—	3.87	3.12	2.82	3.54	6.97	5.18	2.57	4.32	4.32	4.15	4.32
1978	—	—	4.29	3.18	2.86	3.29	7.69	5.40	2.16	4.45	4.45	3.88	4.45
1979	—	—	5.73	4.69	3.79	4.57	10.21	7.22	2.40	5.65	5.65	3.68	5.65
1980	—	—	8.02	6.73	6.21	6.68	14.38	9.92	3.18	7.88	7.88	4.28	7.88
1981	—	—	10.84	9.18	7.64	6.17	18.00	11.03	5.73	9.41	9.41	5.05	9.41
1982	—	—	10.92	9.05	7.37	7.53	17.25	10.52	6.02	9.29	9.29	5.57	9.29
1983	—	—	10.44	8.57	^R 6.61	8.04	16.96	9.09	5.81	^R 8.90	^R 8.90	6.13	^R 6.50
1984	—	—	10.27	8.57	^R 6.32	7.43	17.83	9.25	5.81	^R 8.46	^R 8.46	7.12	^R 8.46
1985	—	—	8.88	8.77	6.83	8.34	17.61	8.31	5.82	8.34	8.34	6.28	8.34
1986	—	—	8.41	8.71	4.91	9.06	15.59	7.29	2.86	6.57	6.57	5.90	6.57
1987	—	—	7.55	7.22	4.02	8.52	12.79	7.26	2.60	6.16	6.16	7.83	6.16
1988	—	—	7.41	7.24	3.78	8.58	14.61	7.40	2.26	6.00	6.00	8.49	6.00
1989	—	—	6.26	7.82	4.39	8.09	14.48	6.09	2.16	6.42	6.42	8.19	6.42
1990	—	3.93	6.32	8.04	5.66	8.89	14.86	6.45	2.89	7.51	7.51	9.88	7.51
1991	—	3.94	6.71	8.94	4.76	9.29	16.79	9.14	5.36	7.59	7.59	9.28	7.59
1992	—	4.07	6.54	8.68	4.58	9.26	19.43	9.47	1.84	6.70	6.70	9.61	6.70
1993	—	4.28	8.24	8.08	4.54	9.21	18.94	^R 9.18	2.00	^R 7.05	^R 7.05	10.37	^R 7.05
1994	—	4.42	7.98	8.79	4.08	9.26	18.16	9.66	2.01	7.27	7.27	11.28	7.27

Expenditures in Billion Nominal Dollars													
1970	(a)	—	3.8	36.3	43.3	0.2	12.3	540.2	8.1	633.9	633.9	(a)	633.9
1971	(a)	—	2.5	36.9	50.1	0.2	12.0	554.0	3.5	589.7	589.7	(a)	589.7
1972	(a)	—	3.4	42.9	45.5	0.2	13.8	562.3	2.2	670.1	670.1	(a)	670.1
1973	(a)	—	3.6	62.6	58.7	0.2	13.8	644.1	4.7	788.7	788.7	(a)	788.7
1974	(a)	—	5.1	94.3	107.9	0.3	17.9	678.9	5.1	1,109.4	1,109.4	(a)	1,109.4
1975	(a)	—	4.6	168.2	146.7	0.4	19.4	974.5	28.3	1,298.2	1,298.2	(a)	1,298.2
1976	(a)	—	4.9	194.8	189.3	0.5	20.3	1,076.3	30.2	1,436.4	1,436.4	(a)	1,436.4
1977	(a)	—	5.9	151.4	177.3	0.7	21.2	1,215.1	33.9	1,805.4	1,805.4	(a)	1,805.4
1978	—	—	6.8	170.8	183.8	1.1	24.8	1,382.3	89.3	1,778.8	1,778.8	(a)	1,778.8
1979	—	—	8.6	275.0	288.8	1.3	34.8	1,688.2	142.6	2,429.0	2,429.0	(a)	2,429.0
1980	—	—	10.2	378.8	418.5	1.8	48.6	2,169.1	288.3	3,240.3	3,240.3	(a)	3,240.3
1981	—	—	16.7	489.6	512.4	4.7	52.5	2,453.7	294.2	3,793.8	3,793.8	0.1	3,793.8
1982	—	—	12.6	395.7	529.3	4.2	45.8	2,345.5	178.4	3,512.0	3,512.0	0.2	3,512.0
1983	—	—	10.5	388.8	478.8	5.3	47.3	2,101.8	57.9	^R 3,088.1	^R 3,088.1	0.3	^R 3,088.1
1984	—	—	9.1	444.4	^R 656.6	12.8	52.3	2,200.5	56.6	^R 3,333.5	^R 3,333.5	0.3	^R 3,333.5
1985	—	—	10.2	521.4	822.2	11.1	46.7	2,180.2	173.4	3,357.3	3,357.3	0.4	3,357.3
1986	—	—	9.7	554.4	865.1	9.4	42.2	1,758.2	180.5	2,919.3	2,919.3	0.3	2,919.3
1987	—	—	10.5	589.7	821.2	7.8	38.6	1,937.4	133.0	3,066.3	3,066.3	0.3	3,066.3
1988	—	—	6.0	527.9	440.3	8.7	43.1	1,937.2	137.9	3,105.0	3,105.0	0.3	3,105.0
1989	—	—	7.9	593.1	522.5	7.4	43.6	2,227.8	185.5	3,586.0	3,586.0	0.4	3,586.0
1990	—	8.2	14.7	642.8	718.8	9.8	48.4	2,598.9	283.9	4,385.4	4,385.4	0.4	4,385.4
1991	—	0.3	11.8	618.2	572.7	8.2	44.8	2,568.9	537.8	4,352.2	4,352.2	0.5	4,352.0
1992	—	0.4	12.5	626.7	619.4	7.6	55.2	2,701.1	256.9	4,280.8	4,280.8	0.6	4,281.6
1993	—	0.4	8.2	556.8	570.3	7.1	54.7	^R 2,733.9	188.8	^R 4,116.7	^R 4,116.7	0.5	^R 4,119.6
1994	—	0.7	12.6	700.6	487.6	16.5	57.9	2,696.2	187.8	4,353.2	4,353.2	0.6	4,354.4

* Liquid petroleum gases.

A- Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)-Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 298. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Washington

Year	Coal	Natural Gas	Petroleum			Nuclear Fuel	Bioduels	Total Energy ^d
			Heavy Oil	Light Oil	Petroleum Coke			
Prices in Nominal Dollars per Million Btu								
1970	—	—	0.32	0.37	—	0.33	0.85	0.16
1971	—	—	0.30	0.61	—	0.61	—	0.16
1972	0.17	—	0.36	0.43	—	0.36	—	0.18
1973	0.39	—	0.70	1.16	—	0.73	—	0.31
1974	0.37	—	2.36	2.01	—	0.81	—	0.29
1975	0.87	—	2.59	2.41	—	2.49	—	0.48
1976	0.75	—	2.34	2.56	—	2.35	—	0.61
1977	0.72	—	2.37	2.69	—	2.46	—	0.57
1978	0.77	2.31	2.55	3.06	—	2.70	—	0.59
1979	0.84	2.64	2.64	3.98	—	2.69	—	0.78
1980	0.96	3.43	3.08	6.40	—	3.83	—	0.91
1981	1.11	3.82	6.62	6.68	—	6.67	—	1.00
1982	1.39	5.82	6.77	7.78	—	7.76	—	1.07
1983	1.62	5.07	8.08	6.66	—	6.65	1.12	1.26
1984	1.73	4.82	8.04	6.04	—	6.04	1.28	1.26
1985	1.45	4.84	—	5.72	—	5.72	0.79	1.17
1986	1.69	2.81	3.16	2.76	—	3.79	0.32	1.05
1987	1.67	2.50	2.82	4.10	—	4.03	0.85	1.28
1988	1.55	3.05	2.56	4.03	—	3.99	0.87	1.13
1989	1.56	3.02	4.52	4.52	—	2.85	0.79	1.31
1990	1.69	3.03	3.85	5.15	—	5.09	0.81	1.08
1991	1.63	3.83	6.19	5.72	—	5.74	0.76	1.16
1992	1.37	3.16	2.18	4.66	—	4.47	0.78	1.07
1993	1.36	3.76	2.31	4.66	—	4.56	0.85	1.04
1994	1.57	4.71	—	4.72	—	4.72	0.77	1.04

Year	Expenditures in Million Nominal Dollars					Total	Bioduels	Total Energy ^d
	(a)	(b)	(c)	(d)	(e)			
1970	—	—	—	—	—	5.2	—	5.2
1971	—	—	—	—	—	4.9	—	4.9
1972	6.8	—	—	—	—	5.6	—	11.7
1973	23.6	—	—	—	—	9.4	—	35.2
1974	17.5	—	—	—	—	9.0	—	28.8
1975	36.7	—	—	—	—	8.7	—	49.5
1976	50.0	—	—	—	—	9.0	—	57.3
1977	62.9	—	—	—	—	12.8	—	76.4
1978	52.9	0.1	—	—	—	13.7	—	67.4
1979	70.0	5.7	—	—	—	13.9	—	89.2
1980	77.3	3.3	—	—	—	9.6	—	95.7
1981	69.2	1.9	—	—	—	10.9	—	103.3
1982	86.5	0.7	—	—	—	21.8	—	110.1
1983	112.7	0.2	—	—	—	22.1	0.6	136.4
1984	125.9	0.2	—	—	—	36.7	1.7	167.1
1985	129.0	6.4	—	—	—	61.4	2.2	203.8
1986	90.9	0.4	—	—	—	53.7	0.6	159.9
1987	148.1	0.2	—	—	—	41.8	3.4	194.0
1988	141.6	5.3	—	—	—	31.6	3.4	182.6
1989	140.0	43.2	—	—	—	31.7	3.0	221.5
1990	126.4	46.6	—	—	—	29.1	2.1	187.2
1991	125.9	0.6	—	—	—	20.4	2.2	152.5
1992	138.2	17.8	—	—	—	23.2	2.8	182.5
1993	124.6	18.3	—	—	—	35	0.3	184.5
1994	138.0	12.2	—	—	—	33.8	3.1	187.4

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

^b Expenditure data.

^c No consumption.

^d Values less than 0.05 million nominal dollars.

Note: Expenditure (costs) may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 299. Energy Price and Expenditure Estimates by Source, 1970-1994, West Virginia

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biofuels	Total ^d			
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total						
Prices in Nominal Dollars per Million Btu																	
1970	9.49	9.28	9.31	0.62	1.40	0.73	1.67	2.86	8.59	\$1.06	1.77	—	9.65	9.68	0.26	3.96	1.15
1971	9.47	9.33	9.36	0.67	1.58	0.76	1.68	3.02	8.69	\$1.17	1.94	—	—	9.78	0.32	4.39	1.28
1972	9.50	9.37	9.40	0.70	1.65	0.85	1.73	3.07	8.72	\$1.17	1.94	—	—	9.77	0.36	4.78	1.34
1973	9.58	9.38	9.41	0.75	2.01	0.97	2.14	3.14	8.87	\$1.28	2.11	—	—	9.80	0.37	4.96	1.46
1974	1.14	0.87	0.91	0.87	3.14	1.61	2.68	4.12	1.79	\$2.63	3.20	—	—	1.36	0.88	6.42	2.19
1975	1.81	0.94	1.02	1.16	3.38	2.06	3.28	4.81	1.89	\$2.89	3.82	—	—	1.68	0.88	8.30	2.79
1976	1.64	0.95	1.05	1.41	3.10	2.22	3.49	4.73	1.77	\$3.25	3.69	—	—	1.63	0.92	8.93	2.96
1977	1.68	1.08	1.15	2.18	3.45	2.58	4.08	5.05	2.07	\$3.51	3.96	—	—	1.90	1.04	8.78	3.37
1978	1.73	1.21	1.28	2.15	3.76	2.83	4.20	5.13	2.35	\$3.86	4.14	—	—	2.06	1.22	9.47	3.57
1979	1.78	1.28	1.34	2.61	4.89	3.97	4.92	7.09	2.41	\$4.94	5.53	—	—	2.50	1.29	9.44	4.38
1980	1.88	1.41	1.46	3.18	7.34	8.46	4.16	9.96	3.30	\$7.33	8.06	—	—	3.76	1.43	10.59	5.78
1981	1.96	1.51	1.64	3.71	8.70	7.64	8.77	11.08	4.88	\$9.18	9.59	—	—	3.66	1.65	12.05	6.82
1982	2.05	1.70	1.79	4.80	8.45	7.18	8.17	10.41	4.02	\$8.30	9.09	—	—	3.54	1.74	14.12	7.14
1983	1.58	1.59	1.63	5.57	\$8.01	\$7.18	8.42	9.77	4.06	\$8.00	\$8.63	—	—	\$3.48	1.72	14.32	\$7.29
1984	1.91	1.51	1.63	5.24	\$9.14	\$7.08	9.15	9.12	4.84	\$7.99	\$8.40	—	—	3.22	1.64	13.53	8.83
1985	1.88	1.58	1.61	5.29	\$8.04	8.87	8.02	9.19	4.01	\$7.87	\$8.39	—	—	3.22	1.62	14.19	\$7.38
1986	1.75	1.49	1.50	4.89	\$5.79	5.14	8.02	7.00	2.87	\$4.89	\$6.83	—	—	2.62	1.50	14.81	\$6.98
1987	1.72	1.41	1.43	4.46	\$6.06	4.72	8.35	7.34	2.81	\$5.21	\$6.32	—	—	\$2.65	1.43	14.77	\$6.11
1988	1.73	1.42	1.44	4.08	\$6.91	4.45	10.13	7.32	2.38	\$6.51	\$6.12	—	—	2.80	1.45	14.10	5.78
1989	1.75	1.41	1.43	4.08	\$6.61	4.99	7.84	8.52	2.85	\$6.25	6.85	—	—	2.74	1.43	14.04	5.09
1990	1.80	1.45	1.47	4.40	\$7.77	8.41	18.79	8.85	2.68	\$6.46	\$7.97	—	\$2.43	\$3.12	1.48	13.90	\$6.86
1991	1.72	1.50	1.51	4.89	\$7.21	8.58	11.12	9.92	1.92	\$5.85	\$8.05	—	2.42	\$3.11	1.53	14.22	\$6.91
1992	1.74	1.45	1.47	4.41	\$7.43	8.31	10.43	9.49	2.19	\$5.75	\$7.91	—	2.45	\$3.06	1.48	14.84	\$6.97
1993	1.68	1.41	1.43	\$4.43	\$7.22	4.19	\$10.22	\$9.61	2.41	\$5.37	\$7.79	—	2.48	\$3.03	1.43	15.34	\$6.95
1994	1.57	1.39	1.38	4.00	7.19	3.88	8.94	9.77	2.44	5.12	7.72	—	2.44	2.96	1.40	16.42	6.94
Expenditures in Million Nominal Dollars																	
1970	55.3	151.6	187.2	188.3	31.9	1.2	7.8	237.6	7.5	\$97.6	382.5	—	(e)	678.1	-98.9	204.3	793.6
1971	55.6	167.0	222.7	113.7	42.9	1.0	8.4	299.9	7.9	\$99.8	420.6	—	—	757.0	-122.1	230.2	865.1
1972	67.7	216.6	284.5	129.5	53.9	0.9	9.8	272.5	7.7	\$112.7	457.6	—	—	871.6	-158.6	262.5	965.2
1973	81.7	252.6	334.4	126.9	70.8	1.0	12.9	299.9	4.2	\$130.4	519.2	—	—	980.5	-202.6	290.4	1,068.3
1974	161.4	607.0	768.5	144.8	101.9	1.8	19.0	398.4	15.5	\$262.6	797.1	—	—	1,710.4	-512.9	367.1	1,584.6
1975	178.3	865.8	1,044.1	171.0	114.2	2.8	18.1	457.7	28.2	\$298.8	927.8	—	—	1,992.5	-831.0	477.3	1,638.7
1976	231.5	691.5	923.1	197.4	110.0	3.5	18.8	510.1	48.2	\$280.3	961.0	—	—	2,071.4	-800.0	543.7	2,015.1
1977	202.6	768.6	971.4	299.2	165.4	4.3	22.8	563.0	58.2	\$332.9	1,148.7	—	—	2,407.2	-881.9	569.2	2,294.5
1978	193.8	815.0	1,008.8	287.3	163.5	4.6	21.4	572.6	57.1	\$375.7	1,194.7	—	—	2,500.6	-744.1	627.9	2,384.4
1979	181.4	832.4	1,113.8	345.3	284.6	7.2	55.3	762.5	40.1	\$558.7	1,718.5	—	—	3,177.7	-949.4	694.6	2,992.7
1980	390.2	1,063.8	1,454.0	416.1	441.1	12.8	77.7	1,014.2	24.8	\$808.6	2,398.4	—	—	4,048.8	-987.7	746.8	3,905.5
1981	172.9	1,263.7	1,436.6	487.1	474.5	14.5	77.8	1,094.4	21.2	\$948.7	2,651.4	—	—	4,885.1	-1,215.2	890.6	4,440.5
1982	137.1	1,251.2	1,388.4	523.4	374.8	12.0	77.8	1,037.1	28.2	\$657.4	2,187.2	—	—	4,109.0	-1,198.6	961.4	3,913.6
1983	78.2	1,311.4	1,389.7	549.8	\$489.3	\$11.1	79.9	958.7	23.0	\$571.1	\$2,112.9	—	—	\$4,082.4	-1,235.6	1,003.4	\$3,847.8
1984	102.3	1,382.7	1,485.1	545.2	\$496.4	\$9.5	12.8	888.3	35.2	\$627.6	\$1,969.9	—	—	\$3,980.1	-1,280.9	963.6	\$3,663.0
1985	72.4	1,326.6	1,399.0	548.6	\$453.8	8.0	36.8	884.8	22.2	\$568.2	\$1,951.8	—	—	\$3,861.3	-1,261.6	1,000.4	\$3,599.9
1986	89.0	1,226.2	1,315.2	472.4	\$287.7	5.3	33.2	886.3	15.6	\$374.1	\$1,373.0	—	—	\$3,180.7	-1,156.2	1,029.6	\$3,034.1
1987	81.0	1,162.9	1,243.9	444.9	\$318.4	5.6	38.6	743.9	6.1	\$411.9	\$1,524.4	—	—	\$3,211.1	-1,093.2	1,053.0	\$3,117.9
1988	94.3	1,225.2	1,319.5	434.9	\$311.6	6.2	44.0	781.3	6.3	\$388.7	\$1,538.2	—	—	\$3,292.4	-1,148.1	1,058.2	\$3,212.7
1989	91.5	1,234.7	1,326.2	475.4	\$387.6	10.6	42.3	871.5	14.9	\$441.9	\$1,708.6	—	—	\$3,570.4	-1,155.4	1,054.9	\$3,499.9
1990	93.1	1,193.2	1,286.3	471.2	\$461.2	9.8	89.8	1,021.8	18.7	\$577.0	\$2,128.3	—	2.97	\$3,895.8	-1,199.8	1,096.8	\$3,796.3
1991	85.8	1,122.0	1,207.8	454.7	\$403.1	7.3	71.3	1,007.4	9.5	\$357.0	\$1,855.7	—	10.9	\$3,529.6	-1,058.7	1,133.0	\$3,605.8
1992	75.4	1,105.5	1,180.9	478.3	\$407.8	8.0	63.0	999.9	8.4	\$355.4	\$1,830.5	—	10.5	\$3,503.1	-1,043.6	1,132.8	\$3,652.3
1993	79.1	1,065.7	1,144.8	\$493.5	\$451.9	6.0	\$65.6	\$990.7	\$8.0	\$330.8	\$1,880.9	—	10.8	\$3,500.0	-994.2	1,285.7	\$3,771.5
1994	72.5	1,140.5	1,213.0	513.1	462.6	4.9	81.7	1,025.2	8.1	338.5	1,896.0	—	10.8	3,833.0	-1,064.2	1,289.5	3,888.2

^a Liquefied petroleum gases.
^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.
^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.

^e Reversed data.
 — No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.
 (e) Value less than 0.05 million nominal dollars.
 Note: Expenditure totals may not equal sum of components due to independent rounding.
 Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 300. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1984, West Virginia

Year	Primary Energy								Electricity	Total Energy ^a
	Coal	Natural Gas	Petroleum				Biomass ^b	Total ^c		
			Distillate Fuel	Kerosene	LPG ^d	Total				
Prices in Nominal Dollars per Million Btu										
1970	8.88	8.87	1.37	1.88	2.48	1.78	—	6.81	6.61	1.78
1971	1.07	0.91	1.46	1.70	2.38	1.78	—	0.88	6.78	1.83
1972	1.25	0.94	1.47	1.72	2.61	1.79	—	1.02	7.14	2.03
1973	0.94	0.94	1.64	1.63	4.10	2.23	—	1.06	7.28	2.23
1974	1.46	1.07	2.54	2.85	3.92	2.84	—	1.24	8.78	2.74
1975	1.22	1.48	2.89	3.17	4.87	3.27	—	1.57	10.47	3.81
1976	1.22	1.89	2.90	3.43	4.86	3.50	—	1.77	11.32	3.83
1977	1.31	2.44	3.31	3.85	5.35	3.72	—	2.56	10.82	4.57
1978	1.52	2.53	3.33	4.11	5.80	3.84	—	2.63	11.36	4.79
1979	1.43	2.88	4.49	5.69	6.71	5.19	—	3.27	11.57	5.33
1980	1.39	3.48	6.45	6.48	6.94	7.39	—	4.11	12.84	6.38
1981	2.14	4.08	8.29	10.48	10.32	9.10	—	4.72	14.81	7.46
1982	2.22	4.87	7.88	10.85	8.72	8.74	—	5.43	16.72	8.74
1983	1.64	5.78	7.95	9.51	10.08	8.83	—	6.33	18.39	9.47
1984	1.71	5.81	7.73	8.19	10.39	8.40	—	5.88	18.39	9.29
1985	1.88	6.38	7.43	6.82	8.61	8.37	—	6.28	17.38	9.84
1986	1.37	5.80	5.85	6.72	7.27	6.28	—	6.36	17.34	9.91
1987	1.23	5.57	5.78	6.88	6.08	6.15	—	5.53	17.87	9.84
1988	1.24	5.11	5.67	6.74	11.03	6.89	—	5.29	17.39	9.59
1989	1.29	5.34	5.54	7.54	8.89	6.80	—	5.45	17.31	9.59
1990	1.48	6.88	7.87	9.01	12.80	8.08	^a 2.88	^a 6.18	17.29	^a 9.81
1991	1.31	6.08	7.14	8.49	13.00	8.38	3.53	^a 6.23	17.32	^a 10.18
1992	1.15	5.92	6.60	7.85	11.46	8.39	3.53	^a 6.04	18.08	^a 10.17
1993	1.16	6.06	6.54	7.78	11.88	8.22	3.53	^a 6.17	18.47	^a 10.49
1994	1.19	6.26	6.16	7.26	12.89	8.15	3.53	6.24	18.64	10.88
Expenditures in Million Nominal Dollars										
1970	1.1	81.7	2.8	2.8	8.5	7.8	—	88.7	78.8	185.3
1971	2.2	52.2	3.1	2.0	2.6	8.7	—	63.1	65.9	148.0
1972	2.7	57.4	4.6	4.0	3.5	11.2	—	71.2	96.5	168.7
1973	2.0	64.2	8.0	2.7	4.9	12.8	—	86.8	110.8	179.5
1974	5.3	50.2	7.1	8.1	4.6	14.7	—	79.2	138.9	218.1
1975	2.4	74.5	9.1	8.1	6.1	16.3	—	85.2	177.8	272.1
1976	1.9	85.8	13.4	2.8	6.4	22.0	—	108.7	204.2	313.9
1977	2.5	131.4	18.1	3.8	7.9	28.8	—	163.8	246.8	380.6
1978	3.4	138.4	13.1	3.6	7.5	24.2	—	167.0	237.0	404.9
1979	2.8	140.3	35.0	21.0	10.3	66.9	—	210.8	248.6	457.4
1980	3.1	172.8	45.3	18.6	18.9	77.9	—	283.4	284.8	638.5
1981	3.8	198.8	48.1	18.7	14.8	74.5	—	278.1	334.2	612.3
1982	3.7	224.6	39.8	18.9	9.0	67.5	—	295.1	378.0	673.1
1983	3.4	239.6	22.0	13.6	11.3	48.8	—	290.1	391.5	681.7
1984	3.2	243.1	22.8	6.4	7.5	38.7	—	283.0	378.2	661.2
1985	1.2	234.7	20.8	19.8	7.8	47.9	—	288.2	386.1	681.3
1986	1.4	228.8	18.4	17.3	6.0	41.7	—	272.8	425.1	698.0
1987	1.5	213.1	21.4	13.4	6.0	48.7	—	256.3	442.6	697.3
1988	1.2	207.3	18.9	15.2	15.5	47.8	—	256.2	446.0	704.1
1989	1.7	213.5	23.8	14.8	10.2	48.8	—	264.0	451.0	716.0
1990	2.4	218.4	25.3	10.7	15.8	54.9	^a 5.8	^a 273.7	467.8	^a 728.7
1991	1.1	211.8	22.3	9.5	18.5	50.3	8.2	^a 288.5	478.0	^a 748.5
1992	0.9	222.7	17.8	10.9	18.9	47.6	8.5	^a 277.7	502.0	^a 779.8
1993	1.1	227.1	21.6	14.3	20.7	58.6	8.8	^a 291.6	547.0	^a 838.6
1994	0.9	234.4	21.0	12.7	22.5	58.2	8.7	288.2	551.0	849.2

^a Liquidated petroleum gases.^b Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

Revised data.

—No data.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 301. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, West Virginia

Year	Primary Energy									Electricity	Total Energy ^a
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
									Total		
Prices in Nominal Dollars per Million Btu											
1970	0.35	0.69	1.06	0.77	1.46	2.86	6.84	1.57	6.60	5.81	1.23
1971	0.37	0.71	1.15	0.82	1.45	3.02	0.79	1.66	0.71	6.29	1.00
1972	0.43	0.72	1.16	0.82	1.46	3.07	0.87	1.49	0.73	6.94	1.07
1973	0.44	0.74	1.28	0.80	1.66	3.14	0.96	1.63	0.75	6.80	2.13
1974	0.93	0.67	2.20	2.17	2.66	4.12	1.74	2.62	0.97	6.23	2.59
1975	1.33	1.19	2.37	2.46	2.76	4.61	1.82	2.77	1.29	10.60	3.36
1976	1.17	1.44	2.57	2.60	3.14	4.73	1.76	2.86	1.54	10.89	4.15
1977	1.25	2.16	2.96	3.13	3.70	5.05	2.12	3.24	2.15	10.86	4.72
1978	1.33	2.09	3.03	3.31	3.70	5.19	2.75	3.42	2.06	11.67	4.74
1979	1.35	2.83	4.36	4.22	4.53	7.09	2.96	4.60	2.69	11.44	5.07
1980	1.44	3.28	6.24	6.85	5.86	9.96	4.83	7.04	3.44	12.89	6.29
1981	1.51	3.80	7.82	7.51	6.28	11.08	5.10	8.15	4.27	14.27	7.34
1982	1.58	4.72	7.40	7.49	8.03	10.41	4.80	6.17	4.71	16.07	8.64
1983	1.52	5.51	R 6.79	6.79	8.20	9.77	4.50	R 7.92	5.39	16.26	R 9.07
1984	1.49	5.51	R 6.69	7.53	7.09	9.12	4.84	R 7.43	R 5.34	15.83	R 8.95
1985	1.43	5.84	R 6.25	R 7.19	8.87	9.49	4.81	R 7.29	R 6.79	16.44	R 9.49
1986	1.33	5.47	R 5.96	R 4.99	8.22	7.00	2.57	R 4.86	R 5.02	16.95	R 9.56
1987	1.25	5.10	R 4.41	R 6.15	9.03	7.34	2.81	R 5.64	R 4.65	16.61	R 9.46
1988	1.23	4.61	R 4.19	R 4.65	9.79	7.52	2.36	R 5.10	R 4.65	16.04	R 8.62
1989	1.23	4.86	R 4.76	R 5.66	8.15	8.52	2.65	R 5.64	R 4.76	16.08	R 8.62
1990	1.39	5.44	R 5.87	R 6.30	10.15	8.86	2.88	R 7.39	R 6.38	16.88	R 9.11
1991	1.29	5.69	R 5.19	R 6.01	10.59	9.92	1.92	R 6.51	R 6.61	18.00	R 9.57
1992	1.29	5.15	R 4.80	5.73	10.04	9.49	2.19	R 6.40	R 5.14	16.69	R 9.39
1993	1.32	R 6.51	R 4.83	R 5.37	9.60	R 9.81	2.41	R 5.22	R 5.26	17.09	R 9.78
1994	1.31	6.55	4.48	5.32	8.67	9.77	2.44	5.15	5.32	17.23	9.80
Expenditures in Million Nominal Dollars											
1970	1.0	15.3	8.6	8.1	0.3	0.8	(a)	1.8	18.1	44.4	82.8
1971	1.5	16.9	0.9	0.1	0.3	0.9	(a)	2.2	20.6	51.2	71.8
1972	1.7	19.7	1.3	0.1	0.3	0.9	(a)	2.7	24.3	69.7	83.0
1973	1.6	19.7	1.4	0.1	0.4	1.0	(a)	2.8	24.3	65.9	86.6
1974	6.2	21.9	2.3	0.1	0.5	1.3	(a)	4.2	32.4	79.2	111.8
1975	4.9	36.2	2.9	0.1	0.6	1.4	0.1	5.2	40.3	97.8	137.5
1976	3.4	30.8	4.4	0.1	0.7	1.5	0.2	6.0	41.0	112.6	153.6
1977	4.5	44.1	5.9	0.2	0.8	1.6	0.3	8.8	67.4	121.2	178.6
1978	5.5	48.5	8.4	0.1	0.9	1.6	0.2	7.3	61.2	132.9	193.5
1979	6.4	60.1	12.2	0.6	1.2	2.3	0.2	16.7	83.2	135.0	218.2
1980	3.5	73.4	8.5	1.4	1.5	6.7	0.1	18.3	86.2	157.1	252.4
1981	4.9	67.7	32.4	0.7	1.6	7.9	0.1	42.0	134.7	189.7	339.4
1982	4.6	101.6	13.0	0.7	1.3	6.9	0.1	22.0	128.4	221.9	369.6
1983	5.6	107.5	R 20.9	2.4	1.6	13.8	(a)	R 38.3	R 151.5	237.9	R 389.4
1984	6.2	106.9	R 21.3	0.9	1.0	12.3	(a)	R 35.5	R 149.6	233.1	R 382.8
1985	1.8	186.7	R 22.0	5.3	1.3	14.1	0.1	R 43.4	R 148.9	253.4	R 402.3
1986	2.4	94.2	R 17.3	R 1.6	1.2	12.0	0.2	R 32.2	R 128.8	267.0	R 305.8
1987	2.9	92.0	R 11.6	R 1.7	1.6	12.4	0.1	R 27.4	R 122.3	269.6	R 301.9
1988	2.2	116.1	R 8.7	2.2	2.1	12.2	2.6	R 27.6	R 146.2	299.0	R 415.2
1989	3.0	122.3	R 10.7	R 2.4	2.1	13.8	1.5	R 33.6	R 158.9	273.9	R 433.9
1990	3.7	134.7	R 15.1	R 1.8	2.7	17.2	1.1	R 37.8	R 166.2	273.9	R 441.2
1991	2.0	128.6	R 15.5	2.2	2.7	13.7	0.6	R 34.7	R 165.2	290.0	R 455.2
1992	1.7	133.8	R 9.2	1.0	2.9	10.9	0.8	R 24.8	R 180.4	305.0	R 463.4
1993	2.1	143.1	R 11.6	1.1	3.0	1.0	0.3	R 17.1	R 162.5	325.0	R 467.9
1994	1.6	147.6	10.7	1.1	2.6	1.0	0.1	15.7	165.1	332.0	487.1

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.

R=Revised data.

(a)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 302. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, West Virginia

Year	Primary Energy														Electricity ^a	Total Energy ^c	
	Coal			Natural Gas	Petroleum												
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPQ ^b	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	5.48	0.35	0.36	0.45	0.68	0.71	0.77	1.45	5.08	2.85	0.48	0.87	0.98	—	0.53	2.83	8.68
1971	0.47	0.37	0.42	0.51	0.74	0.75	0.82	1.48	5.27	3.02	0.64	0.93	1.06	—	0.59	2.96	0.75
1972	0.80	0.43	0.47	0.54	0.79	0.75	0.82	1.48	5.58	3.07	0.57	0.92	1.06	—	0.69	3.26	0.61
1973	0.59	0.44	0.51	0.61	0.84	0.82	0.90	1.66	5.33	3.14	0.69	1.08	1.20	—	0.70	3.39	0.68
1974	1.14	0.83	1.05	0.73	1.45	1.99	2.17	2.68	7.22	4.12	2.03	2.35	2.44	—	1.35	4.86	1.60
1975	1.51	1.23	1.42	0.96	1.81	2.27	2.46	2.76	7.48	4.61	1.82	2.87	2.69	—	1.75	6.56	2.11
1976	1.64	1.17	1.47	1.24	1.84	2.40	2.60	3.14	7.04	4.73	1.77	3.14	2.82	—	1.82	6.83	2.20
1977	1.69	1.25	1.52	1.94	1.99	2.87	3.13	3.70	6.97	5.05	2.05	3.44	3.15	—	2.16	8.84	2.54
1978	1.73	1.33	1.58	1.82	2.21	3.02	3.51	3.70	7.60	5.13	2.09	3.80	3.38	—	2.28	7.59	2.71
1979	1.78	1.36	1.61	2.40	2.69	3.88	4.22	4.63	10.21	7.08	2.20	4.96	4.48	—	2.50	7.59	3.31
1980	1.86	1.44	1.70	2.91	3.34	4.15	4.65	5.80	14.36	9.36	3.39	7.19	6.78	—	3.86	8.58	4.32
1981	1.80	1.51	1.80	3.38	4.44	6.78	7.81	6.26	18.00	11.08	4.68	9.92	8.43	—	4.66	9.84	5.19
1982	2.05	1.68	1.84	4.19	4.07	6.79	7.49	8.00	17.25	10.41	4.91	8.15	7.72	—	4.47	11.61	5.24
1983	1.66	1.52	1.55	4.88	4.07	R7.36	6.78	8.20	16.98	9.77	4.06	7.61	R7.65	—	R4.40	11.84	R5.33
1984	1.91	1.49	1.67	4.55	4.49	R7.03	7.53	7.83	17.83	9.12	4.84	7.50	R7.40	—	R4.06	10.55	R4.82
1985	1.88	1.43	1.64	4.39	4.91	R6.72	R7.19	8.87	17.81	8.19	4.01	7.37	R7.34	—	R4.39	10.77	R5.23
1986	1.75	1.39	1.63	3.86	4.19	R4.86	R4.98	8.22	15.59	7.00	2.87	3.95	R4.40	—	3.05	11.26	3.95
1987	1.72	1.25	1.48	3.24	3.23	R4.81	R5.15	9.03	12.70	7.34	2.81	4.81	R5.07	—	R3.19	11.26	R4.06
1988	1.73	1.23	1.45	2.88	3.25	R4.83	R4.85	9.78	14.91	7.52	2.38	3.98	R4.45	—	2.80	10.57	R3.67
1989	1.75	1.23	1.46	2.71	3.13	R5.90	R5.68	8.15	14.48	8.52	2.65	4.82	5.09	—	3.08	10.52	3.88
1990	1.89	1.28	1.50	2.75	3.07	R5.89	R5.30	16.18	14.80	9.96	2.88	5.87	R5.85	1.83	R3.86	10.44	R4.24
1991	1.72	1.29	1.49	2.75	3.11	R5.62	R5.01	10.89	16.79	9.92	1.92	5.19	R5.70	1.63	R3.21	10.74	R4.16
1992	1.74	1.29	1.48	2.71	2.35	R5.35	5.73	10.04	10.43	9.49	2.19	4.94	R5.67	1.63	R3.16	11.25	R4.24
1993	1.68	1.32	1.45	R2.67	2.90	R5.01	R5.37	9.60	16.94	R9.81	2.41	4.41	R5.18	1.63	R2.97	11.62	4.05
1994	1.57	1.31	1.42	2.75	2.65	4.78	5.10	7.58	19.18	9.77	2.44	4.19	4.85	1.63	2.88	11.96	3.96
Expenditures in Million Nominal Dollars																	
1970	55.3	42.6	97.9	41.2	3.9	4.5	0.2	5.8	65.4	1.7	4.8	86.0	184.5	—	243.5	84.3	227.8
1971	55.8	43.4	99.1	44.4	4.9	4.9	0.2	5.4	17.4	1.5	5.7	68.6	106.6	—	250.1	93.2	343.4
1972	67.7	47.7	115.6	52.0	5.5	6.1	0.3	5.9	19.6	1.4	3.7	75.8	118.3	—	265.8	105.9	391.0
1973	61.7	48.5	130.3	52.9	5.1	5.5	0.2	7.6	18.2	1.4	2.1	98.0	137.4	—	320.6	114.4	435.0
1974	161.4	95.6	257.1	63.7	7.6	14.9	1.6	13.8	23.6	2.0	2.5	218.0	281.6	—	802.3	198.9	771.3
1975	178.2	125.7	304.8	66.1	11.3	18.1	2.0	11.2	26.3	1.9	17.8	286.8	333.7	—	703.6	201.8	985.7
1976	231.5	95.1	326.6	80.8	12.9	27.7	2.1	12.2	21.2	1.8	39.7	208.8	328.3	—	733.6	229.8	960.4
1977	202.6	91.2	293.8	113.8	11.7	54.5	1.2	14.8	17.8	2.1	46.0	286.4	434.6	—	841.9	231.2	1,073.1
1978	183.6	88.1	281.7	108.4	16.9	42.9	1.2	12.7	20.3	1.7	30.8	319.3	448.4	—	837.5	258.6	1,096.2
1979	181.4	87.5	268.9	144.8	20.0	90.2	2.5	43.5	29.2	2.4	25.5	479.2	689.4	—	1,109.2	282.9	1,398.0
1980	188.3	88.8	278.7	167.9	17.0	125.3	3.9	62.9	38.6	4.3	54.7	708.4	891.2	—	1,434.4	308.7	1,791.8
1981	172.9	75.7	248.6	206.7	23.6	86.8	3.0	60.8	44.0	4.2	21.2	832.7	1,086.6	—	1,544.8	357.7	1,902.6
1982	137.1	87.9	225.0	197.3	17.9	88.8	4.9	67.0	38.5	3.5	26.1	552.5	799.1	—	1,221.4	382.1	1,603.5
1983	78.2	82.2	160.4	201.9	11.0	R88.8	3.7	68.5	39.7	2.9	23.0	474.6	R711.3	—	R1,073.5	373.9	R1,447.4
1984	102.3	107.9	210.3	192.8	14.2	R85.8	1.8	3.7	43.9	5.6	35.1	432.4	R623.4	—	R1,088.2	352.4	R1,378.7
1985	72.4	75.3	147.8	171.8	14.0	R72.8	7.3	27.2	46.9	11.1	22.1	423.1	R618.3	—	R837.8	348.9	R1,286.4
1986	89.0	75.7	164.7	147.3	15.7	R60.0	R2.2	28.4	35.4	8.4	15.4	278.8	R431.2	—	R743.2	337.6	R1,680.6
1987	81.0	73.9	158.0	138.8	11.5	R70.6	R3.4	29.4	32.8	9.1	8.1	328.6	R482.3	—	R798.0	341.4	R1,127.5
1988	84.3	82.1	176.4	111.2	16.5	R66.1	2.9	27.6	36.1	9.3	6.7	287.6	R437.1	—	R744.8	351.2	R1,086.9
1989	91.5	85.7	177.3	139.0	16.9	R79.6	R2.8	29.4	36.7	11.1	13.4	344.6	R534.7	—	R851.0	358.8	R1,209.9
1990	83.1	82.2	165.3	155.2	14.8	R81.9	R1.4	37.5	39.1	12.0	17.8	488.9	R699.3	3.8	R1,223.5	368.8	R1,390.4
1991	86.0	73.4	159.1	119.8	10.9	R83.5	1.3	49.5	39.2	13.5	8.9	R283.0	R478.0	4.0	R754.0	384.0	R1,118.0
1992	75.4	71.6	147.0	121.0	8.6	R67.4	1.9	40.4	46.3	12.4	5.7	R259.1	R441.8	3.9	R713.8	387.8	R1,101.6
1993	79.1	78.4	157.6	R122.7	8.2	R79.1	R2.0	R41.2	45.9	R9.1	R5.8	R230.8	R421.1	4.0	R705.4	399.7	R1,090.1
1994	72.5	85.4	157.9	130.1	13.1	81.5	2.0	38.7	48.8	9.3	6.0	226.0	424.3	4.1	716.4	409.5	1,122.8

^a Liquefied petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990.

R=Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 303. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, West Virginia

Year	Primary Energy										Electricity	Total Energy
	Coal	Natural Gas	Petroleum							Total		
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel			
Prices in Nominal Dollars per Million Btu												
1970	0.35	—	2.17	1.72	0.73	1.45	5.08	2.86	6.85	2.68	2.57	2.67
1971	0.37	—	2.21	1.91	0.75	1.48	5.27	3.02	—	2.93	2.83	2.89
1972	0.43	—	2.19	2.07	0.78	1.46	5.58	3.07	—	2.89	2.89	2.89
1973	0.44	—	2.36	2.50	0.90	1.66	5.93	3.14	—	3.02	3.01	3.01
1974	0.63	—	3.23	3.65	1.56	2.69	7.22	4.12	—	4.04	4.04	4.04
1975	1.39	—	3.48	3.97	2.09	2.79	7.49	4.91	—	4.59	4.59	4.59
1976	1.17	—	3.59	3.66	2.17	3.14	7.05	4.73	—	4.58	4.58	4.58
1977	1.25	—	3.97	4.03	2.55	3.70	6.97	5.05	—	4.88	4.88	4.88
1978	—	—	4.29	4.32	2.83	3.70	7.80	5.13	—	4.99	4.99	4.99
1979	—	—	5.73	5.85	3.95	4.53	10.21	7.08	2.91	6.67	6.67	6.67
1980	—	—	8.03	8.36	6.46	5.88	14.34	9.94	—	9.81	9.81	9.81
1981	—	—	10.84	10.15	7.61	8.28	18.00	11.06	—	10.92	10.92	10.92
1982	—	—	10.92	9.64	7.18	8.00	17.25	10.41	—	10.34	10.34	10.34
1983	—	—	10.44	8.45	^R 7.15	8.20	16.99	9.77	^R 9.45	^R 9.45	^R 9.45	^R 9.45
1984	—	—	10.27	8.72	^R 7.08	7.83	17.63	9.12	^R 9.06	^R 9.06	^R 9.06	^R 9.06
1985	—	—	8.99	8.78	8.87	8.47	17.41	8.19	4.29	8.14	8.14	8.14
1986	—	—	9.41	6.65	5.14	8.22	15.59	7.00	—	7.05	7.05	7.05
1987	—	—	7.55	7.04	4.72	9.03	12.70	7.34	—	7.31	7.31	7.31
1988	—	—	7.41	9.66	4.45	9.79	14.41	7.52	—	7.42	7.42	7.42
1989	—	—	8.28	7.50	4.99	9.15	14.49	6.52	—	6.27	6.27	6.27
1990	—	—	8.32	8.98	8.41	10.16	14.88	9.86	—	9.73	9.73	9.73
1991	—	—	8.71	8.23	5.56	10.59	18.79	9.92	—	9.53	9.53	9.53
1992	—	2.72	—	8.45	5.31	10.04	19.43	9.49	—	9.26	9.26	9.26
1993	—	2.72	9.24	9.49	4.19	9.80	16.94	^R 9.81	^R 9.34	^R 9.34	^R 9.34	^R 9.34
1994	—	3.59	7.98	8.68	3.86	7.87	19.18	9.77	—	9.52	9.52	9.52
Expenditures in Million Nominal Dollars												
1970	0.1	—	0.8	24.8	1.2	8.1	5.7	235.4	(a)	267.7	267.8	267.8
1971	0.1	—	0.8	34.1	1.0	0.1	4.9	296.2	—	300.9	301.0	301.0
1972	0.1	—	0.7	41.9	0.8	0.1	7.8	270.1	—	321.4	321.5	321.5
1973	0.1	—	0.7	67.8	0.6	0.1	7.2	297.4	—	364.1	364.2	364.2
1974	0.1	—	1.0	78.5	1.7	0.1	9.3	393.0	—	463.5	463.6	463.6
1975	(b)	—	1.8	83.9	2.7	8.1	18.9	494.3	—	582.1	582.1	582.1
1976	(a)	—	1.0	64.6	3.1	0.2	11.4	506.8	—	587.1	587.1	587.1
1977	(a)	—	1.2	86.9	4.0	0.3	10.6	559.2	—	662.2	662.3	662.3
1978	—	—	1.3	103.1	4.5	0.3	12.4	589.2	—	690.7	690.7	690.7
1979	—	—	1.7	146.7	7.1	0.3	17.4	757.7	(a)	931.1	931.1	931.1
1980	—	—	3.8	236.1	12.6	0.3	21.8	1,064.2	—	1,278.1	1,278.1	1,278.1
1981	—	—	1.7	267.6	13.9	0.7	26.2	1,082.9	—	1,382.4	1,382.4	1,382.4
1982	—	—	1.3	214.1	11.8	0.6	22.9	1,026.6	—	1,277.2	1,277.2	1,277.2
1983	—	—	2.3	321.5	^R 11.1	0.7	23.6	942.3	^R 1,301.4	^R 1,301.4	^R 1,301.4	^R 1,301.4
1984	—	—	2.0	351.8	^R 9.5	0.6	26.1	870.4	^R 1,260.4	^R 1,260.4	^R 1,260.4	^R 1,260.4
1985	—	—	1.8	338.9	9.0	0.7	24.3	884.1	(a)	1,229.9	1,229.9	1,229.9
1986	—	—	2.1	183.8	9.3	0.6	21.0	665.9	—	859.7	859.7	859.7
1987	—	—	1.3	205.2	5.6	0.5	19.4	722.3	—	954.3	954.3	954.3
1988	—	—	1.4	207.7	6.2	0.6	21.5	759.8	—	997.4	997.4	997.4
1989	—	—	1.6	259.9	10.6	0.6	21.8	946.8	—	1,141.1	1,141.1	1,141.1
1990	—	—	1.7	297.6	8.8	0.7	22.7	981.6	—	1,334.1	1,334.1	1,334.1
1991	—	—	1.5	271.0	7.3	0.7	23.3	980.3	—	1,284.1	1,284.1	1,284.1
1992	—	(a)	—	304.7	8.0	0.8	27.5	958.6	—	1,307.8	1,307.8	1,307.8
1993	—	(a)	1.1	329.8	9.0	0.7	27.3	^R 981.8	^R 1,346.5	^R 1,346.5	^R 1,346.5	^R 1,346.5
1994	—	(a)	1.0	338.8	4.9	0.8	29.9	1,014.9	—	1,389.0	1,389.0	1,389.0

^a Liquefied petroleum gases.

R=Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 304. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, West Virginia

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
	Prices in Nominal Dollars per Million Btu								
1970	0.25	0.32	0.94	0.94	—	0.94	—	0.00	0.26
1971	0.32	0.34	0.85	0.84	—	0.85	—	—	0.32
1972	0.35	0.78	0.95	1.95	—	0.97	—	—	0.36
1973	0.37	0.32	0.66	1.73	—	0.69	—	—	0.37
1974	0.65	0.27	1.73	2.53	—	1.76	—	—	0.66
1975	0.87	0.80	1.83	2.44	—	1.84	—	—	0.88
1976	0.92	1.00	1.79	2.67	—	1.82	—	—	0.92
1977	1.03	1.97	2.12	3.04	—	2.13	—	—	1.04
1978	1.20	1.75	2.77	3.35	—	2.77	—	—	1.22
1979	1.28	2.77	2.92	6.55	—	2.93	—	—	1.29
1980	1.41	2.89	—	6.30	—	6.30	—	—	1.44
1981	1.62	4.46	—	7.48	—	7.48	—	—	1.65
1982	1.71	4.16	—	7.04	—	7.04	—	—	1.74
1983	1.70	4.95	—	6.22	—	6.22	—	—	1.72
1984	1.63	5.02	—	6.22	—	6.22	—	—	1.64
1985	1.60	4.78	—	6.08	—	6.08	—	—	1.62
1986	1.50	4.03	—	3.71	—	3.71	—	—	1.50
1987	1.42	3.94	—	4.36	—	4.36	—	—	1.43
1988	1.44	3.88	—	3.95	—	3.95	—	—	1.45
1989	1.43	4.59	—	4.51	—	4.51	—	—	1.43
1990	1.47	5.13	—	6.72	—	6.72	—	—	1.48
1991	1.52	3.63	—	5.37	—	5.37	—	—	1.53
1992	1.47	3.53	—	4.94	—	4.94	—	—	1.46
1993	1.42	4.36	—	4.62	—	4.62	—	—	1.46
1994	1.39	4.00	—	4.42	—	4.42	—	—	1.46
Expenditures in Million Nominal Dollars									
1970	97.1	8.2	2.5	(a)	—	2.6	—	(a)	98.9
1971	119.8	0.1	2.2	(a)	—	2.2	—	—	122.1
1972	164.5	0.2	3.9	0.2	—	4.1	—	—	168.8
1973	200.2	0.1	2.2	0.2	—	2.3	—	—	202.6
1974	498.8	0.1	12.9	0.1	—	13.0	—	—	512.9
1975	822.5	8.1	8.2	8.2	—	8.3	—	—	831.8
1976	591.1	0.2	8.3	0.5	—	8.6	—	—	600.0
1977	669.6	0.1	12.0	0.3	—	12.3	—	—	681.9
1978	718.0	(a)	26.1	(a)	—	26.1	—	—	744.1
1979	694.8	0.2	74.4	0.1	—	14.5	—	—	640.4
1980	972.6	0.2	—	25.1	—	25.1	—	—	997.7
1981	1,178.3	0.9	—	36.0	—	36.0	—	—	1,215.2
1982	1,164.9	0.8	—	21.4	—	21.4	—	—	1,186.8
1983	1,220.1	0.5	—	15.1	—	15.1	—	—	1,235.6
1984	1,246.5	0.6	—	13.9	—	13.9	—	—	1,260.0
1985	1,348.3	0.4	—	12.9	—	12.9	—	—	1,361.6
1986	1,148.7	1.2	—	8.2	—	8.2	—	—	1,156.2
1987	1,082.3	0.9	—	9.7	—	9.7	—	—	1,093.2
1988	1,138.6	0.3	—	8.2	—	8.2	—	—	1,146.1
1989	1,144.3	0.6	—	10.6	—	10.6	—	—	1,155.4
1990	1,095.1	0.7	—	12.3	—	12.3	—	—	1,108.0
1991	1,045.6	0.5	—	10.6	—	10.6	—	—	1,056.7
1992	1,034.2	0.7	—	8.7	—	8.7	—	—	1,043.6
1993	984.0	0.6	—	9.6	—	9.6	—	—	994.2
1994	1,052.4	1.0	—	10.9	—	10.9	—	—	1,064.2

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

—No consumption.

(a) Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 305. Energy Price and Expenditure Estimates by Source, 1970-1994, Wisconsin

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c
	Coal			Natural Gas	Petroleum						Nuclear Fuel	Biomass	Total ^c				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b				Total			
Prices in Nominal Dollars per Million Btu																	
1970	9.53	8.51	0.84	8.79	1.87	6.74	1.88	2.68	0.57	\$1.42	1.89	6.18	0.85	1.16	0.39	6.82	1.76
1971	8.71	8.51	0.52	8.82	1.13	6.78	1.83	2.77	0.71	\$1.54	1.99	0.15	—	1.20	0.40	6.18	1.86
1972	9.68	0.85	0.56	0.89	1.14	0.82	2.00	2.59	0.86	\$1.68	1.90	0.15	—	1.26	0.43	6.55	2.00
1973	8.79	0.57	0.57	0.94	1.46	0.95	3.23	3.07	0.82	\$1.75	2.96	0.20	—	1.42	0.44	7.01	2.26
1974	1.44	0.83	0.85	1.03	2.41	1.60	3.34	4.30	1.06	\$2.94	3.44	0.22	—	1.02	0.59	7.71	2.93
1975	1.88	1.85	1.85	1.38	2.47	2.46	3.88	4.64	1.79	\$3.16	3.83	0.32	—	2.12	0.71	8.88	3.29
1976	1.82	1.04	1.06	1.78	2.89	2.38	3.65	4.77	1.80	\$3.14	3.78	0.38	—	2.33	0.76	9.55	3.65
1977	1.81	1.10	1.11	2.05	3.07	2.66	4.25	5.07	2.08	\$3.94	4.13	0.32	1.04	2.57	0.82	10.20	3.99
1978	2.44	1.25	1.27	2.30	3.15	2.87	4.28	4.98	2.09	\$3.42	4.10	0.34	1.12	2.88	0.95	10.87	4.18
1979	2.20	1.30	1.40	2.65	4.78	3.92	5.41	6.96	2.42	\$4.67	5.79	0.34	1.56	3.45	1.09	11.78	5.29
1980	2.27	1.43	1.44	3.43	6.89	6.36	6.51	9.43	3.48	\$6.96	6.13	0.47	1.74	4.42	1.28	13.34	6.85
1981	2.41	1.64	1.66	4.22	7.90	7.55	6.99	10.40	4.31	\$6.50	6.41	0.53	1.24	5.11	1.34	15.14	8.06
1982	2.47	1.80	1.80	4.85	7.81	7.22	7.74	10.40	3.97	\$6.40	6.20	0.80	1.28	5.25	1.50	17.31	8.82
1983	2.39	1.79	1.79	5.47	\$7.54	\$6.75	8.20	9.36	4.15	\$6.50	\$6.62	0.83	1.12	5.12	1.54	17.68	8.97
1984	2.48	1.78	1.78	5.38	\$7.87	\$6.45	8.28	9.28	4.85	\$6.38	\$6.87	0.67	1.28	5.02	1.48	17.12	\$8.86
1985	2.88	1.78	1.78	8.37	\$7.83	6.19	8.56	9.39	4.59	\$6.86	\$6.87	0.68	0.79	5.81	1.42	18.87	8.91
1986	—	1.88	1.88	5.14	5.79	4.45	8.14	7.00	2.89	\$7.50	6.83	0.81	0.32	4.15	1.33	16.97	\$7.72
1987	—	1.53	1.53	5.03	\$6.13	4.29	7.34	7.49	2.55	\$6.59	\$6.91	0.48	0.85	4.14	1.23	16.41	7.68
1988	—	1.53	1.53	4.88	\$6.84	4.11	7.84	7.55	2.45	\$6.03	6.82	0.43	0.87	4.14	1.21	16.14	7.51
1989	—	1.50	1.50	4.81	\$6.57	4.83	10.18	8.29	2.40	\$5.78	\$7.65	0.45	0.76	\$4.37	1.27	15.90	\$7.73
1990	—	1.41	1.41	4.56	\$7.88	8.88	8.78	9.38	2.41	\$6.85	\$6.48	0.48	\$1.78	\$4.56	1.16	15.77	\$7.88
1991	—	1.41	1.41	4.40	\$7.17	8.26	8.42	9.16	2.36	\$6.43	\$6.32	0.46	1.62	\$4.43	1.15	16.01	\$7.84
1992	—	1.38	1.38	4.60	\$6.95	4.84	7.97	8.94	2.23	\$7.01	6.65	0.40	1.84	\$4.41	1.11	16.12	\$7.84
1993	—	1.27	1.27	4.92	\$7.08	4.25	8.63	\$8.72	2.50	\$6.84	\$7.92	0.40	1.89	\$4.46	1.02	16.24	\$7.93
1994	—	1.27	1.27	4.78	6.98	3.98	7.72	9.08	2.37	6.85	8.01	0.41	1.85	4.46	1.03	16.04	7.91
Expenditures in Million Nominal Dollars																	
1970	6.8	197.2	196.2	267.1	161.8	8.7	54.3	833.8	3.8	\$67.7	862.8	0.3	0.1	1,418.4	-188.2	941.9	1,899.2
1971	7.9	168.2	174.2	286.8	179.0	8.3	54.5	880.6	7.0	\$68.7	1,014.1	6.5	—	1,480.6	-117.9	941.3	1,904.7
1972	7.9	178.7	186.6	283.7	177.8	9.3	45.9	700.8	8.8	\$90.3	1,032.9	6.3	—	1,589.6	-132.7	918.8	2,014.6
1973	5.3	172.5	177.9	248.0	233.6	12.3	105.5	827.3	11.3	\$102.8	1,292.8	12.7	—	1,889.3	-148.7	708.5	2,399.1
1974	9.8	225.9	236.5	389.5	377.0	19.4	105.3	1,145.8	16.4	\$137.3	1,801.4	20.7	—	2,447.4	-201.2	784.2	3,030.5
1975	12.8	273.6	286.4	474.3	382.3	28.8	112.5	1,230.6	19.3	\$125.5	1,886.3	38.8	—	2,882.7	-245.3	882.2	3,279.7
1976	13.0	307.2	320.2	530.2	471.4	29.9	126.7	1,345.0	30.9	\$133.5	2,137.4	42.1	—	3,038.9	-281.6	1,063.0	3,810.2
1977	13.6	328.7	342.3	719.8	548.0	34.5	165.4	1,483.1	38.7	\$131.2	2,380.9	37.9	(s)	3,461.0	-300.2	1,170.8	4,361.0
1978	16.3	384.3	374.6	855.8	599.6	38.4	141.3	1,485.1	39.4	\$156.2	2,462.9	43.9	0.2	3,737.5	-370.9	1,321.0	4,887.7
1979	9.2	438.9	448.2	877.9	688.6	57.2	122.0	1,939.3	18.2	\$184.6	3,220.0	38.3	0.5	4,684.9	-438.6	1,470.3	5,718.4
1980	12.3	458.9	472.2	1,094.8	883.2	85.1	143.2	2,457.8	27.8	\$184.1	3,882.2	50.3	1.1	5,843.7	-484.9	1,889.3	6,718.3
1981	12.2	527.1	539.3	1,321.2	964.2	87.1	125.0	2,604.8	19.1	\$111.1	4,171.4	86.7	0.7	6,569.5	-622.4	1,942.3	7,509.2
1982	7.1	578.8	585.9	1,517.8	933.5	85.4	183.6	2,626.4	39.6	\$82.7	4,011.1	90.8	1.0	8,204.5	-884.9	2,182.0	7,811.5
1983	1.9	629.2	631.2	1,612.0	\$887.9	\$700.0	175.3	2,303.2	14.7	\$288.4	\$3,719.4	84.6	0.7	\$8,047.9	-825.5	2,331.0	\$7,753.4
1984	8.1	646.0	646.0	1,613.2	\$890.5	\$81.1	184.0	2,288.8	14.1	\$288.8	\$3,751.2	78.4	1.1	\$8,089.9	-633.9	2,588.7	\$8,044.7
1985	8.1	636.8	636.8	1,634.5	\$1,084.7	57.8	184.3	2,288.8	8.3	\$288.1	\$3,773.1	68.2	4.7	\$8,113.5	-612.9	2,601.9	\$8,101.8
1986	—	623.8	623.8	1,408.6	\$738.8	30.1	157.5	1,743.8	14.5	\$287.8	\$2,901.5	82.2	0.4	\$4,908.4	-685.6	2,674.4	\$7,075.1
1987	—	690.9	690.9	1,374.6	\$754.4	34.8	150.1	1,884.8	19.8	\$204.7	\$3,022.8	89.1	1.5	\$5,048.7	-671.4	2,491.2	\$6,968.5
1988	—	601.8	601.8	1,616.0	\$837.0	30.8	153.9	1,867.6	12.8	\$283.8	\$3,223.8	62.7	1.5	\$5,398.6	-674.9	2,609.1	\$7,430.8
1989	—	589.5	589.5	1,491.3	\$828.9	34.9	256.8	2,139.3	12.2	\$228.8	\$3,601.6	82.1	1.4	\$5,730.4	-666.7	2,619.8	\$7,784.1
1990	—	688.2	688.2	1,771.5	\$1,030.2	47.8	233.6	2,389.2	13.2	\$318.4	\$3,886.9	87.9	(s)	\$6,908.6	-644.4	2,629.3	\$8,084.5
1991	—	573.5	573.5	1,420.9	\$881.3	39.8	255.9	2,405.7	3.6	\$258.9	\$3,828.2	53.4	60.1	\$6,045.0	-557.3	2,730.5	\$8,248.1
1992	—	550.5	550.5	1,494.7	\$820.8	44.8	233.5	2,381.7	8.7	\$278.0	\$3,637.6	47.6	68.1	\$5,986.9	\$500.3	2,772.0	\$8,240.0
1993	—	513.6	513.6	1,880.8	\$1,004.5	48.8	\$257.0	\$2,363.8	\$14.2	\$282.8	\$3,876.0	48.5	90.8	\$6,281.3	\$480.0	2,913.7	\$8,888.0
1994	—	539.9	539.9	1,834.3	1,057.7	44.4	248.7	2,525.8	13.0	301.7	4,191.2	50.2	83.0	8,478.8	-623.9	3,000.8	8,965.5

^a Liquid petroleum gases.^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used at electric utilities), and the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

\$=Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(s)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 306. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Wisconsin

Year	Primary Energy								Electricity	Total Energy ^c
	Coal	Natural Gas	Petroleum				Biofuels ^b	Total ^d		
			Distillate Fuel	Kerosene	LPG ^a	Total				
Prices in Nominal Dollars per Million Btu										
1970	1.88	1.12	1.21	1.47	2.07	1.42	—	1.38	6.78	2.06
1971	1.85	1.24	1.29	1.52	1.97	1.46	—	1.36	6.90	2.13
1972	1.73	1.31	1.30	1.56	2.22	1.53	—	1.43	7.38	2.33
1973	1.66	1.41	1.66	1.64	4.01	2.22	—	1.78	7.89	2.73
1974	2.87	1.48	2.68	2.81	3.66	2.84	—	2.09	8.77	3.12
1975	3.18	1.71	2.87	2.97	4.18	2.94	—	2.24	10.04	3.46
1976	2.99	2.67	2.81	3.11	4.30	3.14	—	2.54	10.88	3.83
1977	3.15	2.46	3.22	3.69	4.97	3.50	—	2.96	11.55	4.37
1978	3.61	2.65	3.22	3.80	4.52	3.50	—	3.01	12.35	4.54
1979	3.68	3.02	4.85	5.42	6.84	5.13	—	3.88	13.37	6.53
1980	3.82	3.81	8.88	8.11	7.88	6.82	—	4.78	15.04	8.88
1981	4.15	4.73	7.87	8.93	8.07	7.92	—	5.76	17.14	8.26
1982	4.11	5.88	7.77	8.91	9.08	8.03	—	6.34	19.72	9.21
1983	4.19	6.43	7.66	8.69	8.87	8.06	—	6.66	20.33	10.10
1984	4.16	6.46	7.66	8.68	9.03	8.04	—	6.88	19.68	10.18
1985	4.26	6.41	7.44	8.46	8.71	7.76	—	6.80	19.78	10.09
1986	3.66	6.14	6.72	6.60	8.05	6.28	—	6.17	20.07	9.79
1987	3.72	5.94	5.69	6.43	7.69	6.23	—	6.02	19.89	9.58
1988	3.63	5.84	5.69	6.35	7.29	6.02	—	5.89	18.52	9.20
1989	3.64	5.61	6.14	6.67	12.12	6.18	—	6.31	18.56	9.49
1990	3.87	6.39	7.13	8.89	10.89	6.47	^{dR} 6.58	^{dR} 6.28	18.44	^{dR} 9.23
1991	3.43	5.57	6.78	7.69	6.91	7.80	^R 6.58	^R 6.07	19.73	^R 9.06
1992	3.41	5.92	6.19	7.03	7.89	6.90	^R 6.56	^R 6.03	20.26	^R 9.06
1993	3.35	6.27	6.23	7.07	8.58	7.18	^R 6.56	^R 6.47	20.62	^R 9.67
1994	3.33	6.21	6.14	6.97	8.01	6.92	^R 6.58	6.35	20.74	9.71
Expenditures in Million Nominal Dollars										
1970	15.8	191.2	82.9	13.4	43.9	199.6	—	286.3	286.3	812.6
1971	18.5	198.7	88.5	10.1	43.0	141.5	—	286.6	243.6	642.3
1972	9.5	140.0	89.6	7.5	52.9	150.0	—	298.6	278.3	577.6
1973	6.0	158.0	113.9	8.6	89.6	212.3	—	376.3	308.2	684.5
1974	10.3	174.5	172.6	9.6	79.2	260.4	—	445.2	344.3	789.5
1975	11.8	298.5	164.6	8.8	83.2	267.6	—	478.4	468.4	862.0
1976	12.6	269.1	205.2	7.0	89.4	301.6	—	573.3	449.4	1,022.7
1977	10.1	297.8	234.6	6.6	98.8	340.2	—	648.0	487.2	1,145.2
1978	7.5	346.8	239.9	7.8	85.8	334.3	—	667.6	548.8	1,237.3
1979	9.7	381.9	346.7	3.8	77.1	427.5	—	619.1	606.0	1,425.1
1980	1.7	473.2	515.4	8.7	84.3	683.4	—	878.3	697.8	1,575.8
1981	1.4	531.5	343.2	4.1	79.5	426.8	—	959.6	803.3	1,782.9
1982	1.3	668.7	342.5	4.4	92.0	438.9	—	1,106.9	940.6	2,047.5
1983	1.7	726.9	221.3	4.1	106.3	333.7	—	1,063.8	1,001.9	2,065.6
1984	4.4	795.6	258.6	6.9	106.1	361.4	—	1,091.3	1,076.9	2,167.2
1985	1.8	751.6	278.4	9.3	86.7	363.5	—	1,186.1	1,067.7	2,253.8
1986	1.1	687.3	214.2	2.8	89.6	306.5	—	904.8	1,133.5	2,126.4
1987	2.9	617.9	191.5	3.7	95.5	280.7	—	911.6	1,098.7	1,948.2
1988	2.6	714.7	212.4	1.9	92.9	307.2	—	1,024.4	1,091.0	2,115.4
1989	0.6	718.3	183.0	1.6	186.4	382.9	—	1,109.9	1,085.0	2,194.8
1990	0.2	664.6	192.5	1.3	152.2	346.8	^{dR} 16.5	^{dR} 1,017.4	1,987.0	^{dR} 2,104.4
1991	0.3	606.1	202.4	1.9	196.7	372.4	17.4	^R 1,086.3	1,168.0	^R 2,254.3
1992	0.1	724.4	171.5	1.2	143.4	316.0	18.3	^R 1,058.9	1,148.0	^R 2,206.9
1993	1.1	825.0	186.3	1.9	172.9	380.9	9.5	^R 1,196.5	1,222.0	^R 2,416.6
1994	1.5	804.9	171.8	1.3	186.6	332.6	9.3	1,146.3	1,249.9	2,395.3

^a Liquefied petroleum gases^b Commercial sector prices and expenditures for wood and waste are included in the residential sector^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in the time series between 1988 and 1990 due to the expanded coverage of non-electric utility use of biofuels beginning in 1990^R—Revised data

—No consumption

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 307. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Wisconsin

Year	Primary Energy								Electricity	Total Energy ^b	
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.68	0.92	1.34	0.80	1.35	2.85	0.59	1.08	0.44	7.28	2.85
1971	0.65	0.83	1.10	0.85	1.44	2.77	0.75	1.17	0.90	7.42	2.27
1972	0.74	0.88	1.10	0.85	1.44	2.69	0.66	1.17	0.99	7.85	2.72
1973	0.75	1.09	1.44	1.16	1.53	3.07	0.80	1.44	1.14	8.34	3.03
1974	1.06	1.11	2.38	2.31	2.66	4.30	1.54	2.41	1.34	9.01	3.18
1975	1.51	1.29	2.38	2.41	2.83	4.54	1.86	2.43	1.50	10.13	3.55
1976	1.46	1.66	2.60	2.62	2.67	4.77	1.89	2.66	1.84	10.60	4.14
1977	1.62	2.07	2.99	2.99	3.61	5.07	2.06	3.02	2.23	11.81	4.90
1978	1.84	2.32	3.02	3.14	3.94	4.88	2.03	3.14	2.44	12.69	4.95
1979	1.90	2.96	4.56	4.61	4.16	6.86	2.54	4.40	2.86	13.52	5.55
1980	1.47	3.43	8.30	5.72	3.33	9.43	4.31	6.21	3.80	15.25	6.82
1981	2.11	4.94	7.51	7.52	5.57	10.48	5.44	7.35	4.67	17.32	8.57
1982	2.20	4.88	7.40	8.08	6.53	10.40	5.50	7.36	5.19	19.37	9.43
1983	2.15	5.26	R 6.74	8.68	7.19	9.36	4.84	R 6.82	R 5.69	19.88	R 9.54
1984	2.13	5.19	R 6.53	7.26	7.16	8.26	4.74	R 6.71	R 5.64	19.24	R 9.75
1985	2.11	5.14	R 6.29	R 4.94	8.32	9.33	4.50	R 6.69	R 5.46	18.88	R 9.48
1986	2.02	4.96	R 3.94	4.89	8.25	7.00	2.90	R 4.69	4.86	18.75	R 10.03
1987	1.90	4.74	R 4.41	R 5.07	8.78	7.49	2.55	R 4.98	R 4.73	17.93	R 9.48
1988	1.95	4.84	R 4.54	R 4.43	8.89	7.55	2.46	R 4.58	R 4.59	17.63	R 9.06
1989	1.87	4.42	R 4.73	R 5.20	8.59	6.29	2.40	R 5.08	R 4.54	17.33	R 8.53
1990	1.89	4.72	R 5.53	R 4.18	8.36	9.38	2.41	R 4.28	R 5.83	17.83	R 8.28
1991	1.78	4.59	R 5.01	R 5.79	7.81	9.18	2.35	R 5.68	R 4.79	17.17	R 8.10
1992	1.74	4.77	R 4.84	R 5.41	7.93	8.94	2.23	R 5.55	4.90	17.46	8.34
1993	1.70	5.10	R 4.85	R 5.70	8.70	R 9.72	2.50	R 5.68	R 5.17	17.56	R 9.48
1994	1.70	4.85	4.82	5.29	7.75	9.06	2.36	5.41	4.90	17.35	9.32
Expenditures in Million Nominal Dollars											
1970	11.7	45.5	11.5	8.6	6.8	0.8	0.4	18.8	79.1	183.5	228.4
1971	10.2	45.4	12.2	0.5	5.5	0.7	0.9	19.8	75.5	196.7	242.1
1972	7.5	43.7	12.4	0.3	6.1	0.8	0.9	20.4	71.6	190.5	262.1
1973	5.0	60.9	16.0	0.4	6.1	0.9	0.9	24.3	90.2	235.2	325.4
1974	7.1	73.8	25.6	0.6	10.0	1.2	1.8	39.5	120.3	251.4	371.8
1975	10.7	88.6	24.2	0.8	9.3	1.2	1.8	37.8	137.1	286.4	428.5
1976	11.7	98.8	30.7	0.5	9.6	1.3	3.1	45.4	155.9	318.9	474.8
1977	9.0	128.5	36.4	0.5	12.3	1.3	4.1	53.7	191.2	372.1	563.3
1978	6.3	182.9	36.4	0.5	13.3	1.6	3.3	65.1	244.3	415.2	659.5
1979	8.8	217.2	53.1	0.8	8.3	2.2	3.4	87.2	298.2	461.8	785.0
1980	1.2	285.9	61.8	1.8	10.3	3.8	0.8	78.5	346.8	521.5	868.4
1981	1.9	298.0	51.1	0.2	9.9	4.5	0.4	69.0	365.3	604.6	968.9
1982	1.9	344.3	58.1	0.0	11.7	4.7	1.3	79.8	424.4	675.1	1,069.5
1983	1.9	361.4	R 147.5	0.2	15.3	13.2	0.3	R 178.7	R 539.6	702.0	R 1,241.6
1984	4.2	367.6	R 154.3	0.3	14.9	12.4	0.2	R 182.1	R 653.9	850.8	R 1,404.4
1985	0.9	378.3	R 114.7	0.3	16.1	13.9	3.0	R 148.4	R 837.8	778.5	R 1,307.1
1986	1.1	277.1	R 98.7	0.1	16.2	10.3	4.6	R 70.9	R 349.1	789.8	R 1,138.9
1987	2.8	278.0	R 88.2	0.1	14.9	11.2	1.9	R 74.2	R 353.0	744.8	R 1,087.8
1988	2.4	313.3	R 42.4	0.2	15.0	11.4	3.8	R 72.9	R 388.5	778.0	R 1,165.5
1989	0.5	311.2	R 55.6	0.2	18.0	12.1	4.5	R 91.4	R 403.2	776.0	R 1,179.1
1990	0.1	R 315.1	R 59.6	0.3	25.1	15.7	3.3	R 183.3	R 418.6	778.0	R 1,167.4
1991	0.3	R 330.4	R 57.2	0.3	25.4	11.9	2.6	R 97.5	R 428.2	820.0	R 1,248.2
1992	0.1	R 343.0	R 43.7	0.3	25.1	9.9	3.2	R 82.3	R 425.4	830.0	R 1,255.4
1993	1.0	R 397.7	R 43.7	R 0.4	30.9	R 23	3.1	R 60.9	R 479.0	881.0	R 1,340.0
1994	1.4	388.0	34.4	0.2	27.2	4.2	2.5	68.6	468.0	890.0	1,346.0

^a Liquefied petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector process and expenditures for wood and waste are included in the residential sector.

R=Revised data.

Note: Expenditure totals may not equal sum of components due to independent rounding. Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 308. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Wisconsin

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum								Biomass ^e	Total ^f			
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b			Total		
Prices in Nominal Dollars per Million Btu																	
1970	0.58	0.58	0.58	0.54	0.76	0.79	0.83	1.15	3.98	2.85	0.97	2.95	1.19	—	0.79	4.29	1.89
1971	0.71	0.65	0.67	0.57	0.66	0.79	0.85	1.44	5.27	2.77	0.88	1.97	1.21	—	0.77	4.39	1.94
1972	0.68	0.74	0.73	0.62	0.69	0.79	0.85	1.44	6.58	2.69	0.88	2.00	1.23	—	0.85	4.61	1.19
1973	0.79	0.75	0.76	0.67	0.69	1.07	1.16	1.59	5.33	3.07	0.88	2.26	1.44	—	0.94	4.89	1.28
1974	1.44	1.08	1.12	0.78	1.80	2.13	2.31	2.66	7.22	4.30	1.75	2.85	2.50	—	1.38	6.48	1.78
1975	1.98	1.51	1.58	1.08	2.86	2.28	2.41	2.89	7.48	4.84	2.08	3.29	2.70	—	1.68	6.83	2.18
1976	1.92	1.45	1.46	1.37	2.00	2.43	2.62	2.67	7.06	4.77	1.97	3.43	2.76	—	1.93	7.34	2.58
1977	1.81	1.52	1.58	1.75	2.06	2.75	2.99	3.51	8.97	5.07	2.22	3.84	3.08	—	2.19	7.55	2.77
1978	2.44	1.54	1.71	2.01	2.15	2.88	3.14	3.94	7.80	4.86	2.20	4.16	3.15	—	2.38	8.08	3.08
1979	2.20	1.80	1.82	2.40	2.55	4.25	4.81	4.18	10.21	8.86	2.52	5.61	4.38	—	2.95	8.89	3.74
1980	2.27	1.47	1.85	3.13	2.86	5.18	5.73	5.33	14.78	8.43	3.81	6.78	5.85	—	3.61	16.16	4.68
1981	2.41	2.11	2.14	3.74	4.48	8.89	7.32	5.87	18.00	10.48	4.77	8.78	7.77	—	4.48	11.80	5.81
1982	2.47	2.20	2.21	4.36	4.54	7.33	8.09	6.83	17.25	10.40	3.91	9.30	7.13	—	4.71	13.66	6.88
1983	2.19	2.15	2.16	4.68	4.61	\$6.80	6.88	7.19	16.88	9.36	4.02	9.10	\$7.30	—	\$4.78	13.27	\$8.28
1984	2.16	2.13	2.13	4.43	4.75	\$6.64	7.26	7.18	17.63	9.28	4.74	9.25	\$7.68	—	\$4.79	12.95	8.32
1985	2.86	2.11	2.11	4.44	4.87	\$6.38	\$6.94	6.32	17.81	8.99	4.80	8.84	\$7.98	—	4.89	12.84	\$8.36
1986	—	2.02	2.02	4.18	4.08	\$4.59	\$4.89	6.25	15.59	7.08	2.90	\$7.80	\$6.81	—	\$4.12	12.71	\$5.98
1987	—	1.90	1.90	4.32	3.57	\$4.64	\$5.07	6.79	12.70	7.49	2.53	\$8.25	5.45	—	4.13	12.31	\$5.88
1988	—	1.95	1.95	4.05	3.34	\$4.85	\$4.43	6.69	14.81	7.55	2.48	\$7.22	\$5.02	—	\$3.92	12.01	\$6.42
1989	—	1.87	1.87	3.71	2.94	\$4.75	\$5.20	6.58	14.48	8.28	2.40	\$9.11	\$6.14	—	\$3.76	11.81	\$6.47
1990	—	1.88	1.88	3.37	3.13	\$5.68	\$6.19	6.36	14.80	9.38	2.41	\$8.00	\$6.75	\$1.37	\$4.82	11.88	\$6.73
1991	—	1.78	1.78	3.14	3.10	\$5.30	\$6.79	7.61	16.79	9.18	2.36	\$7.63	\$6.63	1.00	\$3.47	11.81	\$6.07
1992	—	1.74	1.74	3.35	2.58	\$4.95	\$5.41	7.93	19.43	8.94	2.25	\$9.99	\$5.67	1.58	\$3.37	11.72	\$6.18
1993	—	1.70	1.70	3.45	3.18	\$5.22	\$5.70	8.79	18.84	8.72	2.50	\$7.79	\$5.89	1.68	\$3.68	11.69	\$6.28
1994	—	1.70	1.70	3.32	3.09	4.78	5.22	8.80	19.18	9.08	2.38	6.29	5.62	1.57	3.52	11.39	5.12

Expenditures in Billion Nominal Dollars																	
1970	8.0	78.0	78.0	77.3	29.6	35.1	5.9	5.8	13.8	34.4	8.8	9.6	131.0	—	286.3	181.3	467.6
1971	7.9	42.8	50.7	89.7	25.4	38.7	4.8	5.5	12.3	33.1	9.1	13.4	134.7	—	274.8	131.2	405.7
1972	7.8	61.7	69.5	87.4	28.0	36.3	9.1	8.3	14.0	33.3	4.7	14.5	138.1	—	284.8	150.1	435.0
1973	5.0	47.6	52.6	113.1	29.6	48.3	4.0	8.0	20.0	35.0	5.8	18.2	189.9	—	336.2	165.0	501.3
1974	9.8	36.6	68.4	122.2	43.4	82.0	5.9	18.1	25.8	42.7	11.1	23.2	280.4	—	449.0	186.5	635.5
1975	12.6	72.6	84.6	139.8	41.1	87.9	5.8	18.1	19.3	46.4	9.3	24.4	288.0	—	534.1	240.2	744.3
1976	13.0	75.7	88.7	156.5	47.5	114.6	5.2	25.5	20.2	52.8	15.8	26.3	308.9	—	564.5	294.6	846.2
1977	13.6	73.1	86.8	282.5	43.1	129.3	5.2	89.0	21.0	60.6	17.8	26.8	348.5	—	717.8	309.9	1,027.7
1978	10.3	72.7	83.0	310.7	58.1	138.9	5.3	39.4	24.8	41.8	12.6	34.2	384.7	—	753.4	358.0	1,109.4
1979	9.2	96.2	104.4	330.5	56.2	180.7	2.3	44.6	34.5	52.5	1.8	47.7	430.2	—	865.2	402.6	1,267.7
1980	12.3	72.3	84.6	484.2	77.1	189.3	1.3	47.0	43.2	89.9	18.4	73.7	488.9	—	938.7	458.6	1,398.1
1981	12.2	100.7	112.9	484.4	70.6	142.1	2.0	31.7	52.0	74.6	15.8	121.3	510.1	—	1,087.4	534.5	1,622.0
1982	7.1	109.5	116.6	486.5	63.7	140.4	1.5	66.1	45.4	62.3	37.3	82.1	488.7	—	1,103.9	576.2	1,680.1
1983	1.8	109.4	111.4	507.1	61.0	\$126.1	1.1	48.1	46.8	58.3	11.0	89.7	\$438.2	—	\$1,258.7	627.2	\$1,885.9
1984	0.1	97.2	97.2	502.3	47.8	\$133.1	0.9	35.9	51.9	54.6	7.2	96.5	\$433.9	—	\$1,033.4	682.2	\$1,865.8
1985	0.1	104.8	104.7	489.8	54.6	\$113.5	0.8	47.0	48.3	55.7	2.2	88.2	\$408.4	—	\$1,012.3	723.7	\$1,736.0
1986	—	100.8	100.8	437.5	55.6	\$85.8	0.5	47.5	41.8	39.2	7.7	\$88.5	\$336.9	—	\$875.0	751.6	\$1,626.1
1987	—	88.9	88.9	472.1	53.5	\$83.0	0.3	36.7	36.5	38.3	12.0	\$84.9	\$326.7	—	\$887.7	708.7	\$1,596.4
1988	—	88.7	88.7	478.2	75.8	\$81.8	0.2	42.7	42.7	34.5	8.9	\$84.4	\$341.0	—	\$903.9	740.1	\$1,644.0
1989	—	85.7	85.7	457.4	74.3	\$83.0	0.5	38.2	43.4	37.6	7.6	\$85.8	\$351.6	—	\$885.7	752.9	\$1,648.5
1990	—	85.0	85.0	334.8	76.4	\$112.4	0.4	62.3	48.8	38.2	8.3	\$83.9	\$402.4	\$45.3	\$827.5	784.3	\$1,683.8
1991	—	81.3	81.3	386.9	88.5	\$126.5	0.9	67.9	48.3	48.1	6.0	\$86.7	\$440.3	50.4	\$890.5	772.5	\$1,731.4
1992	—	77.6	77.6	420.9	53.3	\$120.4	0.4	61.5	54.7	58.9	5.4	\$105.2	\$428.2	49.3	\$878.0	784.0	\$1,779.0
1993	—	73.8	73.8	449.7	68.8	\$144.9	0.6	68.7	54.2	\$77.8	\$10.9	\$84.6	\$470.7	49.2	\$1,043.5	830.7	\$1,874.2
1994	—	81.5	81.5	433.1	72.1	\$139.9	0.5	52.6	57.4	43.5	9.3	97.6	474.0	51.5	1,040.1	860.7	1,900.8

^a Liquefied petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1989^e Revised data^f No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

Note: Expenditure totals may not equal sum of components due to independent rounding

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 309. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Wisconsin

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.58	—	2.17	1.33	0.74	1.35	5.08	2.88	0.85	2.49	2.49	—	2.49
1971	0.55	—	2.21	1.34	0.78	1.44	5.27	2.77	0.72	2.56	2.56	—	2.56
1972	0.74	—	2.19	1.33	0.78	1.44	5.58	2.69	0.67	2.51	2.51	—	2.51
1973	0.76	—	2.36	1.61	0.92	1.83	5.33	3.07	0.77	2.85	2.85	—	2.85
1974	1.08	—	3.23	2.46	1.59	2.66	7.22	4.30	1.40	4.02	4.02	—	4.02
1975	1.51	—	3.44	2.62	2.08	2.63	7.48	4.54	1.44	4.24	4.24	—	4.24
1976	1.45	—	3.39	2.51	2.35	2.67	7.05	4.77	1.54	4.44	4.44	—	4.44
1977	1.52	—	3.37	3.23	2.68	3.51	6.97	5.07	1.83	4.74	4.74	—	4.74
1978	—	—	4.29	3.42	2.87	3.94	7.80	4.98	2.07	4.99	4.99	—	4.99
1979	—	—	5.75	5.15	3.92	4.19	10.21	6.86	2.27	6.47	6.47	—	6.47
1980	—	—	9.02	7.38	6.38	5.33	14.36	8.43	3.98	8.99	8.99	—	8.99
1981	—	—	10.84	8.45	7.55	5.67	18.00	10.49	5.00	10.09	10.09	—	10.09
1982	—	—	10.92	8.18	7.22	5.53	17.25	10.40	5.03	9.97	9.97	—	9.97
1983	—	—	10.44	8.15	^a 6.75	7.19	16.98	9.36	^a 9.14	^a 9.14	^a 9.14	—	^a 9.14
1984	—	—	10.27	8.64	^a 6.45	7.18	17.63	9.28	9.13	9.13	9.13	—	9.13
1985	—	—	9.99	8.88	^a 6.19	6.32	17.61	9.33	4.71	9.18	9.18	—	9.18
1986	—	—	8.41	6.69	4.45	8.25	15.59	7.00	3.60	6.95	6.95	—	6.95
1987	—	—	7.55	7.15	4.29	6.79	12.70	7.49	—	7.40	7.40	—	7.40
1988	—	—	7.41	7.00	4.11	6.69	14.61	7.55	2.37	7.42	7.42	—	7.42
1989	—	—	8.26	7.51	4.63	6.59	14.48	8.29	2.66	8.09	8.09	—	8.09
1990	—	3.98	8.32	8.79	5.98	6.38	14.90	9.38	2.89	8.22	8.22	—	8.22
1991	—	3.42	8.71	8.40	5.28	7.51	16.79	9.19	2.26	9.00	9.00	—	9.00
1992	—	3.68	8.64	8.21	4.84	7.69	19.43	8.94	2.41	8.75	8.75	—	8.75
1993	—	3.78	8.24	8.34	4.29	8.70	18.94	^a 8.72	2.42	^a 8.59	^a 8.59	—	^a 8.59
1994	—	3.37	7.96	8.27	3.99	8.69	19.19	9.06	2.58	8.81	8.81	20.46	8.81

Expenditures in Million Nominal Dollars													
1970	0.1	—	3.6	32.3	6.7	0.4	97.6	688.4	(s)	688.4	688.5	—	688.5
1971	0.1	—	3.1	37.0	8.3	0.5	18.9	646.6	0.1	714.5	714.6	—	714.6
1972	0.1	—	3.1	39.3	8.4	0.6	21.4	699.7	0.2	739.7	739.8	—	739.8
1973	(s)	—	2.4	52.2	11.5	0.6	19.4	791.4	0.3	877.9	877.9	—	877.9
1974	(s)	—	3.2	80.7	19.8	1.0	25.2	1,102.0	0.7	1,231.7	1,231.7	—	1,231.7
1975	(s)	—	3.9	92.4	25.5	0.9	22.8	1,181.0	2.8	1,306.8	1,306.8	—	1,306.8
1976	(s)	—	9.1	112.3	29.9	1.0	23.6	1,290.9	3.8	1,463.6	1,463.6	—	1,463.6
1977	(s)	—	3.7	139.5	33.6	1.6	22.1	1,411.2	5.9	1,614.8	1,614.8	—	1,614.8
1978	—	—	2.9	164.7	38.4	2.0	25.9	1,441.8	6.9	1,681.4	1,681.4	—	1,681.4
1979	—	—	3.3	262.9	57.2	2.0	38.3	1,864.7	4.7	2,270.6	2,270.6	—	2,270.6
1980	—	—	5.8	363.6	66.1	1.6	45.5	2,373.2	5.9	2,491.3	2,491.3	—	2,491.3
1981	—	—	5.9	414.6	87.1	4.0	54.7	2,578.6	2.4	3,154.5	3,154.5	—	3,154.5
1982	—	—	1.7	395.3	65.4	3.9	47.8	2,459.4	0.9	2,994.4	2,994.4	—	2,994.4
1983	—	—	6.0	394.2	^a 70.0	5.5	49.3	2,283.7	3.4	^a 2,762.1	^a 2,762.1	—	^a 2,762.1
1984	—	—	5.0	449.2	^a 58.1	7.0	54.6	2,187.6	6.7	^a 2,777.4	^a 2,777.4	—	^a 2,777.4
1985	—	—	8.1	480.1	87.4	6.8	60.4	2,811.3	4.1	2,894.7	2,894.7	—	2,894.7
1986	—	—	4.6	393.6	39.1	4.2	44.0	1,894.2	2.2	2,191.6	2,191.6	—	2,191.6
1987	—	—	3.2	429.2	34.6	3.1	40.5	1,614.3	—	2,325.1	2,325.1	—	2,325.1
1988	—	—	3.5	495.5	30.9	3.3	44.3	1,921.7	0.1	2,499.9	2,499.9	—	2,499.9
1989	—	—	5.4	583.8	34.9	2.9	45.7	2,089.4	0.1	2,781.6	2,781.6	—	2,781.6
1990	—	8.1	8.7	698.9	47.9	4.8	47.4	2,338.7	(s)	3,188.6	^a 3,188.7	—	^a 3,188.7
1991	—	0.1	4.6	571.4	39.8	3.8	46.8	2,345.7	(s)	3,014.1	^a 3,014.2	—	^a 3,014.2
1992	—	0.1	6.2	563.0	44.9	3.5	67.5	2,319.4	0.1	3,007.6	^a 3,007.7	—	^a 3,007.7
1993	—	0.1	5.0	626.7	45.9	4.7	57.1	^a 2,923.5	0.2	^a 3,063.1	^a 3,063.2	—	^a 3,063.2
1994	—	0.1	11.4	706.7	44.4	9.3	60.4	2,476.0	0.2	3,310.4	3,310.6	(s)	3,310.5

* Liquefied petroleum gases.

(s)=Series data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(s)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 310. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Wisconsin

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Biomass	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.39	0.42	0.55	0.87	0.36	0.54	0.15	0.05	0.59
1971	0.43	0.44	0.73	0.89	0.38	0.67	0.15	—	0.40
1972	0.47	0.44	0.67	1.36	0.39	0.70	0.15	—	0.43
1973	0.49	0.47	0.79	1.35	0.37	0.94	0.20	—	0.44
1974	0.73	0.58	1.51	2.04	0.44	1.81	0.22	—	0.69
1975	0.86	0.82	1.85	2.30	0.72	1.93	0.32	—	0.71
1976	0.89	1.19	1.69	2.33	0.88	1.97	0.36	—	0.76
1977	0.97	1.75	2.01	2.64	0.73	2.24	0.32	1.04	0.82
1978	1.14	1.97	2.04	2.65	0.72	2.33	0.34	1.12	0.95
1979	1.27	2.25	2.45	3.51	0.73	2.99	0.34	1.58	1.09
1980	1.42	2.94	4.29	5.59	1.47	5.35	0.47	1.74	1.25
1981	1.85	3.85	5.35	6.49	1.31	6.93	0.53	1.24	1.34
1982	1.72	4.18	—	6.89	1.50	6.46	0.60	1.28	1.50
1983	1.72	4.29	—	5.97	—	5.97	0.63	1.12	1.54
1984	1.72	4.08	—	5.94	1.00	5.39	0.67	1.28	1.46
1985	1.71	4.11	—	5.48	1.39	5.12	0.58	0.79	1.42
1986	1.62	3.74	—	3.60	—	3.60	0.51	0.32	1.33
1987	1.47	3.92	—	3.97	—	3.97	0.48	0.95	1.23
1988	1.46	3.25	—	3.65	—	3.65	0.43	0.87	1.21
1989	1.45	3.10	—	4.10	—	4.10	0.45	0.75	1.21
1990	1.36	2.99	—	3.29	—	3.29	0.49	0.69	1.15
1991	1.36	2.70	—	4.46	—	4.46	0.45	0.73	1.15
1992	1.33	2.40	—	4.84	0.83	3.31	0.40	^a 0.93	1.11
1993	1.21	2.63	—	4.09	0.26	2.26	0.40	^a 0.82	1.02
1994	1.21	2.63	—	3.98	0.61	2.53	0.41	0.82	1.03
Expenditures in Million Nominal Dollars									
1970	80.8	13.1	4.8	8.8	0.5	5.9	0.3	0.1	100.2
1971	94.6	13.1	3.0	0.6	0.5	4.0	0.5	—	117.2
1972	108.9	12.6	3.1	1.1	0.5	4.8	5.3	—	132.7
1973	113.5	14.0	4.3	3.9	0.2	8.4	12.7	—	148.7
1974	151.7	19.3	2.9	6.5	(a)	9.4	20.7	—	201.2
1975	178.3	16.7	5.7	7.7	0.2	13.6	36.8	—	245.3
1976	207.1	14.5	6.3	9.6	0.1	16.0	42.1	—	281.6
1977	236.4	11.3	15.0	10.7	(a)	23.7	37.8	(a)	309.2
1978	272.9	18.5	17.8	19.7	(a)	37.3	43.9	0.2	370.8
1979	325.3	49.3	8.4	15.9	0.2	24.4	38.3	0.5	436.8
1980	384.7	40.8	1.8	18.2	0.1	18.1	54.3	1.1	484.9
1981	423.7	27.3	0.5	13.3	0.3	14.0	56.7	0.7	522.4
1982	494.6	18.8	—	10.2	0.2	10.4	90.8	1.0	584.9
1983	518.6	14.9	—	6.7	—	6.7	84.6	0.7	625.6
1984	540.2	7.9	—	6.3	0.1	6.4	78.4	1.1	633.9
1985	539.4	5.4	—	8.8	0.2	8.2	68.2	0.7	612.9
1986	520.9	6.7	—	5.4	—	5.4	62.2	0.4	595.6
1987	496.4	8.5	—	4.0	—	4.0	58.1	1.3	571.4
1988	508.9	8.9	—	4.9	—	4.9	52.7	1.5	574.9
1989	501.7	6.4	—	4.0	—	4.0	52.1	1.4	565.7
1990	474.8	7.8	—	3.5	—	3.5	57.9	1.2	544.4
1991	491.6	7.4	—	3.8	—	3.8	63.4	1.2	557.3
1992	472.7	8.3	—	2.2	0.2	2.4	47.5	^a 1.4	^a 530.3
1993	437.5	8.2	—	2.9	0.2	3.1	48.5	^a 1.8	^a 499.0
1994	455.5	10.2	—	5.1	0.6	5.7	50.2	2.2	523.8

^a There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
 Re Revised data.
 — No consumption.

(a) = Value less than 0.05 million nominal dollars.
 Note: Expenditure totals may not equal sum of components due to independent rounding.
 Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 311. Energy Price and Expenditure Estimates by Source, 1970-1994, Wyoming

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy ^c	
	Coal			Natural Gas	Petroleum							Nuclear Fuel	Biomass	Total ^e				
	Coking Coal	Steam Coal	Total		Distillate Fuel	Jet Fuel	LPG ^a	Motor Gasoline	Residual Fuel	Other ^b	Total							
Prices in Nominal Dollars per Million Btu																		
1970	—	0.18	0.16	0.26	1.11	0.78	1.84	2.93	0.65	R 0.98	1.73	—	—	0.84	0.14	4.53	1.31	
1971	—	0.19	0.16	0.47	1.13	0.80	1.65	2.87	0.53	R 1.05	1.78	—	—	0.96	0.15	4.68	1.49	
1972	—	0.18	0.19	0.46	1.11	0.79	1.67	2.76	0.67	R 1.09	1.73	—	—	0.84	0.18	4.67	1.32	
1973	—	0.21	0.21	0.45	1.31	0.94	2.15	3.16	0.83	R 1.15	1.97	—	—	0.94	0.20	4.54	1.69	
1974	—	0.29	0.28	0.52	2.37	1.62	2.79	4.30	1.61	R 1.65	2.92	—	—	1.34	0.25	4.72	2.18	
1975	—	0.31	0.31	0.71	2.51	2.12	3.46	4.77	1.71	R 2.28	3.28	—	—	1.61	0.26	4.63	2.43	
1976	—	0.39	0.39	0.86	2.68	2.32	3.83	4.93	1.87	R 2.24	3.38	—	—	1.49	0.30	4.86	2.69	
1977	—	0.47	0.47	1.22	2.84	2.71	3.88	6.28	2.07	R 2.35	3.57	—	—	1.65	0.35	5.25	2.92	
1978	—	0.53	0.53	1.67	3.08	2.92	3.86	5.52	1.86	R 2.41	3.69	—	—	1.76	0.39	5.82	3.20	
1979	—	0.62	0.62	2.37	4.38	4.06	4.97	7.60	2.45	R 3.20	5.06	—	—	2.24	0.48	6.11	4.21	
1980	—	0.79	0.70	2.46	6.44	6.69	5.77	10.29	3.56	R 4.28	7.18	—	—	3.08	0.89	7.48	5.79	
1981	—	0.80	0.80	3.02	7.51	7.67	6.38	11.35	4.37	R 5.30	8.30	—	—	3.15	0.71	9.62	9.68	
1982	—	0.84	0.84	3.97	6.86	7.36	6.65	10.79	4.07	R 5.43	7.89	—	—	2.99	0.80	10.99	8.50	
1983	—	0.98	0.98	4.24	R 6.97	R 7.36	6.69	9.33	4.14	R 6.29	R 7.78	—	—	R 2.90	0.83	12.48	R 6.54	
1984	—	1.05	1.05	4.54	R 6.97	R 7.06	6.28	9.02	4.25	R 6.87	R 7.58	—	—	R 2.72	0.85	12.26	R 6.77	
1985	—	1.08	1.00	4.89	R 6.73	6.53	6.13	8.57	3.14	R 6.52	R 7.43	—	—	R 2.49	0.83	12.84	R 6.78	
1986	—	0.98	0.98	4.01	R 5.68	4.56	7.22	8.72	2.09	R 4.89	R 5.98	—	—	R 2.29	0.83	13.13	R 6.07	
1987	—	0.91	0.91	3.93	R 5.71	4.81	6.35	6.68	1.83	R 5.84	R 6.91	—	—	R 2.07	0.88	12.91	R 6.02	
1988	—	0.88	0.88	3.75	R 5.81	4.82	6.21	6.64	1.85	R 5.22	R 6.99	—	—	2.03	0.85	12.81	4.07	
1989	—	0.80	0.80	3.82	R 6.71	5.06	7.49	7.79	1.89	R 4.06	R 6.96	—	—	R 2.29	0.85	12.88	R 6.47	
1990	—	0.86	0.86	3.87	R 7.36	6.48	8.10	8.86	2.46	R 4.86	R 7.78	—	2.88	R 2.28	0.84	12.37	R 6.48	
1991	—	0.86	0.86	3.48	R 7.02	6.05	9.68	8.40	2.26	R 4.88	R 7.39	—	2.88	R 2.21	0.84	12.53	R 6.20	
1992	—	0.79	0.79	3.17	R 7.08	5.88	7.18	8.73	1.75	R 4.86	R 7.45	—	2.94	R 2.12	0.76	12.86	R 6.91	
1993	—	0.83	0.83	3.70	R 7.00	5.71	R 6.72	8.42	2.06	R 4.62	R 7.26	—	2.91	R 2.28	0.81	12.65	R 6.08	
1994	—	0.83	0.83	3.68	6.84	5.29	7.42	8.65	2.22	4.73	7.31	—	2.84	2.25	0.81	12.67	5.97	
Expenditures in Million Nominal Dollars																		
1970	—	10.3	10.3	26.4	22.7	8.5	10.8	96.8	2.7	R 14.5	182.8	—	—	180.8	-5.8	48.9	228.5	
1971	—	9.3	9.3	25.6	37.7	0.6	12.4	84.4	2.2	R 16.9	184.1	—	—	198.2	-6.7	49.7	240.2	
1972	—	18.1	15.1	38.3	35.6	0.7	15.2	95.1	3.0	R 18.4	186.0	—	—	219.5	-13.3	54.8	260.9	
1973	—	21.8	21.8	29.2	49.2	0.9	19.6	114.2	5.4	R 18.7	202.1	—	—	253.2	-19.9	59.8	292.1	
1974	—	30.7	30.7	32.4	97.8	1.5	18.1	153.4	13.3	R 22.7	306.8	—	—	368.7	-25.0	65.2	409.9	
1975	—	26.8	36.8	38.4	111.2	1.5	21.8	184.4	13.6	R 27.3	359.5	—	—	426.7	-30.3	70.8	473.4	
1976	—	69.5	69.5	42.7	126.4	1.7	23.5	204.0	19.0	R 28.4	403.9	—	—	516.2	-48.4	79.1	540.9	
1977	—	107.7	107.7	68.8	154.0	2.3	24.0	226.4	20.8	R 39.5	470.3	—	—	634.8	-72.3	84.8	657.1	
1978	—	120.4	120.4	77.3	167.3	2.9	25.1	256.2	22.1	R 49.9	543.4	—	—	741.2	-77.7	120.6	784.1	
1979	—	165.7	165.7	98.3	307.6	4.3	33.5	341.1	25.6	R 55.9	769.1	—	—	1,032.1	-112.9	135.7	1,055.0	
1980	—	187.2	187.2	81.6	486.4	6.8	42.7	458.9	34.0	R 69.6	1,067.8	—	—	1,376.3	-144.7	176.1	1,411.7	
1981	—	253.2	253.2	129.3	644.1	10.7	46.6	606.6	40.6	R 68.9	1,215.5	—	—	1,599.0	-205.8	235.5	1,629.0	
1982	—	290.3	290.3	210.0	449.7	6.9	59.6	457.3	27.8	R 58.8	1,072.1	—	—	1,582.4	-245.2	292.9	1,810.2	
1983	—	306.1	306.1	186.6	R 299.2	R 6.4	61.0	395.2	8.5	R 40.7	R 787.9	—	—	R 1,292.6	-263.2	308.1	R 1,338.6	
1984	—	377.5	377.5	198.8	R 300.4	R 6.3	48.2	368.3	2.5	R 68.9	R 811.7	—	—	R 1,386.0	-318.1	395.3	R 1,463.2	
1985	—	486.6	486.6	176.5	R 300.8	8.4	61.1	357.2	1.4	R 83.3	R 799.1	—	—	R 1,382.3	-346.3	427.3	R 1,463.2	
1986	—	328.3	328.3	148.8	R 229.7	3.7	82.6	252.3	1.4	R 60.7	R 603.6	—	—	R 1,090.4	-283.5	433.6	R 1,230.5	
1987	—	399.3	399.3	126.2	R 291.7	6.2	68.6	268.6	0.3	R 53.7	R 673.4	—	—	R 1,187.9	-346.3	440.3	R 1,291.9	
1988	—	390.5	390.5	131.2	R 318.6	5.0	43.6	287.0	1.2	R 47.9	R 683.4	—	—	R 1,208.1	-350.0	465.3	R 1,320.4	
1989	—	374.5	374.6	136.2	R 362.2	4.5	63.7	309.1	(h)	R 42.7	R 662.3	—	—	R 1,312.0	-326.6	486.9	R 1,459.4	
1990	—	395.9	395.9	162.9	R 434.2	8.1	35.8	321.4	(h)	R 44.0	R 690.2	—	3.9	R 1,481.9	-348.9	481.6	R 1,633.7	
1991	—	367.8	367.6	179.9	R 360.5	4.1	40.7	317.9	(h)	R 47.5	R 770.9	—	3.2	R 1,341.5	-340.2	487.8	R 1,469.3	
1992	—	389.9	389.9	230.6	R 381.9	5.0	29.1	340.8	(h)	R 43.7	R 800.6	—	3.3	R 1,424.3	-340.1	487.6	R 1,571.6	
1993	—	386.2	386.2	280.6	R 410.5	4.5	R 41.3	R 334.7	R 0.2	R 42.1	R 838.3	—	3.0	R 1,503.1	-341.4	493.7	R 1,655.3	
1994	—	404.7	404.7	296.7	388.7	4.5	41.6	349.3	0.2	47.0	941.9	—	3.2	1,544.9	-369.9	487.1	1,672.2	

^a Liquefied petroleum gases^b "Other" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke (industrial and used as electric utilities), and the "other petroleum products" category described in Appendix A^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990^e Revised data^f No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A^g Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A

Table 312. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Wyoming

Year	Primary Energy							Electricity	Total Energy ^c	
	Coal	Natural Gas	Petroleum			Nuclear ^b	Total ^c			
			Distillate Fuel	Kerosene	LPG ^a					Total
Prices in Nominal Dollars per Million Btu										
1970	0.68	0.67	1.28	1.70	1.86	1.93	—	8.09	7.82	1.45
1971	0.86	0.69	1.36	1.71	1.93	1.91	—	9.91	7.53	1.46
1972	0.68	0.72	1.36	1.67	2.03	2.01	—	9.98	7.68	1.48
1973	0.92	0.75	1.58	2.11	2.66	2.79	—	1.23	7.30	1.90
1974	0.94	0.86	2.51	3.06	3.33	3.30	—	1.41	7.64	2.34
1975	0.89	1.08	2.84	3.17	4.29	4.18	—	1.83	7.58	2.78
1976	1.41	1.25	2.94	3.25	4.24	4.19	—	1.86	7.42	2.97
1977	1.20	1.69	3.25	3.64	4.40	4.36	—	2.33	8.01	3.40
1978	1.17	2.09	3.26	3.87	4.26	4.23	—	2.50	8.70	3.61
1979	0.74	2.70	4.64	5.40	6.38	6.22	—	2.99	9.67	4.19
1980	0.87	2.66	6.64	—	7.28	7.23	—	3.42	11.68	5.58
1981	1.23	3.31	8.26	9.94	7.50	7.58	—	4.13	12.93	8.77
1982	2.63	4.53	9.14	—	7.63	7.66	—	4.85	15.61	7.06
1983	2.38	4.84	7.38	9.31	7.69	7.59	—	5.46	15.72	7.78
1984	1.97	5.55	7.38	9.28	7.49	7.43	—	5.72	16.06	8.22
1985	2.28	4.82	10.87	12.87	7.51	7.97	—	6.18	16.68	8.12
1986	1.37	4.89	5.72	7.20	6.75	6.69	—	4.93	17.68	8.13
1987	1.44	4.45	3.70	4.89	6.44	6.33	—	4.90	17.90	8.12
1988	0.85	4.25	4.29	5.40	6.20	6.10	—	4.48	17.11	7.94
1989	1.25	4.46	5.43	6.83	10.48	10.06	—	5.14	17.71	8.67
1990	1.52	4.40	4.38	7.88	10.72	10.89	^d 4.75	^d 4.98	17.86	^d 8.14
1991	1.16	4.47	6.05	7.80	11.19	10.19	4.75	^R 5.16	17.55	^R 8.27
1992	1.26	4.46	4.79	6.02	9.10	7.57	4.75	4.79	17.79	^R 8.28
1993	1.27	4.52	6.02	7.59	9.06	7.74	4.75	4.86	17.53	^R 8.03
1994	1.36	4.63	5.85	7.41	8.21	7.75	4.75	4.64	17.79	8.28
Expenditures in Million Nominal Dollars										
1970	0.1	12.3	0.1	6.4	7.4	7.9	—	20.2	18.4	36.7
1971	0.2	13.8	0.1	6.4	8.0	8.5	—	22.4	18.8	39.2
1972	0.2	16.3	0.1	6.5	9.9	10.4	—	27.1	19.3	45.4
1973	0.1	10.6	0.2	0.5	11.6	12.2	—	23.0	19.5	42.5
1974	0.2	10.3	0.3	0.3	11.3	12.0	—	22.4	21.2	43.6
1975	0.3	12.3	0.4	0.2	15.0	15.4	—	28.3	23.8	51.8
1976	0.6	13.9	0.4	(b)	16.5	15.6	—	30.4	24.8	55.3
1977	1.0	17.7	0.8	(b)	15.7	16.3	—	35.0	27.8	62.8
1978	1.7	26.8	0.7	(s)	17.0	17.7	—	46.8	34.8	80.5
1979	1.7	36.2	1.0	0.3	16.0	17.3	—	56.2	40.8	96.0
1980	9.6	27.5	9.9	—	17.1	18.1	—	48.1	58.1	106.2
1981	0.9	31.3	1.2	0.5	19.7	21.4	—	53.5	72.8	125.5
1982	2.4	69.8	1.4	—	22.7	24.1	—	95.9	84.6	179.8
1983	2.1	71.6	13.6	0.2	28.0	41.8	—	115.4	87.4	212.7
1984	2.0	80.7	13.9	0.1	13.9	27.8	—	110.5	86.6	209.2
1985	1.5	74.2	3.8	0.6	13.4	17.8	—	92.8	102.8	195.4
1986	0.8	62.6	0.9	0.1	19.1	20.1	—	63.7	101.1	164.8
1987	0.9	49.9	0.7	0.1	31.2	32.0	—	82.8	99.8	182.6
1988	0.8	52.2	0.8	(b)	20.0	20.8	—	73.8	103.0	176.8
1989	1.0	55.5	1.1	(b)	22.8	23.9	—	80.4	104.0	184.4
1990	1.2	58.4	0.9	0.1	18.9	18.9	^d 2.8	^d 78.7	108.0	^d 181.7
1991	1.3	65.8	3.1	0.1	24.1	27.2	2.1	^R 87.5	108.0	^R 196.5
1992	0.8	51.4	1.6	(b)	14.9	16.5	2.2	^R 71.0	107.0	^R 178.0
1993	1.5	60.4	1.8	0.1	13.1	15.0	2.0	^R 79.0	114.0	^R 193.0
1994	2.1	59.0	2.4	(b)	12.5	14.6	2.0	78.0	113.0	191.0

^a Liquefied petroleum gases^b Commercial sector prices and expenditures for wood and waste are included in the residential sector^c These are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy^d There is a discontinuity in this time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of boilers beginning in 1990^R Revised data

— No consumption

(s) Value less than 0.05 million nominal dollars

Note: Expenditure totals may not equal sum of components due to independent rounding

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 313. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Wyoming

Year	Primary Energy								Electricity	Total Energy ^b	
	Coal	Natural Gas	Petroleum					Total			
			Distillate Fuel	Kerosene	LPG ^a	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu											
1970	0.42	0.43	1.06	0.86	1.22	2.83	0.55	1.22	0.55	5.28	1.19
1971	0.24	0.47	1.09	0.86	1.31	2.97	0.46	1.29	0.56	5.38	1.17
1972	0.45	0.40	1.09	0.84	1.26	2.76	0.74	1.30	0.59	5.64	1.14
1973	0.47	0.52	1.33	1.11	1.39	3.15	0.86	1.53	0.68	5.91	1.36
1974	0.77	0.59	2.27	2.16	2.19	4.30	1.79	2.45	0.86	6.34	1.62
1975	0.99	0.72	2.46	3.42	2.48	4.77	2.95	3.77	1.96	5.46	1.96
1976	1.13	0.82	2.64	2.57	2.64	4.93	2.57	3.03	1.27	5.93	2.11
1977	1.28	1.26	2.91	2.67	3.29	5.28	2.20	3.20	1.65	6.19	2.66
1978	1.44	1.81	2.96	2.94	3.36	5.52	1.87	3.31	2.03	6.86	3.05
1979	1.58	2.55	4.37	3.92	4.05	7.60	2.60	4.96	2.59	7.31	3.58
1980	1.79	2.59	6.47	6.76	5.07	10.28	3.59	4.79	3.86	11.21	5.94
1981	1.79	3.09	7.79	—	5.79	11.35	4.57	6.37	4.06	12.58	7.33
1982	1.32	4.62	7.53	6.51	6.03	10.76	4.69	7.04	4.93	12.72	6.92
1983	1.41	5.07	^a 8.42	7.43	5.89	9.33	4.51	^a 8.55	^a 4.90	14.42	^a 7.56
1984	1.28	5.09	^a 6.29	6.06	5.89	9.02	4.25	^a 6.54	^a 4.87	15.23	^a 8.34
1985	1.28	4.33	^a 6.93	^a 7.79	6.39	8.87	3.14	^a 6.11	^a 4.92	16.38	^a 8.61
1986	1.47	4.43	^a 6.69	^a 4.96	7.62	8.72	2.06	^a 4.36	^a 4.16	16.92	^a 8.42
1987	1.38	4.29	^a 4.13	^a 6.36	6.22	8.68	1.83	^a 4.93	^a 4.14	16.72	^a 8.35
1988	1.24	3.90	^a 3.82	^a 5.99	6.21	8.94	1.69	^a 4.08	^a 3.65	15.64	^a 7.92
1989	1.36	4.10	^a 4.80	^a 6.07	6.47	7.79	1.92	^a 4.36	^a 3.99	15.45	^a 8.29
1990	1.12	4.67	^a 6.78	^a 7.62	6.39	8.86	2.49	^a 6.38	^a 4.04	16.54	^a 8.48
1991	1.14	4.07	^a 6.00	^a 6.65	6.70	8.40	2.26	^a 6.23	^a 3.98	15.50	^a 8.28
1992	1.13	4.03	^a 4.87	^a 6.53	6.43	8.73	—	^a 5.80	^a 4.05	15.26	^a 8.77
1993	1.10	4.01	^a 4.80	^a 6.51	6.23	^a 8.42	—	^a 5.23	^a 3.69	15.02	^a 7.99
1994	1.06	4.21	4.61	6.00	6.27	8.65	2.22	5.29	3.70	14.93	7.97
Expenditures in Million Nominal Dollars											
1970	6.1	6.1	0.2	6.7	6.6	1.3	0.2	3.2	6.4	11.8	21.2
1971	0.1	6.7	0.2	6.8	1.0	1.2	0.1	3.3	10.1	13.0	23.1
1972	0.2	6.8	0.2	6.9	1.1	1.1	0.2	3.2	12.2	14.4	26.6
1973	6.1	7.0	0.3	6.9	1.0	1.3	0.3	3.9	11.0	15.0	26.0
1974	6.3	7.8	0.6	6.9	1.3	1.9	0.7	6.1	13.2	17.5	30.7
1975	6.5	8.9	0.9	6.6	1.6	1.6	1.1	8.9	13.4	14.6	27.9
1976	6.9	7.2	1.0	(a)	1.6	2.5	1.5	6.9	14.9	15.8	30.7
1977	1.9	10.5	1.2	(a)	2.0	2.6	1.5	7.4	19.8	21.3	41.0
1978	3.9	13.4	1.5	(a)	2.4	3.0	1.5	8.4	26.6	29.0	49.6
1979	6.7	19.5	2.4	2.8	1.6	4.0	0.5	9.4	36.5	26.6	62.1
1980	3.1	15.2	^a 16.1	6.8	2.1	8.5	0.8	^a 26.1	44.4	43.6	84.8
1981	2.3	14.8	5.6	—	2.7	6.8	0.1	15.2	32.3	41.6	83.8
1982	2.2	^a 46.7	15.4	0.6	3.2	6.5	5.1	30.7	78.0	66.1	145.7
1983	2.3	^a 40.3	^a 8.3	0.5	3.6	3.2	0.9	^a 16.6	^a 66.4	77.9	^a 146.3
1984	3.6	50.6	^a 6.3	0.3	1.9	2.8	0.5	^a 13.9	^a 68.0	100.6	^a 174.9
1985	2.3	^a 46.4	^a 15.2	6.3	2.6	3.1	1.4	^a 22.6	^a 71.3	121.8	^a 183.1
1986	1.7	37.4	^a 8.4	(a)	3.6	4.3	1.4	^a 17.9	^a 57.0	122.9	^a 179.9
1987	1.6	37.7	^a 6.6	0.1	5.3	2.6	0.3	^a 14.8	^a 54.2	116.8	^a 171.0
1988	2.2	36.8	^a 6.0	0.1	3.5	2.4	1.2	^a 13.3	^a 61.2	120.0	^a 171.2
1989	2.1	37.5	^a 6.6	0.1	2.5	2.6	(a)	^a 11.8	^a 50.9	117.0	^a 167.9
1990	1.8	37.7	^a 7.2	(a)	2.0	3.4	(a)	^a 12.6	^a 82.2	125.8	^a 175.1
1991	2.4	39.2	^a 7.0	0.1	3.1	3.8	(a)	^a 14.1	^a 55.7	129.0	^a 184.7
1992	1.4	^a 34.1	^a 6.9	(a)	2.1	3.6	—	^a 12.0	^a 47.5	130.0	^a 177.4
1993	2.5	^a 43.4	^a 6.1	(a)	1.6	2.3	—	^a 8.2	^a 54.2	134.0	^a 186.2
1994	3.0	41.1	6.2	(a)	2.2	0.3	(a)	6.6	53.0	131.0	184.0

^a Lighted petroleum gases.^b There are no direct fuel costs for photovoltaic and solar thermal energy sources. Commercial sector prices and expenditures for wood and waste are included in the residential sector.^c Revised data.

—No consumption.

(a)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 314. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Wyoming

Year	Primary Energy															Electricity	Total Energy ^c
	Coal			Natural Gas	Petroleum									Biomass ^d	Total ^e		
	Coking Coal	Steam Coal	Total		Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG ^a	Lubricants	Motor Gasoline	Residual Fuel	Other ^b	Total				
Prices in Nominal Dollars per Million Btu																	
1970	—	0.42	0.42	0.24	0.58	0.98	0.85	1.22	5.08	2.83	0.85	0.81	0.95	—	0.54	3.23	0.75
1971	—	0.24	0.24	0.27	0.81	0.79	0.85	1.31	5.27	2.97	0.61	0.61	1.02	—	0.71	3.21	0.97
1972	—	0.45	0.45	0.29	0.82	0.78	0.84	1.29	5.59	2.76	0.61	0.59	1.01	—	0.69	3.28	0.79
1973	—	0.47	0.47	0.31	0.85	1.03	1.11	1.39	5.33	3.15	0.76	0.69	1.12	—	0.69	3.26	0.81
1974	—	0.77	0.77	0.37	1.71	2.06	2.18	2.19	7.82	4.30	1.54	0.83	1.98	—	1.13	3.41	1.33
1975	—	0.90	0.90	0.88	1.88	2.38	2.42	2.48	7.48	4.77	1.65	1.38	2.27	—	1.46	3.44	1.86
1976	—	1.13	1.13	0.73	1.85	2.42	2.57	2.84	7.05	4.83	1.83	1.52	2.35	—	1.62	3.76	1.62
1977	—	1.26	1.26	1.01	1.76	2.53	2.87	3.20	6.97	6.26	2.05	1.79	2.62	—	1.83	4.10	2.04
1978	—	1.44	1.44	1.40	1.94	2.75	2.94	3.35	7.60	5.52	1.84	1.58	2.48	—	1.98	4.63	2.27
1979	—	1.68	1.68	2.05	2.45	3.81	3.82	4.00	10.21	7.60	2.42	1.88	3.42	—	2.70	4.85	2.93
1980	—	1.72	1.72	2.32	3.66	6.44	5.76	5.87	14.36	10.28	3.85	2.63	4.91	—	3.82	6.12	3.78
1981	—	1.78	1.78	2.90	4.45	6.57	6.92	5.75	18.00	11.35	4.37	3.08	6.96	—	4.14	7.27	4.48
1982	—	1.92	1.92	3.41	4.21	6.95	6.51	5.99	17.25	10.76	3.96	2.26	5.85	—	4.02	9.34	4.87
1983	—	1.41	1.41	3.47	4.22	R 6.48	7.43	5.88	16.98	9.33	4.08	2.18	R 6.17	—	R 3.74	10.15	R 4.62
1984	—	1.88	1.88	3.47	4.57	R 6.57	8.08	5.89	17.63	9.02	4.25	2.37	R 6.89	—	R 3.90	9.94	R 5.00
1985	—	1.89	1.89	3.38	4.82	R 6.33	R 7.79	6.38	17.61	8.87	3.14	2.37	R 6.12	—	R 3.98	10.15	R 5.14
1986	—	1.47	1.47	3.17	4.36	R 4.03	R 4.95	7.52	16.59	8.72	2.08	1.83	R 4.68	—	R 3.15	10.68	R 4.64
1987	—	1.35	1.35	3.20	3.21	R 4.34	R 5.35	6.22	12.70	8.88	1.83	1.60	R 4.28	—	R 2.80	10.68	R 4.57
1988	—	1.34	1.34	3.19	3.40	R 4.14	R 5.09	6.21	14.61	8.84	1.65	1.45	R 4.26	—	2.83	10.67	4.70
1989	—	1.35	1.35	3.06	3.88	R 4.93	R 6.07	6.47	14.48	7.79	1.62	1.74	R 4.86	—	R 3.04	10.49	R 4.75
1990	—	1.12	1.12	2.84	3.71	R 5.18	R 6.34	6.34	14.80	8.65	2.48	2.02	R 4.24	d 1.69	d 2.88	10.16	d 4.37
1991	—	1.14	1.14	2.85	3.43	R 5.40	R 6.65	8.10	16.79	8.40	2.28	1.72	R 5.21	1.61	R 2.91	10.24	R 4.26
1992	—	1.13	1.13	2.75	3.07	R 5.30	R 6.53	6.43	19.43	8.73	1.75	1.29	R 5.08	1.61	R 2.88	10.32	R 3.91
1993	—	1.10	1.10	3.43	2.93	R 5.37	R 6.61	6.23	18.94	R 8.42	2.05	1.08	R 5.02	1.63	R 3.06	10.27	R 4.24
1994	—	1.05	1.05	3.32	3.02	5.27	6.48	7.03	19.18	8.85	2.22	1.14	5.12	1.62	3.08	10.29	4.14
Expenditures in Million Nominal Dollars																	
1970	—	1.7	1.7	3.5	4.2	8.9	0.9	2.1	8.9	8.5	0.9	2.1	28.5	—	38.7	18.6	69.2
1971	—	0.9	0.9	5.0	6.7	9.4	0.9	2.8	0.1	9.6	1.3	2.3	33.2	—	38.0	19.9	69.9
1972	—	1.9	1.9	13.0	5.8	9.2	0.8	3.5	0.1	9.5	1.5	2.3	32.8	—	47.7	22.1	69.8
1973	—	2.3	2.3	11.5	5.6	15.4	1.0	3.6	0.1	9.3	3.3	2.5	40.6	—	54.5	24.2	78.7
1974	—	7.0	7.0	13.7	7.4	32.8	1.8	4.5	0.2	19.5	8.9	3.9	73.1	—	93.8	26.6	120.3
1975	—	10.6	19.6	18.7	7.2	47.3	1.6	4.9	2.1	14.5	11.1	5.9	95.0	—	122.4	32.8	154.8
1976	—	22.6	22.6	20.8	8.4	68.0	1.1	4.8	2.2	15.6	16.0	7.5	111.6	—	154.8	39.4	193.3
1977	—	35.3	35.3	27.2	18.1	88.5	1.2	5.0	2.4	21.2	17.4	9.4	140.3	—	202.9	45.6	248.5
1978	—	40.9	40.9	36.9	21.2	81.8	0.4	6.5	2.8	10.7	18.5	8.6	180.8	—	227.4	63.0	290.4
1979	—	48.4	48.4	41.3	17.0	138.9	1.1	14.8	4.0	14.3	22.8	13.1	225.7	—	313.4	68.4	381.9
1980	—	48.6	48.6	58.0	28.2	188.8	1.3	22.8	8.9	19.7	23.4	16.4	214.0	—	413.6	75.8	489.1
1981	—	53.3	53.3	51.9	28.9	226.2	2.4	21.8	6.0	18.0	40.3	8.8	350.4	—	485.6	109.0	587.5
1982	—	35.9	35.9	93.8	25.3	191.3	4.6	31.1	5.2	24.9	22.5	5.9	310.7	—	440.5	142.9	582.6
1983	—	42.1	42.1	77.2	11.1	R 118.3	1.9	26.8	5.4	21.5	4.5	4.5	R 193.1	—	R 312.4	133.8	R 446.2
1984	—	58.9	58.9	85.1	37.1	R 122.4	1.3	28.1	6.0	8.2	2.0	5.5	R 210.5	—	R 334.4	199.8	R 524.2
1985	—	52.2	52.2	88.3	83.8	R 181.3	8.3	33.5	5.5	24.7	(8)	5.8	R 224.8	—	R 342.9	202.7	R 545.6
1986	—	45.6	45.6	47.8	46.5	R 57.6	0.2	28.5	4.8	17.7	(8)	3.9	R 158.6	—	R 252.0	209.8	R 461.6
1987	—	44.6	44.6	37.3	31.3	R 87.1	0.2	22.3	4.4	16.9	(8)	4.9	R 145.6	—	R 227.4	232.7	R 460.1
1988	—	41.0	41.0	42.5	23.9	R 59.5	0.1	18.9	4.9	16.8	(8)	4.1	R 121.8	—	R 205.3	242.3	R 447.6
1989	—	48.1	48.1	42.4	17.8	R 85.9	0.1	37.9	5.0	19.7	(8)	5.0	R 150.9	—	R 259.3	245.9	R 485.2
1990	—	48.3	48.3	69.3	17.1	R 81.8	0.1	14.8	5.2	18.9	(8)	6.1	R 143.3	d 1.9	d 259.8	255.6	d 515.4
1991	—	47.7	47.7	33.6	23.1	R 89.8	0.1	12.1	5.4	22.1	(8)	3.8	R 150.1	1.0	R 262.5	249.8	R 532.1
1992	—	50.6	50.6	144.7	15.7	R 89.9	0.2	11.5	6.3	22.5	(8)	3.8	R 143.9	1.0	R 340.3	250.6	R 590.9
1993	—	43.9	43.9	176.4	14.7	R 95.6	0.7	R 25.7	6.3	R 17.1	R 0.2	R 3.1	R 153.3	1.0	R 374.6	245.6	R 620.2
1994	—	42.7	42.7	154.8	18.1	84.9	0.8	25.8	6.6	18.9	0.2	2.7	158.9	1.2	396.7	243.2	639.9

^a Liquefied petroleum gases^b "Other" is the "other petroleum products" category described in Appendix A.^c There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.^d There is a discontinuity in the time series between 1989 and 1990 due to the expanded coverage of non-electric utility use of biomass beginning in 1990.

R=Revised data

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(s)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 315. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1994, Wyoming

Year	Primary Energy										Electricity	Total Energy	
	Coal	Natural Gas	Petroleum							Total			
			Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG *	Lubricants	Motor Gasoline	Residual Fuel				
Prices in Nominal Dollars per Million Btu													
1970	0.82	—	2.17	1.31	0.78	1.22	5.08	2.83	0.54	2.19	2.19	—	2.19
1971	0.24	—	2.21	1.32	0.80	1.31	5.27	2.97	0.45	2.21	2.21	—	2.21
1972	0.45	—	2.19	1.31	0.79	1.26	5.58	2.76	0.74	2.15	2.15	—	2.15
1973	0.47	—	2.36	1.51	0.84	1.39	5.33	3.15	0.67	2.46	2.46	—	2.46
1974	0.77	—	3.23	2.56	1.62	2.19	7.22	4.90	1.78	3.49	3.49	—	3.49
1975	0.90	—	3.45	2.78	2.12	2.48	7.48	4.77	—	3.95	3.95	—	3.95
1976	1.13	—	3.59	2.89	2.32	2.84	7.05	4.93	2.09	4.12	4.12	—	4.12
1977	1.26	—	3.97	3.14	2.71	3.20	5.97	5.28	2.16	4.40	4.40	—	4.40
1978	—	—	4.29	3.36	2.92	3.36	7.80	5.52	1.98	4.63	4.63	—	4.63
1979	—	—	5.75	5.00	4.08	4.00	10.21	7.80	2.73	6.45	6.45	—	6.45
1980	—	—	9.02	7.38	6.59	5.97	14.39	10.26	—	8.94	8.94	—	8.94
1981	—	—	10.64	8.40	7.67	5.76	16.00	11.35	4.64	10.02	10.02	—	10.02
1982	—	—	10.92	8.05	7.39	6.03	17.25	10.78	4.50	9.65	9.65	—	9.65
1983	—	—	10.44	7.21	7.36	5.88	18.96	9.33	—	8.68	8.68	—	8.68
1984	—	—	10.27	7.36	7.05	5.86	17.63	9.02	—	8.56	8.56	—	8.56
1985	—	—	9.98	7.05	6.83	5.38	17.81	8.87	4.81	8.26	8.26	—	8.26
1986	—	—	8.41	6.77	4.56	7.52	15.69	6.72	—	6.84	6.84	—	6.84
1987	—	—	7.50	6.46	4.61	6.22	12.70	6.65	—	6.73	6.73	—	6.73
1988	—	—	7.41	6.46	4.62	6.21	14.61	6.64	—	6.72	6.72	—	6.72
1989	—	—	8.26	7.41	5.05	6.47	14.48	7.79	2.73	7.64	7.64	—	7.64
1990	—	—	8.33	8.38	6.45	6.34	14.68	8.85	—	8.85	8.85	—	8.85
1991	—	5.34	8.71	7.02	6.05	8.10	15.78	8.40	—	8.25	8.25	—	8.25
1992	—	5.43	8.54	7.97	6.43	8.43	19.43	8.73	—	8.45	8.45	—	8.45
1993	—	5.36	8.24	7.74	5.71	6.23	19.94	8.42	—	8.16	8.16	—	8.16
1994	—	4.37	7.96	7.59	5.29	7.66	19.18	8.65	—	8.20	8.20	—	8.20
Expenditure in Million Nominal Dollars													
1970	(a)	—	2.8	23.4	8.5	0.4	2.8	81.0	1.8	112.3	112.4	—	112.4
1971	(a)	—	2.8	25.0	0.6	0.6	2.9	83.4	0.7	119.0	119.0	—	119.0
1972	(a)	—	2.8	26.0	0.7	0.7	3.3	84.5	1.1	119.2	119.2	—	119.2
1973	(a)	—	3.1	32.3	0.9	0.7	3.1	103.6	1.2	144.8	144.8	—	144.8
1974	(a)	—	4.0	83.9	1.5	1.0	4.0	138.4	2.5	215.3	215.3	—	215.3
1975	(a)	—	3.8	82.4	1.5	1.1	4.9	187.2	—	241.4	241.4	—	241.4
1976	(a)	—	4.0	86.9	1.7	1.4	5.1	155.5	0.7	267.7	267.7	—	267.7
1977	(a)	—	5.0	83.6	2.3	1.6	6.4	205.5	0.6	304.9	304.9	—	304.9
1978	—	—	6.4	103.0	2.8	2.3	7.4	242.5	(a)	364.5	364.5	—	364.5
1979	—	—	9.2	167.1	4.3	1.0	10.5	329.8	0.1	515.1	515.1	—	515.1
1980	—	—	4.8	278.4	6.0	1.4	13.1	433.7	—	735.4	735.4	—	735.4
1981	—	—	4.6	304.5	10.7	2.5	15.9	483.8	0.1	822.0	822.0	—	822.0
1982	—	—	3.3	236.8	8.8	2.8	13.8	436.0	0.2	701.8	701.8	—	701.8
1983	—	—	2.9	148.0	8.4	3.4	14.2	580.8	—	633.3	633.3	—	633.3
1984	—	—	3.0	151.4	8.3	1.9	15.7	977.2	—	654.9	654.9	—	654.9
1985	—	—	2.6	176.1	8.8	1.4	14.8	329.4	(a)	528.6	528.6	—	528.6
1986	—	—	2.1	154.0	3.7	1.4	12.7	230.3	—	404.2	404.2	—	404.2
1987	—	—	1.9	214.5	5.2	1.1	11.7	243.7	—	478.1	478.1	—	478.1
1988	—	—	2.0	255.6	5.0	1.2	12.9	249.0	—	524.7	524.7	—	524.7
1989	—	—	1.6	305.9	4.5	0.6	13.2	266.6	(a)	612.9	612.9	—	612.9
1990	—	—	1.7	341.2	5.1	0.6	13.7	299.1	—	661.4	661.4	—	661.4
1991	—	(a)	1.2	263.2	4.1	1.4	14.1	292.0	—	579.0	579.0	—	579.0
1992	—	0.1	1.1	267.3	5.0	0.6	16.6	314.6	—	625.4	625.4	—	625.4
1993	—	0.1	0.8	314.2	4.5	0.6	16.5	317.3	—	653.9	653.9	—	653.9
1994	—	0.1	1.3	303.0	4.5	1.0	17.4	330.0	—	657.3	657.4	—	657.4

* Liquefied petroleum gases.

Revised data.

—No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of Appendix A.

(a)=Value less than 0.05 million nominal dollars.

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

Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 316. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1994, Wyoming

Year	Coal	Natural Gas	Petroleum				Nuclear Fuel	Geothermal	Total Energy ^a
			Heavy Oil	Light Oil	Petroleum Coke	Total			
Prices in Nominal Dollars per Million Btu									
1970	0.14	0.22	0.58	0.70	—	0.67	—	—	0.94
1971	0.15	0.28	0.48	0.61	—	0.53	—	—	0.85
1972	0.17	0.38	0.79	1.05	—	0.85	—	—	0.96
1973	0.20	0.40	0.97	1.07	—	0.99	—	—	0.90
1974	0.23	1.11	1.79	2.34	—	1.80	—	—	0.23
1975	0.25	0.84	1.88	2.44	—	2.01	—	—	0.36
1976	0.29	2.29	2.11	2.50	—	2.13	—	—	0.30
1977	0.35	2.08	2.18	3.40	—	2.20	—	—	0.36
1978	0.38	2.51	2.02	3.54	—	2.14	—	—	0.39
1979	0.47	3.21	2.74	4.57	—	2.81	—	—	0.48
1980	0.57	4.61	—	6.88	—	5.89	—	—	0.88
1981	0.69	4.59	—	7.60	—	7.40	—	—	0.71
1982	0.79	6.16	—	7.22	—	7.22	—	—	0.80
1983	0.92	4.79	—	6.27	—	6.27	—	—	0.83
1984	0.08	5.11	—	6.37	—	6.37	—	—	0.98
1985	0.92	4.33	—	6.88	—	6.88	—	—	0.89
1986	0.82	3.80	—	5.87	—	5.87	—	—	0.93
1987	0.87	3.26	—	4.10	—	4.10	—	—	0.88
1988	0.84	3.68	—	3.80	—	3.80	—	—	0.85
1989	0.85	3.49	—	4.15	—	4.15	—	—	0.85
1990	0.84	3.15	—	5.27	—	6.27	—	—	0.84
1991	0.83	3.34	—	4.94	—	4.94	—	—	0.84
1992	0.76	3.20	—	4.79	—	4.79	—	—	0.76
1993	0.80	3.30	—	4.73	—	4.73	—	—	0.81
1994	0.80	5.67	—	4.45	—	4.45	—	—	0.81
Expenditures in Million Nominal Dollars									
1970	8.3	0.9	(0)	0.1	—	0.1	—	—	8.3
1971	8.3	0.3	0.1	0.1	—	0.2	—	—	8.7
1972	12.8	0.2	0.2	0.1	—	0.2	—	—	13.3
1973	19.2	0.1	0.8	(0)	—	0.6	—	—	19.9
1974	23.3	0.6	1.2	(0)	—	1.2	—	—	25.0
1975	28.4	0.4	1.4	0.1	—	1.5	—	—	28.3
1976	45.4	1.1	1.7	0.1	—	1.8	—	—	48.1
1977	89.5	1.3	1.3	0.1	—	1.4	—	—	72.3
1978	73.9	1.5	2.0	0.3	—	2.3	—	—	77.7
1979	108.0	1.3	2.4	0.2	—	2.6	—	—	112.3
1980	134.9	0.8	—	5.8	—	5.8	—	—	140.7
1981	198.7	0.4	—	6.5	—	6.5	—	—	205.6
1982	236.8	0.6	—	4.8	—	4.8	—	—	245.2
1983	258.8	0.7	—	3.0	—	3.0	—	—	263.2
1984	313.1	0.5	—	4.5	—	4.5	—	—	318.1
1985	348.7	0.5	—	5.8	—	5.8	—	—	354.3
1986	280.2	0.5	—	2.8	—	2.8	—	—	283.5
1987	342.2	0.3	—	2.8	—	2.8	—	—	345.3
1988	348.6	0.7	—	2.7	—	2.7	—	—	350.0
1989	325.4	0.3	—	2.9	—	2.9	—	—	328.6
1990	348.6	0.2	—	3.0	—	3.0	—	—	349.8
1991	336.4	0.3	—	3.5	—	3.5	—	—	340.2
1992	337.0	0.3	—	2.8	—	2.8	—	—	340.1
1993	338.2	0.3	—	2.9	—	2.9	—	—	341.4
1994	356.9	0.7	—	2.2	—	2.2	—	—	359.9

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

—No consumption.

(0)=Value less than 0.05 million nominal dollars.

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

Source: Data sources, estimation procedures, and assumptions are described in Appendix A.

Energy Price and Expenditure Estimates by Sector and Source, Each State and the United States

Year	Coal ^a Thousand Short Tons	Natural Gas ^b Billion Cubic Feet	Petroleum											Nuclear Electric Power	Hydroelectric Power ^c	Districts ^d	Other ^e	Net Interstate Flow of Electricity Losses ^f	Total ^g
			Asphalt and Road Oil ^h	Aviation Gasoline ⁱ	Distillate Fuel ^j	Jet Fuel ^k	Kerosene ^l	LPG ^m	Lubricants ⁿ	Motor Gasoline ^o	Residual Fuel ^p	Other ^q	Total						
			Thousand Barrels																
1960	14	218	1,003	177	2,821	2,257	986	4,823	643	14,875	699	1,961	26,964	0	862	0	0	2,288	-
1961	4	207	1,285	482	2,828	2,684	266	5,695	468	17,822	483	2,836	34,382	0	1,080	0	0	7,475	-
1962	0	382	1,194	285	2,462	2,284	821	10,198	631	22,487	855	2,832	47,627	0	2,180	0	0	6,464	-
1963	2	234	2,381	287	2,404	2,282	804	10,777	525	22,752	2,957	3,602	52,552	0	1,804	0	0	12,720	-
1964	2	318	2,410	314	2,967	2,181	634	12,028	541	25,732	5,843	3,129	60,471	0	1,544	0	0	13,305	-
1965	87	328	2,600	283	2,802	2,012	1,085	10,790	583	26,924	9,560	3,358	67,120	0	4,252	0	0	18,730	-
1966	115	298	2,441	285	10,310	2,031	751	8,805	580	27,005	10,532	3,218	67,058	361	4,271	0	0	19,692	-
1967	46	268	2,299	264	8,646	1,868	888	8,487	518	27,511	9,886	3,224	64,784	4,874	3,433	0	0	18,678	-
1968	187	248	2,452	244	10,147	1,966	831	8,716	884	28,095	13,282	3,385	71,503	3,859	2,022	0	0	30,882	-
1969	348	238	2,602	288	11,760	2,028	833	8,935	700	28,778	17,843	4,014	78,885	5,086	1,701	0	0	28,203	-
1970	1,273	221	2,656	272	12,288	1,920	1,188	8,759	751	30,815	17,218	3,882	77,689	5,220	2,421	0	0	26,382	-
1971	1,786	251	2,308	252	14,658	1,821	488	5,940	788	24,833	11,652	4,133	66,771	3,672	3,378	0	0	31,178	-
1972	2,878	274	2,778	272	18,646	2,626	871	4,847	788	26,488	4,881	4,159	87,918	7,833	1,808	0	0	28,184	-
1973	5,314	285	2,110	248	13,103	1,747	266	3,783	671	28,208	2,611	4,180	55,075	9,075	1,226	0	0	225	-
1974	7,254	227	1,815	183	13,111	2,811	609	4,082	812	25,848	1,748	3,387	63,845	7,482	2,106	0	0	188	-
1975	18,885	287	1,832	200	13,194	1,804	2,873	4,108	841	25,683	793	2,811	83,988	7,646	3,315	0	0	15,421	-
1976	8,435	210	787	113	13,680	2,816	2,887	3,172	864	27,334	480	3,284	64,888	10,806	2,723	0	0	13,872	-
1977	12,882	188	1,263	88	14,911	2,880	196	3,873	837	26,748	736	2,448	83,888	8,888	4,494	0	0	-30,898	-
1978	12,849	198	982	111	12,270	1,918	83	3,833	623	27,951	826	1,588	81,182	8,878	2,813	0	0	58,485	-
1979	12,886	178	1,018													0	0	33,346	-
1980	12,585	217	1,373													0	0	23,587	-
1981	11,547	288	778													0	0	18,472	-
1982	11,488	283	486													NA	NA	28,628	-
1983	12,281	208	593													NA	NA	20,270	-
1984	12,538	225	1,174													NA	NA	27,338	-
1985	11,447	231	1,483													NA	NA	20,482	-
1986	12,486	244	1,088													NA	NA	23,687	-

State Energy Data Available Electronically

This report and the data published in Tables 5 through 316 of this report are available electronically. See inside the back cover.

1988	6.4	232.2	6.7													0.0	0.0	7.5	289.2
1985	6.3	277.7	6.6													0.0	0.0	25.5	496.8
1976	6.9	363.5	14.8													0.0	0.0	22.1	674.8
1971	0.1	335.0	15.6													0.0	0.0	43.4	670.0
1972	0.1	317.6	16.0													0.0	0.0	82.5	713.4
1973	2.3	327.5	17.3													0.0	0.0	57.1	789.8
1974	2.7	350.1	16.2													0.0	0.0	87.2	769.7
1975	6.5	237.4	18.3													0.0	0.0	81.7	756.1
1976	3.5	268.2	15.3													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	220.5	17.8													0.0	0.0	50.1	885.2
1979	31.7	255.9	21.3													0.0	0.0	106.4	840.8
1980	36.8	274.6	16.4													0.0	0.0	88.1	822.2
1981	101.9	255.1	14.0													0.0	0.0	0.8	780.1
1982	125.2	227.4	12.7													0.0	0.0	0.6	747.2
1983	177.5	211.7	12.2													0.0	0.0	52.8	745.8
1984	169.0	214.4	5.0													0.0	0.0	47.7	771.3
1985	218.6	198.3	8.4													0.0	0.0	-184.7	751.2
1986	284.5	203.9	6.5													0.0	0.0	114.1	8713.0
1987	211.0	172.3	6.8													0.0	0.0	113.8	8692.4
1988	218.8	218.8	9.1													0.0	0.0	80.5	8771.0
1989	292.7	251.1	5.2													0.0	0.0	56.4	8800.2
1990	212.7	236.5	3.2													0.0	0.0	-181.8	8846.2
1991	219.1	212.7	3.5													0.0	0.0	103.3	8836.9
1992	229.7	229.8	7.8													0.0	0.0	83.3	885.1
1993	208.4	234.4	9.6													0.0	0.0	69.8	8253.7
1994	221.9	249.8	7.1													0.0	0.0	80.8	958.5

State Energy Data Available Electronically

This report and the data published in Tables 5 through 316 of this report are available electronically. See inside the back cover.

1986	6.4	232.2	6.7	1.4	32.0	12.4	3.4	80.7	3.7	124.8	18.4	20.8	272.0	0.0	18.9	0.0	0.0	7.5	398.2
1985	6.3	277.7	6.6	1.6	48.4	11.8	3.9	45.2	3.3	138.2	35.6	16.3	310.1	0.0	17.1	0.0	0.0	25.5	486.8
1984	6.9	343.5	14.8	1.5	67.8	10.9	4.0	40.4	3.6	141.4	60.3	19.6	388.6	0.0	44.2	0.0	0.0	22.1	674.8
1983	0.1	335.0	15.6	1.5	60.1	10.0	4.3	36.9	3.4	141.9	66.2	18.7	380.1	4.0	44.6	0.0	0.0	43.4	670.0
1982	0.1	317.6	16.0	1.5	52.7	10.8	3.8	35.2	3.7	148.9	87.1	18.8	388.7	83.7	38.7	0.0	0.0	82.5	713.4
1981	2.3	327.5	17.3	1.5	58.1	10.3	3.6	38.1	4.2	152.8	83.4	19.5	385.5	42.6	21.0	0.0	0.0	81.7	756.1
1980	2.7	280.1	16.2	1.2	68.7	11.0	6.3	30.2	4.2	156.4	112.2	23.4	432.3	54.8	18.7	0.0	0.0	105.3	807.1
1979	6.8	257.4	15.1	1.4	71.6	10.4	8.8	24.8	4.8	160.8	108.2	23.2	428.3	57.1	25.1	0.0	0.0	99.6	845.0
1978	3.6	248.2	16.3	1.3	84.6	10.4	2.8	18.5	4.8	130.4	72.6	23.7	370.8	42.1	34.9	0.0	0.0	90.1	865.2
1977	8.2	234.4	16.6	1.4	62.2	11.8	3.2	17.8	4.3	138.1	31.3	23.6	312.5	38.4	17.8	0.0	0.0	106.4	880.8
1976	22.8	220.3	17.8	1.3	78.3	9.5	2.0	13.7	4.1	138.2	18.4	23.9	280.3	100.1	12.9	0.0	0.0	88.1	822.2
1975	31.7	255.9	21.3	1.0	78.4	10.8	2.3	14.8	3.7	138.3	11.0	19.5	288.1	82.8	22.0	0.0	0.0	76.1	780.1
1974	36.8	274.4	18.4	0.8	81.1	10.8	15.4	11.4	4.1	143.8	3.0	16.7	285.0	117.2	28.4	0.0	0.0	6.6	747.2
1973	101.9	285.1	14.0	0.4	88.9	11.8	3.3	13.2	3.9	140.4	4.6	13.8	283.5	108.9	48.3	0.0	0.0	52.8	745.8
1972	125.2	227.4	12.7	0.8	77.3	10.4	0.3	13.8	3.8	148.8	5.8	8.2	274.3	95.9	29.4	0.0	0.0	47.7	771.3
1971	177.5	211.7	12.2	0.5	78.6	8.7	18.3	14.8	3.8	138.5	4.8	16.3	291.0	83.4	34.9	0.0	0.0	-184.7	751.2
1970	163.9	214.4	5.0	0.8	88.9	11.8	3.3	13.2	3.9	140.4	4.6	13.8	283.5	108.9	48.3	0.0	0.0	114.1	713.0
1969	218.5	198.3	8.4	0.5	77.3	10.4	0.3	13.8	3.8	148.8	5.8	8.2	274.3	95.9	29.4	0.0	0.0	113.8	692.4
1968	254.5	203.9	6.5	0.5	82.6	12.2	0.3	13.0	4.1	155.4	2.2	10.2	269.6	95.9	28.8	0.0	0.0	80.5	771.0
1967	211.0	172.3	6.8	0.5	84.6	10.8	0.3	13.9	4.2	154.4	2.3	10.1	268.1	94.8	31.8	0.0	0.0	66.4	600.2
1966	218.8	218.8	9.1	0.6	83.1	9.2	0.2	12.6	4.3	151.4	1.9	10.7	276.9	120.5	38.2	0.0	0.0	-181.8	648.2
1965	202.7	251.1	5.2	0.7	78.5	9.7	0.2	12.0	3.9	152.3	0.8	9.5	271.3	136.0	36.8	0.0	0.0	103.3	638.9
1964	212.7	234.5	3.3	0.8	88.4	8.2	0.1	10.9	4.0	154.5	0.2	10.8	284.6	120.8	34.8	0.0	0.0	93.3	685.1
1963	218.1	212.7	3.5	0.7	81.2	6.7	0.2	12.5	4.0	160.0	1.4	10.4	295.8	144.4	48.4	0.0	0.0	69.8	623.7
1962	228.7	228.8	7.8	0.8	100.0	9.1	0.2	12.3	4.2	162.2	2.9	10.9	308.8	148.8	35.6	0.0	0.0	80.8	658.5

^a The consistency of these data 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 gasplant fuels.

^c "Other" is the subtotal of 15 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

^d If applicable, through 1985, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

^e Districts classified into motor gasoline is accounted for in the motor gasoline and total petroleum sums. It is also included in the brackets series to give complete include 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 the 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.

(0)-(0.5) value less than 0.05, and physical unit value less than 0.5.

Note: Totals may 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. Overview

This appendix documents data sources and procedures used to develop the estimates in the State Energy Price and Expenditure Data System (SEPEDS) that are presented in the "Statistical Tables" of this report. Information is provided for each of the four major energy sources: coal, natural gas, petroleum, and electricity. The last section describes adjustments for consumption of industrial process fuel and intermediate products and other uncosted energy sources.

Price Estimation Methodologies

Price data in the *State Energy Price and Expenditure Report* are expressed in dollars per million Btu. If the source data are in physical units, they are divided by the appropriate conversion factors to create the Btu prices. Estimated prices are used only when specific State-level prices are not available for a given energy source and sector. In some cases, prices for energy consumed in one sector in a State are assigned to another sector in the same State. Specific examples are: industrial steam coal prices are assigned to the commercial and transportation sectors' steam coal use; industrial kerosene prices are assigned to commercial kerosene uses; industrial liquefied petroleum gases (LPG) prices are assigned to LPG used by the commercial and transportation sectors; industrial lubricants prices are assigned to transportation lubricants uses; and transportation motor gasoline prices are assigned to commercial and industrial use of motor gasoline.

In addition, there are a few cases where State-level prices could not be identified for any economic sector for a given energy source for some or all years. In these instances, a national-level price is used for all States for a given year. The procedures for estimating these national-level prices are presented in the body of the documentation under each energy source as appropriate. The cases where a national-level price is assigned to all States in all years are: transportation use of aviation gasoline; industrial and transportation use of lubricants; and some components of other petroleum products used in the industrial sector.

Finally, within a given energy source and sector where price data are usually available, there are some cases of missing prices. Two general approaches are used to assign or estimate prices in cases where consumption occurs but no price is directly available from the data sources. The first approach is to assign an adjacent State price or the simple average of adjacent States' prices. When this approach is not feasible, the consumption-weighted price from the Census division or region or the Petroleum Administration for Defense district or subdistrict in which the State is located is assigned.

Three State groupings used in the report—U.S. Census regions and divisions, Federal regions, and Petroleum Administration for Defense districts—are shown in Figures A1, A2, and A3, respectively, on the following pages. Throughout the documentation, the term "State" includes

Note: Throughout this report, the term "State" includes the District of Columbia.

the District of Columbia. States are often designated by the two-letter postal code abbreviations shown in the map legends.

Expenditures

Energy consumption estimates used to calculate expenditures in SEPEDS are taken from the Energy Information Administration (EIA) *State Energy Data Report 1994, Consumption Estimates*, DOE/EIA-0214(94), published in October 1996. The data system from which the consumption report is developed is called the State Energy Data System (SEDS). Full documentation of SEDS data sources and the methods used to estimate energy consumption are described in the consumption report.

To calculate energy expenditures, SEDS consumption is adjusted to remove quantities of process fuel and intermediate products used in the industrial and transportation sectors that are not purchased directly by end users. Residential/commercial use of solar energy and industrial use of hydroelectric, geothermal, wind, and solar energy sources are also removed from SEPEDS expenditure calculations since there are no direct fuel costs for those energy sources. SEDS consumption of wood in the residential and commercial sectors and biofuels consumption in the industrial sector are adjusted to remove estimated quantities that were obtained at no cost. Energy expenditures, in million dollars, are calculated by multiplying SEPEDS prices for each fuel in dollars per million Btu times the SEDS adjusted consumption in billion Btu.

End-Use Sector, State, and National Consumption-Weighted Average Prices

Aggregated prices shown in this report are the consumption-weighted averages of the various energy sources included in the aggregation. The SEPEDS calculation is performed by summing the expenditures for the energy sources and dividing by the sum of the corresponding consumption values. For example, the average price for residential petroleum is the sum

of residential expenditures for distillate fuel oil, kerosene, and liquefied petroleum gas divided by the sum of residential consumption of those fuels.

Primary Energy and Electricity. Within each end-use sector, the sum of all fuels used directly as energy, i.e., coal, natural gas, petroleum products, and biofuels, is called primary energy. Electricity is considered a secondary energy source because it is generated from the primary energy sources consumed by electric utilities. Within each sector, the primary energy price is calculated by summing the expenditures for coal (the sum of coking coal and steam coal), natural gas, petroleum (the sum of all petroleum products used by the sector), and biofuels and dividing by the sum of all the consumption for those fuels. The average price of all energy consumed by each sector is the sum of the expenditures for primary energy and electricity divided by the sum of the consumption of the primary energy sources and electricity.

Electric Utility Sector. Electric utilities comprise a fifth energy consuming sector, although they are not considered an end-use sector. The average price paid by electric utilities for primary energy sources is the sum of their expenditures for coal, natural gas, petroleum products, nuclear fuel, and biomass fuels divided by the quantities consumed.

Primary Energy, Total, and Total Energy. The average price for the "Primary Energy, Total" shown in the first *SEPER* table for each State and the United States is the sum of the four end-use sectors' and the electric utility sector's expenditures for coal, natural gas, petroleum, and other fuels divided by the sum of the five sectors' consumption of those fuels. The distinction between this average price and the "Total Energy" average price shown in the same table is that this price includes all fossil and other fuels consumed, including those used to generate electricity. The "Total Energy" price is the average price of fuels consumed directly as energy by the four end-use sectors and the much higher price of the four sectors' electricity consumption.

Figure A1. U.S. Census Regions and Divisions

Region 1
Northeast

Division 1
(New England)
 Connecticut (CT)
 Maine (ME)
 Massachusetts (MA)
 New Hampshire (NH)
 Rhode Island (RI)
 Vermont (VT)

Division 2
(Middle Atlantic)
 New Jersey (NJ)
 New York (NY)
 Pennsylvania (PA)

Region 2 Midwest

Division 3
(East North Central)
 Illinois (IL)
 Indiana (IN)
 Michigan (MI)
 Ohio (OH)
 Wisconsin (WI)

Division 4
(West North Central)
 Iowa (IA)
 Kansas (KS)
 Minnesota (MN)
 Missouri (MO)
 Nebraska (NE)
 North Dakota (ND)
 South Dakota (SD)

Region 3 South

Division 5
(South Atlantic)
 Delaware (DE)
 District of Columbia (DC)
 Florida (FL)
 Georgia (GA)
 Maryland (MD)
 North Carolina (NC)
 South Carolina (SC)
 Virginia (VA)
 West Virginia (WV)

Division 6
(East South Central)
 Alabama (AL)
 Kentucky (KY)
 Mississippi (MS)
 Tennessee (TN)

Division 7
(West South Central)
 Arkansas (AR)
 Louisiana (LA)
 Oklahoma (OK)
 Texas (TX)

Region 4 West

Division 8
(Mountain)
 Arizona (AZ)
 Colorado (CO)
 Idaho (ID)
 Montana (MT)
 Nevada (NV)
 New Mexico (NM)
 Utah (UT)
 Wyoming (WY)

Division 9
(Pacific)
 Alaska (AK)
 California (CA)
 Hawaii (HI)
 Oregon (OR)
 Washington (WA)

Figure A2. Federal Regions

Region 1**New England**

Connecticut (CT)
 Maine (ME)
 Massachusetts (MA)
 New Hampshire (NH)
 Rhode Island (RI)
 Vermont (VT)

Region 2

New York/New Jersey
 New Jersey (NJ)
 New York (NY)

Region 3**Mid Atlantic**

Delaware (DE)
 District of Columbia (DC)
 Maryland (MD)
 Pennsylvania (PA)
 Virginia (VA)
 West Virginia (WV)

Region 4**South Atlantic**

Alabama (AL)
 Florida (FL)
 Georgia (GA)
 Kentucky (KY)
 Mississippi (MS)
 North Carolina (NC)
 South Carolina (SC)
 Tennessee (TN)

Region 5**Midwest**

Illinois (IL)
 Indiana (IN)
 Michigan (MI)
 Minnesota (MN)
 Ohio (OH)
 Wisconsin (WI)

Region 6**Southwest**

Arkansas (AR)
 Louisiana (LA)
 New Mexico (NM)
 Oklahoma (OK)
 Texas (TX)

Region 7**Central**

Iowa (IA)
 Kansas (KS)
 Missouri (MO)
 Nebraska (NE)

Region 8**North Central**

Colorado (CO)
 Montana (MT)
 North Dakota (ND)
 South Dakota (SD)
 Utah (UT)
 Wyoming (WY)

Region 9**West**

Arizona (AZ)
 California (CA)
 Hawaii (HI)
 Nevada (NV)

Region 10**Northwest**

Alaska (AK)
 Idaho (ID)
 Oregon (OR)
 Washington (WA)

Figure A3. Petroleum Administration for Defense Districts

District IA

Connecticut (CT)
Maine (ME)
Massachusetts (MA)
New Hampshire (NH)
Rhode Island (RI)
Vermont (VT)

District IB

Delaware (DE)
District of Columbia (DC)
Maryland (MD)
New Jersey (NJ)
New York (NY)
Pennsylvania (PA)

District IC

Florida (FL)
Georgia (GA)
North Carolina (NC)
South Carolina (SC)
Virginia (VA)
West Virginia (WV)

District II

Illinois (IL)
Indiana (IN)
Iowa (IA)
Kansas (KS)
Kentucky (KY)
Michigan (MI)
Minnesota (MN)
Missouri (MO)
Nebraska (NE)
North Dakota (ND)
Ohio (OH)
Oklahoma (OK)
South Dakota (SD)
Tennessee (TN)
Wisconsin (WI)

District III

Alabama (AL)
Arkansas (AR)
Louisiana (LA)
Mississippi (MS)
New Mexico (NM)
Texas (TX)

District IV

Colorado (CO)
Idaho (ID)
Montana (MT)
Utah (UT)
Wyoming (WY)

District V

Alaska (AK)
Arizona (AZ)
California (CA)
Hawaii (HI)
Nevada (NV)
Oregon (OR)
Washington (WA)

Section 2. Coal

Coal prices are developed for the following categories: coking coal; steam coal (all noncoking coal); and coal coke, imports and exports.

Coking coal, used in the industrial sector only, is a high-quality bituminous coal that is used to make coal coke. Steam coal, which may be used by all sectors, includes anthracite, bituminous coal, subbituminous coal, and lignite. In the industrial sector, coal consumption is the sum of coking coal and steam coal. The industrial coal price is the quantity-weighted average price of these two components.

Imports and exports of coal coke are available only on the national level and are accounted for in the industrial sector. Coal coke imports and exports are reported separately and are not averaged with other coal prices and expenditures.

Coking coal is generally more expensive than steam coal; therefore, it is identified separately in the development of the price estimates. Coking coal prices are those paid at coke plants for coal received and probably include taxes, although it is not clear from the source data collection forms. Analysts familiar with the survey believe that respondents would report the total cost of the coal (including cost, insurance, freight, and taxes) because that value is typically carried as the total expense in their bookkeeping systems.

Physical Unit Prices: All Years

Source publications contain physical unit prices for States or for groups of States. Individual State prices are used directly for their respective States. Group prices are assigned to each State within the group. Whenever individual State prices or State group prices are unavailable, prices are assigned from adjacent or nearby States or from States with similar coal use patterns as shown in Table A1.

Btu Prices: All Years

Btu prices for States are calculated from the physical unit prices and the constant conversion factor for coking coal. U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from the State Energy Data System (SEDS).

Data Sources

Prices

1981 forward: Energy Information Administration, *Quarterly Coal Report*, October-December issue, Table A3 (1981-1991) and Table 39 (1992 forward).

1977-1980: Energy Information Administration, *Coke and Coal Chemicals*, Table 19 (1977), Table 15 (1978), and Table 7 (1979, 1980).

1970-1976: Bureau of Mines, U.S. Department of the Interior, *Minerals Yearbook*, "Coke and Coal Chemicals" chapter, Table 22.

Table A1. Coking Coal State Group Price and Adjacent State Price Assignments

State	Years	State Prices Assigned
CA	1970-1982	CA, CO, UT
CO	1970-1982	CA, CO, UT
IL	1986-1994	IN
KY	1970-1987	KY, MO, TN, TX
	1988-1994	OH
MD	1970, 1971	MD, NJ, NY
	1983-1991, 1993	PA
MI	1979	MI, MN, WI
	1980-1985, 1987	MI, WI
	1988-1991, 1993, 1994	OH
MN	1970-1978	MN, WI
	1979	MI, MN, WI
MO	1970-1987	KY, MO, TN, TX
	1988	AL
NJ	1970, 1971	MD, NJ, NY
NY	1970, 1971	MD, NJ, NY
	1972-1982	MD, NY
	1983-1994	PA
TN	1970-1987	KY, MO, TN, TX
	1988-1991	AL
TX	1970-1987	KY, MO, TN, TX
UT	1970-1982	CA, CO, UT
	1983-1986	TX
	1988-1994	IN
VA	1970, 1971, 1976, 1977	WV
	1978-1982	VA, WV
	1983-1986	KY
	1987-1994	OH
WI	1970-1978	MN, WI
	1979	MI, MN, WI
	1980-1985, 1987	MI, WI
WV	1978-1982	VA, WV
	1983-1986	KY
	1987-1994	OH

Consumption

1970 forward: Energy Information Administration, State Energy Data System, coking coal consumption.

Conversion Factor: All Years

26.80 million Btu per short ton.

Steam coal is used in all sectors. Price data are generally available in the electric utility, residential, and industrial sectors. However, no price data are directly available in the transportation and commercial sectors, and industrial sector steam coal prices are assigned to these two sectors. Data sources and computational procedures for estimating coal prices are discussed by sector. Estimates of the amount of steam coal consumed by sector are taken from SEDS and are adjusted for process fuel consumption in the industrial sector. (See the "Consumption Adjustments for Calculating Expenditures" section on page 413.)

Electric Utility Sector**Btu Prices: 1973 Forward**

State Btu prices, including all taxes, are taken from *Cost and Quality of Fuels for Electric Utility Plants (C&Q)* for 1973 forward and are converted from cents to dollars per million Btu. Where individual State prices are unavailable, quantity-weighted Census division prices are assigned as shown in Table A2.

Btu Prices: 1970 Through 1972

Btu prices for States are taken from the Edison Electric Institute *Statistical Yearbook* and are converted from cents to dollars. DE, DC, and MD are each assigned the combined price for the three States. The steam coal electric utility sector AK price for 1971 is estimated as discussed below.

Table A2. Electric Utility Sector Price Assignments, 1973 Forward

State	Years	State/Census Division Prices Assigned
CT	1975-1979	New England
DC	1976	MD, VA
OK	1973, 1974	West South Central
	1975	CO, KS, MO, NM, TX
OR	1983, 1988	Pacific Contiguous
RI	1974	MA
VT	1980, 1983-1986	New England

Alaska Prices: All Years

The AK price for 1994 is estimated from an informal survey of the single coal supplier in the State. Prior to that, Btu prices for AK were taken from the *Statistical Yearbook* because the *C&Q* does not publish prices for AK. For the years 1970, 1972, 1974, 1976, 1977, and 1979 forward, prices were taken directly from the *Statistical Yearbook*. Prices for 1971, 1973, 1975, and 1978 are estimated from the *Statistical Yearbook* prices for the United States and the average ratio of AK-to-U.S. prices for the years when AK prices are available. The 1971 and 1973 estimated prices are based on the average ratio for 1970 and 1972, the 1975 price is based on the average ratio for 1974 and 1976, and the 1978 price is based on the average ratio for 1977 and 1979.

U.S. Prices: All Years

U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Data Sources**Prices**

1973 forward: Energy Information Administration, *Cost and Quality of Fuels for Electric Utility Plants*, Table 3 (1973-1979), Table 51 (1980-1982), Table 50 (1983, 1984), Table 40 (1985-1989), Table 7 (1990, 1991), and Table 2 (1992 forward).

1970 forward: Edison Electric Institute, *Statistical Yearbook of the Electric Utility Industry*, table titled "Analysis of Fuel for Electric Generation: Total Electric Utility Industry" (1970-1988), Table 29 (1989 forward).

Consumption

1970 forward: Energy Information Administration, State Energy Data System, electric utility sector coal consumption.

Conversion Factors: All Years

Btu prices are taken directly from the data sources; no explicit conversion factors are used.

Residential Sector

Residential sector steam coal prices are the average delivered prices for coal purchased by residential customers and include taxes.

Prices: 1979 Forward

Residential steam coal Btu prices for 1979 forward are not available. Electric utility coal spot prices from *C&Q* for 1979 forward are converted from cents per million Btu to dollars per million Btu and are used in a regression equation to estimate residential steam coal prices for 1979 forward. The residential steam coal prices calculated for 1974 through 1978 from *Gas Househeating Survey (GHS)* and the average Btu spot prices from the *Cost and Quality of Fuels for Electric Utility Plants (C&Q)* for 1974 through 1978 are used to develop the regression equation. AK residential coal prices are estimated by using a different methodology, described on page 337.

Some States have *GHS* residential prices during the 1974 through 1978 period to use in the regression analysis, but are missing prices in the 1979 forward data used to calculate prices. For these missing data, *C&Q* prices are assigned from other States for use in the regression, as shown in Table A3. *C&Q* prices for ND result in a negative price when

used in the regression; therefore MN spot prices are assigned to ND for use in the regression.

Table A3. Residential Sector Coal Spot Price Assignments from C&Q, 1979 Forward

State	Years	State Prices Assigned
CO	1979, 1981	KS
CT	1975	NY
	1976-1979	NH
	1980-1987, 1993, 1994	MA
DC	1976-1994	MD
ID	1974, 1979-1982	NV
	1975-1977	SD
	1978	ND
	1983-1994	CO
MA	1975	VT
	1976-1979	NH
ME	1974, 1975, 1981, 1983	VT
	1976-1980, 1982	NH
	1984-1994	MA
MT	1974, 1975, 1978	ND
	1976, 1977	SD
	1979-1982	NV
	1983, 1990-1993	CO
ND	1976, 1977	SD
	1979-1993	MN
NH	1974, 1975, 1981, 1983	VT
	1984, 1985	MA
NV	1975-1978, 1983-1989, 1992, 1993	CO
RI	1974	CT
	1975	VT
	1976-1979	NH
	1980-1994	MA
SD	1976, 1984	ND
	1979-1983, 1986, 1987, 1989, 1991-1994	MN
UT	1975-1978, 1980, 1983	CO
	1979	NV
VT	1976, 1980	NH
	1984-1994	MA
WA	1970	OR
	1974-1978, 1983-1985	CO
	1979-1982	NV
WY	1974-1976, 1978, 1982, 1983, 1985	CO

Price estimates for 1974 through 1978 for some States are not available because there was no consumption. To calculate prices for 1979 forward, these States are assigned the final prices from selected States as shown in Table A4.

In addition, several States are assigned the simple average of the final prices of adjacent States as shown in Table A4.

Prices: 1971 Through 1978

For 1971 through 1978, Btu steam coal prices are calculated by using data from *GHS*. The price for a State is equal to the simple average of the city/utility price observations for that State. For 1971 and 1972, *GHS* reports physical unit prices rather than Btu prices (as published for 1973 through 1978) and, therefore, the State-level conversion factors for this sector from SEDS are used to convert to Btu prices for those years.

Table A4. Residential Sector Spot Coal Final Price Assignments, 1979 Forward

State	Years	State and Averaged Final Prices Assigned
AR	1980, 1982, 1984, 1985, 1987-1994	AL
	1981	MO, OK, TN, TX
	1983	MO, MS, OK, TN
AZ	1982, 1984, 1985	CA, NM, NV, UT
	1987, 1988, 1990-1994	UT
CA	1979-1985	NV
	1987-1994	WA
FL	1980-1994	GA
LA	1980, 1982, 1984, 1986, 1988, 1991, 1993	AL
MS	1979, 1980, 1983, 1984, 1986-1993	AL
	1985	AL, AR, TN
MT	1986-1994	WY
NM	1979-1994	CO
OK	1979-1994	CO
OR	1976, 1980, 1982-1994	WA
	1981	CA, ID, NV, WA
TX	1980-1982, 1985-1994	CO

AK residential coal prices are estimated by using a different methodology described below.

A simple average of price observations in CT, MA, ME, NH, RI, and VT is assigned to each of these States. To impute other missing prices in the 1971 through 1978 period, States are assigned simple averages of adjacent State prices or are directly assigned the single price of an adjacent or nearby State as listed in Table A5.

Prices: 1970

Since State-level coal price data for 1970 are not available from either GHS or C&Q, the 1970 residential sector coal prices are calculated by using the 1971 through 1978 data from the *Statistical Yearbook* for the 39 States, with some reported coal use from 1971 through 1983 and regression analysis.

For estimating the 1970 prices, States missing *Statistical Yearbook* data are assigned prices as follows: ID/1970 through 1978 from MT; MA/1976 through 1978 from CT; ME/1970 through 1978 from NH; RI/1973, 1975 through 1978 from CT; and WA/1970 through 1972 from OR. DC, DE, and MD are all assigned the combined *Statistical Yearbook* price for those States. Wherever individual State prices are unavailable, prices are assigned from an adjacent or nearby State as follows: CA from NV; NM from CO; OK from CO; OR from WA; and TX from CO. AK residential coal prices are estimated by using a different methodology, described as follows.

Alaska Prices: All Years

The AK residential coal price for 1994 is estimated from an informal survey of the single coal supplier in the State.

The AK residential Btu prices for 1978 through 1993 are estimated from the WA State prices during that period. The average ratio of AK-to-WA prices during 1970 through 1977 is applied to the WA price each year that AK has consumption to estimate the AK price for the year.

Table A5. Residential Sector Spot Coal Price Assignments, 1971-1978

State	Years	State Assigned or Averaged Prices
AL	1971	TN
AR	1977, 1978	AL
CA	1971, 1972, 1974, 1978	NV
DC	1971-1978	MD
DE	1971, 1972, 1974, 1976, 1977	MD
GA	1971	NC, TN
	1972	AL, NC, TN
ID	1977	MT, UT, WY
KS	1971, 1972	CO, MO
MN	1971	IA, ND, WI
	1972	IA, WI
MS	1978	AL
MT	1971	ID, ND, WY
	1972, 1973	ID, WY
ND	1972	IA, WI
	1973	MN, SD
	1974	MN, MT, SD
NE	1971, 1972	CO, IA, MO, WY
	1975	CO, IA, KS, MO, SD, WY
NJ	1971, 1972, 1974, 1977, 1978	DE, NY, PA
NM	1971	CO
NV	1971, 1972, 1975	ID, UT
	1973	ID, OR, UT
OK	1971-1978	CO
OR	1971-1978	WA
SC	1971, 1972	NC
SD	1971	IA, ND, WY
	1972	IA, WY
TX	1971-1974, 1977	CO
UT	1974, 1978	CO, ID, NV, WY
WA	1971, 1972, 1974	ID
	1977	MT, UT, WY
WV	1971, 1972	KY, MD, OH, PA, VA

AK physical unit prices for 1970 through 1977 are estimated by using the ratio of AK-to-U.S. electric utility sector prices.

U.S. Prices: All Years

U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Data Sources**Prices**

1974 forward: Energy Information Administration, *Cost and Quality of Fuels for Electric Plants*, average spot coal prices, Table 2 (1974-1979), Table 44 (1980-1982), Table 49 (1983, 1984), Table 39 (1985-1989), Table 8 (1990, 1991), and Table 3 (1992, 1993).

1971-1978: American Gas Association, *Gas Househeating Survey*, table titled "Competitive Fuel Prices."

1970-1978: Edison Electric Institute, *Statistical Yearbook of the Electric Utility Industry*, Table 43S.

Consumption

1970 forward: Energy Information Administration, State Energy Data System, residential sector coal consumption.

Conversion Factors: 1971, 1972

Energy Information Administration, *State Energy Data Report 1994, Consumption Estimates*, Table D8.

Commercial Sector

Commercial sector prices are assigned from industrial steam coal prices. States without Btu industrial steam coal prices were assigned the prices from adjacent States, as shown in Table A6. The AK price in 1994 is estimated from an informal survey of the single coal supplier in the State. U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Table A6. Commercial Sector Final Price Assignments

State	Years	State Prices Assigned
CT	1980	NY
DC	1980-1984	MD
NH	1994	MA
OK	1970	KS
RI	1982, 1983, 1991-1994	MA
VT	1993	NH
VT	1994	MA

Industrial Sector

For 1980 forward, prices are based on the average price of coal receipts at manufacturing plants. For 1970 through 1979, prices are based on the average cost of coal sold to manufacturing firms.

Physical Unit Prices: 1980 Forward

For 1984 forward, State prices are taken from the *Quarterly Coal Report (QCR)*. The annual price is estimated as the average of the quarterly prices weighted by the quarterly receipts. For 1980 through 1983, prices are taken directly from Form EIA-3 data. Published prices in average cost per ton are used directly when available, while missing prices are estimated by using simple averages or price assignments from adjacent States. Although it is not clear from the data collection forms, it is assumed that the prices include taxes. Analysts familiar with the survey believe that respondents would report the total cost of the coal (including cost, insurance, freight, and taxes) because that value is typically carried as the total expense in their bookkeeping systems.

Missing State data are estimated by using simple averages of the published data for adjacent States. In a few cases, only a single adjacent State or Census division price is available for the estimation. The adjacent State and Census division price assignments used for estimations are shown in Table A7.

Table A7. Industrial Sector Steam Coal Price Estimates, 1980 Forward

State	Years	Prices Used in the Estimation	State	Years	Prices Used in the Estimation
AZ	1980	CA, UT	NM	1980	TX, UT
	1981, 1984, 1985	CA, CO, UT		1981, 1984-1988	CO, OK, TX
CO	1980	KS, UT		1982, 1983	AZ, CO, OK, TX
CT	1981-1994	New England		1989-1994	AZ, CO, TX
DC	1980, 1981	MD	NV	1980, 1981, 1984, 1985	CA, ID, UT
DE	1980-1994	MD		1983, 1986-1994	AZ, CA, ID, UT
FL	1980	AL, GA	OK	1980, 1989-1994	AR, KS, MO, TX
HI	1982-1994	CA	OR	1980, 1981, 1983-1994	CA, ID, WA
LA	1980-1985, 1989-1994	AR, TX		1982	CA, ID, NV, WA
MA	1980-1983	NY	RI	1980, 1981	NY
	1984-1994	New England		1984-1989, 1992-1994	New England
ME	1980-1983	NY	SD	1980	IA, MN, MT
	1984-1994	New England		1981	IA, MN, MT, NE
MS	1980-1994	AL, AR, TN		1982	IA, MN, MT, WY
MT	1983, 1986-1994	ID, WY		1983, 1986-1994	IA, MN, WY
	1984, 1985	ID		1984, 1985	IA, MN, NE
ND	1980-1982	MN, MT	VT	1980-1983	NY
	1983-1994	MN		1984-1994	New England
NE	1980	IA, KS, MO	WV	1980	KY, MD, OH, PA, VA
	1982, 1983, 1986-1994	CO, IA, KS, MO, WY	WY	1980	ID, MT, UT
NH	1980-1983	NY		1981	CO, ID, MT, NE, UT
	1984-1994	New England		1984, 1985	CO, ID, NE, UT
NJ	1980-1994	NY, PA			

Physical Unit Prices: 1971, 1974 Through 1979

For 1971 and 1974 through 1979, available cost and quantity of bituminous coal, lignite, and anthracite from the *Annual Survey of Manufactures (ASM)* or *Census of Manufactures (CM)* are used to calculate prices as average cost per unit of sales for covered States. (States with undisclosed data are not considered covered.) Although it is not clear from the data sources, the prices probably include taxes as explained for prices in the 1980 forward period.

For States with industrial steam coal use and for which *ASM* or *CM* data are not available in 1971 and 1974 through 1979, adjacent State simple averages of available *ASM/CM* data are used to impute prices. The assigned prices from adjacent States are shown in Table A8.

Physical Unit Prices: 1970, 1972, 1973

Steam coal industrial sector prices for 1970, 1972, and 1973 (years for which no *ASM/CM* prices are available) are estimated by using regression techniques. Values for the independent variable are steam coal electric utility sector physical unit prices, and values for the dependent variable are the steam coal industrial physical unit prices (from *ASM* or estimated as described above) for 1971, and 1974 through 1977. A few States are assigned electric utility prices for the dependent variable in the regression, as shown in Table A9.

Wherever individual State prices remain unavailable after the estimation by using the above regression techniques, prices are assigned from adjacent or nearby States, as shown in Table A10.

Table A8. Industrial Sector Steam Coal Price Estimates for 1971 and 1974-1979

State	Years	State Prices Used in the Estimation	State	Years	State Prices Used in the Estimation
AR	1971, 1972, 1974, 1975 1979	MO, TN MO, TN, TX	MT	1974-1978 1979	MN, NE, UT MN, UT
AZ	1971 1974-1978	CA, NV, UT CA, UT	ND	1974-1979	MN
CO	1974-1978 1979	KS, NE, UT UT	NE	1979	IA, MO
CT	1974-1978 1979	MA, NY NY	NH	1971, 1974-1979	MA
DC	1971, 1974-1979	MD, VA	NM	1971 1974, 1976-1978	CO, OK, TX, UT KS, UT
DE	1971, 1974-1979	MD, NJ, PA		1979	UT
FL	1979	AL, GA	NV	1974	CA, OR, UT
ID	1974 1975-1978	OR, UT UT	OK	1975-1979 1974, 1976	CA, UT KS, MO
	1979	UT, WA		1978-1978	AR, KS, MO
KS	1979	MO	OR	1976-1978	MO, TX
LA	1978	AR		1979	CA
	1979	TX	RI	1971, 1974-1978	CA, WA
MA	1979	NY		1979	MA
ME	1976-1978 1979	MA NY	SD	1971, 1974 1975-1978	NY IA
MS	1971, 1974, 1975, 1979	AL, TN		1979	IA, MN, NE
	1976-1978	AL, AR, TN	TX	1974, 1975 1976-1978	IA, MN KS
MT	1974-1978 1979	MN, NE, UT MN, UT	VT	1971, 1974-1978	AR, KS
ND	1974-1979	MN		1979	MA
NE	1979	IA, MO	WA	1974	NY
NH	1971, 1974-1979	MA		1975-1978	CA, OR
NM	1971 1974, 1976-1978 1979	CO, OK, TX, UT KS, UT UT	WY	1974-1978 1979	CA NE, UT UT

Physical Unit Prices: Alaska, All Years

The AK steam coal industrial sector price for 1994 is estimated from an informal survey of the single coal supplier in the State. The 1993 price for Alaska is estimated by assuming that the ratio of the Alaska price to the WA price in the industrial sector is the same as the ratio of the AK and WA prices in the electric utility sector for 1993. For 1970 through 1992, the ratio of the AK price to the U.S. price in the electric utility sector is used for the estimation.

Btu Prices: All Years

Btu prices for States are calculated from the physical unit prices and the conversion factors, which vary by State and by year. U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS, adjusted for process fuel and coking coal consumption.

Table A9. Industrial Sector Price Assignments Used in the Regression Equation for 1971, and 1974-1979

State	Years	State Prices Assigned
AR	1973-1977	MO
CA	1970-1977	NV
CT	1975-1977	NY
DC	1976, 1977	MD
ID	1970-1977	MT
MA	1976, 1977	NH
ME	1970-1977	NH
OK	1973-1975	KS
OR	1973-1977	WA
TX	1970	NM
WA	1970-1972	OR

Data Sources**Prices**

1984 forward: Energy Information Administration, *Quarterly Coal Report*, Tables 16 and 17 (1984 1st quarter through 1985 2nd quarter and 1986, 1987, and 1988 1st quarters); Tables 18 and 19 (1985 3rd and 4th quarters, 1986, 1987, and 1988 2nd through 4th quarters, 1989-1991 1st through 4th quarters); and Tables 40 and 41 (1992 forward, 1st through 4th quarters).

Table A10. Industrial Sector Final Price Assignments for 1970, 1972, and 1973

State	Years	State Prices Assigned
AR	1972	MO, TN
NH	1970, 1972, 1973	MA
RI	1970, 1972, 1973	MA
SD	1970, 1972, 1973	IA
VT	1970, 1972, 1973	MA

1980-1983: Energy Information Administration, "Quarterly Coal Consumption Report: Manufacturing Plants" (Form EIA-3). Only published data are used from Table 25 (1980), Table 11 (1981, 1982), and Table 2 (1983).

1971, 1974-1979: Bureau of the Census, U.S. Department of Commerce, *Annual Survey of Manufactures and Census of Manufactures*, Table 4 (1971) and Table 3 (1974-1979).

1970, 1972, 1973: Steam coal electric utility physical unit prices.

Consumption

1970 forward: Energy Information Administration, State Energy Data System, industrial sector coal consumption.

Conversion Factors: All Years

Energy Information Administration, *State Energy Data Report 1994, Consumption Estimates*, Tables D10 and D11.

The conversion factor for CT/1990 is assigned from CT/1989; the NH/1976 conversion factor is assigned from NH/1975; the RI/1977 conversion factor is assigned from RI/1976; and the VT/1986 conversion factor is assigned from VT/1985.

Transportation Sector

Transportation sector steam coal prices are assigned from industrial sector steam coal prices. U.S. Btu prices are calculated as the average of the State Btu prices, weighted by SEDS consumption data.

Imports and exports of coal coke are components of total U.S. energy consumption and are accounted for in the industrial sector. Prices and values of imports and exports are developed only for the United States; no attempt is made to estimate State-level prices or expenditures. Prices are f.a.s. (free alongside ship) values and do not include taxes. The quantities of U.S. coal coke imports and exports are taken from SEDS.

Physical Unit Prices: All Years

For 1980 forward, the *Coke Plant Report*, the *Quarterly Coal Report*, and Bureau of the Census computer tapes provide physical unit coal coke import and export prices in dollars per short ton. For 1970 through 1979, *Coke and Coal Chemicals*, *International Coal*, and the *Minerals Yearbook* provide coal coke import and export physical unit quantities and values in short tons and dollars, respectively. Values are equivalent to expenditures.

Btu Prices: All Years

For 1980 forward, Btu prices are computed by dividing the physical unit prices by the conversion factor. For 1970 through 1979, physical unit prices are computed by dividing the import and export values by their respective quantities, and Btu prices are computed by dividing the physical unit prices by the conversion factor.

Data Sources

Prices

1989 forward: Bureau of the Census, U.S. Department of Commerce, electronic data from "Monthly Report IM 145" and "Monthly Report IM 545."

1981-1988: Energy Information Administration, *Quarterly Coal Report*, October-December issues, Tables A11 and A13 (1981-1985) and Tables A10 and A12 (1986-1988).

1980: Energy Information Administration, *Coke Plant Report*, Tables 7 and 8.

1978-1979: Energy Information Administration, *Coke and Coal Chemicals 1979*, Tables 5 and 6.

1977: National Coal Association, *International Coal 1980*, tables titled "U.S. Imports of Solid Fuels and Customs Value" and "U.S. Exports of Coke and Value."

1976: Energy Information Administration, *Coke and Coal Chemicals*, Tables 19 and 20.

1970-1975: Bureau of Mines, U.S. Department of the Interior, *Minerals Yearbook*, "Coke and Coal Chemicals" chapter, Tables 19 and 20.

Consumption

1970 forward: Energy Information Administration, State Energy Data System, U.S. imports and exports of coal coke.

Conversion Factor: All Years

24.8 million Btu per short ton.

Section 3. Natural Gas

Natural gas prices are developed for the residential, commercial, industrial, transportation, and electric utility sectors. Reported natural gas prices are retail prices for sales of natural gas to ultimate users.

In general, taxes are included in the prices. However, taxes collected by a utility from an end user and turned over to a Government authority frequently are not included in the revenues reported in the source documents and, therefore, are not included in the prices. Taxes paid by the utility (rather than the end user) are considered operating costs and are passed on to the end user as part of the rate. Therefore, Federal, State, business, and property taxes are typically included in the prices, while sales and other point-of-purchase taxes typically are not.

Estimates of the amount of natural gas consumed by the residential, commercial, industrial, and electric utility sectors are taken from the State Energy Data System (SEDS). Estimates for the industrial sector are adjusted to remove estimated refinery consumption and lease and plant use of natural gas and estimates of transportation sector use are adjusted to remove pipeline fuel in each State. (See the discussion in Section 7, "Consumption Adjustments for Calculating Expenditures," on page 413.)

Residential, Commercial, and Industrial Sectors

Prices: 1987 Forward

All natural gas physical unit prices by State for the residential, commercial, and industrial sectors are taken from the Energy Information Administration (EIA) *Natural Gas Annual* (NGA).

Prices: 1970 Through 1986

All natural gas physical unit prices for the residential, commercial, and industrial sectors are calculated from value and quantity of sales data from the NGA or its predecessor report, *Natural Gas Production and Consumption*. State prices are calculated directly from the data sources as average revenue per unit of sales by natural gas utilities. Prices for each of the three sectors are calculated by dividing the value of natural gas, reported in thousands of dollars, by the quantity of natural gas sold, as reported in million cubic feet.

For 1970 through 1979, both the value and quantity of sales data from the NGA are reported as composites for MD and DC and for ME, NH, and VT. In each case, the combined prices are assigned to each of the States in the composite.

Btu Prices: All Years

State Btu prices for all years are calculated by using the physical unit price series and the State-level non-electric utility conversion factors. U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS, adjusted for process fuel consumption in the industrial and transportation sectors.

Data Sources

Prices

1987 forward: Energy Information Administration, *Historical Natural Gas Annual, 1930 Through 1995*, Table 23 (residential); Table 24

(commercial 1987-1992) and Table 25 (commercial 1993 and 1994); and Table 27 (industrial 1987-1992) and Table 28 (industrial 1993 and 1994).

1980-1986: Energy Information Administration, *Natural Gas Annual, Volume 1*, Table 11 (1980), Table 14 (1981-1985), and Table 15 (1986).

1970-1979: Bureau of Mines, U.S. Department of the Interior, *Natural Gas Production and Consumption*, Table 6 (1970 and 1979) and Table 7 (1971-1978).

Consumption

1970 forward: Energy Information Administration, State Energy Data System, residential, commercial, and industrial natural gas consumption.

Conversion Factors: All Years

Energy Information Administration, factors published rounded in *State Energy Data Report 1994, Consumption Estimates*, Tables D4 and D5.

Transportation Sector

Most of the natural gas used for transportation is consumed in pipeline operations and is discussed in Section 7, "Consumption Adjustments for Calculating Expenditures," on page 413. A small but increasing portion is consumed by natural gas vehicles. Prices for natural gas consumed by vehicles are reported in the EIA *Natural Gas Annual* beginning in 1990. Much of the natural gas delivered for vehicle fuel represents deliveries to fueling stations that are used primarily by fleet vehicles.

In the first years of the vehicle fuel price series, the coverage of the reporting universe is not complete. Prices are assigned, when missing, from an adjacent State with the highest percentage of reported data. Natural gas vehicle fuel consumption in NE is assigned the SD price in 1992 and 1993, in NV is assigned the AZ price in 1992 and 1993, and in DE is assigned the MD price in 1994.

Data Sources

Prices

1990 forward: Energy Information Administration, *Historical Natural Gas Annual, 1930 Through 1995*, Table 30.

Consumption

1990 forward: Energy Information Administration, State Energy Data System, natural gas vehicle consumption.

Conversion Factors: All Years

Energy Information Administration, unrounded conversion factors as published rounded in the *State Energy Data Report 1994, Consumption Estimates*, Tables D4 and D5.

Electric Utility Sector

Prices: 1973, 1974, 1983 Forward

Prices for States are reported by *Cost and Quality of Fuels for Electric Utility Plants (C&Q)* for gas consumed at steam-electric plants only. Btu prices are taken from C&Q, converted from cents to dollars per million Btu.

Where individual State prices are unavailable from C&Q, they are developed from the NGA. Physical unit prices prior to 1987 are calculated by dividing the value of natural gas, reported in thousands of dollars, by the quantity of natural gas sold, reported in million cubic feet. For 1987 forward, physical unit prices are taken directly from the NGA. Table A11 lists the States and years for which NGA data are used. Btu prices are calculated from the physical unit prices by using State-level electric utility conversion factors.

Prices are not available from either C&Q or NGA for CT/1973; ID/1974, 1987; NH/1983; and OR/1983, 1984, 1986, 1989, 1990. In these cases,

Table A11. Natural Gas Electric Utility Sector Prices from NGA, 1973 Forward

State	Years
AK	1973-1990
CT	1974-1978
ID	1983-1986
MD	1973, 1974, 1983-1985
NC	1983-1990
ND	1973, 1974, 1976-1988
NH	1973, 1974, 1977, 1987-1989
PA	1973
RI	1976, 1980
SC	1977
SD	1983-1990
TN	1976, 1980, 1981, 1983, 1988-1994
UT	1988, 1989
VT	1983-1985, 1989, 1990
WA	1978, 1983-1985, 1988, 1989
WY	1973, 1975

Note: NGA includes predecessor publications.

quantity-weighted Census division prices from *C&Q* are assigned. In addition, prices for VT/1986 and WA/1986, 1987, 1990 use quantity-weighted Census division prices from *C&Q* for more consistent prices than those available from the *NGA*.

Prices: 1980 Through 1982

State Btu and physical unit prices for 1980 through 1982 are taken from *C&Q* for all reporting plants. Physical unit prices are taken directly from the data source, while Btu prices are converted from cents to dollars per million Btu.

Prices: 1975 Through 1979

State prices are reported separately by *C&Q* for gas consumed at steam-electric plants and gas consumed at combustion turbine and internal combustion units. Weighted-average Btu prices are calculated by using

the two *C&Q* prices and the respective gas deliveries for steam-electric and combustion use. The NH/1977 price is not available from *C&Q*. A combined price is computed from value and quantity of sales data from the *NGA* for ME, NH, and VT and assigned to NH/1977.

Prices: 1970 Through 1972

State prices for 1970 through 1972 are taken from *Natural Gas Production and Consumption* and are calculated similarly to the way prices for the residential, commercial, and industrial sectors are calculated. Prices, as average revenue per unit of sales, are computed from value and quantity of sales data from the source reports. A combined price is reported for NH and VT for 1971 and 1972, and each of these States is assigned the combined price. State Btu prices are calculated from the physical unit prices by using the State-level electric utility conversion factors.

U.S. Prices: All Years

U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Data Sources

Prices

1973 forward: Energy Information Administration, *Cost and Quality of Fuels for Electric Utility Plants*, tables numbered as follows:

Years	Price Data	Volume Data
1973, 1974	Table 10	Table 9
1975-1979	Table 10, 16	Table 9, 15
1980-1982	Table 48	-
1983, 1984	Table 53	-
1985-1987	Table 43	-
1988, 1989	Table 44	-
1990, 1991	Table 19	-
1992-1994	Table 12	-

1994: Energy Information Administration, *Historical Natural Gas Annual 1930 Through 1995*, Table 31.

1993: Energy Information Administration, *Natural Gas Annual 1993*, Table 26.

1980-1992: Energy Information Administration, *Natural Gas Annual 1992*, Volume 2, Table 23.

1976-1979: Energy Information Administration, Energy Data Reports, *Natural Gas Production and Consumption*, Table 7 (1976-1978) and Table 6 (1979).

1970-1975: Bureau of Mines, U.S. Department of the Interior, *Natural Gas Production and Consumption*, Table 6 (1970) and Table 7 (1971-1975).

Consumption

1970 forward: Energy Information Administration, *State Energy Data System*, electric utility natural gas consumption.

Conversion Factors

Btu prices that are calculated directly from *Cost and Quality of Fuels for Electric Utility Plants (C&Q)* require no conversion factors. When *Natural Gas Annual (NGA)* data are used to develop prices that are missing from C&Q, conversion factors are used from the following source:

1970 forward: Energy Information Administration, *State Energy Data Report 1994, Consumption Estimates*, Tables D2 and D3.

Section 4. Petroleum

The State Energy Data System (SEDS) assumes that all asphalt and road oil consumption occurs in the industrial sector. Asphalt and road oil are used primarily for paving (79 percent of consumption in 1970 and 88 percent in 1994), with the remaining products used for roofing and sealing. Taxes are not included in the prices because most street and highway paving is done under contract to State, county, and other public authorities who are typically exempted from paying taxes.

Physical Unit Prices: All Years

Asphalt prices in physical units are developed from monthly reports in the *Engineering News-Record*, a construction industry weekly magazine published by McGraw-Hill, Inc. The source data consist of monthly reports from correspondents in 20 U.S. cities with price quotes for tank cars, drums, or both, for the three major types of asphalt products: asphalt cement (AC-20), asphalt emulsion (rapid set and slow set), and asphalt cutback.

For 1986 forward, the tank car price is used. However, for 1986 and 1987, the drum price is used if a tank car price is not available. For 1970 through 1985, when both tank car and drum prices are available, a simple average of the two prices is used. When only one price is available, that price is used.

Asphalt prices are developed by calculating a simple average annual price from the monthly prices for each city for the three products. City prices are assigned to States. CA, OH (1970 through 1985, 1992 forward), and PA have prices from two cities; in these cases, simple

averages of the two city prices are used. No States have prices from more than two cities. States with no prices are assigned a Census division simple average price. State average asphalt prices are calculated as the quantity-weighted average prices of the three products for each State. If there is no Census division price, the simple average of the prices for the other Census divisions within that Census region is used. Quantity data for 1970 through 1980 are taken from the Bureau of Mines and EIA reports on sales of asphalt. Quantity data for 1981 forward are taken from the *Report on Sales of Asphalt in the U.S.*, published by the Asphalt Institute. Non-paving asphalts are assumed to have the prices of paving asphalt cement.

For 1970 through 1982, asphalt and road oil are estimated as separate data series. Asphalt prices are estimated as discussed above. Road oil prices are assumed to equal asphalt emulsion prices because specific prices are not available from any source.

Btu Prices: All Years

Asphalt prices in dollars per ton are converted to dollars per gallon by dividing by 235 gallons per ton for asphalt cement, 241 gallons per ton for emulsion, or 248.6 gallons per ton for cutback. These prices are then multiplied by 42 gallons per barrel and divided by 6.636 million Btu per barrel to get dollars per million Btu. Road oil unit prices of dollars per ton are converted to dollars per million Btu by using the constant conversion factors of 5.5 barrels per ton and 6.636 million Btu per barrel. The average price of all asphalt and road oil is the consumption-weighted average of the individual product prices.

U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Data Sources

Prices

1970 forward: McGraw-Hill, Inc., *Engineering News-Record*.

Quantities for Calculating Weighted Average Prices

1981 forward: Asphalt Institute, *Asphalt Usage, United States and Canada*.

1978-1980: Energy Information Administration, Energy Data Reports, *Sales of Asphalt*, Table 2.

1977: Energy Information Administration, Energy Data Reports, *Asphalt Sales, Annual*, Table 2.

1971-1976: Bureau of Mines, U.S. Department of the Interior, Mineral Industry Survey, *Asphalt Sales, Annual*, Table 2.

1970: Bureau of Mines, U.S. Department of the Interior, Mineral Industry Survey, *Asphalt Shipments, Annual*, Table 2.

Consumption

1970 forward: Energy Information Administration, State Energy Data System, industrial sector, asphalt and road oil consumption.

Conversion Factors: All Years

Conversion factors used are: 235 gallons per ton of asphalt cement; 241 gallons per ton of emulsion; 248.6 gallons per ton of cutback; 42 gallons per barrel; 5.5 barrels per ton of road oil; 6.636 million Btu per barrel.

Aviation gasoline prices are developed for the transportation sector. Estimates of the amount of aviation gasoline consumed by the transportation sector are taken from SEDS. Aviation gasoline prices are national averages, excluding taxes, developed from several sources, depending on the years. In all cases, physical unit prices are developed and then converted to Btu prices. Federal and State excise taxes, as well as State and local sales taxes, are not included.

Physical Unit Prices: 1976 Forward

Aviation gasoline prices for 1978 forward are assumed to be the national average refiners sales prices to end users published in the EIA's *Annual Energy Review*. The 1976 and 1977 prices are assumed to be the national average retail prices published in the EIA's *Monthly Energy Review*.

Physical Unit Prices: 1970 Through 1975

For 1970 through 1975, aviation gasoline prices are not available. Prices are derived by dividing the national motor gasoline prices for those years by the 1976 national motor gasoline price and applying those percent changes to the 1976 national aviation gasoline price.

Btu Prices: All Years

Aviation gasoline Btu prices are calculated by converting the physical unit prices from cents per gallon to dollars per barrel (42 gallons per barrel) and then to dollars per million Btu (5.048 million Btu per barrel).

Data Sources

Prices

1979 forward: Energy Information Administration, *Annual Energy Review 1995*, Table 5.20, row titled "Sales Prices to End Users: Aviation Gasoline."

1978: Energy Information Administration, *Annual Energy Review 1993*, Table 5.21, row titled "Sales Prices to End Users: Aviation Gasoline."

1976, 1977: Energy Information Administration, *Monthly Energy Review*, April 1984, page 106, column titled "Aviation Gasoline, Retail."

1970-1975: Energy Information Administration, *Annual Energy Review 1989*, Table 70, column titled "Motor Gasoline, Leaded Regular, Nominal."

Consumption

1970 forward: Energy Information Administration, State Energy Data System, transportation sector, aviation gasoline consumption.

Conversion Factor: All Years

5.048 million Btu per barrel.

Distillate fuel prices are developed for all sectors. Distillate fuel in the transportation sector is assumed to be diesel fuel. Estimates of the amount of distillate fuel consumed in each sector are taken from the State Energy Data System (SEDS). Estimated consumption for the industrial sector is adjusted to remove the estimated refinery consumption of distillate fuel in each State. (See the discussion in Section 7, "Consumption Adjustments for Calculating Expenditures," on page 413.)

Residential Sector

Residential distillate prices are developed by using a variety of data sources and several estimation methods, depending on the years involved. In all cases, physical unit prices for States are developed first, then Btu prices are calculated by using the physical unit prices and the conversion factor. The prices contained in this series are the retail prices paid by consumers for residential heating oil, including taxes.

Physical Unit Prices: 1983 Through 1990, 1992 Forward

For 1983 through 1990 and 1992 forward, physical unit distillate prices in cents per gallon (excluding taxes) are generally available for 24 States from the *Petroleum Marketing Annual (PMA)*. For 1989 through 1993, prices represent No. 2 fuel oil, only. For 1994, prices include other No. 2 distillates. State-level prices for the States without *PMA* prices are estimated by using price data from the American Gas Association (AGA), SEDS consumption data, and *PMA* Petroleum Administration for Defense (PAD) district prices. The estimation procedures are described below and include the addition of State general sales taxes.

1. State prices in cents per gallon are generally available from the *PMA* for the following 24 States: AK, CT, DC, DE, ID, IL, IN, MA, MD, ME, MI, MN, NH, NJ, NY, OH, OR, PA, RI, VA, VT, WA, WI, and WV. Prices for these States are converted from cents to dollars per gallon, and State general sales taxes from the Bureau of the Census and successor sources are added.
2. For the States that do not have prices in the *PMA*, prices are estimated by using AGA fuel oil prices, SEDS consumption data, and *PMA* PAD district prices for Districts II, III, IV, and V and Subdistrict IC (all the States in PAD Subdistricts IA and IB have published prices). The following steps are used to estimate the prices:
 - a. Distillate prices from the *PMA* for PAD Districts II, III, IV, and V and Subdistrict IC are converted from cents per gallon to dollars per gallon.

- b. The AGA lists fuel oil prices by company for the principal city served in dollars per million Btu including State sales taxes. A simple average of the city-level prices is used to derive a State-level price for each of the States without *PMA* prices. These AGA State averages are converted from dollars per million Btu to dollars per gallon by using the AGA conversion factor of 7.194 gallons per million Btu. State general sales taxes are subtracted to give State averages comparable to the *PMA* prices.
- c. The AGA State prices derived in step 2b. are combined into PAD district averages by using SEDS consumption to weight each State's values. This procedure gives AGA consumption-weighted average prices for PAD Districts II, III, IV, and V and Subdistrict IC that are comparable to the volume-weighted PAD district prices published in the *PMA*. The AGA PAD district averages are calculated by using only the available States; if a State does not appear in the survey, it is not included in the PAD calculation.
- d. Adjustment factors, ratios of the *PMA* PAD district price divided by the AGA derived PAD district price, are calculated for PAD Districts II, III, IV, and V, and Subdistrict IC.
- e. Prices for the States not published in the *PMA* are calculated by multiplying the AGA State prices derived in step 2b by the appropriate PAD district adjustment factor from step 2d and then adding State general sales taxes.
- f. States that do not have prices in either the *PMA* or the AGA are assigned a *PMA* PAD district price, and State general sales taxes are added. The States with assigned PAD prices are as shown in Table A12.

Physical Unit Prices: 1991

Physical unit distillate prices in cents per gallon (excluding taxes) are available for 24 States from the *PMA*. Because prices are not available from AGA for 1991, State-level prices for the remaining 27 States are estimated by using physical unit prices derived for 1990 in SEPEDS (de-

Table A12. Distillate Residential Sector Price Assignments, 1983-1990, 1992 Forward

State	Years	Prices Assigned
AR	1988, 1993, 1994	PAD District III
AZ	1992-1994	PAD District V
CA	1984, 1992-1994	PAD District V
FL	1993	PAD District IC
HI	1983-1990, 1992-1994	PAD District V
IL	1988	PAD District II
KS	1986, 1989	PAD District II
LA	1988	PAD District III
MS	1983, 1985, 1990	PAD District III
MT	1994	PAD District IV
ND	1994	PAD District II
NM	1984-1990, 1992-1994	PAD District III
NV	1994	PAD District V
OK	1988, 1989, 1990, 1992, 1993	PAD District II
SD	1988	PAD District II
TX	1982-1994	PAD District III
UT	1985	PAD District IV
WY	1994	PAD District IV

scribed below) and the 1991 *PMA* Petroleum Administration for Defense (PAD) district prices. The estimation procedures are described below and include the addition of State general sales taxes.

1. State prices in cents per gallon are available from the *PMA* for the following 24 States: AK, CT, DC, DE, ID, IL, IN, MA, MD, ME, MI, MN, NH, NJ, NY, OH, OR, PA, RI, VA, VT, WA, WI, and WV. Prices for these States are converted from cents to dollars per gallon, and State general sales taxes from the Bureau of the Census' *State Government Tax Collections (SGTC)* are added.
2. For the remaining 27 States that do not have prices in the *PMA*, prices are estimated by using the 1990 SEPEDS physical unit prices and *PMA* PAD district prices for 1990 and 1991. The following steps are used to estimate the prices:

- a. For 1990, the Subdistrict IC price is withheld in the *PMA* and the average of the VA and WV prices is used as the Subdistrict IC price.
- b. The 1990 State prices derived from *AGA* and *PMA*, as described below, are adjusted by the percentage change in the 1990 and 1991 prices for each State's *PMA* PAD district or subdistrict.
- c. The State general sales taxes from *SGTC* are added.

Physical Unit Prices: 1978 Through 1982

Procedures for the 1978 through 1982 period are similar to those for 1983 forward except for changes in data sources. Annual physical unit prices are taken either directly from the *Monthly Energy Review (MER)* or are calculated from monthly regional price data, also from the *MER*. These data were collected on Form EIA-9A (formerly EIA Form 9 and FEA Form P112-M-1) and include taxes. Price data from *Platt's Oil Price Handbook and Oilmanac (Platt's)* and SEDS consumption data for 1978 through 1982 are used to compute State prices when only regional data are available. These calculations are described step-by-step below.

1. Annual State physical unit prices are generally available from the *MER* for the same 24 States covered by the *PMA* in 1983 and forward. These 24 States compose all of Federal Regions 1, 2, 3, 5, and 10 (see Figure A2 on page 330). Prices for these States exclude taxes and are converted to dollars per gallon.
2. Of the States without *MER* prices, the 22 in Federal Regions 4, 7, 8, and 9 have annual prices estimated from the monthly Federal regional prices published in the *MER*. No regional prices are available for Federal Region 6 for the 1978 through 1982 period, and some monthly prices are missing in regions 7, 8, and 9 in 1980, 1981, and 1982.
 - a. Missing monthly prices for Federal regions are estimated with assigned prices as follows: the Region 9 November 1980 price is assigned to December 1980; an average of the Region 7 July

and October 1982 prices is assigned to August and September 1982; an average of Region 8 June and September 1982 prices is assigned to July and August 1982; and an average of Region 3 August and October 1982 prices is assigned to September 1982. Imputation of missing Region 6 prices for 1978 through 1982 and missing Region 9 prices for 1981 and 1982 is discussed later.

- b. The simple average of monthly State-level normal heating degree-day data is averaged for all the States within each of the 10 Federal regions and is used to estimate average Federal region heating degree-days. AK, DC, and HI are assigned the monthly heating degree-days from MN, MD, and FL, respectively.
- c. Weighted average annual physical unit distillate prices for the residential sector are calculated for Federal Regions 4, 7, 8, and 9 (except for Region 9 in 1981 and 1982) by using the regional normal heating degree-days and the monthly regional prices from the *MER*.
- d. In 1981, only March and May prices are available for Federal Region 9. To estimate the average annual price for this region, the relationship between the U.S. annual heating oil price (from the *MER*) and the U.S. March and May prices is expressed as a ratio and is used with the Region 9 March and May prices to estimate the 1981 annual Region 9 price.
- e. City-level prices from *Platt's* are assigned to States as shown in Table A13. The assigned State-level *Platt's* prices for States are consumption-weighted into Federal regions by using residential sector consumption data from SEDS.
- f. Adjustment factors, ratios of the regional *MER* distillate prices to the regional *Platt's*-based distillate prices, are calculated for Federal Regions 4, 7, 8, and 9 (except for 1982).
- g. Since there are no monthly regional distillate prices from the *MER* for Federal Region 6 for 1978 through 1982 and Federal Region 9 for 1982, the adjustment factors for these regions are based on the adjustment factors for previous time periods. The Region 6 adjustment factor for each of the years in the 1978

Table A13. Platt's Prices for No. 2 Fuel Assigned to States, 1970-1982

State	Years	Assigned City or State Prices	State	Years	Assigned City or State Prices
AK	1970-1976	Los Angeles/San Francisco, CA	NC	1970-1973	Greensboro/Wilmington/Charlotte/Salisbury/Selma
	1977, 1978	Portland, OR		1974-1975	Greensboro/Wilmington/Charlotte
	1979, 1980	Seattle, WA		1976-1982	Greensboro/Wilmington
	1981, 1982	Seattle-Tacoma/Spokane, WA	ND	1970-1982	Minneapolis-St. Paul, MN
AL	1970-1974	Birmingham/Mobile/Montgomery	NE	1970	Baton Rouge/New Orleans, LA
	1975-1977	Mobile/Birmingham		1971-1973	New Orleans, LA
	1978-1982	Birmingham		1974-1982	St. Louis, MO
AR	1970-1982	Arkansas	NH	1970-1982	Portland, ME
AZ	1970-1978	Los Angeles/San Francisco, CA	NJ	1970-1975	New York/Albany/Buffalo, NY
	1979-1982	Phoenix		1976-1982	New York/Albany, NY
CA	1970-1982	Los Angeles/San Francisco	NM	1970-1972	New Mexico-West Texas
CO	1970-1976	Minneapolis-St. Paul, MN		1973-1976	Los Angeles/San Francisco, CA
	1977-1982	Denver		1977-1980	Albuquerque
CT	1970-1982	New Haven		1981, 1982	Albuquerque/Farmington
DC	1970-1982	Baltimore, MD	NV	1970-1982	Los Angeles/San Francisco, CA
DE	1970-1982	Baltimore, MD	NY	1970-1975	New York/Albany/Buffalo
FL	1970-1972	Jacksonville/Miami/Tampa/Pensacola/Panama City/Port		1976-1982	New York/Albany
		Everglades	OH	1970-1972	Toledo/Cleveland/Zanesville/Columbus/Dayton
	1973	Miami/Tampa/Pensacola		1973-1982	Detroit, MI
	1974-1975, 1981-1982	Miami/Tampa	OK	1970-1982	Oklahoma (Group 3)
	1976-1980	Miami	OR	1970-1976	Los Angeles/San Francisco, CA
GA	1970-1973	Atlanta/Savannah/Albany/Athens/Eainbridge/Columbus/		1977-1982	Portland
		Macon	PA	1970-1978	Philadelphia
	1974-1982	Atlanta/Savannah		1979-1982	Philadelphia/Pittsburgh
HI	1970-1982	Los Angeles/San Francisco, CA	RI	1970-1975	Providence
IA	1970-1981	Chicago, IL		1976-1982	New Haven, CT
	1982	Des Moines	SC	1970-1975	Charleston/Spartanburg/Bellton
ID	1970-1976	Los Angeles/San Francisco, CA		1976-1982	Charleston/Spartanburg
	1977-1982	Portland, OR	SD	1970-1982	Minneapolis-St. Paul, MN
IL	1970-1982	Chicago	TN	1970-1973	Chattanooga
IN	1970-1982	Chicago, IL		1974-1982	New Orleans, LA
KS	1970-1973	Los Angeles/San Francisco, CA	TX	1970-1972	New Mexico-West Texas
	1974-1982	St. Louis, MO		1973-1978	New Orleans, LA
KY	1970	Baton Rouge/New Orleans, LA		1978, 1980	Houston
	1971-1982	New Orleans, LA		1981	Dallas-Fort Worth/Houston
LA	1970	Baton Rouge/New Orleans		1982	Amarillo/Corpus Christi/Dallas-Fort Worth/Houston
	1971-1982	New Orleans	UT	1970-1976	Minneapolis-St. Paul, MN
MA	1970-1982	Boston		1977-1982	Salt Lake City
MD	1970-1982	Baltimore	VA	1970-1973	Norfolk/Roanoke
ME	1970-1982	Portland		1974-1982	Norfolk
MI	1970-1982	Detroit	VT	1970-1982	Portland, ME
MN	1970-1982	Minneapolis-St. Paul	WA	1970-1976	Los Angeles/San Francisco, CA
MO	1970	Baton Rouge/New Orleans, LA		1977, 1979, 1980	Seattle
	1971-1973	New Orleans, LA		1978	Portland, OR
	1974-1982	St. Louis		1981-1982	Seattle-Tacoma/Spokane
MS	1970-1973	Greenville/Meridian	WI	1970-1982	Chicago, IL
	1974-1982	New Orleans, LA	WV	1970-1973	Norfolk/Roanoke, VA
MT	1970-1976	Minneapolis-St. Paul, MN		1974-1982	Norfolk, VA
	1977-1982	Billings	WY	1970-1976	Minneapolis-St. Paul, MN
				1977-1982	Cheyenne

through 1982 period is equal to 1.1313, which is the average of the adjustment factor for the West South Central Census Division for 1976 and 1977. The Region 9 adjustment factor for 1982 is equal to 1.1995, which is the average adjustment factor for Region 9 from 1978 through 1981.

- h. The residential sector distillate State prices for the 27 States in Federal Regions 4, 6, 7, 8, and 9 are calculated by multiplying the regional adjustment factors for each year and the State-level assigned *Platt's* prices.

Physical Unit Prices: 1975 Through 1977

For the years 1975 through 1977, no State-level data are available, and regional data from Form EIA-9A are available only at the Census division level, except for Federal region prices for November and December of 1977. Using a methodology similar to that described above for the allocation of regional data to States, adjustment factors are calculated at the regional level and applied to *Platt's* price data assigned to States. The resulting prices implicitly include average regional taxes but do not reflect individual State differences.

1. Monthly regional price data for 1975 and 1976 are reported in the *MER* only for Census divisions. In 1977, however, monthly price data are reported for Census divisions for January through October and for Federal regions for November and December. The Federal region prices for November and December are assigned to their respective States and reaggregated into Census divisions in order to create a consistent set of monthly Census division prices for 1977. Annual residential sector distillate consumption data from SEDS are used to do the reaggregation.
2. The Census division monthly price data from the *MER* for 1975, 1976, and the first 10 months of 1977 are used with the estimated Census division price data for November and December 1977 to estimate State-level prices.
 - a. Missing monthly prices in the East South Central Division for June and November 1975 and the Mountain Division for March and July 1975 are estimated by using an average of the prices for the month preceding and the month following the missing month. Missing November and December West South Central Division prices in 1977 are estimated with the assignment of the October price to both months. No monthly price data are available for the West South Central Division in 1975; step 2f. below discusses how the calculations are handled for this division.
 - b. The monthly State-level normal heating degree-day data are averaged for the States within each Census division to estimate regional monthly heating degree-days. AK, DC, and HI are assigned the monthly heating degree-days from MN, MD, and FL, respectively.
 - c. Weighted average annual distillate prices for Census divisions are calculated by using the monthly Census division price data from the *MER* and the normal heating degree-days estimated for Census divisions.
 - d. City-level No. 2 fuel oil refinery and terminal prices from *Platt's* for 1975 through 1977 are assigned to States as shown in Table A13. The assigned *Platt's* prices for States are consumption-weighted into Census divisions by using residential sector consumption data from SEDS.
 - e. Adjustment factors are calculated as the ratios of the *MER* distillate Census division prices to the *Platt's* distillate Census division prices.
 - f. Since there are no 1975 *MER* price data for the West South Central Division from which to calculate an adjustment factor, the 1975 adjustment factor for this region is assumed to be equal to the simple average of the West South Central adjustment factors for 1976 and 1977 (i.e., 1.1313).
 - g. The residential sector distillate State prices for all States are calculated by multiplying the regional adjustment factors for each year by the State-level assigned *Platt's* prices.

Physical Unit Prices: 1970 Through 1974

There are no regional or State-level distillate price data directly available for the 1970 through 1974 period. To estimate State prices, regional average prices are first derived from the relationship between U.S. prices and Federal region prices for 1975 through 1980. State prices are then estimated from the regional prices by using a methodology similar to that described for 1978 through 1982. The resulting prices implicitly include average regional taxes but do not reflect individual State differences.

1. The first step in the estimation of residential distillate prices for the 1970 through 1974 time period is to develop an equation that uses U.S. prices to estimate prices for Federal regions. Regression techniques are used for this purpose. U.S. prices for 1975 through 1980 from the *Annual Energy Review (AER)* are used as the independent variable for developing the equation; annual Federal region prices are used as the dependent variable. Federal region prices for 1978 through 1980 are calculated above, but *MER* prices for 1975 through 1977 are for Census divisions. To convert these annual Census division prices into Federal region prices, the estimated State prices for 1975 through 1977 are aggregated into Federal regions by using SEDS consumption data.
2. Regression techniques are applied to the pooled Federal region price data (dependent variable) and the U.S. prices from the *AER* (independent variable) for 1975 through 1980. U.S. prices for 1970 through 1974 are input to estimate annual Federal region prices for 1970 through 1974.
3. City-level prices from *Platt's* for 1970 through 1974 are assigned to States as shown in Table A13. The assigned State-level *Platt's* prices are consumption-weighted into Federal regions by using residential sector distillate consumption data from SEDS.
4. Adjustment factors, which are ratios of the regional *MER* distillate Federal region prices to the *Platt's*-based distillate Federal region prices, are calculated.

5. The residential sector distillate prices for all States are calculated by multiplying the regional adjustment factors for each year by the State-level assigned *Platt's* prices.

Btu Prices: All Years

Btu prices for States are calculated by converting the physical unit prices from dollars per gallon to dollars per barrel (42 gallons per barrel) and then to dollars per million Btu (5.825 million Btu per barrel). U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Data Sources**Prices**

1983 forward: Energy Information Administration (EIA), *Petroleum Marketing Annual 1985*, Volume 1, Table 25 (1983-1985) and annual issues of the *Petroleum Marketing Annual*, Table 36 (1986-1988), Table 38 (1989-1993), and Table 39 (1994), column titled "To Residential Consumers." Also available on the EIA *Energy InfoDisc*, Volume 1, No. 4, November 1996. See box on page 403 for instructions for locating the data series on the *InfoDisc*.

1983-1990, 1992 forward: American Gas Association, *Residential Natural Gas Market Survey* (1989, 1990, 1992 forward), and *Gas Househeating Survey* (1983-1988), Appendix 2, "Competitive Fuel Prices," column titled "Fuel Oil."

1970-1982: McGraw-Hill, Inc., *Platt's Oil Price Handbook and Oilmanac*, refinery and terminal prices for No. 2 fuel oil, average of highs and lows.

1975-1982: National Oceanic and Atmospheric Administration, U.S. Department of Commerce, *State, Regional, and National Monthly and Seasonal Heating Degree-Days Weighted by Population (1980 Census)*, Historical Climatology Series 5-1, table titled "1951-80 State Pop. Wgt'd Heating Degree-Days."

1975-1982: Energy Information Administration, *Monthly Energy Review*, table titled "Residential Heating Oil Prices by Region," February 1978, page 67 (1975, 1976); April 1980, page 83 (1977, 1978); July 1982, page 87 (1979-1982).

1970-1982: Energy Information Administration, *Annual Energy Review 1988*, Table 67, "Motor Gasoline and Residential Heating Oil Prices, 1949-1988."

Taxes

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism*, Tables 14 and 26.

1993: Bureau of the Census, U.S. Department of Commerce, *State Tax Review*, Volume 54, No. 31, map titled "State Gasoline, Sales and Cigarette Tax Rates as of July 1, 1993."

1983-1992: Bureau of the Census, U.S. Department of Commerce, *State Government Tax Collections*, table titled "State Government Excises on General Sales, Motor Fuel, and Cigarettes, Beginning and End of Fiscal Year."

Consumption

1970 forward: Energy Information Administration, State Energy Data System, residential sector distillate consumption.

Conversion Factor: All years

5.825 million Btu per barrel

Commercial Sector

Commercial sector distillate prices are estimated by using several different data sources and estimation methodologies, depending on the years involved. For 1983 forward, retail prices paid by commercial/institutional establishments (excluding taxes) for No. 2 distillate fuel are taken from the Energy Information Administration's *Petroleum Marketing An-*

nual (PMA). State general sales taxes from the Bureau of the Census and successor sources are added. For 1970 through 1982, commercial distillate prices are based on refinery and terminal (wholesale) prices from *Platt's* and markups from *Energy Prices: 1960-73* that include taxes. For both time periods, physical unit prices are calculated from the data sources, and Btu prices are computed by using the physical unit prices and the conversion factor.

Physical Unit Prices: 1983 Forward

Physical unit No. 2 distillate prices in cents per gallon (excluding taxes) are generally available for 24 States from the *PMA*. State-level prices for the remaining 27 States are estimated by using the *PMA* Petroleum Administration for Defense (PAD) district prices as shown in Table A14. State general sales taxes are then added.

Physical Unit Prices: 1970 Through 1982

Commercial sector distillate physical unit prices for 1970 through 1982 are calculated by using *Platt's* prices assigned to States and commercial sector markups estimated from *Energy Prices: 1960-73*. The resulting estimates implicitly include State-specific taxes.

1. The first step is to compute the markups. *Energy Prices* contains single price estimates for small commercial users and two price estimates for large commercial users for 10 cities: Boston, MA; Albany, NY; New York, NY; Charlotte, NC; Washington, DC; Chicago, IL; Detroit MI; Minneapolis/St. Paul, MN; St. Louis, MO; and Seattle, WA. First, a simple average of the two large commercial prices is calculated for each city except for Albany and New York. In this case, all four large commercial prices are averaged together, since cities are assigned to their respective States.
2. For the nine States covered by the *Energy Prices* data (noted in step 1), the markup of the reported prices from *Energy Prices* over the assigned *Platt's* prices (Table A13 on page 352) and the markup of the residential prices calculated above for 1970 through 1972 over the *Platt's* prices is calculated.

Table A14. Distillate Commercial Sector Price Assignments, 1983 Forward

State	Years	Prices Assigned
AL	1983-1994	PAD District III
AR	1983-1994	PAD District III
AZ	1983-1994	PAD District V
CA	1983-1994	PAD District V
CO	1983-1994	PAD District IV
FL	1983-1994	PAD District IC
GA	1983-1994	PAD District IC
HI	1983-1994	PAD District V
IA	1983-1994	PAD District II
KS	1983-1994	PAD District II
KY	1983-1994	PAD District II
LA	1983-1994	PAD District III
MO	1983-1994	PAD District II
MS	1983-1994	PAD District III
MT	1983-1994	PAD District IV
NC	1983-1994	PAD District IC
ND	1983-1994	PAD District II
NE	1983-1994	PAD District II
NM	1983-1994	PAD District III
NV	1983-1994	PAD District V
OK	1983-1994	PAD District II
SC	1983-1994	PAD District IC
SD	1983-1994	PAD District II
TN	1983-1994	PAD District II
TX	1983-1994	PAD District III
UT	1983-1994	PAD District IV
WY	1983-1994	PAD District IV

3. At this point, residential and commercial sector retail markups have been computed for nine States for each of the years 1970 through 1972. The next step is to calculate the average retail markup for the 3-year period for each sector. A simple average of the markup ratios is calculated.
4. The average commercial and residential sector retail markups for the nine available States are assigned as shown in Table A15.
5. To translate the average commercial and residential markups for 1970 through 1972 into the estimated commercial sector retail

Table A15. Distillate Fuel Commercial Sector Average Retail Markup Price Assignments, 1970-1972

State	City Price Assignments
AK	Seattle, WA
AL	Charlotte, NC
AR	St. Louis, MO
AZ	Seattle, WA
CA	Seattle, WA
CO	Minneapolis-St. Paul, MN
CT	Boston, MA
DC	Washington, DC
DE	Washington, DC
FL	Charlotte, NC
GA	Charlotte, NC
HI	Seattle, WA
IA	St. Louis, MO
ID	Seattle, WA
IL	Chicago, IL
IN	Chicago, IL
KS	St. Louis, MO
KY	Chicago, IL
LA	St. Louis, MO
MA	Boston, MA
MD	Washington, DC
ME	Boston, MA
MI	Detroit, MI
MN	Minneapolis-St. Paul, MN
MO	St. Louis, MO
MS	Charlotte, NC
MT	Minneapolis-St. Paul, MN
NC	Charlotte, NC
ND	Minneapolis-St. Paul, MN
NE	St. Louis, MO
NH	Boston, MA
NJ	Albany and New York, NY
NM	Seattle, WA
NV	Seattle, WA
NY	Albany and New York, NY
OH	Detroit, MI
OK	St. Louis, MO
OR	Seattle, WA
PA	Albany and New York, NY
RI	Boston, MA
SC	Charlotte, NC
SD	Minneapolis-St. Paul, MN
TN	Chicago, IL
TX	St. Louis, MO
UT	Minneapolis-St. Paul, MN
VA	Washington, DC
VT	Boston, MA
WA	Seattle, WA
WI	Chicago, IL
WV	Washington, DC
WY	Minneapolis-St. Paul, MN

markups to be used for 1970 through 1982, the relationship between these two markups is used, with the residential markups calculated for all States for each year. The calculation of the residential markups follows the same procedure used in step 2. above.

6. The commercial sector adjustment factors for each State for each of the years 1970 through 1982 are multiplied by the corresponding *Platt's* prices for 1970 through 1982 to calculate the final commercial sector physical unit prices.

Btu Prices: All Years

Btu prices for States are calculated by converting the physical unit prices from cents to dollars per gallon, then to dollars per barrel (42 gallons per barrel) and, finally, to dollars per million Btu (5.825 million Btu per barrel). U.S. prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Data Sources

Prices

1983 forward: Energy Information Administration (EIA), *Energy InfoDisc*, Volume 1, No. 4, November 1996. See box on page 403 for instructions for locating the data series on the *InfoDisc*. Data are also published in the EIA *Petroleum Marketing Annual 1985, Volume 1*, Table 25 (1983-1985) and annual issues of the *Petroleum Marketing Annual*, Table 36 (1986-1988), Table 38 (1989-1993), and Table 39 (1994), column titled "To Commercial/Institutional Consumers."

1970-1982: McGraw-Hill, Inc., *Platt's Oil Price Handbook and Oilmanac*, refinery and terminal prices for No. 2 fuel oil, average of highs and lows.

1970-1982: Foster Associates, Inc., 1974, *Energy Prices 1960-73*, Tables 4-c and 5-b.

Taxes

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism*, Tables 14 and 26.

1993: Bureau of the Census, U.S. Department of Commerce, *State Tax Review*, Volume 54, No. 31, map titled "State Gasoline, Sales and Cigarette Tax Rates as of July 1, 1993."

1983-1992: Bureau of the Census, U.S. Department of Commerce, State Government Tax Collections, table titled "State Government Excises on General Sales, Motor Fuel, and Cigarettes, Beginning and End of Fiscal Year."

Consumption

1970 forward: Energy Information Administration, State Energy Data System, commercial sector distillate consumption.

Conversion Factor: All Years

5.825 million Btu per barrel

Electric Utility Sector

The electric utility price for distillate fuel is the average delivered cost of No. 2 fuel oil receipts at electric utilities. (See **Light Oil (Electric Utilities)** on page 369.) For 1973 forward, these prices are taken from *Cost and Quality of Fuels for Electric Utility Plants*; for 1970 through 1972, prices from the *Statistical Yearbook of the Electric Utility Industry* are used with regression analysis. Btu prices are developed directly from the data sources and include all applicable taxes.

Prices: 1973 Forward

Btu prices for the years 1973 forward are based on the Btu prices reported in *Cost and Quality of Fuels (C&Q)*. For 1973, 1974, and 1980 forward, Btu prices are taken directly from the data source and are

converted from cents per million Btu to dollars per million Btu. For 1975 through 1979, consumption-weighted average Btu prices are calculated from prices and consumption reported separately for steam-electric plants and for combustion turbine and internal combustion units. Wherever individual State prices are unavailable, quantity-weighted Census division prices from C&Q are assigned as shown in Table A16.

The C&Q does not have prices for AK in 1973 forward or HI in 1973 through 1982 and 1992 forward. Prices are estimated by calculating the ratio of the AK or HI prices from the *Statistical Yearbook* to the *Statistical Yearbook* U.S. price and multiplying the ratio by the C&Q U.S. price for each year. AK prices for 1973, 1975, 1978, and 1994 are not published in the *Statistical Yearbook* and are estimated by calculating an average of the ratios of the AK to U.S. *Statistical Yearbook* prices in adjacent years. The 1973 estimated price is based on the average ratio for 1972 and 1974, the 1975 price is based on the average ratio for 1974 and 1976, the 1978 price is based on the average ratio for 1977 and 1979, and the 1994 price is based on the ratio for 1993. The average ratio is then applied to the U.S. C&Q price for the missing year.

Table A16. Distillate Electric Utility Census Division Price Assignments from C&Q, 1973 Forward

State	Years	Census Division
CA	1989-1995, 1987, 1988, 1990-1992	Pacific
CT	1973	New England
DC	1973	South Atlantic
DE	1973	South Atlantic
ID	1973, 1974, 1976, 1980-1994	Mountain
MD	1973	South Atlantic
ME	1973, 1974	New England
MT	1973-1975, 1977, 1983	Mountain
NH	1973, 1974	New England
NJ	1973, 1974	Mid-Atlantic
OR	1987, 1988	Pacific
RI	1976-1994	New England
SD	1973, 1974, 1992, 1994	W. North Central
TN	1973	E. South Central
VT	1973, 1974, 1978, 1983-1992	New England
WA	1973-1977	Pacific
WV	1973	South Atlantic
WY	1973	Mountain

U.S. Btu prices for all years are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Prices: 1970 Through 1972

Btu prices for 1970 through 1972 are estimated by using data from *Statistical Yearbook of the Electric Utility Industry*. U.S. prices are then computed by using the State-level prices and the electric utility distillate consumption data from SEDS.

1. Regression techniques are used to arrive at the equation for estimating electric utility sector distillate prices for the 1970 through 1972 period. AL is treated as the reference State. The regression equation uses *Statistical Yearbook* State-level prices for 1974 through 1980 as the independent variable and the State-level prices calculated above for 1974 through 1980 as the dependent variable. Substituting Btu prices for 1970 through 1972 from the *Statistical Yearbook* into the regression equation yields the estimated electric utility sector State-level distillate prices.
2. Wherever individual State prices are unavailable, quantity-weighted Census division prices are assigned as follows: ID in 1970 through 1972; TN in 1970; and WA in 1970 and 1971. AK in 1971 is calculated as the average of the AK price in 1970 and 1972.
3. U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Data Sources

Prices

1973 forward: Energy Information Administration, *Cost and Quality of Fuels for Electric Utility Plants*, Table 6 (1973, 1974); Tables 5, 6, 12, 13 (1975-1979); Table 45 (1980-1982); Table 51 (1983, 1984); Table 41 (1985-1989); Table 14 (1990, 1991); and Table 8 (1992 forward).

1970 forward: Edison Electric Institute, *Statistical Yearbook of the Electric Utility Industry*, table titled, "Analysis of Fuel for Electric

Generation-Total Electric Utility Industry," (1970-1988); table titled, "Fossil Fuels Used for Electric Generation Total Electric Utility Industry," (1990-1993); and Table 29 titled "Receipts and Average Delivered Cost of Fossil Fuels Total Electric Utility Industry," (1994).

Consumption

1970 forward: Energy Information Administration, State Energy Data System, electric utility sector distillate consumption.

Conversion Factors

Btu prices are calculated directly from data sources; no explicit conversion factors are needed for any years for the electric utility sector.

Industrial Sector

The industrial sector distillate prices are developed by using a variety of data sources and several estimation methods, depending on the years involved. For 1983 forward, prices of No. 2 distillate fuel (excluding taxes) are reported by the *Petroleum Marketing Annual (PMA)*. State general sales taxes from the Bureau of the Census and successor sources are added. For 1970 through 1982, prices are the average cost of distillate to manufacturing firms and implicitly include taxes that reflect individual State differences.

Physical Unit Prices: 1983 Forward

Physical unit distillate prices in cents per gallon (excluding taxes) are generally available for 24 States from the *PMA*. State-level prices for the remaining 27 States are estimated by using the *PMA* Petroleum Administration for Defense (PAD) district prices, as shown in Table A17. State general sales taxes are then added.

Physical Unit Prices: 1982

In 1984, the Bureau of the Census announced that State-level fuel cost and quantity information would no longer be published in either the *Annual Survey of Manufactures (ASM)* or *Census of Manufactures (CM)*. In addition, the *PMA*, the source for 1983 forward industrial sector distillate price data, did not contain 1982 prices. Because of this lack of price data, the 1982 industrial sector distillate prices are estimated on

Table A17. Distillate Industrial Sector PADD Price Assignments, 1983 Forward

State	Years	Prices Assigned
AL	1983-1994	PAD District III
AR	1983-1994	PAD District III
AZ	1983-1994	PAD District V
CA	1983-1994	PAD District V
CO	1983-1994	PAD District IV
DC	1994	PAD District IB
FL	1983-1994	PAD District IC
GA	1983-1994	PAD District IC
HI	1983-1994	PAD District V
IA	1983-1994	PAD District II
KS	1983-1994	PAD District II
KY	1983-1994	PAD District II
LA	1983-1994	PAD District III
MO	1983-1994	PAD District II
MS	1983-1994	PAD District III
MT	1983-1994	PAD District IV
NC	1983-1994	PAD District IC
ND	1983-1994	PAD District II
NE	1983-1994	PAD District II
NM	1983-1994	PAD District III
NV	1983-1994	PAD District V
NY	1987	PAD District IB
OH	1983	PAD District II
OK	1983-1994	PAD District II
SC	1983-1994	PAD District IC
SD	1983-1994	PAD District II
TN	1983-1994	PAD District II
TX	1983-1994	PAD District III
UT	1983-1994	PAD District IV
WY	1983-1994	PAD District IV

the basis of the relationship of industrial sector prices to electric utility sector prices for 1978 through 1981. The 1983 prices are not used in the estimation because they exclude taxes, while the 1978 through 1981 prices include taxes.

1. In order to calculate the average ratios of industrial-to-electric utility distillate prices, electric utility price assignments are made for: AK in 1978 through 1982 from WA; ID in 1979 through 1982 from MT; RI in 1978 through 1982 from CT; and VT in 1978 from ME.
2. The average 1978 through 1981 ratios of industrial-to-electric utility sector distillate prices are calculated for each State.
3. Prices for 1982 are estimated by multiplying the average ratios by the electric utility data for 1982.

Physical Unit Prices: 1971, 1974 Through 1981

For the years 1971 and 1974 through 1981, industrial sector distillate prices are calculated directly from cost and quantity data from the *Annual Survey of Manufactures (ASM)* or *Census of Manufactures (CM)* for all States where data are available. Taxes are included in the prices. There are no missing prices for 1971. Six States are missing some *ASM* cost and quantity data for the 1974 through 1981 period. Cost and quantity data for these States are estimated as the simple average of the cost and quantity data for their adjacent States. The States, the years for which data are estimated, and the adjacent States used to make the estimation are shown in Table A18.

Physical Unit Prices: 1970, 1972, 1973

Since *ASM* and *CM* data are not available for these years, the prices must be estimated. Physical unit prices are based on the ratio of 1971 *CM* prices to the 1971-assigned *Platt's* prices (Table A13 on page 352). The resulting ratios for each State are used with the *Platt's* assigned prices for 1970, 1972, and 1973 to impute prices.

1. The first step is to calculate State-level ratios between prices calculated from the 1971 *CM* cost and quantity data and the 1971

Table A18. Distillate Industrial Sector Price Assignments, 1974-1981

State	Years	State Prices Used
HI	1970-1981	CA
ND	1979-1981	MN, MT, SD
NM	1974-1979	AZ, CO, TX
NV	1974-1981	AZ, CA, ID, OR, UT
OK	1974-1978	AR, CO, KS, MO, TX
WY	1974-1981	CO, ID, MT, NE, SD, UT

assigned *Platt's* prices. There are no missing States in either of these two sets of prices.

2. State-level physical unit prices for 1970, 1972, and 1973 are estimated by multiplying the 1971 ratio by the assigned State-level *Platt's* prices for each respective year.

Btu Prices: All Years

Btu prices for States are calculated by converting the physical unit prices from cents to dollars per gallon, then to dollars per barrel (42 gallons per barrel) and, finally, to dollars per million Btu (5.825 million Btu per barrel). U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS, adjusted for process fuel consumption.

Data Sources

Prices

1983 forward: Energy Information Administration (EIA), *Energy InfoDisc*, Volume 1, No. 4, November 1996. See box on page 403 for instructions for locating the data series on the *InfoDisc*. Data are also published in the EIA *Petroleum Marketing Annual 1985, Volume 1*, Table 25 (1983-1985, and annual issues of the *Petroleum Marketing Annual*, Table 36 (1986-1988), Table 38 (1989-1993), and Table 39 (1994), column titled "To Industrial Consumers."

1970-1982: McGraw-Hill, Inc., *Platt's Oil Price Handbook and Oilmanac*, refinery and terminal prices for No. 2 fuel oil, average of highs and lows.

1971, 1977, and 1981: Bureau of the Census, U.S. Department of Commerce, *Census of Manufactures*, Table 4 (1971) and Table 3 (1977, 1981).

1974-1976 and 1978-1980: Bureau of the Census, U.S. Department of Commerce, *Annual Survey of Manufactures*, Table 3.

Taxes

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism*, Tables 14 and 26.

1993: Bureau of the Census, U.S. Department of Commerce, *State Tax Review*, Volume 54, No. 31, map titled "State Gasoline, Sales and Cigarette Tax Rates as of July 1, 1993."

1983-1992: Bureau of the Census, U.S. Department of Commerce, *State Government Tax Collections*, table titled "State Government Excises on General Sales, Motor Fuel, and Cigarettes, Beginning and End of Fiscal Year."

Consumption

1970 forward: Energy Information Administration, State Energy Data System, industrial sector distillate consumption.

Conversion Factor: All Years

5.825 million Btu per barrel

Transportation Sector

Consumption of distillate fuel in the transportation sector includes distillate fuel used for vessel bunkering and for military and railroad use, plus on-highway diesel fuel use. Because on-highway diesel fuel use

accounts for the largest portion of this sector—increasing from 55 percent in 1970 to 81 percent in 1994—prices and expenditures are calculated by using diesel prices. State physical unit prices for 1986 forward are taken from EIA's *Petroleum Marketing Annual (PMA)*. Physical unit prices for earlier years are calculated by using *PMA* prices and consumption data from the U.S. Department of Transportation *Highway Statistics* to weight monthly or quarterly prices from the U.S. Department of Agriculture *Agricultural Prices* into annual prices. Btu prices for all years are calculated by using the physical unit prices and the distillate conversion factor.

Physical Unit Prices: 1986 Forward

Diesel fuel physical unit prices for 1986 forward are based on the annual State-level price data available from the *PMA* for approximately 24 States and monthly tax rate information from *Highway Statistics*. Generally, the *PMA* provides prices in cents per gallon, excluding taxes, for AK, CT, DC, DE, ID, IL, IN, MA, MD, ME, MI, MN, NH, NJ, NY, OH, OR, PA, RI, VA, VT, WA, WI, and WV. State and Federal excise taxes on diesel fuel are added to *PMA* prices to derive final physical unit prices, which are converted to dollars per gallon. In cases where the tax rate is not constant throughout the year, an annual average tax is calculated on the basis of the number of months each rate was in effect. State and local sales and other general taxes are not included.

For the remaining States for which no prices are published, the *PMA* PAD district prices for diesel fuel and motor gasoline and State motor gasoline prices are used. The State diesel fuel price is estimated as the ratio of the PAD district diesel fuel price to the PAD district motor gasoline price times the State motor gasoline price. The use of the ratio assumes that the relationship between the motor gasoline State and PAD district prices is similar to that of the diesel fuel State and PAD district prices. Motor gasoline prices to end users at all refiners' company outlets are used. When a State has no price available in that data series, the motor gasoline price to end users by all types of sellers through company outlets is used. States with no published diesel fuel or motor gasoline prices are assigned the motor gasoline price of an adjacent State. For 1991 forward, DC is assigned the MD price. State and Federal excise taxes are added as described above.

Physical Unit Prices: 1983 Through 1985

Diesel fuel physical unit prices for 1983 through 1985 are based on the annual State-level price data available from the *PMA* and monthly State and Federal tax rate information from *Highway Statistics* for 24 States. The prices for the remaining 27 States are calculated by using *Agricultural Prices* as outlined in the 1977 through 1982 methodology.

For the 24 States of AK, CT, DC, DE, ID, IL, IN, MA, MD, ME, MI, MN, NH, NJ, NY, OH, OR, PA, RI, VA, VT, WA, WI, and WV, the *PMA* provides physical unit prices, excluding taxes. In 1983 through 1985, the DC price is missing, and the MD price is assigned. In 1983, RI has no price and the PAD District IA average is assigned. A simple average of monthly State and Federal excise taxes is calculated as a combined average tax and added to the *PMA* price for a final physical unit price. State and local sales and other general taxes are not included.

Physical Unit Prices: 1977 Through 1982

Monthly prices from *Agricultural Prices* and monthly special fuels consumption data from *Highway Statistics* are collected for the States. MD prices are assigned to DC. Prices include State and local per-gallon taxes. Federal taxes and State and local sales and other general taxes are not included.

The volume-weighted annual diesel physical unit prices for States and the United States are calculated by using the monthly *Agricultural Prices* price data, weighted by the monthly *Highway Statistics* consumption data. AK/1977 through 1982 prices are estimated on the basis of the assumption that the ratio of AK-to-U.S. diesel fuel price is the same as the ratio of the AK-to-U.S. motor gasoline price each year.

Physical Unit Prices: 1970 Through 1976

Quarterly prices from *Agricultural Prices* and monthly special fuels consumption data from *Highway Statistics* are collected for the States. Prices include State and local per-gallon taxes. Federal taxes and State and local sales taxes and other general taxes are not included.

1. Prices for 1970 through 1972 are reported in cents per gallon and must be converted to dollars per gallon. Prices for 1973 through 1976 are already reported in dollars per gallon.
2. For 1971 through 1973, State-level prices are not available for CT, MA, ME, NH, RI, and VT. Each is assigned the New England price for the 3 years.
3. The third quarter DE price is assigned to the missing fourth quarter DE price in 1972.
4. The combined MD/DE prices reported in 1973 are assigned to each of the States.
5. For 1970 through 1976, MD (or MD/DE) prices are assigned to DC.

The monthly special fuels consumption for 1970 through 1976 are converted into quarterly consumption by summing the months for each quarter.

The consumption-weighted annual diesel physical unit prices for the States are calculated by using the quarterly weights and quarterly prices. For 1970 through 1972, the quarterly prices from *Agriculture Prices* are converted from cents per gallon to dollars per gallon. For 1973 forward, the prices are already in dollars per gallon in the source. AK/1970 through 1976 prices are estimated on the basis of the assumption that the ratio of AK-to-U.S. diesel fuel price is the same as the ratio of AK-to-U.S. motor gasoline price each year.

Btu Prices: All Years

Btu prices for States are calculated by converting the physical unit prices from cents per gallon to dollars per barrel (42 gallons per barrel) and then to dollars per million Btu (5.825 million Btu per barrel). U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption from SEDS.

Data Sources**Prices**

1986 forward: Energy Information Administration, *Petroleum Marketing Annual*, Table 36 (1986-1988), Table 38 (1989-1993), column titled "Sales to End Users, Through Company-Operated Retail Outlets," and Table 39 (1994), column titled "Sales to End Users-Through Retail Outlets," for diesel fuel prices.

1986 forward: Energy Information Administration, *Petroleum Marketing Annual*, Table 29 (1986-1988) and Table 30 (1989-1993), column titled "All Refiners, Sales to End Users, Through Company Outlets," and Table 35 (1994), column titled "All Grades, Sales to End Users, Through Retail Outlets," for motor gasoline prices.

1986 forward: Energy Information Administration, *Petroleum Marketing Annual*, Table 28 (1986-1988) and Table 29 (1989 forward), column titled "Motor Gasoline Average, Through Company Outlets," and Table 31 (1994), column titled "All Grades, Sales to End Users, Through Retail Outlets," for additional motor gasoline prices.

1983-1985: Energy Information Administration, *Petroleum Marketing Annual 1985*, Volume 1, Table 25, column titled "Sales to End Users, Sales Through Company-Operated Retail Outlets."

1970-1985: Crop Reporting Board, U.S. Department of Agriculture, *Agriculture Prices*, tables generally titled "Motor Supplies: Average Price Paid by Farmers for Motor Fuel" for 1970-1979, and "Diesel Fuel: Average Price Paid by States" for 1980-1985.

Taxes

1970 forward: Federal Highway Administration, U.S. Department of Transportation, *Highway Statistics*, Table MF-121T for State tax rates, Table FE-101 (also EIA, *Petroleum Marketing Annual*, Table EN1) for Federal tax rates, and Table MF-25 for special fuels consumption data. Table MF-25 is not included in the 1976 volume but is publicly available directly from the Federal Highway Administration.

Consumption

1970 forward: Energy Information Administration, State Energy Data System, transportation sector distillate consumption.

Conversion Factor: All Years

5.825 million Btu per barrel

For all years, the price of heavy oil consumed at electric utilities is the average cost of No. 6 fuel oil (residual fuel oil) as reported in *Cost and Quality of Fuels for Electric Utility Plants*. (See *Residual Fuel Electric Utility Sector* on page 388.)

Jet fuel prices are estimated for all years for the transportation sector and for 1972 through 1982 for the electric utility sector. After 1982, electric utility use of jet fuel is reported as light oil. (See *Light Oil (Electric Utilities)* on page 369.)

Transportation Sector

Consumption estimates from SEDS are developed for two types of jet fuel: kerosene-type (used primarily by commercial aircraft and accounting for 97 percent of all jet fuel in 1994) and naphtha-type (used primarily by military aircraft and accounting for the remaining 3 percent in 1994). Prices are developed for kerosene-type jet fuel and are used

as the price for both types of jet fuel. Taxes are not included in the prices.

Physical Unit Prices: 1983 Forward

Transportation sector jet fuel prices for 1983 forward are based on data from EIA's *Petroleum Marketing Annual (PMA)*. Annual prices to end users are available for all States in most cases. Prices are converted to dollars per gallon. States without prices are assigned adjacent State or PAD subdistrict prices as shown in Table A19.

Physical Unit Prices: 1976 Through 1982

State-level jet fuel prices for 1976 through 1982 are calculated from the *Producer Prices and Price Indexes (PPI)* monthly indices for Census divisions and the jet fuel base prices by State for July 1975. The monthly price for each Census division is equal to the *PPI* monthly index times the jet fuel base price for July 1975 for that Census division. Census division monthly prices are assigned to each State within the Census division, and annual jet fuel prices are computed as simple averages of the monthly State prices.

Physical Unit Prices: 1970 Through 1975

Jet fuel physical unit State-level prices for the 1970 through 1975 period are based on U.S. annual wholesale prices from the *PPI* and the relationship of these prices to wholesale kerosene prices reported in *Platt's*. The U.S. prices are converted to Census division prices, which are then assigned directly to States.

Preliminary U.S. jet fuel prices from the *PPI* for 1973 through 1980 are calculated by using the annual jet fuel price indices, the jet fuel U.S. base price for July 1975 (0.276 dollars per gallon) and the U.S. index for July 1975 (235.8). The index for 1973 is assumed to be equal to a simple average of the 11 available monthly indices.

The calculated preliminary U.S. jet fuel prices from the *PPI* are used as the dependent variable in a regression equation for 1973 through 1980, where the wholesale kerosene prices from *Platt's* are the independent

Table A19. Jet Fuel Transportation Sector Price Assignments, 1983 Forward

State	Years	PAD District or State Prices Assigned
DC	1983-1988, 1990, 1993	MD
DE	1987	PAD Subdistrict IB
ME	1985, 1990, 1991, 1993, 1994	PAD Subdistrict IA
NH	1987	PAD Subdistrict IA
RI	1983-1988	PAD Subdistrict IA
VT	1984-1988, 1991, 1992	PAD Subdistrict IA
WV	1993, 1994	PAD Subdistrict IC

variable. The regression equation is used to estimate U.S. annual jet fuel prices for 1970 through 1972.

Jet fuel prices for Census divisions are estimated by using the preliminary U.S. prices derived above for 1970 through 1975 (calculated directly from the *PPI* data for 1973 through 1975 and estimated for 1970 through 1972). These prices are used as inputs to a regression equation which establishes a linear relationship between preliminary U.S. prices and Census division prices for the years 1970 through 1975. Census division prices are assigned to each State within the Census division.

Btu Prices: All Years

Btu prices for States are calculated from the physical unit prices and the Btu conversion factor. U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Data Sources

Prices

1985 forward: Energy Information Administration (EIA), *Petroleum Marketing Annual*, Table 21, column titled "Kerosene-Type Jet Fuel" (1985), Table 33, column titled "Kerosene-Type Jet Fuel, Sales to End Users," (1986-1988), Table 35 (1989-1993), and Table 36 (1994).

1983, 1984: EIA, *Petroleum Marketing Annual 1994*, Table A2, column titled "Kerosene-Type Jet Fuel, Sales to End Users." Also available on the EIA, *Energy InfoDisc*, Volume 1, No. 4, November 1996. See box on page 403 for directions to locate the data series on the *InfoDisc*.

1973-1982: Bureau of Labor Statistics, U.S. Department of Labor, *Producer Prices and Price Indexes, Supplement*, table titled "Producer price indexes for refined petroleum products by region."

1970-1975: McGraw Hill, Inc., *Platt's Oil Price Handbook and Oilmanac*, 57th Edition, page 480.

Consumption

1970 forward: Energy Information Administration, State Energy Data System, transportation sector jet fuel consumption.

Conversion Factor: All Years

5.670 million Btu per barrel

Electric Utility Sector

Jet fuel electric utility consumption estimates are taken from SEDS for 1972 through 1982 only. For 1970 and 1971, no parallel series is available; and for the years after 1982, the series is a part of light oil. All applicable taxes are included in the prices.

Btu Prices: 1975 Through 1982

For the States that consumed kerosene-type jet fuel at electric utilities during these years, the Btu prices are taken directly from EIA's *Cost and Quality of Fuels for Electric Utility Plants (C&Q)*.

Btu Prices: 1972 Through 1974

Because C&Q prices are not available for 1972 through 1974, prices are estimated from C&Q prices for 1975 and 1976 and *Agricultural Prices* data for 1972 through 1976.

1. Simple annual averages of *Agricultural Prices* quarterly values are calculated for 1972 through 1976. New England Census Division prices are assigned to CT, MA, ME, NH, RI, and VT.
2. The average annual prices based on *Agricultural Prices* values for 1975 and 1976 are used as the independent variables in a regression where the dependent variables are State-level prices based on C&Q prices for 1975 and 1976.
3. State-level price estimates for 1972 through 1974 are derived from the results of the regression analysis and the *Agricultural Prices* values for 1972 through 1974.

U.S. Btu Prices: All Years

U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Data Sources

Prices

1975-1982: Energy Information Administration, *Cost and Quality of Fuels for Electric Utility Plants*, Tables 6 and 13 (1975), Table 13 (1976-1979), and Table 47 (1980-1982).

1972-1976: Crop Reporting Board, U.S. Department of Agriculture, *Agriculture Prices*, table titled "Household Supplies: Average Prices Paid by Farmers for Lawn Mowers and Petroleum Products."

Consumption

1972-1982: Energy Information Administration, State Energy Data System, electric utility sector kerosene-type jet fuel consumption.

Conversion Factors: All Years

Because Btu prices are available directly from the data sources, no conversion factors are used.

Kerosene prices are developed for the residential and industrial sectors, and the industrial sector prices are assigned to the commercial sector. Estimates of the amount of kerosene consumed by the residential, commercial, and industrial sectors are taken from the State Energy Data System (SEDS).

Residential Sector

Physical Unit Prices: 1985 Forward

In July 1985, the Bureau of Labor Statistics ceased publication of the *Producer Prices and Price Indexes (PPI)* data series that is used to estimate State Energy Price and Expenditure Data System residential kerosene prices for 1970 through 1984. The method used to estimate residential kerosene prices for 1985 forward is based on the observation that average U.S. kerosene and distillate fuel prices from 1980 through 1984 were highly correlated. Residential kerosene prices for 1985 forward are estimated by applying the percentage changes in residential distillate fuel prices for each year to the residential kerosene prices for the previous year in each State. Taxes are included in the distillate fuel oil prices and are, therefore, reflected in the kerosene price estimates.

Physical Unit Prices: 1977 Through 1984

Because *Agricultural Prices* kerosene price data are not available after 1976, monthly Census division *PPI* prices and price indices are used as the basis for the residential kerosene series from 1977 through 1984. To maintain consistency in the series, the *PPI* prices are multiplied by an adjustment factor that accounts for the relationship between *PPI* and *Agricultural Prices* data for quarters in which the two series overlap. In the description of computational procedures below, the adjustment factor is derived first, the *PPI* prices for 1977 through 1984 are estimated, and the final kerosene physical unit and Btu prices for States are calculated. The final residential sector kerosene prices approximate the average prices paid by farmers. Taxes are included in the source data from *Agricultural Prices* and are, therefore, reflected in the final price estimates.

The first step is to compute the adjustment factor relating *PPI* and *Agricultural Prices* data.

1. Monthly *PPI* prices for the 18 months covered from July 1975 through December 1976 are calculated from the July 1975 base prices and monthly indices for Census divisions.
2. The calculated Census division monthly prices are assigned to each State within the respective Census division.
3. Volume-weighted quarterly *PPI*-based prices for States are calculated by using the monthly volume weights developed from *Retail Sales and Inventories* sales data for "other distillate fuel oil."
4. The adjustment factor relating *PPI* and *Agricultural Prices* data is calculated as the simple average of the ratios of the quarterly kerosene price by State from *Agricultural Prices* to the calculated quarterly *PPI*-based kerosene prices by State.

The next step is the calculation of monthly State-level prices from *PPI* kerosene Census division data for 1977 through 1984.

1. Monthly Census division *PPI* prices are calculated by using the July 1975 base prices and the monthly price indices for 1977 through

1984. The missing monthly indices for February, June, July, and October 1980 for the East South Central Division are assumed to be equal to the index for the preceding month.

2. Each State is assigned its respective Census division monthly prices.

The next step is the calculation of annual physical unit State prices.

1. Annual PPI-based physical unit prices for States are computed from the monthly PPI prices and the monthly consumption weights.
2. Final residential kerosene prices for States are estimated as the product of the annual PPI-based State price and the adjustment factor calculated above.

Physical Unit Prices: 1970 Through 1976

Physical unit prices for States are calculated from quarterly price data from the U.S. Department of Agriculture's *Agricultural Prices* and consumption weights derived from EIA's *Retail Sales and Inventories of Fuel Oil*. Taxes are included in the source data.

The quarterly physical unit price data from *Agricultural Prices* for 1970 through 1976 are published in several different forms. The first step in the calculation of prices for these years is to organize the published *Agricultural Prices* data into a consistent form.

1. For 1971 through 1973, no quarterly prices are available for CT, MA, ME, NH, RI, and VT. Each of these States is assigned the quarterly prices reported for the New England Census Division.
2. For 1973, combined MD/DE quarterly prices are reported instead of separate State prices. For this year, the combined prices are assigned to both States.
3. No prices are reported for AK, DC/1970 through 1976. Quarterly weighted Census division prices are assigned to AK, and MD prices are assigned to DC for all 7 years.

In order to weight the quarterly prices from *Agricultural Prices* into annual State prices, monthly quantity weights are calculated from *Retail Sales and Inventories of Fuel Oil*. This assumes that the "other distillate oil" consumption data by PAD districts is kerosene.

1. Monthly weights are computed by using simple averaging of all available "other distillate oil" sales data for each month for each PAD district. Since data are available from November 1978 to March 1981, some months have averages based on three data points while others are based on one or two data points. For example, the average weight for March is the simple average of the 1979, 1980, and 1981 March volumes published in *Retail Sales and Inventories of Fuel Oil*.
2. Each month's share of average annual sales is calculated by PAD district from the average monthly sales figures. These shares, which become the monthly weights, are then assigned to each State within its respective district.

Final State annual kerosene physical unit prices are calculated as the weighted average of the *Agricultural Prices* quarterly prices. The monthly weights (shares) are converted to quarterly weights by summing the shares for months within a particular quarter. These same weights are used with the State-level price data for each year from 1970 to 1976.

Alaska Btu Prices: 1970 Through 1979, 1983, 1984

Kerosene residential prices for AK are estimated on the basis of the assumption that the ratio of AK-to-U.S. kerosene residential prices is the same as the ratio of AK-to-U.S. distillate fuel residential prices.

Btu Prices: All Years

Btu prices for States are calculated from the physical unit prices and the conversion factor. U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Data Sources

Prices

1985 forward: Residential sector distillate fuel price estimates (in physical units) from the State Energy Price and Expenditure Data System.

1975-1984: Bureau of Labor Statistics, U.S. Department of Labor, *Producer Prices and Price Indexes, Supplement*, table titled "Producer price indexes for refined petroleum products by region."

1978-1981: Energy Information Administration, *Retail Sales and Inventories of Fuel Oil*, Table 2.

1970-1976: Crop Reporting Board, U.S. Department of Agriculture, *Agricultural Prices*, table titled "Household Supplies: Average Price Paid by Farmers for Lawn Mowers and Petroleum Products."

Consumption

1970 forward: Energy Information Administration, State Energy Data System, residential sector kerosene consumption.

Conversion Factor: All Years

5.670 million Btu per barrel

Commercial Sector

State prices from the industrial sector are assigned to the commercial sector. Although there is no industrial consumption of kerosene in DC in 1989, 1990, and 1992 through 1994, an industrial price is calculated to be assigned to the commercial sector consumption.

Industrial Sector

The industrial sector kerosene prices are based on wholesale price and price index data and on the industrial sector distillate prices. The procedures vary slightly for 1970 through 1974, 1975 through 1984, and 1985 forward. In 1970 through 1984, physical unit prices are calculated first; then Btu prices are computed by using the physical unit prices and the conversion factor. Prices approximate an average kerosene price for the manufacturing sector. Taxes are included in the distillate fuel oil prices and are, therefore, reflected in the kerosene price estimates.

Physical Unit Prices: 1985 Forward

The discontinuation of the Bureau of Labor Statistics' *Producer Prices and Price Indexes, Supplement* data affected the estimation of industrial sector kerosene prices. To estimate prices for 1985 forward, the percentage change in industrial sector distillate fuel prices for each year is applied to the industrial sector kerosene prices for the previous year on a State-by-State basis.

Physical Unit Prices: 1975 Through 1984

Physical unit industrial kerosene prices for 1975 through 1984 are estimated from *PPI* base prices and indices for kerosene and No. 2 distillate oil, and from the industrial sector distillate prices in physical units. The ratio of *PPI* kerosene prices to *PPI* distillate prices is used as an adjustment factor to estimate kerosene prices.

Annual wholesale prices are calculated from *PPI* annual indices for kerosene and No. 2 distillate fuel oil and their respective July 1975 base prices for Census divisions. Annual average distillate price indices for 1976 are estimated as the simple average of monthly indices. Census division prices for both kerosene and fuel oil No. 2 are assigned to each State within the respective Census divisions. The industrial sector physical unit kerosene prices for States are computed by using the distillate industrial physical unit prices and the ratio of *PPI* kerosene prices to *PPI* fuel oil No. 2 prices.

Physical Unit Prices: 1970 Through 1974

Physical unit State-level prices for 1970 through 1974 are estimated from the distillate industrial prices and the average ratio of kerosene to distillate prices from *PPI* for 1975 through 1978. The average annual wholesale price ratio between kerosene and fuel oil No. 2 (distillate) is calculated from *PPI*-based data for the years 1975 through 1978. State-level kerosene industrial physical unit prices are calculated as the product of the ratios and the industrial sector distillate prices for 1970 through 1974.

Btu Prices: All Years

Btu prices for States are computed by converting the physical unit prices in dollars per gallon to dollars per barrel (42 gallons per barrel) and then to dollars per million Btu (5.670 million Btu per barrel). U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Data Sources**Prices**

1970 forward: Industrial sector distillate fuel price estimates (in physical units) from the State Energy Price and Expenditure Data System.

1975-1985: Bureau of Labor Statistics, U.S. Department of Labor, *Producer Prices and Price Indexes, Supplement*, table titled "Producer price indexes for refined petroleum products by region."

Consumption

1970 forward: Energy Information Administration, State Energy Data System, industrial sector kerosene consumption.

Conversion Factor: All Years

5.670 million Btu per barrel

Light Oil Prices: 1970 Through 1974

Beginning with 1980, the price of light oil consumed at electric utilities is the average delivered cost of No. 2 fuel oil as reported in *Cost and Quality of Fuels for Electric Utility Plants*. For earlier years, the price is the consumption-weighted average of the kerosene-type jet fuel price and No. 2 fuel oil. (See also **Distillate Fuel Electric Utility Sector** on page 357 and **Jet Fuel Electric Utility Sector** on page 365.)

Liquefied Petroleum Gas (LPG) Prices: 1970 Through 1974

Liquefied petroleum gases (LPG) prices are developed for the residential, commercial, industrial, and transportation sectors. Estimates of the amount of LPG consumed by sector are taken from the State Energy Data System (SEDS) and are adjusted for process fuel and intermediate product consumption in the industrial sector. (See the discussion under "Consumption Adjustments for Calculating Expenditures" on page 413.)

Residential Sector

Residential sector LPG prices are estimated as the average prices of propane delivered to residential consumers in areas where natural gas is available as a competing fuel. Taxes are included in the prices. For 1973 forward, Btu prices are reported in the data source. For 1970 through 1972, physical unit prices are calculated first and Btu prices are calculated by using the physical unit prices and Btu conversion factors. Prices for AK and HI in all years are estimated by a different methodology described in a separate section on page 371.

Btu Prices: 1973 Through 1990, 1992 Forward

Propane prices by city are reported by the American Gas Association (AGA) directly in dollars per million Btu, including taxes. The simple average of available city prices is used as the State annual average.

Prices that fall outside a reasonable range are omitted from consideration for Central Hudson Gas and Electric for NY in 1979 through 1981; Arkansas Louisiana Gas for AR in 1989; Public Service Electric & Gas for NJ in 1989; Northwestern Public Service for SD in 1989; City of Long Beach for CA in 1989 and 1990; Orange & Rockland Utilities for NY in 1989 and 1990; Pike County Light & Power for PA in 1989 and 1990.

To estimate missing prices (other than AK and HI, which are described in a separate section that follows), simple averages of adjacent States' prices are used as shown in Table A20. Estimated data for one State are not used to estimate prices for another State.

Btu Prices: 1991

Propane prices from the American Gas Association (AGA) are not available for 1991. Propane prices from the EIA *Petroleum Marketing Annual (PMA)* are used to calculate the percentage change in propane prices between 1990 and 1991 for each PAD district or subdistrict. These percentages are applied to the 1990 State residential LPG prices from the State Energy Price and Expenditure Data System (SEPEDS) to estimate 1991 prices for the contiguous 48 States and the District of Columbia. Prices for LPG in AK and HI are developed by using the methodology described on page 371.

Prices for PAD Subdistricts IA and IB and PAD District V are not available for 1990 in the *PMA*, and prices for PAD Subdistrict IA and PAD District V for 1991 are not available. To estimate the missing PAD district prices, a ratio of the end-users price to the resale price for propane published for an adjacent district is calculated and applied to the known resale price for the PAD districts and subdistricts without an end-users price. For 1990, the PAD District I end-users-to-resale ratio is multiplied by the PAD Subdistricts IA and IB resale prices to estimate an end-users price for those Subdistricts. For 1991, the PAD Subdistrict IB end-users-to-resale ratio is multiplied by the PAD Subdistrict IA resale prices to estimate an end-users price. For both years, the U.S. end-users-to-resale price ratio is applied to the PAD District V resale price to estimate a PAD District V end-users price.

Table A20. LPG Residential Sector Price Assignments, 1973 Forward

State	Years	State Prices Used in the Estimation
AR	1977	MO, MS, OK, TN, TX
CT	1990	MA, NY, RI
DC	1973-1983, 1990	MD
DE	1976, 1984	MD, NJ, PA
ID	1977	MT, NV, OR, UT, WA, WY
LA	1977	MS, TX
ME	1973-1977, 1985, 1986, 1992, 1994	MA, NH, VT
MO	1986	IA, IL, KS
MT	1994	ID, SD, WY
ND	1973, 1994	MN, MT, SD
NM	1967, 1988	MN, SD
NV	1973, 1975	AZ, CO, UT
OR	1976	AZ, CA, ID, OR, UT, WY
SD	1986	CA, ID, NV, WA
UT	1974, 1978, 1985, 1983, 1994	MN, MT, ND
VT	1979	AZ, CO, ID, NV, WY
WV	1992	MA, NH, NY
		KY, MD, OH, PA, VA

Physical Unit Prices: 1971, 1972

Physical unit residential LPG prices are based on the city-level propane prices reported by AGA in cents per gallon. Prices for missing States are estimated. The AGA prices are the average delivered prices for propane purchased by residential consumers as of December 31.

1. City-level propane prices from AGA are assigned to their respective States. The AL/1971 price for the Phoenix City Utilities System is omitted because it falls outside a reasonable range.
2. Physical unit prices for a State are calculated directly from the available city/utility price observations reported by AGA. Final physical unit prices are equal to the simple average of the price observations for each State.

3. MD prices are assigned for missing DC prices. AK and HI prices are discussed in a separate section that follows.

Physical Unit Prices: 1970

Since AGA did not publish LPG prices prior to 1971, the residential sector LPG prices for 1970 are estimated. To maintain continuity with the AGA prices for 1971 forward, prices for 1970 are estimated by using simple regression analysis. The relationship between AGA data for 1971 and 1972 and corresponding *Agricultural Prices* data is the basis for the estimation.

1. Before regression analysis can be applied, *Agricultural Prices* data for 1970 through 1972 are prepared for 49 States (no AK or HI prices are available). These prices include taxes. Development of AK and HI prices are described in a separate section on page 371.
 - a. State-level prices for small purchases, representing residential end users, for 1970 through 1972 are published by *Agricultural Prices* in cents per pound. When price per pound data are not available, price per gallon data, representing larger volume purchases, are used. These prices per gallon are multiplied by 0.543, the average ratio of price per pound to price per gallon for the United States for 1970 through 1972, to create uniform input data in price per pound.
 - b. For 1971 and 1972, the price reported for the New England Region is assigned to CT, MA, ME, NH, RI, and VT.
 - c. Data in cents per pound are converted to dollars per gallon by multiplying by the propane conversion factor of 4.2 pounds per gallon, from the *Petroleum Products Handbook* and dividing by 100.
 - d. Missing prices use adjacent States' average prices as shown in Table A21.

2. The physical unit AGA prices and *Agricultural Prices* data for 1971 through 1972 (excluding AK and HI) are used with simple regression analysis to estimate final physical unit LPG residential prices.

Alaska and Hawaii Prices: All Years

Prices cannot be estimated for AK and HI by using adjacent State price assignments. Missing prices for these two States are estimated by computing ratios of the AK or HI prices to the simple average U.S. prices calculated from the AGA data for years when AK or HI prices are available and applying these ratios to the U.S. simple average prices in years when prices need to be estimated.

1. AGA prices for AK are available in 1972 and 1980. The 1972 AK-to-US ratio is used to estimate prices for 1970, 1971, and 1973 through 1979. The 1980 AK-to-US price ratio is used to estimate prices for 1981 forward.
2. AGA prices for HI are available in 1971, 1977 through 1979, and 1989. The 1971 HI-to-US AGA is used to estimate prices for 1970 and 1972 through 1974. The average ratio of the HI-to-US prices for 1977 through 1979 is used to estimate prices for 1975, 1976, and 1980 through 1984. The 1989 HI-to-US ratio is used to estimate prices for 1985 through 1988 and 1990 forward.

Table A21. LPG Residential *Agricultural Prices* Assigned to Estimate 1970 Prices

State	Years	State Prices Used
DC	1970-1972	MD
NV	1970, 1971	AZ, CA, ID, UT
OR	1971-1972	CA, ID
UT	1972	AZ, CO, ID, NV, WY
WA	1970-1972	CA, ID

Btu Prices: All Years

For 1973 forward, Btu prices for States are taken directly from the data sources. For 1970 through 1972, Btu prices for States are calculated by converting the physical unit prices by using the factors cited in Table A22 on page 372. U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Data Sources**Prices**

1971-1990, 1992 forward: American Gas Association (AGA), *Gas Househeating Survey* (1971-1988), *Residential Gas Market Survey* (1989 and 1990), and *Residential Natural Gas Market Survey* (1992 forward). Appendix 2, "Competitive Fuel Prices."

1991: Energy Information Administration, State Energy Price and Expenditure Data System, 1990 residential sector LPG prices.

1991: Energy Information Administration, *Petroleum Marketing Annual*, Table 35 (1990 and 1991), columns titled "Propane (Consumer Grade)."

1970-1972: Crop Reporting Board, U.S. Department of Agriculture, *Agricultural Prices*, table titled "Average Price Paid by Farmers for Lawn Mowers and Petroleum Products, Specified Dates, by State," column titled "L.P. Gas."

Consumption

1970 forward: Energy Information Administration, State Energy Data System, residential sector LPG consumption.

Conversion Factors

1970-1972: Energy Information Administration, *State Energy Data Report 1994, Consumption Estimates*, Table D1, as shown in Table A22.

1970-1972: 4.2 pounds per gallon from Guthrie, Virgil, ed., 1960. *Petroleum Products Handbook*. John Wiley and Sons, Inc., New York, New York: pages 3-5.

Conversion factors are not necessary for other years because Btu prices are available directly from the data sources.

Commercial Sector

Starting in 1994, commercial sector prices for LPG are estimated from PADD prices for consumer grade propane sold to commercial and institutional consumers published in the EIA, *Petroleum Marketing Annual*. PADD prices per gallon are assigned directly to all States and converted to prices per Btu.

For 1970 through 1993, State LPG prices from the industrial sector are assigned to the commercial sector.

Table A22. LPG Btu Conversion Factors 1970 Forward
(Million Btu per Barrel)

Year	Conversion Factor	Year	Conversion Factor	Year	Conversion Factor
1970	3.779	1980	3.674	1990	3.625
1971	3.772	1981	3.643	1991	3.614
1972	3.760	1982	3.615	1992	3.624
1973	3.746	1983	3.614	1993	3.606
1974	3.730	1984	3.599	1994	3.635
1975	3.715	1985	3.603		
1976	3.711	1986	3.640		
1977	3.677	1987	3.659		
1978	3.669	1988	3.652		
1979	3.660	1989	3.683		

Data Sources**Prices**

1994: Energy Information Administration, *Petroleum Marketing Annual*, Table 38, column titled, "Commercial/Institutional Consumers."

1970-1993: EIA, industrial sector LPG prices from the State Energy Price and Expenditure Data System.

Consumption

1970 forward: Energy Information Administration, State Energy Data System, commercial sector LPG consumption.

Conversion Factors

1994: Energy Information Administration, *State Energy Data Report 1994, Consumption Estimates*, Table D1, as shown in Table A22 on page 372.

Industrial Sector

The industrial sector LPG prices are estimated from average LPG prices to manufacturing firms, average LPG prices to farmers, or refiner and gas plant operator sales to end users, depending on the data sources for the different years. Prices for 1985 forward are taken from the *Petroleum Marketing Annual (PMA)*. Prices for 1978 through 1981 are taken from the *Annual Survey of Manufactures (ASM)* or the *Census of Manufactures (CM)* and prices for 1970 through 1977 and 1982 through 1984 are derived from *Agricultural Prices* and scaled to the ASM/CM prices by using the ratio of ASM/CM to *Agricultural Prices* LPG prices for the years 1978 through 1981, when both price series were available. Taxes are included in the 1970 through 1984 estimates but are not included in the prices for 1985 forward.

Physical Unit Prices: 1994

Starting in 1994, industrial sector physical unit prices are reported by PAD District, but not by State, in the EIA *Petroleum Marketing Annual*. Consumer grade propane prices are reported for three industrial sector categories—petrochemical plants, other end users (agricultural consumers), and industrial consumers. The prices for these three categories are consumption-weighted to develop PADD-level industrial sector price estimates that are assigned to the States in each PADD. Withheld prices for petrochemicals in PAD Subdistrict IB and IC are assigned the U.S. average price, and the withheld industrial price for PAD Subdistrict IA is assigned the PAD District I price.

Physical Unit Prices: 1985 Through 1993

Industrial sector LPG physical unit State prices for 1985 forward are estimated by using physical unit annual prices in the *Petroleum Marketing Annual (PMA)* for consumer grade propane sales to end-users. Where prices are not available, the PAD district price is assigned to the State as shown in Table A23. One exception is Arkansas for 1992 and 1993. Because the neighboring States in PADD III are LPG producers, the PADD III price is uncharacteristically lower than previously reported prices for Arkansas. Therefore, the 3 monthly prices available for Arkansas in 1992 are averaged to derive an annual price. In 1993, the Missouri price is assigned to Arkansas.

When a PAD district price is not available, a consumption-weighted average price is calculated by using available prices for States within the district and the SEDS industrial sector LPG consumption for those States. A PAD District V price for 1985 is calculated as a consumption-weighted average of AK, CA, OR, and WA prices; a 1986 PAD Subdistrict IA price uses the average of CT and NH prices; and PAD Subdistrict IA prices for 1987 through 1988 use the average of CT and MA prices.

When a PAD district price is not available and there are no State data within the PAD district to develop a consumption-weighted average, a different methodology is used. The source table also contains resale prices. To estimate the missing sales to end-users PAD district price, a ratio of the end-users price to the resale price for an adjacent PAD

Table A23. LPG Industrial Sector PAD District Price Assignments, 1985-1993

State	Years	PAD Assignments
AK	1985-1988, 1990-1993	District V
AL	1985-1988	District III
AZ	1985-1993	District V
CA	1990-1993	District V
CO	1991	District IV
CT	1990-1993	Subdistrict IA
DC	1985-1993	Subdistrict IB
DE	1988-1993	Subdistrict IB
FL	1990-1993	Subdistrict IC
GA	1985, 1990-1993	Subdistrict IC
HI	1985-1993	District V
IA	1988, 1991-1993	District II
ID	1985, 1990-1993	District IV
IN	1990	District II
KS	1988-1989, 1992	District II
MA	1988, 1990-1993	Subdistrict IA
MD	1988, 1990-1993	Subdistrict IB
ME	1988-1993	Subdistrict IA
MI	1985-1988, 1990	District II
MN	1985, 1988, 1990-1991, 1993	District II
MS	1990-1993	District III
MT	1990-1993	District IV
NC	1991, 1992	Subdistrict IC
ND	1985, 1988, 1991-1993	District II
NE	1986-1992	District II
NH	1987-1993	Subdistrict IA
NM	1993	District III
NV	1985-1988, 1990-1993	District V
NY	1990-1993	Subdistrict IB
OH	1990	District II
OK	1986, 1987	District II
OR	1988, 1990-1993	District V
PA	1990-1993	Subdistrict IB
RI	1988-1993	Subdistrict IA
SC	1992	Subdistrict IC
SD	1985-1993	District II
TN	1990-1993	District II
UT	1988-1988, 1990-1993	District IV
VT	1988-1993	Subdistrict IA
WA	1986-1993	District V
WI	1985, 1988, 1990	District II
WV	1989-1993	Subdistrict IC
WY	1987, 1988	District IV

district or subdistrict is calculated and applied to the known resale price for the PAD district or subdistrict that does not have an end-users price. PAD prices used in the estimations are shown in Table A24.

Physical Unit Prices: 1982 Through 1984, 1970 Through 1977

Industrial sector LPG physical unit prices for 1982 through 1984 and 1970 through 1977 are estimated on the basis of the relationship between State-level LPG prices from *Agricultural Prices* and the prices calculated from *Annual Survey of Manufactures (ASM)* or *Census of Manufactures (CM)* for 1978 through 1981.

1. Before the adjustment factor that relates *Agricultural Prices* and *ASM/CM* data is computed, monthly *Agricultural Prices* data are converted into annual prices and missing data are estimated.
 - a. Annual LPG prices are calculated as simple averages of the monthly prices from *Agricultural Prices* for the years 1977 through 1984. The only States missing data are WV in 1977 through 1981 and AK, DC, and HI in 1977 through 1984. WV is assigned the simple average of the KY, MD, OH, PA, and VA prices. AK, DC, and HI prices are discussed below.
 - b. The average ratio of *ASM/CM*-based final prices for 1978 through 1981 and the 1978 through 1981 *Agricultural Prices*

Table A24. LPG Industrial Sector, PAD District Price Estimates, 1990-1993

Year	Missing PAD Prices	Prices Used in Estimation
1990	Subdistrict IA Subdistrict IB District V	PAD District I PAD District I U.S.
1991	Subdistrict IA District V	PAD Subdistrict IB U.S.
1992	Subdistrict IA Subdistrict IB	PAD Subdistrict IC PAD Subdistrict IC
1993	Subdistrict IA Subdistrict IB	PAD Subdistrict IC PAD Subdistrict IC

annual prices is calculated for 48 States (excluding AK, DC, and HI) as the simple average of the ratio over the 4 years. This average ratio is used as an adjustment factor.

2. Final industrial sector LPG prices for 1982 through 1984 and 1970 through 1977 are estimated by using the State-level adjustment factors and annual average LPG prices from *Agricultural Prices* for these years.
 - a. Annual average LPG prices are calculated for 1982 through 1984 and 1970 through 1977 as the simple average of the monthly prices.
 - b. *Agricultural Prices* published annual average prices in dollars per gallon for all States in 1975 and 1976. For DE in 1970 through 1974, MD in 1970 through 1974, VA in 1970 through 1974, and WV in 1970 through 1972, only prices for small volume purchases in cents per pound were published. These are converted to cents per gallon by multiplying by 1.96, the average ratio of cents per gallon to cents per pound for the United States for 1970 through 1974.
 - c. For 1970 through 1972, *Agricultural Prices* are converted from cents per gallon to dollars per gallon.
 - d. For 1971 through 1973, the New England price per gallon reported by *Agricultural Prices* is assigned to CT, MA, ME, NH, RI, and VT.
 - e. MD prices are assigned to DC in 1970 through 1972, 1974 through 1977, and 1982 through 1984. The combined MD/DE price in 1973 is assigned to MD, DE, and DC.
 - f. Excluding AK and HI, States missing *Agricultural Prices* LPG prices are assigned the simple average price of adjacent States. The States with missing data and the adjacent State assignments are shown in Table A25.
 - g. Industrial sector LPG physical unit prices for 1970 through 1977 and 1982 through 1984 for all States (except AK, DC, and HI)

are calculated by using the estimated annual *Agricultural Prices* data for the respective year and the State-level average ratios as adjustment factors.

3. AK prices for 1970 through 1977 and 1982 through 1984 and HI prices for 1970 through 1977 and 1982 through 1984 are estimated by using the relationship between ASM/CM based prices for these States and the U.S. price reported by *Agricultural Prices* (1979 through 1981 for AK and 1978 through 1981 for HI). The average ratio for the available years for the two States is calculated and used with the *Agricultural Prices* U.S. prices for the years to be estimated.

Physical Unit Prices: 1978 Through 1981

For 1978 through 1981, the industrial sector LPG prices are either calculated directly from cost and quantity data from the ASM or the CM or are estimated by using the relationship of ASM/CM data to LPG price data from *Agricultural Prices*.

1. For 1978 through 1981, industrial sector physical unit prices for LPG are calculated as the average cost per unit from cost and quantity data published in ASM/CM. Since sales are reported in pounds,

Table A25. LPG Industrial Sector Price Assignments, 1970-1976

State	Years	State Prices Used in the Estimation
CT	1974	NY
MA	1974	NY
ME	1974	NY
NH	1974	NY
NV	1970-1971	AZ, CA, ID, UT
	1973-1974	AZ, CA, ID
OR	1970-1974	CA, ID
RI	1974	NY
	1975-1976	CT, MA, NY
UT	1972	AZ, CO, ID, NV, WY
	1973-1974	AZ, CO, ID, WY
VT	1974	NY
WA	1970-1974	CA, ID

the prices are converted to dollars per gallon. The conversion factor of 4.5 pounds per gallon is from *ASM/CM*.

- The AK price for 1978 is the consumption-weighted average Census division price. In addition, four States have prices estimated as the simple average of the prices of adjacent States, and DC is assigned the MD price as shown in Table A26.

Btu Prices: All Years

Btu prices for States and the United States are calculated from the physical unit prices and the conversion factors shown in Table A22. U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS, adjusted for process fuel and intermediate product consumption.

Data Sources

Prices

1994: Energy Information Administration, *Petroleum Marketing Annual*, Table 38, columns titled "Industrial Consumers," "Petrochemical," and "Other End Users."

1985-1993: Energy Information Administration, *Petroleum Marketing Annual*, Table 21 (1985), Table 33 (1986-1988), and Table 35 (1989-1993), columns titled "Propane (Consumer Grade)," "Sales to End Users," and "Sales for Resale."

Table A26. LPG Industrial Sector Price Assignments, 1978-1981

State	Years	State Prices Used
AR	1978	LA, MO, MS, OK, TX
DC	1978-1981	MD
LA	1980	AR, MS, TX
NM	1979-1981	AZ, CO, OK, TX
WY	1978-1981	CO, ID, MT, ND, NE, SD, UT

1970-1984: Crop Reporting Board, U.S. Department of Agriculture, *Agricultural Prices*, tables titled "Average Price Paid by Farmers for Lawn Mowers and Petroleum Products, Specified Dates, by State," column titled "L.P. Gas," (1970-1976); "Household Supplies: Average Price Paid by Farmers" (1977-1979); "L.P. Gas: Average Price Paid by States" (1980); and "L.P. Gas: Average Price Paid by Months by States" (1981-1984).

1981: Bureau of the Census, U.S. Department of Commerce, *1982 Census of Manufactures, Fuels and Electric Energy Consumed, Part 2, States and Standard Metropolitan Statistical Areas by Major Industry Groups*, Table 3, State-level quantity and cost of liquefied petroleum gases.

1978-1980: Bureau of the Census, U.S. Department of Commerce, *Annual Survey of Manufactures, Fuels and Electric Energy Consumed, States by Industry Group and Standard Metropolitan Statistical Areas by Major Industry Group*, Table 3, State-level quantity and cost of liquefied petroleum gases.

Consumption

1994: Energy Information Administration, unpublished data collected from EIA-782B.

1970-1993: Energy Information Administration, State Energy Data System, industrial sector LPG consumption.

Conversion Factors

1970 forward: Energy Information Administration, *State Energy Data Report 1994, Consumption Estimates*, Table D1, as shown in Table A22.

1978-1981: 4.5 pounds per gallon from *Annual Survey of Manufactures*, Appendix C.

Transportation Sector

Starting in 1994, transportation sector prices are estimated from PADD prices for consumer grade propane sold through retail outlets published in the EIA *Petroleum Marketing Annual*. Physical unit PADD prices are assigned to all States within a PADD and converted to prices per Btu.

for 1970 through 1993, State prices from the industrial sector are assigned to the transportation sector.

Data Sources

Prices

1994: Energy Information Administration, *Petroleum Marketing Annual*, Table 38, column heading, "Through Retail Outlets."

Consumption

1970 forward: Energy Information Administration, State Energy Data System, transportation sector LPG consumption.

Conversion Factors

1994: Energy Information Administration, *State Energy Data Report 1994, Consumption Estimates*, Table D1, as shown in Table A22 on page 372.

1970-1993: Btu prices are assigned from the industrial sector.

Lubricant prices are developed for the industrial sector and are assigned to the transportation sector. State-level prices are not available for either sector; national-level prices are assigned to all States and do not

include end-user taxes paid at the time of sale. Estimates of lubricant consumption by the industrial and transportation sectors are taken from the State Energy Data System (SEDS).

Physical Unit Prices: All Years

Prices of lubricants are estimated from U.S. Department of Commerce, Bureau of the Census, data for three product categories:

1. Lubricating oils made in refineries (SIC 29117.21) and not made in refineries (SIC 29920.21).
2. Lubricating greases made in refineries (SIC 29117.31) and not made in refineries (SIC 29920.31).
3. Lubricating oils and greases, not specifically known (n.s.k.), made in refineries (SIC 29117.00) and not made in refineries (SIC 29920.00 for establishments with 10 employees or more and SIC 29920.02 for establishments with fewer than 10 employees).

For the years where *Census of Manufactures (CM)* data are available (1967, 1972, 1977, and 1982), total shipments are calculated by adding the shipments for the three product categories. Shipments for the third product category are withheld and estimated by dividing their value of shipments sum by the weighted average cost of the product categories 29920.21 and 29920.31.

Total shipments in each year for which *CM* data are available is divided by the estimated SEDS total lubricants consumption (in physical units) for that year to establish a shipments-to-consumption ratio. Ratios for the years not covered by the *CM* (i.e., 1968 through 1971, 1973 through 1976, and 1978 through 1981) are estimated by linear interpolation, and the 1982 value is used for 1983 forward. Total shipments for the years not covered by the *CM* are estimated by multiplying SEDS consumption data by the appropriate shipment-to-consumption ratio.

Estimated shipment prices are calculated by dividing the value of shipments shown in the *CM* or the *Annual Survey of Manufactures* by the estimated shipments for each product category. The shipment prices are used to represent wholesale prices.

End-user prices in dollars per barrel are estimated by multiplying the shipment prices by trade ratio factors that represent the wholesale-to-retail markup. The trade ratio factors are developed from Bureau of Economic Analysis (BEA) data for 1972 and 1977. For 1972, the sum of data called "purchasers value" for the three product categories is divided by the sum of the "producers value" for the three categories to derive a trade ratio. A similar calculation is made for 1977, but the terms "purchase value" and "basic value" are used in the source data.

The 1972 ratio is used for 1970 through 1972, and the 1977 ratio is used for 1977 forward. The values for 1973 through 1976 are estimated by linear interpolation by using the 1972 and 1977 values. The trade ratios for 1982 and later years are not used because the range of petroleum products included in the ratios was expanded by BEA and the ratios no longer represent the specific mark-up for lubricants.

Btu Prices: All Years

Btu prices are obtained by dividing the prices in dollars per barrel by the conversion factor 6.065 million Btu per barrel.

Data Sources

Prices

1970, 1971, 1973 through 1976, 1978 through 1981, and 1983 forward: Bureau of the Census, U.S. Department of Commerce, *Annual Survey of Manufactures; Lubricating Oils and Greases* (Industries 29117 and 29920).

1972, 1977, and 1982: Bureau of the Census, U.S. Department of Commerce, *Census of Manufactures, Petroleum Refining; Lubricating Oils and Greases* (Industries 29117 and 29920).

1972 and 1977: Bureau of Economic Analysis, U.S. Department of Commerce, Input-Output Table Work Tapes for SIC Codes 29117 and 29920).

Consumption

1970 forward: Energy Information Administration, State Energy Data System, lubricants consumption.

Conversion Factor: All Years

6.065 million Btu per barrel

Motor gasoline prices are developed for the transportation sector, and the transportation sector prices are assigned to the commercial and industrial sectors. Motor gasoline consumed in privately-owned vehicles is accounted for in the transportation sector. Estimates of motor gasoline consumed by the transportation, commercial, and industrial sectors used in calculating expenditures are taken from SEDS. Prices in this series are retail prices (usually service station prices), including taxes.

Physical Unit Prices: 1983 Forward

Motor gasoline physical unit prices for 1983 forward are based on annual State-level prices or assigned PAD District prices from the *Petroleum Marketing Annual (PMA)* except for prices for certain States and years, as noted in Table A27, that are derived from the Bureau of Labor Statistics' *Consumer Prices: Energy (CPI)*.

State and Federal motor gasoline taxes are added to the prices from the *PMA*. Monthly State tax information and annual Federal tax information are taken from *Highway Statistics*. The monthly State taxes are averaged to create an average annual tax for each State which is combined with the Federal tax to adjust the *PMA* price. Due to the lack of uniformity in application, State and local general sales taxes are not included.

The *PMA* average sales price (excluding taxes) of finished motor gasoline to end users through company outlets is used, under the assumption that this price most closely approximates retail motor gasoline prices. Finished motor gasoline includes leaded and unleaded motor gasoline and gasohol.

In the States and years (shown in Table A27) where prices are derived from the *CPI*, monthly *CPI* city prices are weighted by monthly consumption from *Highway Statistics*. All taxes are included in the *CPI* data.

Motor gasoline prices for HI are not collected or published in the *CPI* after December 1986. The following method is used to derive HI prices for 1987 through 1990, when *PMA* prices for HI became available. The monthly HI *CPI* prices are used to calculate annual averages for 1983 through 1986. The annual averages are divided by the *PMA* PAD District V price (with HI State and Federal taxes added) for each year to develop annual ratios of the two prices. The four ratios for 1983 through 1986 are simple averaged to give one ratio that is multiplied by the *PMA* PAD District V prices for the 1987 through 1990 to estimate HI prices for those years. State and Federal taxes are added to the estimates.

Table A27. Motor Gasoline Price Assignments, 1983 Forward

State	Years	Source
AK	1983-1986	<i>CPI</i>
CT	1989-1994	<i>PMA</i> , PAD Subdistrict IA
DC	1983-1994	<i>CPI</i>
DE	1991-1993	<i>PMA</i> , PAD Subdistrict IB
HI	1983-1986	<i>CPI</i>
	1987-1990	See text
ID	1983, 1984	<i>PMA</i> , PAD District IV
MD	1985-1994	<i>CPI</i> (Baltimore)
ME	1985-1986, 1990-1994	<i>PMA</i> , PAD Subdistrict IA
MT	1991-1994	<i>PMA</i> , PAD Subdistrict IV
SD	1987, 1991, 1992	<i>PMA</i> , PAD District II
VT	1989-1994	<i>PMA</i> , PAD Subdistrict IA
WY	1986	<i>PMA</i> , PAD District IV

Physical Unit Prices: 1982

Monthly physical unit motor gasoline prices for 1982 are taken from the *Platt's Oil Price Handbook and Oilmanac (Platt's)* table, "AAA 'Fuel Gauge' Report," the *CPI*, or both. Table A28 summarizes price data availability by source. The *Platt's* prices are reported for both leaded and unleaded motor gasoline and for both full-service and self-service for all States except AK and HI. All available *Platt's* prices for 1982 are used in the calculation of motor gasoline prices. The continuity of these prices with prices published by *Platt's* in previous years suggests that taxes are included.

The available *CPI* monthly physical unit motor gasoline prices for 1982 are for all types of motor gasoline and cover 25 States, as shown in Table A29. The *CPI* prices are assigned to any State that has a county included in the Standard Metropolitan Statistical Area (SMSA) definitions used by the Bureau of Labor Statistics. These "all types" prices cover leaded regular, unleaded regular, and leaded premium, including taxes. All the available *CPI* prices for 1982 are also used in the calculation of motor gasoline prices. Complete monthly data exist for the 25 States covered by the *CPI*. The *CPI Detailed Report* of April 1986 explicitly states that Federal, State, and local taxes are included.

To combine the product-specific *Platt's* prices with the "all types" prices published in the *CPI*, the *Platt's* prices are weighted into "all types" prices by using annual U.S. data from the *Monthly Energy Review (MER)* to calculate shares for leaded and unleaded motor gasoline (no breakdowns for regular and premium are possible because of data limitations).

Motor gasoline price data reported by *Platt's* for 1982 cover the following months: February, April, June, August, November, and December. The missing 6 months are assigned prices as follows: January is assigned the February price, and the other missing months are assigned the average price of the preceding and succeeding months. A missing February price for MO is assumed to be equal to the April price, and a missing price for OR is assumed to be equal to the average of the April and August prices.

Table A28. Summary of Motor Gasoline Price Data by Year, 1970-1982

Years	Source	Grades Covered	Composite Price	Missing States All Sources
1982	Platt's	leaded unleaded	no no	none
	CPI	leaded regular leaded premium unleaded regular	yes yes yes	
1979-1981	Platt's	leaded regular leaded premium unleaded regular unleaded premium	no no no no	AR, DE, ME, MS, MT, ND, NH, OK, RI, SC, SD, VT, WV, WY
	CPI	leaded regular leaded premium unleaded regular	yes yes yes	
1978	Platt's	leaded regular	no	none
	CPI	leaded regular leaded premium unleaded regular	yes yes yes	
1976, 1977	Platt's	leaded regular	no	AK
	CPI	leaded regular leaded premium unleaded regular	no no no	
1974, 1975	Platt's	leaded regular	no	AK
	CPI	leaded regular leaded premium	no no	
1970-1973	Platt's	leaded regular	no	AK, HI

For States with data from *Platt's* only, prices by product type (leaded and unleaded) are first calculated as the simple average of full-service and self-service prices for that product for each month and State. The resulting prices are then weighted into monthly composite prices by using U.S. leaded and unleaded shares of motor gasoline product supplied from the *MER*. The following 26 States have data only from *Platt's*: AL, AR, AZ, CT, DE, IA, ID, LA, ME, MS, MT, NC, ND, NE, NH, NM, NV, OK, RI, SC, SD, TN, UT, VT, WV, and WY.

Table A29. Motor Gasoline Price Assignments from Consumer Prices: Energy, 1978-1982

State	City Price Assignments
AK	Anchorage
CA	Los Angeles-Long Beach-Anaheim, San Diego, San Francisco, Oakland
CO	Denver-Boulder
DC	Washington
FL	Miami
GA	Atlanta
HI	Honolulu
IL	Chicago-Northwestern Indiana, St. Louis
IN	Chicago-Northwestern Indiana, Cincinnati
KS	Kansas City
KY	Cincinnati
MA	Boston
MD	Baltimore, Washington
MI	Detroit
MN	Minneapolis-St. Paul
MO	St. Louis, Kansas City
NJ	New York-Northeastern NJ, Philadelphia
NY	New York-Northeastern NJ, Buffalo
OH	Cincinnati, Cleveland
OR	Portland
PA	Philadelphia, Northeastern PA, Pittsburgh
TX	Dallas-Ft. Worth, Houston
VA	Washington
WA	Seattle-Everett, Portland
WI	Milwaukee, Minneapolis-St. Paul

Note: All types of motor gasoline are included.

Platt's reports two prices for each motor gasoline product for each year: one full-service price and one self-service price. These two prices are combined by using a simple average into a single product price for each State for each month.

The unleaded U.S. share of total motor gasoline consumption is reported in the *MER* as 52.1 percent in 1982. Assuming that the remaining motor gasoline consumption is leaded, the leaded portion of total consumption is 47.9 percent. These shares are used for all States and months to calculate the composite prices from the leaded and unleaded prices.

For AK and HI, the only States with data only from the *CPI*, the "all types" monthly prices reported are used directly as monthly composite prices.

For States with price data from both *Platt's* and the *CPI*, the *Platt's* data are first combined into product type prices and weighted with the *MER* shares. The resulting combined prices for all motor gasoline types are averaged together, with the combined *CPI* city prices assigned to the respective month and State. The following 23 States have monthly composite prices computed in this way: CA, CO, DC, FL, GA, IL, IN, KS, KY, MA, MD, MI, MN, MO, NJ, NY, OH, OR, PA, TX, VA, WA, and WI.

1. Leaded and unleaded gasoline prices are calculated as simple averages of full-service and self-service prices from *Platt's* and are then weighted into a composite price by use of *MER* shares of leaded and unleaded motor gasoline consumption.
2. Monthly "all types" motor gasoline prices covering leaded regular, leaded premium, and unleaded regular are taken directly from the *CPI*. If there is more than one *CPI* price observation for a month and State, the *CPI* prices are simple averages.
3. Using a simple average, the composite *Platt's* prices are combined with the "all types" *CPI* prices for each State. The resulting prices are the monthly composite prices for 1982.

Annual physical unit prices for all States are calculated from the monthly motor gasoline prices calculated above and weighted by the monthly motor gasoline consumption volumes for States from *Highway Statistics*.

Physical Unit Prices: 1979 Through 1981

For 1979 through 1981, *Platt's* monthly motor gasoline prices are taken from a table titled "Platt's/Lundberg Summary." Prices are available for cities by product-type, by grade, and by type of service (full service, self service). Four products and grades of motor gasoline are covered: leaded regular, unleaded regular, leaded premium, and unleaded premium. These data cover 37 States and taxes are included. The *CPI*

reports "all types" prices, including taxes, for the cities listed in Table A29. *Platt's* city price assignments to States for 1979 through 1981 are shown in Table A30.

The computation of monthly composite prices for 1979 through 1981 varies, depending on the available data sources for each State. Monthly composite prices are estimated for the 14 States which do not have reported price data from either data source. If both *Platt's* and the *CPI* report prices for a city, the *CPI* price is used.

1. For States with city price observations only from *Platt's*, prices for leaded and unleaded motor gasoline are combined by use of simple averaging, regardless of the type of service, and are converted to dollars per gallon. The leaded and unleaded prices are then weighted together into a monthly composite price. The following 12 States have prices only from *Platt's* for 1979 through 1981: AL, AZ, CT, IA, ID, LA, NC, NE, NM, NV, TN, and UT.
 - a. The *Platt's* prices for 1981 end in September of that year; monthly prices by grade and service type for October, November, and December are assumed to be equal to the corresponding September prices.
 - b. Leaded and unleaded prices are calculated for each State by simple averaging of all prices available for each product (leaded, unleaded), regardless of service type or grade of motor gasoline (regular, premium). All city prices for each State are averaged together.
 - c. Leaded and unleaded shares of total motor gasoline consumption for the United States are calculated from the *MER* for each year 1979 through 1981. The monthly product type prices are weighted into composite prices by using the national leaded and unleaded shares as weights.
2. For States with city price observations only from the *CPI*, the monthly "all types" prices are used directly for States with only one price observation per month. For States with multiple observations, monthly prices are combined by simple averaging. States with *CPI*

Table A30. Motor Gasoline Price Assignments from *Platt's*, 1979-1981

State	City Price Assignments
AL	Birmingham
AZ	Phoenix, Tucson
CA	Bakersfield, Fresno, Los Angeles, Sacramento, San Diego, San Francisco, Stockton
CO	Denver
CT	New Haven
DC	Washington
FL	Miami, Tampa-St. Petersburg
GA	Atlanta
IA	Des Moines
ID	Boise
IL	Chicago
IN	Indianapolis
KY	Louisville
LA	New Orleans
MA	Boston
MD	Baltimore
MI	Detroit
MN	Minneapolis
MO	Kansas City, St. Louis
NC	Charlotte
NE	Omaha
NJ	Newark
NM	Albuquerque
NV	Las Vegas, Reno
NY	Long Island, Rochester
OH	Cincinnati
OR	Portland
PA	Philadelphia, Pittsburgh
TN	Memphis
TX	El Paso, Houston
UT	Salt Lake City
VA	Norfolk
WA	Seattle, Spokane
WI	Milwaukee

data only are: AK, CO, DC, GA, HI, IL, KS, MA, MD, MI, MN, MO, NJ, OH, OR, PA, and WI.

3. For the eight States with price observations from both *Platt's* and the *CPI* (CA, FL, IN, KY, NY, TX, VA, and WA), monthly composite prices for 1979 through 1981 are calculated by using three steps:

a. The *Platt's* prices are combined into single "all types" prices as described above by using leaded and unleaded grades of motor gasoline shares as weights.

b. The *CPI* prices are combined by State.

c. Using simple averaging, the composite *Platt's* price for each State is combined with the "all types" *CPI* price for that State. The resulting prices are the monthly composite prices for 1979 through 1981.

4. Fourteen States are not covered by price data from either *Platt's* or the *CPI* in 1979 through 1981. These States are AR, DE, ME, MS, MT, ND, NH, OK, RI, SC, SD, VT, WV, and WY. Monthly composite prices for these States are estimated by using the monthly State-level composite prices for 1982 and Census region monthly prices from the *CPI* for 1979 through 1982.

a. The ratio between the 1982 State prices and the 1982 *CPI* Census region prices corresponding to each State is calculated for use as an adjustment factor in 1979, 1980, and 1981.

b. The monthly price for each of the 14 missing States is assumed to be the product of the 1982 Census region adjustment factor for that State times the monthly motor gasoline price for that Census region from the *CPI*.

Annual physical unit prices for all States are calculated from the monthly motor gasoline prices calculated above and weighted by the monthly motor gasoline consumption volumes for States from *Highway Statistics*.

Physical Unit Prices: 1978

The *Platt's* monthly leaded regular motor gasoline prices cover all States except AK and HI. The *Platt's* city assignments to States are shown in Table A31. In 1978, the *CPI* motor gasoline coverage was expanded from 21 States to 25 States (28 SMSAs) and an "all types" price was published that covers leaded regular, leaded premium, and unleaded regular. The *CPI* SMSA assignments to States for 1978 through 1982 are shown in Table A29 on page 224. Both the *CPI* and the *Platt's* prices include taxes.

Since both sources report a single price for each city or SMSA, product weights are not needed to compute monthly composite prices. Instead, city price observations are assigned to States as shown in Table A29 and Table A31. Price observations are combined by using simple averaging by State and month. If both *Platt's* and the *CPI* cover a city/SMSA, the *CPI* price is used. *Platt's* prices are converted to dollars per gallon; the *CPI* prices are already expressed in dollars. All States are covered by the data sources, so no imputation is required for 1978. The following 26 States have prices only from *Platt's*: AL, AR, AZ, CT, DE, IA, ID, LA, ME, MS, MT, NC, ND, NE, NH, NM, NV, OK, RI, SC, SD, TN, UT, VT, WV, and WY. The following 19 States are covered only by the *CPI*: AK, CA, CO, DC, FL, GA, HI, IL, MA, MD, MI, MN, MO, NJ, NY, OH, OR, PA, and WI. Six States have price data from both sources: IN, KS, KY, TX, VA, and WA.

Annual physical unit prices for all States are calculated from the monthly motor gasoline prices calculated above and weighted by the monthly motor gasoline consumption volumes for States from *Highway Statistics*.

Physical Unit Prices: 1976, 1977

The calculation of monthly composite State prices for 1976 and 1977 depends upon the source of data. Different procedures are used for States with only *Platt's* data, States with only *CPI* data, and States with both *Platt's* and *CPI* data. If both data sources cover a city, only the *CPI* price is used for that city. City price assignments to States are given in Table A31 for *Platt's* and in Table A32 for the *CPI*. Prices

Table A31. Motor Gasoline Price Assignments from *Platt's*, 1970-1978

State	City Price Assignments
AL	Birmingham
AR	Little Rock
AZ	Phoenix
CA	Los Angeles, San Francisco
CO	Denver
CT	Hartford
DC	Washington
DE	Wilmington
FL	Miami
GA	Atlanta
IA	Des Moines
ID	Boise
IL	Chicago
IN	Indianapolis
KS	Wichita
KY	Louisville
LA	New Orleans
MA	Boston
MD	Baltimore
ME	Portland
MI	Detroit
MN	Twin Cities
MO	St. Louis
MS	Jackson
MT	Great Falls
NC	Charlotte
ND	Fargo
NE	Omaha
NH	Manchester
NJ	Newark
NM	Albuquerque
NV	Reno
NY	Buffalo, New York
OH	Cincinnati, Cleveland
OK	Tulsa
OR	Portland
PA	Philadelphia
RI	Providence
SC	Charleston
SD	Huron
TN	Memphis
TX	Dallas, El Paso, Houston
UT	Salt Lake City
VA	Norfolk
VT	Burlington
WA	Seattle, Spokane
WI	Milwaukee
WV	Charleston
WY	Cheyenne

from both sources include taxes. AK is the only State for which prices need to be estimated.

For States with data from *Platt's* only, the monthly prices reported in *Platt's* are used either directly or combined by simple averaging if there is more than one price observation for a State in a given month. The reported prices in cents per gallon are converted to dollars per gallon. Prices for the following 29 States are calculated by using this procedure and cover only leaded regular motor gasoline: AL, AR, AZ, CO, CT, DE, FL, IA, ID, LA, ME, MS, MT, NC, ND, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, UT, VT, WV, and WY.

If State-level motor gasoline prices for 1976 and 1977 are available only from the *CPI*, monthly composite prices are calculated as weighted averages of leaded and unleaded prices. Prices for 15 States are calculated by using data only from the *CPI*: CA, DC, GA, HI, IL, MA, MD, MI, MN, MO, NJ, NY, OH, PA, and WI.

1. The weights used in this process are national-level shares of leaded and unleaded motor gasoline product supplied. For 1977, the leaded and unleaded share of 0.725 and 0.275, respectively, are taken from the *MER*. For 1976, *MER* data for 1977 through 1984 are used to estimate the unleaded share by using simple regression. The unleaded percentages for 1977 through 1984 are converted to shares and used to estimate leaded and unleaded shares of motor gasoline. The resulting 1976 leaded share is 0.744 and the unleaded share is 0.256.
2. The next step is to calculate monthly composite leaded and unleaded prices for each State. If more than one *CPI* price observation is available for a particular grade of motor gasoline (leaded or unleaded) for a State in a given month, the *CPI* observations are combined by grade by using simple averaging. Regular and premium prices are averaged for an estimate of State-level leaded prices.
3. Final monthly composite prices for 1976 and 1977 are calculated by using the leaded and unleaded composite prices calculated above and the *MER*-based leaded and unleaded shares as volume weights.

Table A32. Motor Gasoline Price Assignments from Consumer Prices: Energy, 1974-1977

State	City Price Assignments
CA	Los Angeles-Long Beach, San Diego, San Francisco-Oakland
DC	Washington
GA	Atlanta
HI	Honolulu
IL	Chicago, St. Louis
IN	Cincinnati, Chicago
KS	Kansas City
KY	Cincinnati
MA	Boston
MD	Baltimore, Washington
MI	Detroit
MN	Minneapolis-St. Paul
MO	St. Louis, Kansas City
NJ	New York-Northeastern NJ, Philadelphia
NY	Buffalo, New York-Northeastern NJ
OH	Cincinnati, Cleveland
PA	Philadelphia, Pittsburgh
TX	Dallas, Houston
VA	Washington
WA	Seattle
WI	Milwaukee, Minneapolis-St. Paul

Note: Prices are available separately for leaded regular, leaded premium, and unleaded regular (1976, 1977); "all types" prices are not available.

For States with price data from both *Platt's* and the *CPI*, all price observations are averaged together by product type. If both sources report prices for a city, the *CPI* price is used. Once composite leaded and unleaded prices have been calculated separately for each State, the leaded and unleaded consumption shares are used to weight the product-type prices into the final monthly composite motor gasoline prices. Six States are calculated with data from both *Platt's* and the *CPI*: IN, KS, KY, TX, VA, and WA.

1. Monthly leaded composite prices are calculated by combining *Platt's* prices with the *CPI* prices for leaded regular and premium motor gasoline by month, since the *Platt's* prices cover only regular leaded fuel. If both data sources cover a city, the *CPI* prices are used.

2. Since the *CPI* is the only source of unleaded gasoline price data for 1976 through 1977, monthly unleaded composite prices are calculated from *CPI* data only.
3. Final monthly composite prices for the six States with price data from both *Platt's* and the *CPI* are calculated by using annual U.S. leaded and unleaded shares and leaded and unleaded monthly composite prices.

Prices for 1976 and 1977 for AK, the only State not covered by price data from either data source, are estimated on the basis of the average relationship between the State and the national average price for years in which data are available. The national average price used for these estimations is a simple average of the prices of the 49 States for which data are available in all years (i.e., excluding AK and HI for all years). Annual prices for AK are estimated on the basis of the average AK-to-U.S. price relationship for 1978 and 1979.

Annual physical unit prices (excluding AK) are calculated from the monthly motor gasoline prices calculated above and weighted by the monthly motor gasoline consumption volumes for States from *Highway Statistics*.

Physical Unit Prices: 1974, 1975

The *Platt's* price data for 1974 through 1975 cover only leaded regular motor gasoline. Beginning in 1974, motor gasoline price data are also available from the *CPI* for selected SMSAs. An SMSA price is assigned to each State with counties included in the definition of that SMSA; for the years 1974 through 1977, prices for 23 SMSAs cover 21 States. The State assignments of SMSA prices for 1974 through 1977 are given in Table A32 on page 384. For 1974 and 1975, *CPI* prices are reported separately for leaded regular and leaded premium motor gasoline. According to the *CPI Detailed Report*, April 1986, these prices include taxes; the *Platt's* prices also include taxes. AK is the only State not covered by either of these two data sources; prices for AK are imputed for 1974 and 1975.

The *Platt's* regular leaded prices and the *CPI* regular and premium leaded motor gasoline prices, including taxes, are assigned to their re-

spective States as shown in Table A31 and Table A32. If both sources cover a city, the *CPI* price is used. The following 29 States are covered only by *Platt's*: AL, AR, AZ, CO, CT, DE, FL, IA, ID, LA, ME, MS, MT, NC, ND, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, UT, VT, WV, and WY. The following 15 States are covered only by *CPI*: CA, DC, GA, HI, IL, MA, MD, MI, MN, MO, NJ, NY, OH, PA, and WI. The following six States have both *Platt's* and *CPI* data for a particular city: IN, KS, KY, TX, VA, and WA.

All price observations assigned to a State, regardless of grade or data source, are added together and divided by the number of observations. As part of this calculation, *Platt's* prices are converted from cents per gallon to dollars per gallon.

Neither *Platt's* nor the *CPI* reports price data for AK. The methodology of the estimation of annual AK prices is the same as used in 1976 and 1977.

Annual physical unit prices for the remaining 50 States (excluding AK) are calculated from the monthly motor gasoline prices calculated above and weighted by the monthly motor gasoline consumption volumes for States from *Highway Statistics*.

Physical Unit Prices: 1970 Through 1973

Monthly motor gasoline physical unit prices for 1970 through 1973 are available only from *Platt's*, where city prices covering 49 States are reported in a table titled "Service Station Prices: Gasoline (Including Taxes)." These prices, as shown in Table A28, are for leaded regular gasoline only and include taxes.

Monthly average city prices from *Platt's* are assigned to the State in which the city is located. *Platt's* city price assignments to States are given in Table A31.

Monthly composite prices for 1970 through 1973 are equal to the reported monthly *Platt's* prices or, if more than one city is available for a given State in a certain month, are a simple average of the assigned city prices. The reported prices are converted from cents to dollars per gallon.

Platt's does not report data for either AK or HI for 1970 through 1973. The methodology of the estimation of AK and HI prices is the same as that used for 1976 and 1977.

Annual physical unit prices (excluding AK and HI) are calculated from the monthly motor gasoline prices weighted by the monthly motor gasoline consumption volumes for States from *Highway Statistics*.

Btu Prices: All Years

Btu prices for States are computed by converting the physical unit prices in dollars per gallon to dollars per barrel (42 gallons per barrel) and then to dollars per million Btu (5.253 million Btu per barrel). U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Data Sources

Prices

1986 forward: Energy Information Administration, *Petroleum Marketing Annual*, Table 29 (1986-1988), Table 30 (1989-1993), column titled "All Refiners, Sales to End Users, Through Company Outlets," and Table 35 (1994), column titled "All Grades, Sales to End Users, Through Retail Outlets."

1974 forward: Bureau of Labor Statistics, U.S. Department of Labor, *Consumer Prices: Energy*, computer printouts of monthly gasoline prices.

1983 forward: Federal Highway Administration, U.S. Department of Transportation, *Highway Statistics*, Tables MF-26 (1983-1993) and MF-33GA (1994).

1983-1985: Energy Information Administration, *Petroleum Marketing Annual*, 1985, Volume 1, Table 16, column titled "All Refiners and Gas Plant Operators, Sales to End-users, Through Company Outlets."

1970-1982: McGraw-Hill, Inc., *Platt's Oil Price Handbook and Oilmanac*; table titled "AAA 'Fuel-gauge' Report" (1982); table titled "Platt's/Lundberg Summary," (1979-1981); and table titled "Service Station Prices: Gasoline (Including Taxes)," (1970-1978).

1974-1982: Bureau of Labor Statistics, *CPI Detailed Report*, April 1986, Technical Notes, page 110.

1982: Energy Information Administration, Form EIA-25 "Prime Supplier Monthly Report" computer tape, unpublished data.

1976-1984: Energy Information Administration, *Monthly Energy Review*, January 1985, table titled "Petroleum: Finished Motor Gasoline Supply and Disposition."

Taxes

1983 forward (State Taxes): Federal Highway Administration, U.S. Department of Transportation, *Highway Statistics*, Table MF-121T.

1991 forward (Federal Taxes): Energy Information Administration, *Petroleum Marketing Annual*, Table EN1.

1983 through 1990 (Federal Taxes): Energy Information Administration, *Petroleum Marketing Annual*, 1990, Table EN1.

Consumption

1970 forward: Energy Information Administration, State Energy Data System, transportation sector, motor gasoline consumption.

Conversion Factor: All Years

5.253 million Btu per barrel

Petroleum coke is consumed by the electric utility and industrial sectors. The portion of petroleum coke consumed by the industrial sector (97 percent in 1994) is included in the category "other petroleum products," which is discussed on page 399. The remaining petroleum coke is used for electricity generation in 12 States over the period 1970 forward. A maximum of seven States reported consumption in any single year. Estimates of the annual consumption of petroleum coke by electric utilities are taken from SEDS. Estimates of the deliveries of petroleum coke, used in the price calculation described below, are taken from the *Cost and Quality of Fuels for Electric Utility Plants (C&Q)*. The C&Q prices are the delivered costs of the fuels and include all taxes, transportation, and other charges paid by the utilities.

Btu Prices: 1972 Forward

The principal data source for petroleum coke used by electric utilities is an EIA public use computer tape covering the period 1972 forward. From 1972 through 1982, steam plants with a maximum capacity of 25 megawatts were included. For 1983 and subsequent years, the reporting threshold was raised to 50 megawatts capacity. In addition to the computer tape, the data are also published, but not for the full period. From 1978 through 1982, C&Q was published monthly and annually; data for calculating petroleum coke prices are in only the monthly reports. For 1983 and subsequent years, C&Q was published annually and includes petroleum coke prices for individual States and for the Nation.

The computer tape, *Cost and Quality of Fuels for Electric Utility Plants* (Form 423) Historic Files, shows quantity in short tons, estimated Btu per pound, and price in cents per million Btu. The data are presented by plant, by State, and by month. The Btu price is calculated as the annual sum of the unit prices, weighted by the total Btu in each reported delivery, divided by the annual sum of the Btu delivered to all electric utility plants within the State.

Some States have electric utility petroleum coke consumption in SEDS but no deliveries or price data in the C&Q. Those States are assigned prices from neighboring States, as shown in Table A33. The petroleum

coke consumed in LA in 1992 forward was obtained with no cost to the electric utility. The SEDS consumption is included with a zero price in calculating the electricity utility sector average price for LA and the US. The high DE prices prior to 1981 are actual reported prices.

Btu Prices: 1970, 1971

For the years 1970 and 1971, prices are estimated by using the gross domestic product implicit price deflator. The deflator for 1970 or 1971 is divided by the 1972 deflator and the quotient is multiplied by the 1972 price for each State to develop the price estimates for 1970 and 1971. The deflators are 35.1 in 1970, 37.1 in 1971, and 38.8 in 1972.

Although SEDS has a consumption estimate for NJ in 1971, there are no NJ price data for any year in the Form 423 Historic Files. Form 423 data for PA in 1972 are used to estimate a PA price for 1971, which is assigned to NJ. The Form 423 PA prices for 1972 and 1971 do not appear in SEPEDS since SEDS has no petroleum coke consumption in PA for those years.

U.S. Btu Prices: All Years

U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Table A33. Petroleum Coke Electric Utility Price Assignments, 1972 Forward

State	Years	State Prices Assigned
DE	1981-1992	PA
KS	1975	MO
MO	1983, 1985	MN
NY	1974	PA
WI	1985	MN

Data Sources**Prices**

1972 forward: Energy Information Administration, electronic data from "Cost and Quality of Fuels for Electric Utility Plants (Form 423) Historic Files," as published in the following reports:

- 1983 forward: Energy Information Administration, *Cost and Quality of Fuels for Electric Utility Plants*, Table 20 (1983, 1984), Table 12 (1985-1989), Table 40 (1990, 1991), and Table 28 (1992 forward).
- 1978-1982: Energy Information Administration, *Cost and Quality of Fuels for Electric Utility Plants*, table titled "Wood Chips, Refuse, and Petroleum Coke Used as Fuel by Steam-Electric Units."

1970-1972: Energy Information Administration, *Annual Energy Review 1992*, Appendix C. Gross Domestic Product and Implicit Price Deflator.

Consumption

1970 forward: Energy Information Administration, State Energy Data System, electric utility petroleum coke consumption.

Conversion Factors: All Years

No conversion factors are required; Btu prices are calculated directly from data sources.

Residual fuel prices are developed for the electric utility, industrial, commercial, and transportation sectors. Estimates of the amount of residual fuel consumed by sector are taken from SEDS and are adjusted for process fuel consumption in the industrial sector. (See the "Con-

sumption Adjustments for Calculating Expenditures" section on page 413.)

Electric Utility Sector

The electric utility price for residual fuel (heavy oil) is the average delivered cost of No. 6 fuel oil receipts at electric utilities. For 1973 forward, Btu prices are developed directly from the data sources. For 1970 through 1972, prices are estimated by using simple regression analysis. All taxes, transportation, and other charges paid by utilities are included in the prices for all years.

Btu Prices: 1973 Forward

Electric utility sector residual fuel prices for 1973 forward are taken from *Cost and Quality of Fuels for Electric Utility Plants (C&Q)*. For 1973 through 1979, Btu prices are calculated as the weighted average of contract and spot prices for No. 6 fuel oil. Table A34 lists the States and years for which consumption is indicated by SEDS but no price is shown in C&Q. For these States, the Census division price, as shown in C&Q, is assigned as the State price.

For 1983 forward, C&Q reports prices for steam electric plants of 50 megawatt capacity or greater. For 1980 through 1982, C&Q prices cover all reporting plants of 25 megawatt capacity or greater.

The C&Q does not have prices for AK in 1973 forward or HI in 1973 through 1982 and 1992 forward. Prices are estimated by calculating the ratio of the AK or HI prices from the *Statistical Yearbook* to the *Statistical Yearbook* U.S. price and multiplying the ratio by the C&Q U.S. price for each year. AK prices for 1973, 1975, 1978, and 1994 are not published in the *Statistical Yearbook* and are estimated by calculating an average of the ratios of the AK to U.S. *Statistical Yearbook* prices in adjacent years. The 1973 estimated price is based on the average ratio for 1972 and 1974, the 1975 price is based on the average ratio for 1974 and 1976, and the 1978 price is based on the average ratio for 1977 and 1979. The average ratio is then applied to the U.S. C&Q price for the missing year.

Table A34. Residual Fuel Electric Utility Census Division Price Assignments, 1970 Forward

State	Years of Assigned Prices	Census Division
AL	1975-1979	New England
AR	1987, 1992, 1993	West South Central
AZ	1984, 1985, 1991-1994	Mountain
CO	1982, 1987, 1989-1992, 1994	Mountain
DC	1982-1994	South Atlantic
GA	1981, 1994	South Atlantic
IA	1970-1985	West North Central
IN	1970-1979	East North Central
KS	1980, 1981, 1985-1987, 1989-1992	West North Central
KY	1970-1979	East South Central
MN	1984, 1985, 1987-1990, 1992, 1993	West North Central
MT	1970-1979	Mountain
NC	1976, 1977, 1979, 1980, 1982, 1984	South Atlantic
ND	1970-1979	West North Central
NE	1981-1983, 1990, 1991, 1994	West North Central
NM	1979-1982, 1989-1994	Mountain
NV	1983, 1985	Mountain
OH	1982-1994	East North Central
OK	1977, 1978, 1980, 1982-1987, 1989, 1991-1994	West South Central
OR	1970, 1973, 1974	Pacific
SC	1983, 1985-1994	South Atlantic
SD	1981-1983	West North Central
TN	1979	East South Central
TX	1982-1994	West South Central
UT	1982, 1983, 1986	Mountain
VT	1970-1979	New England
WA	1970, 1971, 1975-1978, 1981-1983, 1986-1988, 1992, 1993	Pacific
WV	1970-1977, 1979	South Atlantic
WY	1970-1979	Mountain

Btu Prices: 1970 Through 1972

State-level Btu prices for 1970 through 1972 are estimated by using regression techniques and price data from the *Statistical Yearbook*. The regression equations use *Statistical Yearbook* State-level prices for 1973 through 1980 as the independent variable and the State-level prices calculated above (including the estimations for AK and HI) as the

dependent variable. Pacific regional price averages are assigned for the missing WA prices in 1970 and 1971. The average of 1970 and 1972 AK *Statistical Yearbook* prices is substituted for the missing 1971 AK price.

U.S. Btu Prices: All Years

U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Data Sources**Prices**

1973 forward: Energy Information Administration, *Cost and Quality of Fuels for Electric Utility Plants*, Table 6 (1973-1979), Table 45 (1980-1982), Table 51 (1983, 1984), Table 41 (1985-1989), Table 14 (1990, 1991), and Table 8 (1992 forward).

1970 forward: Edison Electric Institute, *Statistical Yearbook of the Electric Utility Industry*, Table 43 (1970-1979), Table 26 (1980-1983), Table 28 (1984-1986), and Table 29 (1987 forward).

Consumption

1970 forward: Energy Information Administration, State Energy Data System, electric utility sector heavy oil consumption.

Conversion Factors: All Years

Because Btu prices are available directly from the data sources, no conversion factors are used.

Industrial Sector

The industrial sector residual fuel prices for 1984 forward are developed from refiner/reseller prices of residual fuel as published in the *Petroleum*

Marketing Annual. Residual fuel prices for 1970 through 1983 are calculated or estimated by using average costs of residual fuel to manufacturing firms published in two Bureau of the Census reports and *Platt's Oil Price Handbook and Oilmanac*. Price data in these sources are available for the years 1971 and 1974 through 1981; prices for 1970, 1972, 1973, 1982, and 1983 are estimated. Prices for all years include taxes.

Physical Unit Prices: 1984 Forward

Residual fuel industrial sector physical unit prices are calculated by using refiner/reseller prices to end users from the *Petroleum Marketing Annual (PMA)*. The States that do not have PMA prices are assigned their PAD district or subdistrict price as shown in Table A35, with the exception of AK. AK industrial residual fuel price for 1984 forward is based on the WA industrial residual fuel price and the ratio of the AK-to-WA industrial distillate fuel prices for each year. Tax data are added to develop final sector prices.

Physical Unit Prices: 1982, 1983

After 1981, the U.S. Department of Commerce's *Annual Survey of Manufactures* and the *Census of Manufactures (ASM/CM)* ceased publication of fuel-specific State-level residual fuel data from which prices can be calculated. Prices for 1982 and 1983 are estimated from the average relationship between the ASM/CM-based prices generated for 1978 through 1981 and the assigned *Platt's* No. 6 fuel oil prices for 1978 through 1981 (Table A36). These average ratios are calculated at the State-level for all States except AK, which shows no industrial sector residual fuel use reported in SEDS for 1982 and 1983. Physical unit residual fuel industrial prices for 1982 and 1983 are calculated by using the assigned *Platt's* prices for 1982 and 1983 (Table A36) and the State-level average ratios. The resulting estimates implicitly include taxes that reflect individual State differences.

Physical Unit Prices: 1971, 1974 Through 1981

For the years 1971 and 1974 through 1981, industrial sector residual prices are calculated directly from cost and quantity data reported by the

Table A35. Residual Fuel Industrial Sector Price Assignments, 1984 Forward

State	Years	PAD District Prices Assigned
AR	1985	PAD District III
AZ	1984-1991, 1993	PAD District V
CO	1986, 1988, 1991-1994	PAD District IV
DC	1994	PAD Subdistrict IB
ID	1985, 1986, 1989-1994	PAD District IV
MS	1988, 1991, 1992	PAD District III
MT	1992, 1994	PAD District IV
ND	1988-1992	PAD District II
NM	1984-1986, 1990, 1991, 1993, 1994	PAD District III
NV	1986, 1988, 1991-1994	PAD District V
OK	1992-1994	PAD District II
OR	1989	PAD District V
SC	1993, 1994	PAD Subdistrict IC
SD	1990-1994	PAD District II
UT	1989-1992	PAD District IV
WI	1994	PAD District II
WV	1984	PAD Subdistrict IC
WY	1989-1991, 1993, 1994	PAD District IV

ASM/CM. For all States with available cost and quantity data, prices are equal to the average cost of residual fuel to manufacturers. Taxes are included in the published cost data. Missing data for these years are assigned from the average prices of adjacent States, as shown in Table A37.

Physical Unit Prices: 1970, 1972, 1973

Since *ASM/CM* data are not available for 1970, 1972, or 1973, prices for these years must be estimated. Physical unit prices are based on the ratio of the 1971 *CM* prices to the 1971 assigned No. 6 fuel oil prices from *Platt's Oil Price Handbook and Oilmanac* (Table A36). The estimated 1971 *CM* prices for NM and WY are used in the calculations. The resulting ratios for each State are used with the *Platt's* assigned prices for

Table A36. No. 6 Fuel Oil Price Assignments from Platt's, 1970-1983

State	Years	City or State Prices Assigned	State	Years	City or State Prices Assigned
AK	1970-1972, 1975, 1977-1980	Los Angeles, CA	MT	1970-1983	Minneapolis/St. Paul, MN
	1973-1974, 1976	Los Angeles/San Francisco, CA	NC	1970-1983	Wilmington
	1981-1983	Los Angeles, CA; San Francisco, CA	ND ¹	1970-1983	Minneapolis/St. Paul, MN
AL	1970-1983	Savannah, GA	NE	1970-1972, 1975, 1977-1980	Los Angeles, CA
AR	1970-1983	Arkansas		1973, 1974, 1976	Los Angeles/San Francisco, CA
AZ	1970-1972, 1975, 1977-1980	Los Angeles, CA		1981-1983	Los Angeles, CA; San Francisco, CA
	1973-1974, 1976	Los Angeles/San Francisco	NH	1970-1983	Portland, ME
	1981-1983	Los Angeles, CA; San Francisco, CA	NJ	1970-1972	New Jersey
CA	1970-1972, 1975, 1977-1980	Los Angeles		1974, 1975	New York, NY; Albany, NY; Buffalo, NY
	1973-1974, 1976	Los Angeles/San Francisco		1976-1983	New York, NY; Albany, NY
	1981-1983	Los Angeles; San Francisco	NM	1970-1972, 1975, 1977-1980	Los Angeles, CA
CO ¹	1970-1983	Minneapolis/St. Paul, MN		1973, 1974, 1976	Los Angeles/San Francisco, CA
CT	1970-1983	New Haven		1981-1983	Los Angeles, CA; San Francisco, CA
DC	1970-1983	Baltimore, MD	NV	1970-1972, 1975, 1977-1980	Los Angeles, CA
DE	1970-1983	Baltimore, MD		1973, 1974, 1976	Los Angeles/San Francisco, CA
FL	1970-1972	Jacksonville; Miami; Tampa; Port Everglades		1981-1983	Los Angeles, CA; San Francisco, CA
	1973-1975	Jacksonville; Miami; Tampa	NY	1970-1975	New York; Albany; Buffalo
	1976-1983	Jacksonville/Miami		1976-1983	New York; Albany
GA	1970-1983	Savannah	OH ¹	1970	Toledo
HI	1970-1972, 1975, 1977-1980	Los Angeles, CA		1971-1983	Detroit, MI
	1973, 1974, 1976	Los Angeles/San Francisco, CA	OK ²	1970-1977, 1979	Group 3 (Oklahoma)
	1981-1983	Los Angeles, CA; San Francisco, CA		1978, 1980-1983	New Orleans, LA
IA ¹	1970-1983	Chicago, IL	OR	1970-1972, 1975, 1977-1980	Los Angeles, CA
ID	1970-1972, 1975, 1977-1980	Los Angeles, CA		1973, 1974, 1976	Los Angeles/San Francisco, CA
	1973, 1974, 1976	Los Angeles/San Francisco, CA		1981-1983	Los Angeles, CA; San Francisco, CA
	1981-1983	Los Angeles, CA; San Francisco, CA	PA	1970-1983	Philadelphia
IL ¹	1970-1983	Chicago	RI	1970-1975	Providence
IN ¹	1970-1983	Chicago, IL		1976-1983	New Haven, CT
KS	1970	Baton Rouge, LA; New Orleans, LA	SC	1970-1983	Charleston
	1971-1983	New Orleans, LA	SD ¹	1970-1983	Minneapolis/St. Paul, MN
KY	1970	Baton Rouge, LA; New Orleans, LA	TN	1970	Baton Rouge, LA; New Orleans, LA
	1971-1983	New Orleans, LA		1971-1983	New Orleans, LA
LA	1970	Baton Rouge; New Orleans	TX	1970-1972	New Mexico/West Texas
	1971-1983	New Orleans		1973-1983	New Orleans, LA
MA	1970-1983	Boston	UT ¹	1970-1983	Minneapolis/St. Paul, MN
MD	1970-1983	Baltimore	VA	1970-1983	Norfolk
ME	1970-1983	Portland	VT	1970-1983	Portland, ME
MI ¹	1970-1983	Detroit	WA	1970-1972, 1975, 1978, 1979	Los Angeles, CA
MN ¹	1970-1983	Minneapolis/St. Paul		1973, 1974, 1976	Los Angeles/San Francisco, CA
MO ¹	1970-1973	Chicago, IL		1980-1983	Seattle/Tacoma
	1974-1983	St. Louis	WI ¹	1970-1983	Chicago, IL
MS	1970	Baton Rouge, LA; New Orleans, LA	WV	1970-1983	Norfolk, VA
	1971-1983	New Orleans, LA	WY ¹	1970-1983	Minneapolis/St. Paul, MN

¹Data from Platt's are converted from cents per gallon to dollars per barrel.²As shown in Platt's.

1970, 1972, and 1973 to estimate prices. The final estimates implicitly include State-specific taxes.

Btu Prices: All Years

Btu prices for States are calculated from the physical unit prices and the conversion factor. U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS, which are adjusted for process fuel consumption.

Data Sources

Prices

1984 forward: Energy Information Administration, *Petroleum Marketing Annual*, Table A4 (1984-1990), Table A3 (1991 forward).

1984 forward: Industrial sector distillate fuel price estimates from the SEPER data system (AK and WA only).

1970-1983: McGraw-Hill, Inc., *Platt's Oil Price Handbook and Oilmanac*, refinery and terminal prices for No. 6 fuel oil, average of highs and lows.

Table A37. Residual Fuel Industrial Sector Price Assignments, 1971, 1974-1981

State	Years	State Prices Used
AK	1980, 1981	HI, WA
DC	1979-1981	MD, VA
MT	1974-1979	ID, ND, SD
ND	1980	MN, MT, SD
NM	1971, 1974-1981	AZ, CO, TX
NV	1974-1978	AZ, CA, ID, OR, UT
OK	1974-1978, 1980	AR, CO, KS, MO, TX
SD	1981	IA, MN, MT, ND, NE
WY	1971, 1974-1981	CO, NE, UT

1971, 1977, 1981: Bureau of the Census, U.S. Department of Commerce, *Census of Manufactures, Fuels and Electric Energy Consumed*, Part 2, Table 3. (Dates shown on the report covers are, respectively, 1972, 1977, and 1982.)

1974-1976 and 1978-1980: Bureau of the Census, U.S. Department of Commerce, *Annual Survey of Manufactures, Fuels and Electric Energy Consumed, States by Industry Group*, Table 3.

Taxes

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism*, Tables 14 and 26.

1993: Bureau of the Census, U.S. Department of Commerce, *State Tax Review*, Volume 34, No. 31, map titled "State Gasoline, Sales, and Cigarette Tax Rates as of July 1, 1993," sales tax rates.

1987-1992: Bureau of the Census, U.S. Department of Commerce, *State Government Tax Collections*, Table 8, column titled "Percentage rate, September 1."

1984-1986: Bureau of the Census, U.S. Department of Commerce, *Statistical Abstract of the United States*, table titled "State Government Tax Collections and Excise Taxes," column titled "Excise Taxes, General sales and gross receipts."

Consumption

1970 forward: Energy Information Administration, State Energy Data System, industrial sector residual consumption.

Conversion Factor: All Years

6.287 million Btu per barrel.

Commercial Sector

For 1984 forward, State-level commercial sector residual fuel prices are developed from refiner/reseller prices of residual fuel to end users published in the *PMA*. For 1970 through 1983, commercial sector residual fuel prices are estimated for all States from national-level residual fuel prices and the State-level electric utility sector residual fuel prices. State and Federal taxes are included in the final prices for all years.

Physical Unit Prices: 1984 Forward

Commercial sector residual fuel physical unit prices are based on refiner/reseller prices to end users from the *PMA*. The States that do not have *PMA* prices are assigned their PAD district or subdistrict price (Table A38), with the exception of AK. The AK commercial residual fuel prices for 1984 forward are based on the WA commercial residual fuel price and the ratio of the AK-to-WA commercial distillate fuel prices for each year. Tax data are added to develop final prices.

Physical Unit Prices: 1976 Through 1983

The commercial sector residual fuel physical unit prices for 1976 through 1983 are estimated from the electric utility residual fuel prices and the U.S. average retail residual fuel prices (with taxes added) for each year. The resulting price estimates implicitly include taxes that reflect individual State differences.

1. The first step in the estimation of the commercial residual fuel physical unit State prices is to convert the State-level tax rates reported in the Bureau of the Census publications into the volume-weighted average U.S. sales tax rate by using commercial residual consumption data from SEDS.
2. A preliminary U.S. residual fuel oil price, including taxes, is computed by using the average U.S. tax rate estimated above and the annual average U.S. residual fuel price to end users (average retail price excluding taxes) from the *Monthly Energy Review (MER)*.

Table A38. Residual Fuel Commercial Sector Price Assignments, 1984 Forward

State	Years	PAD District Prices Assigned
AZ	1984, 1985, 1988, 1991	PAD District V
CO	1986, 1992, 1993	PAD District IV
DC	1994	PAD Subdistrict IB
ID	1985, 1986, 1989-1994	PAD District IV
MS	1988, 1991, 1992	PAD District III
MT	1992, 1994	PAD District IV
ND	1986, 1989-1992	PAD District II
NM	1984, 1985	PAD District III
NV	1986, 1988, 1991, 1992	PAD District V
OK	1992	PAD District II
OR	1989	PAD District V
SC	1993, 1994	PAD Subdistrict IC
SD	1990-1994	PAD District II
UT	1989-1992	PAD District IV
WI	1994	PAD District II
WV	1984	PAD Subdistrict IC
WY	1989-1991, 1994	PAD District IV

3. Commercial sector physical unit residual fuel prices for States are computed by using the electric utility sector residual fuel prices. To do this calculation, the ratio of the State-level and U.S. prices in the commercial sector is assumed to be the same as the ratio of State and U.S. prices in the electric utility sector. Some States are missing electric utility prices for 1976 through 1983; these are estimated by using adjacent States' average prices (Table A39).

Physical Unit Prices: 1970 Through 1975

Because no national or State-level retail residual prices are available from published data sources, commercial sector residual prices for 1970 through 1975 are estimated. The estimation method is based on the assumption that the average ratio of State-to-U.S. prices is the same in the commercial and electric utility sectors. The average ratio for 1976 through 1979 of the *MER* U.S. tax-adjusted prices to the electric utility sector U.S. prices is calculated and used as an adjustment factor with

State-level electric utility sector prices for 1970 through 1975. The resulting price estimates implicitly include taxes that reflect individual State differences.

1. The average ratio of the *MER* tax-adjusted U.S. prices and the electric utility sector U.S. prices is calculated for 1976 through 1979.
2. State-level commercial sector residual fuel prices are calculated by using the electric utility sector physical unit price series for 1970 through 1975 and the average ratio computed above. Price assignments for States missing electric utility sector data are shown in Table A39.

Table A39. Residual Fuel Commercial Sector Price Assignments, 1970-1983

State	Years	State Prices Used in the Estimation
AL	1970-1974, 1980, 1982, 1983	FL, GA, MS
ID	1980, 1981, 1983	CA, CO
IN	1980-1983	CA
KY	1980-1983	IL, MI, OH
MT	1980, 1983	IL, MO, OH, VA
	1982	CO, MN
NC	1981, 1983	MN
ND	1980, 1983	GA, VA
	1981, 1982	MN, SD
OR	1975-1983	MN
TN	1970-1978, 1980-1983	CA
VT	1980-1983	AR, GA, MO, MS, VA
WI	1982, 1983	ME, NH, NY
WV	1980-1983	IL, MI, MN
WY	1980	MD, OH, PA, VA
	1981, 1983	CO, NE, SD, UT
	1982	CO
		MN

Btu Prices: All Years

Btu prices for States are calculated from the physical unit prices and the conversion factor. U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Data Sources

Prices

1984 forward: Energy Information Administration, *Petroleum Marketing Annual*, Table A4 (1984-1990), Table A3 (1991 forward).

1984 forward: Commercial sector distillate fuel price estimates from the *SEPER* data system (AK and WA only).

1978-1983: Energy Information Administration, *Monthly Energy Review*, December 1988, table titled "Refiner Sales Prices of Residual Fuel Oil," column titled "Average Sales to End Users."

1976, 1977: Energy Information Administration, *Monthly Energy Review*, December 1983, table titled "Average No. 6 Residual Fuel Oil Prices," column titled "Average, Retail."

1970-1983: Electric utility sector residual fuel price estimates (in physical units) from the *SEPER* data system.

Taxes

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism*, Tables 14 and 26.

1993: Bureau of the Census, U.S. Department of Commerce, *State Tax Review*, Volume 54, No. 31, map titled "State Gasoline, Sales, and Cigarette Tax Rates as of July 1, 1993," sales tax rates.

1987-1992: Bureau of the Census, U.S. Department of Commerce, *State Government Tax Collections*, Table 8, column titled "Percentage rate, September 1."

1976-1986: Bureau of the Census, U.S. Department of Commerce, *Statistical Abstract of the United States*, table titled "State Government Tax Collections and Excise Taxes," column titled "Excise Taxes, General sales and gross receipts."

Consumption

1970 forward: Energy Information Administration, State Energy Data System, commercial sector residual fuel consumption.

Conversion Factor: All Years

6.287 million Btu per barrel

Transportation Sector

Residual fuel is consumed in the transportation sector for vessel bunkering, military use, and railroads. In 1970, vessels consumed 74 percent of the transportation use of residual fuel, and the military and railroads accounted for 24 percent and 2 percent, respectively. By 1994, vessel use had grown to 99 percent, military use had dropped to 1 percent, and the railroads' share was insignificant. Prices are developed for vessel bunkering, and electric utility prices are assigned to the military and railroad uses. Tax adjustments are made as described below. The transportation sector average price for each State and year is the consumption-weighted average of the prices of the three uses.

Physical Unit Prices: All Years

Vessel Bunkering. Physical unit prices are calculated from actual or estimated U.S. average bunker C prices and electric utility State and U.S. residual fuel prices for each year. The ratio of U.S. bunker C price to U.S. residual fuel electric utility price is multiplied by the State residual fuel electric utility price to obtain the State bunker C price. Taxes are calculated as described for the commercial sector (1976 through 1983) and added, so that final State vessel bunkering price estimates implicitly include State-specific taxes. Other procedures are described separately by groups of years:

1. For 1982 forward, national average prices for residual fuel with sulfur content greater than 1 percent are taken from the *Annual Energy Review* and used as proxies for bunker C prices.
2. For 1975 through 1981, national average bunker C prices are available from the *Monthly Petroleum Product Price Report (MPPPR)*. Annual average U.S. prices for 1975 and 1976 are calculated as the simple average of the monthly prices for each respective year because annual average prices are not shown in the *MPPPR*.
3. For 1970 through 1974, no U.S. bunker C prices are available. To estimate State-level prices for these years, the average ratio of published bunker C prices and electric utility sector prices for 1975 through 1979 is calculated and multiplied by the State-level electric utility prices for 1970 through 1974.

Missing State prices are assigned adjacent States' average prices as shown in Table A40.

Military and Railroad Use. For all years, electric utility sector residual fuel prices are assigned to military and railroad uses. The electric utility prices include taxes. Since the military does not pay State taxes, their prices are adjusted to remove taxes. Estimation of the tax adjustment is described under the commercial sector.

In some cases, States have no reported consumption of residual fuel oil in the electric utility sector and, therefore, no final price in that sector. Since the electric utilities sector prices are used as a base in the calculation of prices in the other sectors, intermediate prices are calculated for OR in 1971 and for all States that need prices for 1987 forward.

Average Prices. Transportation sector prices are the average of bunker fuel, military, and railroad prices, weighted by each category's share of total transportation consumption from SEDS.

Btu Prices: All Years

Btu prices for States are calculated from the physical unit prices and the residual fuel conversion factor. U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Table A40. Residual Fuel Transportation Sector Price Assignments, 1970-1986

State	Years	State Prices Used in the Estimation
AL	1970-1974, 1980-1986	FL, GA, MS
CO	1986	KS, NM, UT
CT	1978	NH, VT
DC	1975	MD
	1978	PA
GA	1978	KY, MS
ID	1970, 1979	CA, CO
IL	1975	IA, IN, WI
IN	1980-1986	IL, MI, OH
KS	1975	MO, NE
KY	1980-1984	IL, MO, OH, VA
MD	1978	DE, PA
ME	1975	VT
MN	1986	IL, MI
MT	1983-1985	CO, MN, SD
NC	1975	GA
	1978	KY
	1981, 1983, 1985, 1986	GA, VA
ND	1982-1984	MN, SD
	1986	SD
NH	1975	VT
NM	1983, 1984	CO
NV	1975, 1978	CA
OH	1975	IN, MI
OK	1975	MO, TX
OR	1972	CA, WA
	1975-1986	CA
SC	1975, 1984	GA
	1978	AL, FL
SD	1975, 1978	MN, ND
TN	1970, 1971, 1973, 1974, 1976, 1977, 1980-1982	AR, GA, MO, MS, VA
	1975	AR, GA, MO, MS
	1978	AR, MO, MS
UT	1984	AZ, CO, NV
	1975	CO
VA	1975	GA
	1978	KY
WA	1984, 1985	CA
WI	1978, 1982-1985	IL, MI, MN
	1986	IL, MI
WV	1985	MD, OH, PA, VA
WY	1981, 1982, 1985	CO, MN, SD

Data Sources

Prices

1982 forward: Energy Information Administration, *Annual Energy Review 1995*, Table 5.20, row titled "Sales Prices to End Users, Residual Fuel Oil, Greater Than 1 Percent Sulfur Content."

1976-1981: Energy Information Administration, *Monthly Petroleum Product Price Report*, Table 3.

1975: Federal Energy Administration, *Monthly Petroleum Product Price Report*, Table 3.

1970-1986: Electric utility sector residual fuel price estimates (in physical units) from SEPEDS.

Taxes

1994: U.S. Advisory Committee on Intergovernmental Relations, *Significant Features of Fiscal Federalism*, Tables 14 and 26.

1993: Bureau of the Census, U.S. Department of Commerce, *State Tax Review*, Volume 54, No. 31, map titled "State Gasoline, Sales, and Cigarette Tax Rates as of July 1, 1993," sales tax rates.

1987-1992: Bureau of the Census, U.S. Department of Commerce, *State Government Tax Collections*, Table 8, column titled "Percentage rate, September 1."

1976-1986: Bureau of the Census, U.S. Department of Commerce, *Statistical Abstract of the United States*, table titled "State Government Tax Collections and Excise Taxes," column titled "Excise Taxes, General sales and gross receipts."

Consumption

1970 forward: Energy Information Administration, State Energy Data System, transportation sector residual fuel consumption, including the subcategories for vessel bunkering, military, and railroad uses.

Conversion Factor: All Years

6.287 million Btu per barrel.

Sixteen separate products are included in the category called "other petroleum." Of the 16 products, prices are developed for the 7 noted with asterisks (*) below and described in the following paragraphs. All of these products are assigned to the industrial sector:

1. Aviation gasoline blending components
2. Crude oil
3. Miscellaneous products (*)
4. Motor gasoline blending components
5. Natural gasoline, including isopentane (1970-1983)
6. Pentanes plus (1984 forward)
7. Petrochemical feedstocks, naphtha (*)
8. Petrochemical feedstocks, other oils (*)
9. Petrochemical feedstocks, still gas (1970-1985) (*)
10. Petroleum coke (*)
11. Plant condensate (1970-1983)
12. Special naphthas (*)
13. Still gas
14. Unfinished oils
15. Unfractionated stream (1970-1983)
16. Waxes (*)

Physical Unit Prices: All Years

Only national-level prices are developed for the seven other petroleum products because State-level price information is not available, and taxes are not included in any of the estimates. Consumption for the other nine products are completely removed as process fuel or intermediate

products. (See the "Consumption Adjustments for Calculating Expenditures" section on page 413.)

Starting in 1984, three products—natural gasoline, plant condensate, and unfractionated stream—are dropped, and pentanes plus is added in the Energy Information Administration (EIA) reporting system that is the basis of the consumption estimates. Natural gasoline (including isopentane) and plant condensate are reported together as the new product, pentanes plus. Unfractionated stream is dropped because its components are reported separately as liquefied petroleum gases.

Miscellaneous Products

The products in this category vary from inexpensive (absorption oils similar to kerosene) to very expensive (hydraulic fluids). The price estimates are based on the evidence presented in the Bureau of Mines *Minerals Yearbooks* of the 1970's indicating that the greater part of the miscellaneous product line consists of finished petrochemicals, especially the aromatic hydrocarbons: benzene, toluene, and the xylenes.

Price estimates for 1972, 1977, 1982, 1987, and 1992 are taken from *Census of Manufactures (CM)* data on quantity and value of "aromatics" and "other finished petroleum products" shipped by petroleum refining industries, i.e., Standard Industrial Code (SIC) 2911. The ratio of miscellaneous-products-to-crude-oil price for these 5 years varies widely. The following ratios, shown rounded, are used to estimate miscellaneous products prices for the years indicated:

1970 - 1974:	1.91 times the crude oil price
1975 - 1979:	2.42 times the crude oil price
1980 - 1984:	1.56 times the crude oil price
1985 - 1989:	1.99 times the crude oil price
1990 - forward:	1.86 times the crude oil price.

Quantity data for 1992 are published in pounds and are converted to barrels by use of the conversion factors of 7.282 pounds per gallon and 42 gallons per barrel.

Price Data Sources

1970 Forward: Energy Information Administration, *Annual Energy Review 1995*, Table 5.19, column titled "Composite, Nominal."

1972, 1977, 1982, 1987, 1992: Bureau of the Census, U.S. Department of Commerce, *Census of Manufactures*, data for Standard Industrial Code (SIC) 2911 on "Quantity and Value of Shipments by All Producers" as shown in Table 6a from MC77-I-29A, Product Codes 2911054, 2911056 (1972 and 1977); Table 6a-1 from MC87-I-29A, Product Codes 2911D55 and 2911D57 (1982 and 1987); and Table 6a-1 from MC92-I-29A, Product Codes 2911D 55 and 2911D 57 (1992).

Physical Unit Conversion Factors

1992: Gas Processors Suppliers Association in cooperation with the Gas Processors Association, *Engineering Data Book*, 9th Edition, 1972, 4th Revision, 1979, pages 16-2 and 16-3, lines 42-47.

Petrochemical Feedstocks, Naphtha

Naphthas for petrochemical feedstock use are those oils with boiling points less than 401° F. Consumer prices for 1978 through 1980 are derived from the special *Annual Survey of Manufactures (ASM)* series on "Hydrocarbon, Coal, and Coke Materials Consumed" by using data for industries in SIC 2869 (industrial organic chemicals) and SIC 2821 (plastics materials, synthetic resins, and nonvulcanizable elastomers). A price estimate for 1982 is obtained from the *CM*, and is based on data for SIC 2869 only. Since the ratio of petrochemical-naphtha-to-crude-oil price is reasonably constant in 1978, 1979, 1980, and 1982, the simple average of the four ratios, 1.23, is used to estimate prices for petrochemical feedstocks, naphthas, for all other years.

Price Data Sources

1970-1977, 1981, 1983 forward: Energy Information Administration, *Annual Energy Review 1995*, Table 5.19, column titled "Composite, Nominal."

1982: Bureau of the Census, U.S. Department of Commerce, *1982 Census of Manufactures*, M82-I-28F-3(P), page 6, SIC 2869.

1980: Bureau of the Census, U.S. Department of Commerce, *1980 Annual Survey of Manufactures*, M80(AS)-4.3, page 9, SIC 2821.

1978, 1979: Bureau of the Census, U.S. Department of Commerce, *1979 Annual Survey of Manufactures*, M79(AS)-4.3, page 8, SIC 2821 and 2869.

Petrochemical Feedstocks, Other Oils

Petrochemical feedstocks referred to as "other oils" or "gas oils" are those oils with boiling points equal to or greater than 401° F. Consumer prices for 3 years are obtained from the data on gas oils presented in the special *ASM* series on hydrocarbons consumed by using data for industries in SIC 2865 (cyclic crudes and intermediates). The other-oils-to-crude-oil price ratio is quite stable, and the average ratio for the 3-year period, 1.607, is used to estimate prices for petrochemical feedstocks, other oils, for all other years.

Price Data Sources

1970-1977, 1981 forward: Energy Information Administration, *Annual Energy Review 1995*, Table 5.19, column titled "Composite, Nominal."

1979, 1980: Bureau of the Census, U.S. Department of Commerce, *1980 Annual Survey of Manufactures*, M80(AS)-4.3, page 9, SIC 2865.

1978: Bureau of the Census, U.S. Department of Commerce, *1979 Annual Survey of Manufactures*, M79(AS)-4.3, page 8, SIC 2865.

Petrochemical Feedstocks, Still Gas (1970 Through 1985)

The source data for still gas is a mixture of consumer prices and producer prices for industries in SIC 2869 and SIC 2911 (petroleum refining). The still-gas-to-crude-oil price ratio is somewhat variable because still gas is a highly variable gaseous mixture. Value and quantity are available for 1972, 1977 through 1980, and 1982. In imputing prices

for years when data from the CM or ASM are not available, the average still-gas-to-crude-oil price ratio, 0.739, is used. After 1985, EIA data series no longer report feedstock and refinery use of still gas separately and all SEDS industrial consumption is removed from *SEPER*. (See the "Consumption Adjustments for Calculating Expenditures" section on page 413.)

Price Data Sources

1970, 1971, 1981, 1983-1985: Energy Information Administration, *Annual Energy Review 1995*, Table 5.19, "Composite, Nominal."

1982: Bureau of the Census, U.S. Department of Commerce, *1987 Census of Manufactures*, MC87-1-29A, Table 6a, SIC 2911.

1979, 1980: Bureau of the Census, U.S. Department of Commerce, *1980 Annual Survey of Manufactures*, M80(AS)-4.3, page 9, SIC 2869.

1978: Bureau of the Census, U.S. Department of Commerce, *1979 Annual Survey of Manufactures*, M79(AS)-4.3, page 28, SIC 2869.

1972, 1977: Bureau of the Census, U.S. Department of Commerce, *1977 Census of Manufactures*, MC77-1-29A, page 29A-20, SIC 2911.

Petroleum Coke

Petroleum coke is consumed by the industrial and electric utility sectors. The portion of petroleum coke consumed by the electric utility sector (about 3 percent in 1994) is described in the *Petroleum Coke (Utilities)* section on page 387. The remaining petroleum coke is marketed to industrial consumers in two forms, calcined and uncalcined. Calcined coke is about three times as expensive as uncalcined. A quantity-weighted U.S. average price is calculated by using U.S. Department of Commerce exports data and is assigned to all States with industrial petroleum coke consumption. The weighted average price is calculated by dividing the sum of the values of calcined and uncalcined petroleum coke exports by the sum of the two quantities exported. The physical unit conversion factor for petroleum coke is 5 barrels per short ton.

Price Data Sources

1989 forward: Bureau of the Census, U.S. Department of Commerce, December issues of EM-545, *Foreign and Domestic Exports*, for Petroleum Coke, Not Calcined, Commodity 2713110000 and Petroleum Coke, Calcined, Commodity 2713120000.

1988: Bureau of the Census, U.S. Department of Commerce, December issue of EM-522, *U.S. Exports, Schedule B, Commodity by Country*, Petroleum Coke, Except Calcined, Commodity 5213150, and Petroleum Coke, Calcined, Commodity 5175120.

1987: Bureau of the Census, U.S. Department of Commerce, December issue of EM-622, *U.S. Exports, Schedule B, Commodity by Country*, Petroleum Coke, Except Calcined, Commodity 5213150, and Petroleum Coke, Calcined, Commodity 5175120.

1986: Bureau of the Census, U.S. Department of Commerce, December issue of EM-546, *U.S. Exports, Schedule B, Commodity by Country*, Petroleum Coke, Except Calcined, Commodity 5213150, and Petroleum Coke, Calcined, Commodity 5175120.

1978-1985: Bureau of the Census, U.S. Department of Commerce, FT-446, *U.S. Exports, Schedule B, Commodity by Country*, Petroleum Coke, Except Calcined, Commodity 5213150, and Petroleum Coke, Calcined, Commodity 5175120.

1970-1977: Bureau of the Census, U.S. Department of Commerce, December issues of FT-410, *U.S. Exports, Schedule B, Commodity by Country*, Petroleum Coke, Except Calcined, Commodity 3329420, and Petroleum Coke, Calcined, Commodity 3329410.

Special Naphthas

Prices for special naphthas are developed as the simple averages of the city prices for "varnish makers and painters naphtha" and two types of "solvent naphtha" that are published in the *Chemical Marketing Reporter*. For 1984 forward, the prices are averaged from the first issue of each month; for 1974, 1979, and 1980, when petroleum prices were increasing rapidly, prices are averaged from 10 randomly-selected issues;

and for all other years, prices are averaged from at least 5 randomly-selected issues.

Price Data Source

1970 forward: Schnell Publishing Co., Inc., *Chemical Marketing Reporter*, selected monthly issues.

Waxes

Waxes data include fully refined crystalline wax, other refined crystalline wax, and microcrystalline wax. Price estimates for 1970 through 1973 and 1986 forward are obtained by dividing the value of exports by the quantity exported. For 1974 through 1985, prices are estimated by applying price indices to a representative base price. Producer prices for 1967 for the three waxes are available from data in the 1967 *Census of Manufactures*. A weighted-average price for 1967 of \$15.75 per barrel is obtained by summing the values of shipments of the three waxes and dividing the sum by the total quantity shipped. An annual composite price index for these three waxes is listed in the Bureau of Labor Statistics publication *Producer Prices and Producer Price Indexes* for April 1974 through June 1985. Price estimates for 1975 through 1984 are derived by multiplying the published price indices by the estimated 1967 base price. The indices for 1974 and 1985 are estimated as the simple average of monthly price indices that are available for that year. The physical unit conversion factors for wax are 280 pounds per barrel; and 1 pound equals 0.45359237 kilograms.

Price Data Sources

1989 forward: Bureau of the Census, U.S. Department of Commerce, December issues of Report No. EM-545, titled *Foreign and Domestic Exports for Paraffin Wax Less Than 0.75 Percent Oil* (Commodity 2712200000) and *Other Mineral Waxes NESOI* (Commodity 2712900000).

1987, 1988: Bureau of the Census, U.S. Department of Commerce, December issues of Report No. EM-546 (1987) and EM-522 (1988), titled *U.S. Exports, Schedule B, Commodity by Country for Paraffin Wax and*

Other Petroleum Waxes Unblended incl Microcrystalline Wax (Commodity 4925200).

1986: Bureau of the Census, U.S. Department of Commerce, December issue of EM-546, *U.S. Exports, Schedule B, Commodity by Country for Paraffin Wax, Crystalline, Fully Refined* (Commodity 4925210), *Paraffin Wax, Crystalline, Except Fully Refined* (Commodity 4925220), and *Petroleum Waxes, NSPF incl Microcrystalline Wax* (Commodity 4925240).

1974-1985: Bureau of Labor Statistics, U.S. Department of Labor, *Producer Prices and Producer Price Indexes, Annual Supplement*, Commodity Code 0577.

1974-1985: Bureau of the Census, U.S. Department of Commerce, *Census of Manufactures*, 1967, page 29 A-15, quantity and value of shipments of waxes in 1967.

1970-1973: Bureau of the Census, U.S. Department of Commerce, December issues of FT-410, *U.S. Exports, Schedule B, Commodity by Country for Paraffin Wax, Crystalline, Fully Refined* (Commodity 3326220), *Paraffin Wax, Crystalline, Except Fully Refined* (Commodity 3326230), and *Microcrystalline Wax* (Commodity 3326210).

Btu Prices: All Years

Btu prices for the seven petroleum products are calculated by converting physical unit prices from dollars per barrel to dollars per million Btu by using the conversion factors shown in Table A41. The U.S. average price that is developed for each product is assigned to the industrial sector of States in years where there is consumption. The State-level and U.S. "other petroleum" average prices are the average of the seven petroleum products, weighted by SEDS consumption data. The variable State average prices reflect the different mix of products consumed.

Table A42 shows national-level estimated prices and expenditures by the other petroleum product components for the years 1970 through 1994.

Table A41. Other Petroleum Products Btu Conversion Factors

Petroleum Product	Million Btu per barrel
Miscellaneous Products	5.796
Petrochemical Feedstocks	
Naphtha	5.248
Other Oils	5.825
Still Gas	6.000
Petroleum Coke	6.024
Special Naphthas	5.248
Waxes	5.537

Table A42. Other Petroleum Price and Expenditure Estimates for the Industrial Sector, United States, 1970 Through 1994

Year	Petrochemical Feedstocks			Petroleum Cokes	Special Naphthas	Waxes	Miscellaneous Products	Average Price	Total Expenditure
	Naphthas	Other Oils	SNB Gas						
Prices in Dollars per Million Btu									
1970	0.80	0.84	0.43	0.63	1.98	4.14	1.12	0.96	—
1971	.84	.99	.46	.66	2.00	3.97	1.18	1.02	—
1972	.84	.99	.46	.61	2.00	4.23	1.16	1.00	—
1973	.97	1.15	.53	.61	2.08	4.09	1.37	1.12	—
1974	2.13	2.50	1.15	.74	2.60	4.63	2.99	1.95	—
1975	2.43	2.89	1.31	1.42	3.12	4.95	3.85	2.43	—
1976	2.95	3.08	1.38	1.67	3.12	5.51	4.55	2.75	—
1977	2.80	3.30	1.68	1.63	3.12	6.26	4.98	3.05	—
1978	3.24	3.42	1.18	1.69	3.12	7.75	5.20	3.16	—
1979	3.66	4.87	2.68	1.89	5.04	9.49	7.40	4.34	—
1980	6.88	7.84	4.04	2.19	10.48	12.01	7.57	6.58	—
1981	8.26	8.72	4.46	2.76	10.72	13.06	9.81	6.68	—
1982	7.28	8.79	2.72	2.16	10.72	15.76	8.60	7.74	—
1983	6.88	8.00	3.67	1.55	10.72	14.29	7.82	7.55	—
1984	6.71	7.88	3.62	1.86	11.13	13.49	7.72	7.43	—
1985	6.37	7.38	3.39	1.88	10.87	13.58	9.17	7.16	—
1986	5.41	4.91	(*)	1.88	10.73	14.70	4.99	4.81	—
1987	4.29	4.94	(*)	1.80	10.73	13.05	6.14	5.22	—
1988	3.44	4.06	(*)	1.45	10.84	11.89	5.05	4.36	—
1989	4.21	4.98	(*)	1.74	10.80	18.19	6.16	5.16	—
1990	5.21	6.13	(*)	2.02	9.71	14.74	7.13	5.83	—
1991	4.47	5.26	(*)	1.72	9.71	16.39	6.12	5.21	—
1992	4.32	5.09	(*)	1.39	9.71	24.75	5.81	5.00	—
1993	3.85	4.53	(*)	1.08	9.71	19.10	5.27	4.61	—
1994	3.85	4.30	(*)	1.14	9.71	24.75	5.00	4.45	—
Expenditures in Billions of Dollars									
1970	239.3	171.1	32.4	203.6	323.0	105.8	98.3	—	1,171.2
1971	251.7	217.4	44.2	268.7	312.5	115.4	102.4	—	1,307.3
1972	255.4	292.9	41.9	299.8	394.6	126.6	104.4	—	1,425.6
1973	299.8	404.7	38.2	291.1	362.0	178.1	143.9	—	1,704.8
1974	690.7	819.8	98.8	317.5	436.5	174.3	419.8	—	2,857.5
1975	683.3	793.1	123.9	654.8	458.3	188.4	723.4	—	3,000.9
1976	961.3	1,086.8	144.3	712.8	493.2	220.1	1,258.6	—	4,888.2
1977	1,082.6	1,867.1	175.1	827.5	514.2	209.0	1,553.6	—	6,368.2
1978	1,272.3	2,434.3	142.9	795.4	618.3	289.5	1,408.0	—	8,937.7
1979	1,957.4	4,288.8	227.4	798.7	1,011.6	317.6	1,853.1	—	10,945.8
1980	3,173.1	6,564.8	371.8	847.2	2,022.4	388.3	1,798.6	—	15,371.5
1981	3,838.7	7,874.4	190.7	570.6	1,520.6	504.5	1,995.3	—	16,494.7
1982	2,234.5	4,388.5	121.5	386.1	1,418.8	448.9	1,581.8	—	10,816.1
1983	1,828.8	4,982.7	291.5	141.8	1,883.6	442.8	1,288.7	—	9,780.2
1984	1,852.7	3,712.2	251.4	217.1	2,305.4	413.7	1,093.5	—	8,049.0
1985	1,478.5	3,728.8	258.2	241.2	1,732.8	419.9	1,308.2	—	9,185.7
1986	1,164.1	2,449.3	(*)	189.9	1,393.8	449.7	862.4	—	6,329.3
1987	1,469.4	2,742.1	(*)	232.9	1,353.9	453.2	843.0	—	7,334.5
1988	1,222.8	2,360.0	(*)	283.1	1,238.5	408.8	837.9	—	6,343.8
1989	1,030.6	2,784.1	(*)	324.3	1,072.7	608.5	844.2	—	7,290.5
1990	1,811.3	4,821.8	(*)	477.7	1,040.4	481.0	802.9	—	9,424.7
1991	1,395.5	4,350.1	(*)	358.2	854.6	573.7	933.5	—	8,415.6
1992	1,659.0	4,141.4	(*)	380.9	1,015.8	922.0	681.8	—	8,882.8
1993	1,348.4	3,821.3	(*)	250.3	1,015.8	764.4	498.8	—	7,698.2
1994	1,485.5	3,867.0	(*)	298.1	787.4	1,004.3	529.6	—	7,681.9

* Consumption data for this series are not available after 1985. See text.
—Not applicable.

Note: Expenditure totals may not equal sum of components due to independent rounding.
Source: State Energy Price and Expenditure Data System 1994.

Instructions for Locating Data in the Oil and Gas Information Resource System on the EIA *InfoDisc*

Install the EIA *InfoDisc* following the instructions in the disk *readme.txt* file. Install the Oil and Gas Information Resource System application by (1) selecting (double, not single, clicking) the "Energy Databases Button" on the left side of the *InfoDisc* introductory menu screen and then selecting "Oil and Gas Data" or by (2) selecting "Oil and Gas Data" in the "Install Smart Applications" screen.

To select the data used in SEPEDS as distillate fuel prices enter the following responses in the series of OGIRS menu boxes:

- Main Menu prompt, "Run a saved request?" Enter "N"
- Petroleum Marketing
- Selection by Key
- EIA- and B
- Date Menu — Annual Avg.
Select Dates
8300
9400
- Product — Total No. 2 Dist. (select using the space bar)
- Sales — Residential, Commercial, and/or Industrial
- Area — U.S. Total, U.S. State, and/or All PADD Av.
- Data Type — Price
- F10 to run extract
- Select Output and Extract Data
- Choose type of output and give filename

To select the data used for kerosene-type jet fuel prices in SEPEDS, enter the following responses in the series of OGIRS menu boxes:

- Main Menu prompt, "Run a saved request?" Enter "N"
- Petroleum Marketing
- Selection by Table
- Specific column(s) from a Table
- Annual Avg.
- All years (yields 1983–1994)
- Table 36
- Column 3
- Select Output and Extract Data
- Choose type of output and give filename.

Section 5. Renewable Energy Sources

Prices and expenditures for renewables energy sources in the State Energy Price and Expenditure Data System (SEPEDS) are based on consumption estimates from the State Energy Data System (SEDS). Renewable energy sources reported in SEDS include estimates of the residential (including commercial) sector's use of solar and wood energy for 1990 forward; industrial sector consumption of hydroelectric power for all years; industrial use of solar, wind, geothermal, and biofuels from 1990 forward; and electric utilities use of hydropower and geothermal, wind, wood, waste, photovoltaic and solar thermal energy for all years. Transportation use of ethanol is included in the motor gasoline volumes in SEDS for all years.

In SEPEDS, it is assumed that there are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy. SEDS consumption values are adjusted by removing these fuels before calculating SEPEDS energy expenditures as described in Section 7, "Consumption Adjustments for Calculating Expenditures," on page 413.

Prices are estimated for wood and waste in SEPEDS. It is assumed that taxes are included in the prices reported on the Energy Information Administration Residential Energy Consumption Survey and the Manufacturing Energy Consumption Survey, which are used as the basis for the SEPEDS price estimates.

Residential and Commercial Sectors

Physical Unit Prices, 1990 Forward

Prices paid for wood by the residential, including commercial, sector are based on unpublished data from the "1993 Residential Energy Consumption Survey," Form EIA-457. The four Census Region average prices for residential wood in 1993 are assigned to the States within each Census region for all years, 1990 through 1994. The prices are, in dollars per cord, for the Northeast region, \$56.56, the South, \$70.56, the Midwest, \$71.29, and the West \$94.95.

Data Sources

Prices

1990 forward: Energy Information Administration, unpublished data from Form EIA-457, "1993 Residential Energy Consumption Survey," Census region compilation of the answers to questions J-28, and J-33 through J-36.

Consumption

1990 forward: Energy Information Administration, State Energy Data System, residential (including commercial) biofuels consumption adjusted as described in Section 7, "Consumption Adjustments for Calculating Expenditures," on page 413.

Conversion Factor

20 million Btu per cord.

Industrial Sector

Btu Prices, 1990 Forward

The industrial sector biofuels consumption estimates in SEDS and the prices in SEPEDS are developed by dividing the industrial sector consumers into two groups—manufacturing industries, specifically three industrial categories, and nonutility power producers—and separating wood and waste consumption within the categories and groups. The State-level industrial sector biofuels prices are consumption-weighted averages of the consumption and prices of the individual components.

Manufacturing Industries

The EIA "1991 Manufacturing Energy Consumption Survey" (MECS), Form EIA-846, collects unpublished data on quantities consumed in million Btu and expenditures in dollars for five types of biofuels—waste, pulping liquor, roundwood, wood chips, and biomass. At special request, a computer program calculated national average prices in dollars per million Btu for each of these fuel types in 1991. The prices, in dollars per million Btu, are for waste, \$4.57; pulping liquor, \$4.29; roundwood, \$2.73; wood chips, \$1.59; and biomass, \$1.59.

MECS also identifies consumption of the different types of biofuels by the Standard Industrial Classification (SIC) codes 24, 26, and other (assumed to be mostly SIC 25). For each of the three SIC codes, an average biofuels price was calculated by using the consumption of each

of the five types of biofuels to weight the price. These consumption-weighted average prices for the three SIC codes in 1991 were applied to the SEDS estimates of biofuels consumption by SIC code in each State to calculate State-level weighted average prices for 1990 forward.

Nonutility Power Producers

No data are available on prices paid by nonutility power producers for wood and waste. The electric utility sector annual average prices for wood and for waste, separately, for 1990 through 1994 are assigned to the SEDS separate wood and waste consumption estimates for the non-utility power producers in each State to calculate State-level weighted average prices.

Data Sources

Prices

1990 forward: Energy Information Administration, unpublished data from Form EIA-846, "1991 Manufacturing Energy Consumption Survey," national average prices for waste, pulping liquor, roundwood, wood chips, and biomass.

1990 forward: Energy Information Administration, SEPEDS electric utility sector prices for each year, sorted by fuel and consumption-weighted by fuel type.

Consumption

1990 forward: Energy Information Administration, State Energy Data System, industrial biofuels consumption adjusted as described in Section 7, "Consumption Adjustments for Calculating Expenditures," on page 413.

Transportation Sector

Biofuels consumed in the transportation sector as ethanol mixed in gasoline is included in the motor gasoline volumes for all applicable years.

Ethanol quantities and costs are included in the volumes and price of motor gasoline.

Electric Utility Sector

State-level data on the amount of electricity generated at electric utilities from biomass fuels are taken from SEDS and are collected on the EIA "Monthly Power Plant Report," Form EIA-759. All electric utilities are required to report on EIA-759 but no price data are collected. State and national biomass fuels prices in dollars per million Btu are developed for the electric utility sector from data reported on other EIA and Federal Energy Regulatory Commission (FERC) forms and from telephone surveys. Taxes are included in the prices for all years.

Prices: All Years

1989 Forward. State-level prices for biomass fuels used at electric utilities, in dollars per million Btu, are calculated from data obtained from FERC Form 1 and Form EIA-412 and by follow-up telephone surveys of the electric utilities that are not required to submit those forms. For States with more than one utility using biomass fuels, a consumption-weighted average price is calculated. There are anomalies that are unique to biomass fuels used at utilities. In some cases, there is no charge for the fuel. In other cases of municipal and industrial waste, the electric utilities charge a "tipping fee" for accepting the waste. That is, instead of paying for the fuel, the electric utilities are paid to take the fuel. For States where all utilities pay nothing for the fuel or charge a

fee for receiving it (see Table A43), a price of zero is assigned. Although the corresponding consumption is included in calculating the average price for fuels consumed by electric utilities in the State and the United States, the expenditure included is zero. The State and U.S. average electric utility fuel prices are, therefore, slightly lower because some of the fuel did not cost anything.

1983 Through 1988. A U.S. average price in dollars per million Btu is calculated and assigned to all States. The national price is a consumption-weighted average price based on data obtained from FERC Form 1 and Form EIA-412 and by follow-up telephone surveys of the electric utilities that report use of biomass fuels for generating electricity.

Prices are erratic for biomass fuels used at utilities. In addition to the anomalies of no charge for the fuel and the "tipping fee" mentioned above, handling refuse-derived fuel is more labor intensive than handling conventional fossil fuels. The labor expenses are included in the plant's operating costs, not the fuel costs. Biomass fuels prices are also erratic because the demand is relatively small and the pricing mechanism, even for a single facility, may change from year to year. A price or quantity change by a single major user affects the national price more significantly than for any other fuel.

1978 Through 1982. National average prices are derived from data collected on FPC Form 423 and published monthly by EIA in *Cost and Quality of Fuels for Electric Utility Plants (C&Q)*. For these years, fossil-fueled plants with a combined capacity of 25 megawatts or greater were required to report on FPC Form 423. Annual prices of biomass fuels sold to electric utilities are developed as quantity-weighted monthly prices for those plants where wood chips and refuse were used as fuel. Beginning in 1983, the reporting threshold was raised to 50 megawatts, and very few plants reported use of biomass fuels on the Form 423 in 1983 and subsequent years.

A detailed review of data in *C&Q* showed that some entries were in error by factors of 10, 100, or 1,000. Accordingly, the following corrections were made. For 1982, the February, March, and April quantities for the Florida Power Corporation were divided by 1,000 to make them 80, 40, and 60 short tons, respectively. The March, April, and May costs for Northern States Power were multiplied by 100 to make

Table A43. Biomass Fuels Used at Electric Utilities at No Cost or For a Fee, 1989 Forward

State	Years
California	1989-1994
Connecticut	1989-1994
Hawaii	1989, 1990
Montana	1989-1994
Ohio	1989-1993

them \$0.70 per million Btu. For the 5 months from November 1979 through March 1980, the reported quantities of wood delivered to Burlington Electric Co. were divided by 10, in order to place them in the range of 7,980 to 9,390 short tons. For the 8 months from June 1978 through January 1979, seed corn delivered to the Logansport Indiana Electric Department were included in the biomass fuel. For February 1978, the reported quantity of wood delivered to the United Power Associates was divided by 1,000 to make it 90 short tons.

1970 Through 1977. The annual prices for wood chips are derived by deflating the 1978 price by using the gross domestic product implicit price deflator based on 1987 dollars. The deflators are shown in Table A44.

Data Sources

Prices

1983 forward: Energy Information Administration, data reported on FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others," and Form EIA-412, "Annual Report of Public Electric Utilities," and follow-up telephone surveys of the electric utilities that report use of biomass fuels for generating electricity.

Table A44. Price Deflators Used for Biomass Fuels Prices, 1970-1977

Years	Deflator	Years	Deflator
1970	35.1	1975	49.2
1971	37.1	1976	52.3
1972	38.8	1977	55.9
1973	41.3	1978	60.3
1974	44.9		

1978-1982: Energy Information Administration, *Cost and Quality of Fuels for Electric Utility Plants*, table titled "Wood Chips, Refuse, and Petroleum Coke Used as Fuel by Steam-Electric Plants."

1970-1978: Energy Information Administration, *Annual Energy Review 1991*, Appendix C, Gross Domestic Product and Implicit Price Deflator.

Consumption

1970 forward: Energy Information Administration, State Energy Data System, electricity generated from consumption of wood and waste.

Section 6. Electricity

Electricity prices are retail prices for sales to ultimate users. Prices are developed for the residential, commercial, industrial, and transportation sectors. In general, taxes are included in the prices. However, taxes collected by a utility from an end user and turned over to a government authority are generally not included in the revenues reported in the Energy Information Administration (EIA) *Electric Power Annual* or the Edison Electric Institute *Statistical Yearbook* and are not included in the prices. Taxes paid by the utility (rather than the end user) are considered operating costs and are passed on to the end user as part of the rate. Therefore, Federal, State, business, and property taxes are typically included in the prices, while sales and other point-of-purchase taxes usually are not.

Consumption is based on sales by electric utilities to ultimate users. Electricity consumption data by State for the residential, commercial, industrial, and transportation sectors are obtained from the EIA State Energy Data System (SEDS). Consumption of electricity in the industrial sector is adjusted for estimated refinery use in each State. (See the discussion in Section 7, "Consumption Adjustments for Calculating Expenditures," on page 413.)

Physical Unit Prices: 1987 Forward

For 1987 forward, physical unit prices for States are calculated for all four sectors as the average revenue per unit of sales by all electric utilities reporting sales to a State. Revenues and sales data from the *Electric Power Annual* are used to calculate physical unit prices. Data for the

residential and industrial sectors are drawn from their respective columns. Data for the transportation sector are taken from the column titled "Other" that includes sales to railroads and railways. SEDS consumption is used to determine the portion of the data in the column titled "Other" that is not sold to the transportation sector. These data are added to the column titled "Commercial" to arrive at the revenues and sales data for the commercial sector.

For 1987 forward, prices are based on preliminary revenues and sales data in the given year and are replaced with revised data in the following year. There are no missing prices in any of the four sectors.

Physical Unit Prices: 1970 Through 1986

For 1970 through 1986, preliminary physical unit prices for States are calculated for all four sectors as the average revenue per unit of sales by all electric utilities reporting sales to a State. The calculation of physical prices uses the revenues and sales data from the *Statistical Yearbook* for each year in the series. Data for the residential sector and industrial sector are drawn from their respective columns. The commercial sector is the sum of the columns titled "Commercial," "Street and Highway Lighting," "Other Public Authorities," and "Interdepartmental." The transportation sector is the column titled "Railroads and Railways."

For 1980 through 1986, prices are based on preliminary revenues and sales data in the given year and are replaced with revised data in the following year. The only exception to this rule is the revenues data for AR in 1981; preliminary data are used in this case because of an apparent error in the revised data.

For 1970 through 1981, MD prices are assigned to DC. There are no other missing prices for the residential, commercial, and industrial sectors.

In the transportation sector, numerous price assignments are made due to the lack of sector-specific price data. Generally, electricity usage in the transportation sector is small; the sector's electricity use ranged from 0.1 percent to 0.2 percent of total U.S. electricity consumption in 1970 through 1986. From 1970 through 1986, only 15 States used measurable amounts of electricity in the transportation sector (CA, DC, FL, GA, IL, LA, MA, MD, NJ, NY, OH, PA, TN, VA, and WA). A few individual State prices are unavailable and are assigned the commercial sector prices: LA/1970 through 1986, and TN/1970 through 1986. (Prices are available for LA/1970, 1972, 1973, but those prices are replaced by commercial sector prices to maintain a consistent series for the State.) In addition, MA/1985, 1986 transportation prices are estimated by multiplying the MA/1985, 1986 commercial prices by the average of the ratios of the commercial-to-transportation sector prices for 1980 through 1984. Similarly, the VA/1977 transportation price is estimated by multiplying the VA/1977 commercial price by the average of the ratios of the commercial-to-transportation sectors prices for 1978 through 1982.

In order to reconcile national-level electricity prices based on the *Statistical Yearbook* with the EIA national-level electricity prices published in the *Annual Energy Review (AER)*, yearly adjustment factors are calculated for the residential, commercial, and industrial sectors as follows: a preliminary U.S. price for each sector is calculated as the average of the State prices, weighted by SEDS consumption. These preliminary U.S. prices are divided by the national-level electricity prices published in the *AER*, and the quotient is used as an adjustment factor. The preliminary State prices are multiplied by the adjustment factor to produce the final physical unit State prices in those sectors. Since no transportation sector prices are published in the *AER*, no adjustments are made to that sector and the final physical unit prices are derived solely from the *Statistical Yearbook* sales and revenue data. The annual adjustment factors for the residential, commercial, and industrial sectors are shown in Table A45.

Table A45. Annual Electricity Price Adjustment Factors

Year	Residential	Commercial	Industrial
1970	1.05121	1.05712	1.06832
1971	1.05632	1.05926	1.05504
1972	1.05271	1.05514	1.05765
1973	1.06626	1.06166	1.05981
1974	1.06672	1.06096	1.06732
1975	1.09257	1.08096	1.06732
1976	1.07753	1.07755	1.06891
1977	1.06746	1.07675	1.06820
1978	1.06654	1.06273	1.06861
1979	1.06986	1.06349	1.06441
1980	1.04457	1.06109	1.06781
1981	1.05821	1.06943	1.06523
1982	1.06654	1.06351	1.05597
1983	1.05421	1.05301	1.05537
1984	0.99693	1.01924	0.99015
1985	1.00010	1.02008	0.98355
1986	0.99854	1.01518	0.98018

Source: EIA calculations based on data from the *Annual Energy Review* and the *Statistical Yearbook of the Electric Utility Industry*.

Btu Prices: All Years

Btu prices for States are calculated by dividing the physical unit prices by the conversion factor. U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS, adjusted for process fuel consumption in the industrial sector.

Data Sources

Prices

1993 and 1994: Energy Information Administration, *Electric Power Annual 1994 Volume II*, Tables 4 and 6.

1987 through 1992: Energy Information Administration, *Electric Power Annual 1988*, Tables 19 and 21 (1987 data); *Electric Power Annual*, Tables 27 and 29 (1988-1990) and Tables 26 and 28 (1991 and 1992).

1970-1986: Edison Electric Institute, *Statistical Yearbook of the Electric Utility Industry*, tables titled "Revenues: Total Electric Utility Industry" and "Energy Sales: Total Electric Utility Industry."

1970-1986: Energy Information Administration, *Annual Energy Review 1989*, Table 95, "Retail Prices of Electricity Sold by Electric Utilities, 1960-1989."

Consumption

1970 forward: Energy Information Administration, State Energy Data System, electricity consumption by end-use sector.

Conversion Factor: All Years

3,412 Btu per kilowatthour

Nuclear fuel prices are developed for the electric utility sector. State-level data on the amount of electricity generated from nuclear power plants are taken from SEDS. Utilities operating nuclear plants report fuel costs per kilowatthour to the U.S. Department of Energy annually. These data are collected on a plant-by-plant basis and include all taxes, transportation, and handling costs paid by the utilities. The State where the nuclear power plant is located is assigned the reported nuclear fuel cost. For States with two or more nuclear power plants, the average fuel cost, weighted by generation, is attributed to the State.

Physical Unit and Btu Prices: All Years

State-level nuclear fuel prices are estimated in two steps: (1) the total cost of fuels consumed at all nuclear power plants in a State is divided by their total generation of electricity, and (2) the cost per output created in step 1 is divided by an annual U.S. average thermal conversion factor

to create the price in dollars per million Btu. Occasionally, the fuel costs at nuclear power plants include small amounts of non-nuclear fuels, which are necessary to continue essential plant operations during refueling or maintenance of the reactor.

A price is estimated by another method for States where generation and fuel cost data are not available for years in which the *State Energy Data Report (SEDR)* shows nuclear electric power generation. The ratio of the change in the national nuclear fuel price is used to estimate nuclear fuel prices for missing years within a State. The ratio of national prices used in the estimation is the ratio before missing prices are assigned. The States and years for which nuclear prices are estimated are shown in Table A46.

Nuclear electricity generation levels are negative for CO in 1985, for TN in 1986 and 1987, and for OR in 1993, indicating that the nuclear power plants used more energy than they supplied. In these cases, the fuel prices and expenditures are set to zero. In 1986, there is generation in CO but price data are not available. The price for CO in 1986 is estimated by using the ratio of the 1984-to-1986 U.S. average prices and applying that ratio to the 1984 CO price.

Table A46. Nuclear Electricity Fuel Price Estimates, 1970 Through 1989

State	Years
Alabama	1973, 1974, 1976
Arizona	1985
Arkansas	1980
Colorado	1977, 1978, 1982-1984, 1986-1989
Georgia	1974
Maine	1972
Mississippi	1984
Missouri	1984, 1985
North Carolina	1982
Ohio	1986
Oregon	1975
South Carolina	1970, 1985
Tennessee	1980
Washington	1970-1987
Wisconsin	1970

For MO in 1985, a large credit resulting from litigation is assigned to fuel costs, creating an artificially low price. The 1986 MO uranium price, which is in the range of the prices of other nuclear fuel plants, is used to estimate the 1985 price by applying the ratio of the 1986-to-1985 national prices.

The 1985 *Historical Plant Costs and Annual Production Expenses for Selected Electric Plants* has a footnote for the Duke Power Catawba plant in SC stating that the reported production expenses represent only 12.5 percent of the actual production expenses. The production expenses used in the calculation for the Catawba plant are adjusted accordingly.

Prices for GA in 1978, NC in 1982, and OH in 1986 are assigned because the prices calculated by using reported data are significantly different from prices for other years for these States.

There are no prices available for WA in 1970 through 1987 and national prices are assigned for those years.

Data Sources

Prices

1992 forward: Prices are developed by the Energy Information Administration, Office of Coal, Nuclear, and Alternate Fuels, from data compiled by the Utility Data Institute/McGraw-Hill. The data are collected on Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees, and Others," and Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities."

1988-1991: Energy Information Administration, *Electric Plant Cost and Power Production Expenses*, Table 16 (1988-1990) and Table 14 (1991).

1982-1987: Energy Information Administration, *Historical Plant Costs and Annual Production Expenses for Selected Electric Plants*, Table 18 (1982-1984) and Table 20 (1985-1987).

1979-1981: Energy Information Administration, *Thermal Electric Plant Construction Cost and Annual Production Expenses*, pages 267-279 (1979), Table 11 (1980 and 1981).

1975-1978: Energy Information Administration, *Steam Electric Plant Construction Cost and Annual Production Expenses*, "Section II-Nuclear Plants."

1970-1974: Federal Power Commission, *Steam Electric Plant Construction Costs and Annual Production Expenses*, data sheets for Nuclear Plants (1970-1973), and "Section II-Nuclear Plants" (1974).

Consumption

1970 forward: Energy Information Administration, *State Energy Data System*, electricity generated by nuclear power.

Conversion Factors

1970 forward: Energy Information Administration, *State Energy Data Report 1994, Consumption Estimates*, Table D1, as shown in Table A47.

Table A47. Nuclear Steam-Electric Thermal Conversion Factors
(Thousand Btu per Kilowatthour)

Year	Conversion Factor	Year	Conversion Factor
1970	10.977	1983	10.905
1971	10.837	1984	10.843
1972	10.792	1985	10.813
1973	10.903	1986	10.799
1974	11.161	1987	10.776
1975	11.013	1988	10.743
1976	11.047	1989	10.724
1977	10.789	1990	10.680
1978	10.941	1991	10.740
1979	10.879	1992	10.678
1980	10.908	1993	10.682
1981	11.030	1994	10.676
1982	11.073		

Section 7. Consumption Adjustments for Calculating Expenditures

Expenditures developed in the State Energy Price and Expenditure Data System (SEPEDS) and published in this report are calculated by using consumption estimates from the EIA State Energy Data System (SEDS) published in the *State Energy Data Report 1994, Consumption Estimates (SEDR)*, October 1996. Expenditures are calculated by multiplying the price estimates by the consumption estimates, adjusted to remove process fuel, intermediate petroleum products, and other consumption that has no direct fuel costs, i.e., hydroelectric, geothermal, wind, solar and photovoltaic energy sources, and some biofuels.

Almost all aspects of energy production, processing, and distribution consume energy as an inherent part of those activities. SEDS industrial and transportation sector consumption estimates include energy consumed in the process of providing energy to the end-use consumer and are called "process fuel." Familiar examples include drilling for oil and gas, refining crude oil into finished petroleum products, transporting natural gas and petroleum by pipeline, and generating and delivering electricity to end users. Energy products that are subsequently incorporated into another energy product for end-use consumption are called "intermediate products." Motor gasoline blending components are familiar examples of intermediate products that are consumed as part of the finished motor gasoline sold at service stations and other outlets.

Process fuel and intermediate products are not purchased by the end user and, therefore, do not have prices. Although the end user does not consume either process fuel or intermediate products directly, he does pay for them, because the cost to the processor or distributor is passed on to the end user in the price of the final end-user product. If their use was left in the consumption estimates and was assigned prices, the expenditures would be counted twice, first as paid by the "processor" (producer,

processor, or transporter) and again as included in the price to the end user.

Some renewable energy sources are not purchased. These include hydroelectric, geothermal, wind, photovoltaic, and solar thermal energy. The consumption of these sources, which are measured in SEDS as kilowatthours of electricity produced, are not included in SEPEDS expenditure estimates since there are no "fuel costs" involved. Biofuels (wood and waste) are sometimes purchased and sometimes obtained at no cost. Biofuels consumption estimates in the residential (including commercial) and industrial sectors in SEDS are adjusted to remove estimated quantities that were obtained at no cost.

To estimate energy expenditures in SEPEDS, the consumption of process fuel, intermediate products, and some of the renewable energy sources are subtracted from the end-use sector in which they are included in SEDS, either the residential (including commercial), industrial, or transportation sector, because there are no prices associated with them.

Process fuel consumption adjustments include:

1. Fuel (petroleum, natural gas, coal) and electricity consumed at refineries
2. Crude oil lease, plant, and pipeline fuel
3. Natural gas lease and plant fuel
4. Natural gas pipeline fuel
5. Electrical system energy losses (i.e., energy consumed in the generation, transmission, and distribution of electricity).

Intermediate product consumption adjustments include:

1. Aviation gasoline blending components

2. Motor gasoline blending components
3. Natural gasoline (1970 through 1983)
4. Pentanes plus (1984 forward)
5. Plant condensate (1970 through 1983)
6. Unfinished oils
7. Unfractionated stream (1970 through 1983).

Starting in 1984, natural gasoline (including isopentane) and plant condensate are reported together as the new product, pentanes plus, and the components of unfractionated stream are reported separately under liquefied petroleum gases.

Renewable energy consumption adjustments include:

1. Photovoltaic and solar thermal energy in the residential (including commercial) sector, the industrial sector, and at electric utilities
2. Electricity generated from hydropower, geothermal, and wind energy in the industrial sector and at electric utilities
3. Estimated portions of wood and waste consumption in the residential (including commercial) and industrial sectors that were obtained at no cost.

Table A48 shows the quantities of energy, by State, removed from SEDS consumption to calculate SEPEDS expenditures for 1994. State estimates for 1970 through 1994 are available on the State Energy Price and Expenditure Data System internet data files and personal computer diskettes.

Table A49 shows the adjustments made to SEDS national consumption estimates for 1970 through 1994 to derive the net consumption data used to calculate the expenditures in SEPEDS.

Adjustment Procedures

Refinery Fuel. Refinery fuel consumption of distillate fuel, residual fuel, liquefied petroleum gases, other petroleum (crude oil, petroleum coke, and still gas), natural gas, coal, and electricity is individually estimated for each source and subtracted from its State Energy Data System (SEDS) industrial sector total. Because crude oil consumption is not an individual fuel in SEDS for 1970 through 1982, the small amounts of crude oil that were used at refineries during those years were allocated

to residual and distillate fuels consumed at refineries. The allocation from crude oil refinery use to residual and distillate fuels refinery use was made according to each fuel's share of the total crude oil used directly (including losses) as residual and distillate fuels (*Petroleum Supply Annual Volume 1*, Table 2). Over this period, residual fuel ranged from a low share of 75 percent in 1971 to a high share of 92 percent in 1976. Refinery consumption of still gas, excluding still gas consumed as petrochemical feedstocks, is subtracted from the SEDS industrial sector total for 1970 through 1985. Beginning in 1986, EIA data series no longer report refinery fuel and feedstock use separately, and all industrial still gas consumption is removed.

Refinery fuel consumption data are available in the data sources by State or group of States (1970 through 1980) and by Petroleum Administration for Defense District (PADD) (1981 forward). Where State-level consumption data are not available, the State-level estimates are derived by allocating the district's or group's total consumption to the individual States within the district or group to the States that had operating refineries in a given year. Individual fuels are allocated to the refining States according to each State's share of the refining States' total industrial sector fuel consumption during the year. In some instances, estimated refinery fuel consumption exceeds the SEDS estimate for total industrial consumption of a fuel within a State. When this occurs, the excess refinery fuel consumption is reallocated as shown in Table A50.

Intermediate Products. Aviation gasoline blending components, motor gasoline blending components, natural gasoline (1970 through 1983), pentanes plus (1984 forward), plant condensate (1970 through 1983), unfinished oils, and unfractionated stream (1970 through 1983) are used at refineries and blending plants to make end-use petroleum products, particularly motor gasoline. Accordingly, consumption of these products is completely removed.

Residential (Including Commercial) Solar and Wood. There are no fuel costs for photovoltaic and solar thermal energy sources; therefore, all consumption is removed from the expenditure calculations. Some residential and commercial wood is purchased and some acquired at no cost. Based on responses to the EIA 1993 Residential Energy Consumption Survey, Census region percentages were developed. It is estimated that 61 percent of the wood consumed in States in the

Table A48. Estimates of Energy Consumed as Process Fuel, Intermediate Products, and Uncosted Renewables, 1994
(Billion Btu)

State	Refinery Use							Total
	Distillate	Residual	LPG	Other Petroleum ^a	Natural Gas	Coal	Electricity ^b	
AK	102	753	108	20,377	22,838	—	97	44,270
AL	35	1,855	9	14,281	25,485	—	12,058	53,372
AR	24	388	7	7,100	17,967	—	6,109	30,586
AZ	—	—	—	—	—	—	—	—
CA	614	2,048	17,330	183,525	50,403	—	11,387	268,223
CO	2	0	153	7,874	8,124	—	1,523	15,682
CT	—	—	—	1,569	—	—	—	1,569
DC	—	—	—	—	—	—	—	—
DE	18	2,364	85	15,932	772	50	297	22,516
FL	—	—	—	2,994	—	—	—	2,994
GA	181	3,725	458	5,259	7,760	504	2,579	23,451
HI	24	2,621	2,309	12,469	—	—	722	18,144
IA	—	—	—	334	—	—	—	334
ID	—	—	—	—	—	—	—	—
IL	93	1,437	2,893	115,248	14,309	29	3,804	137,804
IN	83	8,586	372	58,582	12,583	30	3,518	81,854
KS	66	415	909	29,085	10,570	1	777	41,822
KY	78	774	425	48,491	4,187	15	3,486	57,427
LA	91	384	368	295,924	158,882	—	11,293	466,862
MA	—	—	—	1,994	—	—	—	1,994
MD	—	—	—	2,118	—	—	—	2,118
ME	—	—	—	143	—	—	—	143
MI	59	2,265	851	22,555	15,021	22	2,823	44,748
MN	78	2,215	821	28,119	4,366	8	2,190	38,627
MO	—	—	—	2,728	—	—	—	2,728
MS	28	249	21	32,421	13,144	—	5,793	51,826
MT	1	1,849	46	18,106	1,058	—	943	22,804
NC	—	—	—	4,191	—	—	—	4,191
ND	39	775	70	8,042	833	29	174	7,982
NE	—	—	—	—	—	—	—	—
NH	—	—	—	132	—	—	—	132
NJ	103	3,296	423	87,322	8,593	19	1,228	100,982
NM	8	267	43	10,723	9,321	—	1,958	22,311
NV	172	307	987	541	2,034	—	1,480	5,532
NY	—	—	—	7,325	—	—	—	7,325
OH	87	4,905	1,303	65,003	14,879	28	8,987	82,363
OK	42	1,301	595	37,993	13,517	5	1,012	54,485
OR	—	—	—	307	—	—	—	307
PA	238	5,378	397	80,413	10,798	1,067	3,969	102,230
RI	—	—	—	—	—	—	—	—
SC	—	—	—	5,880	—	—	—	5,880
SD	—	—	—	—	—	—	—	—
TN	45	1,007	111	26,045	5,538	32	3,764	36,040
TX	125	3,452	1,952	580,449	281,302	—	34,122	901,445
UT	1	1,482	89	13,985	3,406	—	1,029	19,953
VA	114	3,258	368	10,773	3,907	747	1,584	20,730
VT	—	—	—	—	—	—	—	—
WA	105	1,878	1,805	85,705	7,815	—	6,486	113,784
WI	61	2,620	324	4,965	6,279	15	1,060	18,215
WV	137	947	289	25,022	2,527	892	303	30,158
WY	2	177	135	12,468	5,343	—	1,149	19,274
US	2,907	60,858	35,653	2,010,769	742,529	3,296	135,330	2,901,353

See footnotes at end of table.

Table A48. Estimates of Energy Consumed as Process Fuel, Intermediate Products, and Uncosted Renewables, 1994 (Continued)
(Billion Btu)

State	Residential/Commercial		Industrial					Transportation	Electrical System Energy Losses	Total
	Solar	Wood	Crude Oil Lease, Plant, and Pipeline Fuel	Natural Gas Lease and Plant Fuel	Hydro- electricity	Geothermal Wind and Solar	Biofuels	Natural Gas Pipeline Fuel		
AK	1	1,023	—	274,448	—	—	632	3,028	36,762	360,167
AL	137	7,574	—	13,325	—	—	101,829	15,355	480,878	672,088
AR	1,131	2,881	—	4,853	8	—	43,540	12,098	232,104	327,320
AZ	3,439	4,828	—	83	—	—	8,271	25,813	338,440	378,754
CA	17,700	33,866	16,682	71,076	11,374	217,081	79,505	12,382	1,520,480	2,248,377
CO	183	4,305	—	24,452	1,188	—	1,382	10,041	245,504	302,758
CT	118	4,285	—	—	744	—	22,733	719	198,418	229,656
DC	(8)	1,030	—	—	—	—	—	245	73,253	74,527
DE	25	1,148	—	—	—	—	—	4	68,168	68,603
FL	26,347	8,123	—	922	—	—	41,180	5,982	1,135,252	1,218,780
GA	126	10,401	—	—	659	—	58,322	7,197	639,788	738,542
HI	1,000	1,747	—	—	1,270	4,207	6,071	—	34,133	68,571
IA	8	4,284	—	—	188	—	1,082	10,823	238,094	251,513
ID	2	1,235	—	—	6,386	—	7,345	4,921	141,446	161,339
IL	74	12,134	—	113	788	—	14,991	14,088	884,473	1,044,285
IN	22	6,154	—	2	—	—	5,218	6,980	588,340	694,359
KS	33	3,921	—	44,589	102	—	301	31,709	210,720	333,277
KY	3	6,838	—	2,845	—	—	9,386	24,325	515,776	615,650
LA	64	4,867	—	215,203	10,085	—	88,989	65,708	489,029	1,330,809
MA	190	7,857	—	—	2,007	—	46,054	1,882	327,067	387,070
MD	46	7,397	—	1	—	—	14,877	2,580	368,580	416,676
ME	99	1,809	—	—	19,055	—	97,288	8	82,582	201,086
MI	229	10,472	—	10,092	1,476	—	64,770	23,273	548,657	603,718
MN	308	7,032	—	—	3,182	408	47,238	17,502	383,889	478,305
MO	145	8,278	—	—	—	—	2,025	2,697	424,749	440,823
MS	8	4,528	—	3,746	—	—	37,684	40,378	260,820	388,800
MT	1	1,037	—	2,296	551	—	2,717	3,826	93,813	126,844
NC	147	11,158	—	—	20,428	—	45,088	5,980	710,059	797,086
ND	(6)	1,033	—	11,882	—	—	111	4,482	84,683	80,214
NE	14	2,488	—	88	—	—	360	3,233	141,409	147,597
NH	27	1,834	—	—	4,422	—	17,825	987	63,729	88,755
NJ	417	5,921	—	—	158	—	23,174	2,695	471,482	604,708
NM	620	1,851	—	54,772	—	—	831	58,120	112,845	252,280
NV	116	1,682	—	17	106	34,228	118	693	142,570	185,058
NY	341	21,308	—	802	16,032	—	88,008	8,204	933,999	1,052,417
OH	28	11,830	—	1,381	31	—	52,748	18,558	1,086,481	1,275,405
OK	79	4,000	—	93,389	—	—	12,131	28,821	282,780	483,645
OR	413	5,220	—	99	3,158	—	37,308	6,058	319,893	372,652
PA	433	9,525	—	4,308	4,094	—	88,589	39,329	875,838	1,102,057
RI	38	1,336	—	—	111	—	1,012	377	46,763	49,836
SC	15	5,616	—	—	723	—	43,128	2,746	440,156	488,262
SD	(6)	1,110	—	441	—	—	564	2,887	51,046	55,730
TN	34	8,258	—	46	10,764	—	38,055	15,885	587,273	688,766
TX	408	6,658	—	310,962	—	—	21,274	99,781	1,837,101	3,179,808
UT	46	1,767	—	14,184	357	—	1,035	3,000	125,882	167,333
VA	118	9,788	—	1,144	791	—	23,445	6,579	584,974	647,889
VT	11	877	—	—	1,490	—	8,227	3	38,051	44,539
WA	334	9,148	—	—	3,902	—	75,329	8,700	620,005	829,201
WI	195	5,887	—	—	3,173	—	161,498	9,872	394,286	580,582
WV	28	2,941	—	8,562	5,142	—	2,875	32,077	178,234	281,114
WY	2	578	—	19,658	—	—	760	6,540	83,227	130,040
US	55,231	301,782	18,682	1,190,119	135,686	255,924	1,475,050	708,339	20,855,109	27,986,456

* In this table, "other petroleum" consists of: crude oil and still gas consumed as process fuel; and aviation gasoline blending components, motor gasoline blending components, petroleum plus, and unfinished oils used as intermediate products.

^b Electricity is converted at the rate of 3,412 Btu per kilowatt-hour.

—No consumption.

(c) Value less than 0.5 billion Btu.

Source: State Energy Price and Expenditure Data System 1994.

Table A49. Energy Consumption Adjustments, 1970-1994
(Trillion Btu)

Year	Total (Gross) Consumption	Adjustments											Net Consumption
		Residential/Commercial		Industrial						Transportation	Electrical System Energy Losses	Total	
		Solar	Wood	Refinery Use	Crude Oil Lease, Plant, and Pipeline Fuel	Natural Gas Lease and Plant Fuel	Hydro-electricity	Geothermal, Wind, and Solar	Biofuels	Natural Gas Pipeline Fuel			
1970	66,334	—	—	2,464	—	1,442	34	—	—	740	11,517	18,197	50,135
1971	67,789	—	—	2,442	—	1,456	34	—	—	781	12,127	18,820	50,968
1972	71,275	—	—	2,576	—	1,497	34	—	—	786	13,110	18,003	53,273
1973	74,351	—	—	2,690	—	1,529	35	—	—	745	13,999	19,007	55,344
1974	72,529	—	—	2,683	—	1,520	33	—	—	884	14,198	19,119	53,409
1975	70,569	—	—	2,571	—	1,434	32	—	—	596	14,384	19,017	51,563
1976	74,392	—	—	2,590	—	1,679	33	—	—	559	15,255	20,116	54,276
1977	76,317	—	—	2,687	—	1,708	33	—	—	544	16,060	21,030	55,267
1978	78,158	—	—	2,623	—	1,684	32	—	—	341	16,850	21,740	55,410
1979	76,920	—	—	2,742	—	1,534	34	—	—	613	17,063	21,985	50,935
1980	75,995	—	—	2,718	—	1,058	33	—	—	850	17,387	21,846	54,140
1981	74,022	—	—	2,204	—	959	33	—	—	680	17,484	21,320	52,703
1982	70,806	—	—	2,069	—	1,144	33	—	—	614	17,100	20,979	49,827
1983	70,486	—	—	2,122	140	1,010	33	—	—	505	17,583	21,394	49,083
1984	74,086	—	—	2,255	134	1,113	33	—	—	546	16,157	22,237	51,847
1985	74,054	—	—	2,048	127	1,001	33	—	—	521	16,631	22,359	51,694
1986	74,290	—	—	2,286	103	954	33	—	—	501	16,593	22,470	51,820
1987	76,840	—	—	2,485	72	1,194	33	—	—	538	16,169	23,479	53,361
1988	80,269	—	—	2,696	85	1,134	33	—	—	633	19,887	24,468	55,802
1989	81,317	—	—	2,711	59	1,103	33	—	—	650	20,256	24,811	56,506
1990	83,953	48	337	2,803	51	1,269	82	177	1,364	682	20,227	27,041	56,912
1991	83,960	50	355	2,688	39	1,164	83	197	1,318	822	20,480	26,976	56,964
1992	86,163	62	374	2,854	27	1,209	97	217	1,426	808	20,111	27,078	60,062
1993	87,007	63	362	2,876	21	1,199	118	244	1,436	643	20,598	27,543	59,463
1994	88,789	55	347	2,991	19	1,190	136	258	1,476	706	20,856	28,031	60,757

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

Sources: Total (Gross) Consumption—EIA, State Energy Data Report 1994, Consumption Estimates, (SEDR) DOE/EIA-0214(94) (Washington, DC, October, 1995), p. 21, column titled, "Total."

Residential/Commercial Solar—EIA, SEDR, p. 22, column titled "Solar."

Residential/Commercial Wood—State Energy Price and Expenditure Data System 1994 (SEPEDS).

Refinery Use—SEPEDS.

Crude Oil Lease, Plant, and Pipeline Fuel—SEPEDS.

Natural Gas Lease and Plant Fuel—SEPEDS.

Hydroelectricity—EIA, SEDR, p. 24, column titled, "Hydroelectric Power."

Geothermal, Wind, and Solar—EIA, SEDR, p. 24, column titled, "Other."

Biofuels—SEPEDS.

Natural Gas Pipeline Fuel—SEPEDS.

Electrical System Energy Losses—EIA, SEDR, Tables 12-16, pp. 22-25, sum of four end-use sectors' column titled, "Electrical System Energy Losses."

Total Adjustments—SEPEDS.

Net Consumption—SEPEDS.

Table A50. Reallocations of Excess Refinery Fuel Consumption

Year	Fuel	Thousand Barrels	Excess in:	Reallocated to:
1971	Residual Fuel	294	Kansas	Oklahoma
1973	Residual Fuel	45	Group 4: Kentucky, Tennessee	Illinois
1979	LPG	173	Montana	Wyoming
1983	Petroleum Coke	3,081	PADD I	PADD II
1984	Crude Oil	80	PADD II	PADD III
	Petroleum Coke	992	PADD I	PADD II
1985	Petroleum Coke	80	PADD II	PADD III
	Crude Oil	719	PADD I	PADD II
	Residual Fuel	212	PADD IV	PADD V
1986	Petroleum Coke	1,297	PADD I	PADD II
	Residual Fuel	403	PADD IV	PADD V
1987	Residual Fuel	497	PADD IV	PADD V
1988	Crude Oil	8	PADD III	PADD V
	Residual Fuel	305	PADD IV	PADD V
1989	Crude Oil	18	PADD I	PADD V
	Crude Oil		PADD III	PADD V
	Residual Fuel	381	PADD IV	PADD V
1990	Residual Fuel	332	PADD IV	PADD V
1991	Petroleum Coke	585	PADD I	PADD II
	Residual Fuel	374	PADD IV	PADD V
1992	Crude Oil	3	PADD II	PADD V
	Crude Oil	1	PADD III	PADD V
	Petroleum Coke	836	PADD I	PADD II
	Residual Fuel	365	PADD IV	PADD V
1993	Petroleum Coke	423	PADD I	PADD II
1994	Petroleum Coke	163	PADD I	PADD II

Source: EIA calculations based on data from the State Energy Data Report and the Petroleum Supply Annual.

Northeast Census Region is purchased; 32 percent of the wood use in Midwest States is purchased; 39 percent of the wood use in States in the South is purchased; and 42 percent of the wood consumed in Western States is purchased.

Crude Oil Lease, Plant, and Pipeline Fuel. Industrial crude oil remaining after refinery fuel consumption is removed is assumed to be used as lease, plant, and pipeline fuel. Because these are process fuel

uses, the remaining crude oil is removed from SEDS industrial sector consumption.

Natural Gas Lease and Plant Fuel. Natural gas consumed as lease and plant fuel is process fuel and is subtracted from SEDS industrial sector natural gas totals by State and year.

Industrial Hydroelectricity, Geothermal, Wind and Solar. Electricity generated by industries from hydropower and geothermal, wind, photovoltaic, and solar thermal energy has no fuel cost. Operation and maintenance costs associated with these energy sources are included indirectly in the prices of the industries' products. Therefore, SEDS industrial use of these renewable sources are removed from the expenditure calculations.

Industrial Biofuels. The cost of wood and waste products used for energy vary widely from more expensive woods to free industrial waste products. Based on information gathered from electric utilities on the EIA "Monthly Power Plant Report" (Form EIA-759), annual percentages were developed of wood consumed that was purchased and waste consumed that was purchased. It is estimated that about 22 percent of the waste and 75 percent of the wood consumed by industries are purchased.

Natural Gas Pipeline Fuel. Most of the natural gas consumed in the transportation sector in SEDS is used to power pipelines. As such, it is a process fuel and is subtracted from SEDS consumption in order to calculate expenditures.

Electrical System Energy Losses. The amount of energy lost during generation, transmission, and distribution of electricity (including plant use and unaccounted for electrical energy) is process fuel and is subtracted from sectoral energy consumption estimates used in *SEPER*. The energy losses are "paid for" when residential, commercial, industrial, and transportation sector consumers buy the electricity produced at electric utilities.

Data Sources

Capacity of Petroleum Refineries. 1982 forward: Energy Information Administration, *Petroleum Supply Annual Volume 1*, tables titled "Number and Capacity of Operable Petroleum Refineries," column heading, "Crude Capacity, Barrels per Calendar Day, Operating" (1982-1985), and "Atmospheric Crude Oil Distillation Capacity, Barrels per Calendar Day, Operating" (1986 forward).

1979-1981: Energy Information Administration, Energy Data Reports, *Petroleum Refineries in the United States and U.S. Territories*, table titled "Number and Capacity of Petroleum Refineries," column heading, "Crude Capacity, Barrels per Calendar Day, Operating."

1978: Energy Information Administration, Energy Data Reports, *Petroleum Refineries in the United States and Puerto Rico*, table titled "Number and Capacity of Petroleum Refineries," column heading, "Crude Capacity, Barrels per Calendar Day, Operating."

1970-1977: Bureau of Mines, U.S. Department of the Interior, Mineral Industry Surveys, *Petroleum Refineries in the United States and Puerto Rico*, table titled "Number and Capacity of Petroleum Refineries," column heading, "Crude Capacity, Barrels per Calendar Day, Operating."

Fuel Consumed at Refineries. 1981 forward: Energy Information Administration, *Petroleum Supply Annual Volume 1*, table titled "Fuels Consumed at Refineries by PAD District." Data for 1991 are from a separately published EIA ERRATA dated November 10, 1992, GPO Stock No. 061-003-00758-9.

1976-1980: Energy Information Administration, Energy Data Reports, *Crude Petroleum, Petroleum Products, and Natural Gas Liquids*, table titled "Fuels Consumed for All Purposes at Refineries in the United States, by States."

1970-1975: Bureau of Mines, U.S. Department of the Interior, Mineral Industry Surveys, *Crude Petroleum, Petroleum Products, and Natural Gas Liquids*, table titled "Fuels Consumed for All Purposes at Refineries in the United States, by States."

1970 forward: Energy Information Administration, State Energy Data System, industrial sector consumption estimates for aviation gasoline blending components, crude oil, motor gasoline blending components, natural gasoline (1970-1983), pentanes plus (1984 forward), petroleum coke, plant condensate (1970-1983), still gas (excluding still gas consumed as petrochemical feedstocks, 1970-1985), unfinished oil, and unfractionated stream (1970-1983).

Natural Gas Lease, Plant, and Pipeline Fuel Use. 1970 forward: Energy Information Administration, *Natural Gas Annual 1994, Volume II*, Table 14 (1970-1992), Table 15 (1993 and 1994).

Residential (including Commercial) Biofuels. 1990 forward: EIA, unpublished data from the "1993 Residential Energy Consumption Survey," Form EIA-457.

Industrial Biofuels. 1990 forward: EIA, unpublished data from the "Monthly Power Plant Report" (Form EIA-759), the "Annual Report of Major Electric Utilities Licensees and Other" (FERC Form No.1), the "Annual Report of Public Electric Utilities" (Form EIA-412), and the "Annual Nonutility Power Producer Report" (Form EIA-867).

Appendix B

Metric and Other Physical Conversion Factors

Metric and Other Physical Conversion Factors

Data presented in this *State Energy Price and Expenditure 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 B1 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 ($500 \text{ short tons} \times 0.9071847 \text{ metric tons/short ton} = 453.6 \text{ metric tons}$).

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 B2.

The conversion factors presented in Table B3 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 ($10 \text{ barrels} \times 42 \text{ gallons/barrel} = 420 \text{ gallons}$).

Table B1. Metric Conversion Factors

U.S. Unit	multiplied by	Conversion Factor	equals	Metric Unit	U.S. Unit	multiplied by	Conversion Factor	equals	Metric Unit
Mass					Volume				
short tons (2,000 lb)	x	0.907 184 7	=	metric tons (t)	barrels of oil (bbl)	x	0.158 987 3	=	cubic meters (cm ³)
long tons	x	1.016 047	=	metric tons (t)	cubic yards (yd ³)	x	0.764 555	=	cubic meters (cm ³)
pounds (lb)	x	0.453 592 37 ^a	=	kilograms (kg)	cubic feet (ft ³)	x	0.028 316 85	=	cubic meters (cm ³)
pounds uranium oxide (lb U ₃ O ₈)	x	0.384 647 ^b	=	kilograms uranium (kgU)	U.S. gallons (gal)	x	3.785 412	=	liters (L)
ounces, avoirdupois (avdp oz)	x	28.349 52	=	grams (g)	ounces, fluid (fl oz)	x	29.573 53	=	milliliters (mL)
					cubic inches (in ³)	x	16.387 08	=	milliliters (mL)
Length					Area				
miles (mi)	x	1.609 344 ^a	=	kilometers (km)	acres	x	0.404 69	=	hectares (ha)
yard (yd)	x	0.914 4 ^a	=	meters (m)	square miles (mi ²)	x	2.589 988	=	square kilometers (km ²)
feet (ft)	x	0.304 8 ^a	=	meters (m)	square yards (yd ²)	x	0.836 127 4	=	square meters (m ²)
inches (in)	x	2.54 ^a	=	centimeters (cm)	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)
Energy					Temperature				
British Thermal Units (Btu)	x	1,055.055 852 62 ^{a,c}	=	joules (J)	degrees Fahrenheit (°F)	x	5/9 (after subtracting 32) ^{a,d}	=	degrees Celsius (°C)
calories (cal)	x	4.186 8 ^a	=	joules (J)					
kilowatthours (kWh)	x	3.6 ^a	=	megajoules (MJ)					

^aExact conversion.^bCalculated by the Energy Information Administration.^cThe Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956.^dTo convert degrees Celsius (°C) to degrees Fahrenheit (°F) exactly, multiply by 9/5, then add 32.

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, consult Dr. Barry Taylor at Building 221, Room B160, National Institute of Standards and Technology, Gaithersburg, MD 20899, or on telephone number 301-875-4220.

Sources: General Services Administration, Federal Standard 378B, *Preferred Metric Units for General Use by the Federal Government* (Washington, DC, January 27, 1983), 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.

Table B2. 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 B3. 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 ^b	=	cubic feet (ft ³)

^aExact conversion.

^bCalculated 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 C

Summary of Changes

Summary of Changes Since the *State Energy Price and Expenditure Report 1993*

Revisions that are incorporated into the State Energy Price and Expenditure Data System (SEPEDS) since its previous release in December 1995 are summarized in this appendix. All revisions appearing in the data tables of this edition of the *State Energy Price and Expenditure Report (SEPER)* are reported here. Users of the SEPEDS data files, available on personal computer (PC) diskettes and on EIA's Internet home page, may notice data changes that do not appear in the report due to the level of rounding in the published tables. The full-precision data changes not evident in the report tables are also covered in this appendix.

The most obvious change in this edition of *SEPER* is the reformatting of the report, including the 90-degree rotation of the report pages that makes it possible to show data for all years instead of only selected years and presents the data in the same format as the consumption data in the *State Energy Data Report, 1994*.

Price revisions occur for several reasons: new price series are added; data sources for prices change; price estimation methodologies are revised or price assignment and estimation procedures are updated; data entries are corrected; or consumption estimates are revised. The first four kinds of changes affect State-level and U.S. prices directly. The fifth, a revised consumption value, affects only the State prices that are estimated by consumption-weighted averaging of adjacent States and, similarly, affects U.S. average prices.

Consumption estimates used in *SEPER* are taken from the State Energy Data System (SEDS), published as the *State Energy Data Report 1994, Consumption Estimates (SEDR)*, which contains full documentation of

the consumption estimation procedures. Consumption revisions are described in *SEDR*, Appendix G, "Summary of Changes." Since energy expenditure estimates depend on both the price and consumption estimates (including the consumption adjustments for process fuel and intermediate products), revision of either or both may cause revisions to the expenditures series.

Biofuels

Residential and Industrial Sectors, 1990 through 1994. The most significant data change in this edition of *SEPER* is the inclusion of two new price and expenditure series for 1990 forward—wood in the residential (including commercial) sector and biofuels in the industrial sector.

Residential primary energy expenditures for all States increased by at least 2 percent and by as much as 11 percent in Oregon and Washington in each year. Exceptional revisions occurred in the residential expenditures for primary energy sources in Hawaii. These increased between 20 percent and 40 percent each year when residential wood use was added. Residential wood consumption estimates for Census Region 4 are allocated to the States within the region by the number of households; therefore, each household in Hawaii is estimated to consume the same amount of wood as each household in Alaska. Because prices for biofuels are generally lower than those for other energy sources, the average price for all types of primary energy in the residential sector in 1990 forward decreased by 5 percent or less for most States, with the exception of Hawaii, where the average residential primary energy price decreased by 30 percent to 44 percent.

The impact of the additional data on biofuels consumption in the industrial sector is more difficult to assess because of concurrent revisions to distillate fuel and kerosene prices and expenditures. However, biofuels did contribute to the increases in revised estimates of industrial expenditures for primary energy sources in Maine by 27 percent to 33 percent in 1990 through 1993, in New Hampshire by 5 percent to 13 percent, in Oregon by 5 percent to 11 percent, and in Washington by 4 percent to 16 percent. Because biofuels prices are generally lower than prices for other energy sources, the average price for industrial primary energy sources dropped in Maine by 21 percent to 32 percent in 1990 through 1993, in New Hampshire by 26 percent to 33 percent, in Oregon by 8 percent to 13 percent, and in Washington by 4 percent to 9 percent.

Electric Utilities, 1982, 1983, 1985, 1987 through 1993. The average price paid for biofuels by electric utilities in Minnesota for 1989 through 1992 was revised by the inclusion of reclassified data. The Minnesota prices decreased by \$0.14 to \$0.30 per million Btu in those years. Wisconsin electric utilities' average price for biofuels was revised from \$0.76 to \$0.93 per million Btu in 1992 and from \$0.69 to 0.82 per million Btu in 1993. The average price of biofuels paid by electric utilities in Oregon in 1993 was revised from \$2.48 per million Btu to \$1.13 per million Btu in 1993.

Biofuels consumption estimates for electric utilities were slightly revised in SEDS for several States in 1982, 1983, 1985, 1987 through 1990 and 1992 due to acquisition of more precise data and revised data for California in 1982. These consumption changes caused expenditures to be revised by less than 1 percent.

Natural Gas

Residential Sector, 1993. Residential sector natural gas consumption estimates for 1993 were revised in the data source publication, the *EIA Natural Gas Annual 1994 (NGA)*, for Florida and Iowa, and factors for converting cubic feet of natural gas to Btu were revised for Louisiana and West Virginia. Residential natural gas prices for 1993 were also revised in the *NGA* for Florida, West Virginia, and Louisiana. The expenditures were revised by less than 1 percent in all four affected States.

Commercial Sector, 1990 through 1993. Natural gas consumed as vehicle fuel had been historically reported in the commercial sector consumption. In this update to SEPEDS, the natural gas vehicle fuel, which could be identified separately for 1990 through 1993, was removed from the commercial sector and shown in the transportation sector instead. Estimates of commercial sector natural gas expenditures were reduced by 0.3 percent or less for many States in 1990 through 1993 causing small changes in the U.S. average price for commercial natural gas.

Other commercial sector changes occurred because the data source publication, the *EIA Natural Gas Annual 1994*, revised commercial sector natural gas consumption and prices for several States in 1993. Small price revisions occurred for Florida, Louisiana, and West Virginia. The most notable was the increase in price for Texas from \$3.80 per million Btu to \$4.33 per million Btu, an increase which, combined with a 22-percent decrease in estimated consumption, caused an 11-percent decrease in Texas commercial sector natural gas expenditures for 1993. All other revisions in consumption and prices were by 1 percent or less.

Industrial Sector, 1993. The data source publication, the *EIA Natural Gas Annual 1994 (NGA)*, revised industrial sector natural gas prices in 1993 for Alabama, Florida, Iowa, Texas, and West Virginia. The largest changes were Alabama's price decrease from \$3.27 per million Btu to \$3.18 per million Btu, and industrial natural gas price increases in Florida from \$3.49 per million Btu to \$3.53 per million Btu and in West Virginia's from \$2.50 per million Btu to \$2.57 per million Btu. Those price revisions, combined with *NGA* revisions to industrial natural gas consumption, as described in *SEDR* Appendix G, caused estimated industrial natural gas expenditures to be revised in 15 States for 1993.

Transportation Sector, 1990 through 1993. Prices and expenditures for natural gas consumed as vehicle fuel in 1990 through 1994 are reported in the transportation sector of this edition of *SEPER* for the first time. Vehicle fuel had been included in the commercial sector natural gas consumption in previous editions. The addition of natural gas used as vehicle fuel increased total U.S. transportation expenditures by amounts ranging from \$1 million in 1990 to \$7 million in 1994.

Electric Utilities, 1993. The price of natural gas paid by electric utilities in Tennessee in 1993 was revised in the data source publication, the *EIA Natural Gas Annual 1994*, from \$2.69 per million Btu to \$1.07 per million Btu, causing a 60-percent decrease in estimated expenditures.

Petroleum

Aviation Gasoline

Transportation Sector, 1993. Correction of data entry errors for aviation gasoline consumption in the transportation sector of Alaska and Alabama for 1993 in the State Energy Data System caused expenditures to decrease in Alaska and increase in Alabama by amounts too small to be seen in the published tables due to the level of rounding. Users of the SEPEDS data files may notice the small changes.

Distillate Fuel

Commercial and Industrial Sectors, 1983 through 1993. The commercial and industrial price series for No. 2 fuel oil, which were used for commercial and industrial sector distillate fuel prices in previous editions of SEPEDS, were replaced by price series that represent weighted averages of all types of distillate fuel, including diesel fuels, consumed in those sectors. The incorporation of the new series caused prices to change for all States in all years, 1983 through 1993, except for eight isolated cases where the prices for both series are the same. The largest price changes occurred for 1985, when the Louisiana commercial sector price was changed from \$2.85 per million Btu to \$6.12 per million Btu; the industrial sector price was revised from \$2.96 per million Btu to \$6.09 per million Btu; the Oklahoma commercial sector price was changed from \$3.20 per million Btu to \$5.99 per million Btu; and the industrial sector price was revised from \$3.34 per million Btu to \$6.24 per million Btu. In 1987, the Kansas commercial sector distillate price was changed from \$2.77 per million Btu to \$4.21 per million Btu and the Arizona industrial sector price was revised from \$2.64 per million Btu to \$4.43 per million Btu. All of the other revisions were by less than 50 percent and most were by less than 10 percent.

The revisions in prices caused proportional revisions in the expenditures for distillate fuel in the commercial and industrial sectors of all States and the United States from 1983 through 1993. Industrial sector expenditures in 1993 were also affected by revisions to the consumption adjustments for distillate fuel consumed by petroleum refineries.

Electric Utilities, 1973, 1975, and 1978. The methodology for estimating the price of distillate fuel paid by electric utilities in Alaska for 1973, 1975, and 1978 was revised. The price changed from \$2.15 to \$1.97 per million Btu in 1973, from \$3.11 to \$3.10 per million Btu in 1975, and was increased by less than one cent per million Btu in 1978. Expenditures for Alaskan electric utilities' distillate fuel were revised proportionally.

Jet Fuel

Transportation Sector, 1983 and 1984. Jet fuel prices for 1983 and 1984 in previous versions of SEPEDS were estimated from available monthly data. In the preparation of this update of SEPEDS, 1983 and 1984 jet fuel prices became available from the database that is the source of the prices for 1985 forward, as published in the *EIA Petroleum Marketing Annual*. Prices and the resulting expenditures for jet fuel for all States were revised in 1983 by 10 percent or less, with the exception of increases of 24 percent in Delaware, 15 percent in New Hampshire, 12 percent in West Virginia, and 11 percent in Idaho. Jet fuel prices and expenditures for all States were revised in 1984 by 10 percent or less, with the exception of 11-percent increases in Delaware and West Virginia.

Kerosene

Commercial and Industrial Sectors, 1985 through 1993. Because kerosene prices are estimated by using distillate fuel prices in the industrial sector, and the industrial prices are assigned to the commercial sector, the revisions explained in the Distillate Fuel section above apply to commercial and industrial sector kerosene prices.

Liquefied Petroleum Gases

Residential Sector, 1993. Estimated prices for residential use of liquefied petroleum gas (LPG) were reduced by the inclusion of additional data for five States in 1993. The greatest revision occurred for Rhode Island, where the price decreased from \$13.58 per million Btu to \$8.85 per million Btu. The residential LPG price for Massachusetts was reduced from \$12.32 per million Btu to \$10.50 per million Btu. Prices for New Jersey decreased by \$1.73 per million Btu, for Hawaii by \$0.27 per million Btu, and for Alaska by \$0.25 per million Btu. The reduced prices caused proportional reductions in estimated 1993 expenditures for residential LPG for the five States.

Industrial Sector, 1993. Revisions to the consumption adjustments for petroleum refinery consumption of liquefied petroleum gases in 1993 caused industrial sector consumption estimates to be revised in 1993 for all 33 States with petroleum refineries. Most States' industrial LPG expenditures increased by 2 percent or less, with the exception of large increases (more than double) in Iowa, Illinois, and Mississippi. Large decreases in industrial LPG expenditures occurred in Michigan (by 51 percent) and Kansas (by 39 percent), while smaller decreases (3 percent or less) occurred in Texas, Colorado, Montana, Utah, and Wyoming.

Motor Gasoline

Commercial, Industrial, and Transportation Sectors, 1993. Revisions to the taxes added to the prices of motor gasoline in the commercial, industrial, and transportation sectors for all States in 1993 caused a \$0.26-reduction in all prices. These price revisions caused a 3-percent reduction in motor gasoline expenditures for all sectors in all States in 1993.

Other Petroleum Products

Petroleum Coke, 1992 and 1993. Prices for petroleum coke consumed in the industrial sector were revised by less than one cent for 1992 and 1993 by the inclusion of additional data in the price estimation. The revisions caused expenditures for 1992 to decrease by less than one percent in the 34 States with petroleum coke consumption. Estimates of

the amount of petroleum coke used by petroleum refineries (not purchased) and, therefore, excluded from the expenditure calculations were also revised for 1993. The 1993 price and consumption revisions caused expenditure decreases of nearly 100 percent for States in Petroleum Administration for Defense District (PADD) I, 41 percent for PADD III States, 11 percent for States in PADD II, and less than 1 percent in PADD V States. Petroleum coke expenditures for 1993 were increased by 3 percent in States in PADD IV.

Petroleum Feedstocks, Miscellaneous Products, and Special Naphthas, 1986 through 1993. Revisions to estimated consumption of petroleum feedstocks, miscellaneous products, and special naphthas for 1986 through 1993, as described in the SEDR Appendix G, caused revisions to expenditures for those three products in the 33 States with estimated consumption. The revisions are proportionally the same for the States in 1986 through 1990 because the same allocator for estimating consumption is used for each of the products each year. Expenditures, therefore, decreased by 21 percent for 15 States each year, increased by 2 or 3 percent for 10 States, and changed by an insignificant amount for 8 States. Expenditure revisions for 1991 through 1993 were affected by a different consumption allocator that caused revisions for the 37 States ranging in magnitude from Kentucky's 634-percent increase each year to Pennsylvania and Iowa's 70-percent decrease.

Waxes, 1991 through 1993. Revisions to estimated consumption of waxes for 1991 through 1993, as described in the SEDR Appendix G, caused revisions to expenditures for waxes in the 44 States with estimated waxes consumption. Expenditures in Florida, Indiana, and New Jersey more than tripled for each of the three years, while expenditure estimates more than doubled in Michigan, Ohio, and Washington.

Residual Fuel

Alaskan Commercial and Industrial Sectors and Electric Utilities. Prices paid by commercial and industrial customers in Alaska as well as by Alaskan electric utilities are estimated by using distillate fuel prices. Therefore, the distillate fuel price revisions described in the **Distillate Fuel** section caused Alaska commercial sector residual fuel prices and expenditures to be revised for 1984 and 1986 through 1988 and industrial residual fuel prices to be revised in 1985 through 1987 and

1991 through 1993. A change in the methodology for estimating prices paid by electric utilities in Alaska for residual fuel revised prices for 1973, 1975, and 1978. The U.S.-level average prices and expenditures were affected by these Alaskan revisions by amounts too small to be seen in *SEPER*; however, they can be seen in the data files.

Industrial Sector, 1993. Corrections to estimates of the refinery use of residual fuel in 1993 caused revisions to industrial sector expenditures in 1993 for the 32 States with petroleum refineries.

Electricity

Transportation and Commercial Sectors, 1992 and 1993. Small revisions in electricity sales to the commercial sector of Nebraska, New York, and Oklahoma in 1992, as documented in *SEDR*, Appendix G, caused recalculation of the estimates of commercial and transportation sector electricity expenditures for the District of Columbia and the 17 States with transportation electricity use. The 1992 revisions, in most cases, are too small to be seen in the *SEPER* tables, and, in all cases, are by less than 1 percent. Electricity prices and expenditures for the commercial sector and transportation sectors in 1993 were also revised due to the routine replacement of preliminary consumption values used in the price estimations for the District of Columbia and the 19 States with transportation electricity use. The consumption revisions are documented in *SEDR*, Appendix G. Most of the commercial sector price revisions are not visible in the published tables due to the level of rounding but may be noticed in the data on the *SEPEDS* data files.

Residential Sector, 1992 and 1993. Estimates of electricity consumption in the residential sector of 3 States in 1992 and 10 States in 1993 were revised in the source document as described in *SEDR*, Appendix G. In addition, prices of residential electricity in 1993 were revised for Alabama, Kentucky, Maryland, New Jersey, Ohio, Tennessee, and Texas by one cent or less. These consumption and price revisions caused

proportional revisions to expenditures for the affected States for 1992 and 1993.

Industrial Sector, 1992 and 1993. Estimates of electricity consumption in the industrial sector of seven States in 1992 and five States in 1993 were revised in the source document as described in *SEDR*, Appendix G. In addition, prices of industrial electricity in 1993 were revised for Alabama, Illinois, Kentucky, Maryland, North Carolina, and Tennessee, by one cent or less. The consumption revisions required estimates of refinery fuel use of electricity to be recalculated, affecting consumption estimates of other States within the Petroleum Administration for Defense Districts and causing small revisions in the industrial consumption of an additional 10 States in 1992 and 9 States in 1993. These consumption and price revisions caused proportional revisions to expenditures for the affected States for 1992 and 1993.

Consumption Adjustments for Calculating Expenditures

In general, changes in consumption estimates of process fuel and intermediate products are caused by revisions to industrial and transportation sector consumption estimates in *SEDS*. In this edition of *SEPER*, revisions to estimates of industrial consumption of natural gas and electricity for 1992 and 1993, and for several "Other Petroleum Products" for 1986 through 1993, as documented in *SEDR* Appendix G, were incorporated in the *SEPEDS* adjustments. Also in this edition of *SEPER*, corrections to estimates of the refinery use of distillate fuel, residual fuel, liquefied petroleum gases, and petroleum coke in 1993 caused revisions to industrial sector expenditures for the 32 States with petroleum refineries. Although the consumption adjustments for process fuel and intermediate products in 1994 are shown in Table A49, the revisions to previous years' data can only be seen in the data included on the *SEPEDS* data files.

Glossary

Glossary

Asphalt: A dark-brown-to-black cement-like material containing bitumens as the predominant constituents obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts.

ASTM: The American Society for Testing and Materials.

Aviation Gasoline Blending Components: Naphthas that are used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, and reformat). Excludes oxygenates (alcohols and ethers), butane, and pentanes plus.

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.

Barrel (petroleum): A unit of volume equal to 42 U.S. gallons.

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.

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 (C₄H₁₀). 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 (C₄H₈) recovered from refinery processes.

Coal: Includes all ranks of coal—anthracite, bituminous coal, subbituminous coal, and lignite—conforming to ASTM Specification D388.

- **Coking Coal:** Coal that meets the requirements for making coal coke. It must be low in ash and sulfur and form a coke that is capable of supporting the charge of iron ore and limestone in a blast furnace. Coking coal is usually a blend of two or more bituminous coals.
- **Steam Coal:** In this report, steam coal represents all noncoking coal.

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.

Coking Coal: See Coal.

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.

Constant Dollars: Amounts expressed in constant dollars have been adjusted to remove the effect of changes in the purchasing power of the dollar. Prices expressed in constant dollars usually reflect buying power relative to a base year. Prices in this publication are expressed in **Nominal Dollars**.

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 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.

Degree-Day Normals: Simple arithmetic averages of monthly or annual degree-days over a long period of time (the 30-year period 1951 through 1980 is used for the estimates in this report). The averages may be simple degree-day normals or population-weighted degree-day normals. Monthly, State-level simple averages are used for this report.

Degree-Days, Cooling (CDD): The number of degrees per day that the daily average temperature is above 65° F. The daily average temperature is the mean of the maximum and minimum temperatures for a 24-hour period.

Degree-Days, Heating (HDD): The number of degrees per day that the daily average temperature is below 65° F. The daily average temperature is the mean of the maximum and minimum temperatures for a 24-hour period.

Degree-Days, Population-Weighted: Heating or cooling degree-days weighted by the population of the area in which the degree-days are recorded. To compute State population-weighted degree-days, each State is divided into from one to nine climatically homogeneous divisions, which are assigned weights based on the ratio of the population of the division to the total population of the State. Degree-day readings for each division are multiplied by the corresponding population weight for each division and those products are then summed to arrive at the State population-weighted degree-day figure. To compute national population-weighted degree-days, the Nation is divided into nine Census regions, each comprising from three to eight States, which are assigned weights based on the ratio of the population of the region to the total population of the Nation. Degree-day readings for each region are multiplied by the corresponding population weight for each region and those products are then summed to arrive at the national population-weighted degree-day figure.

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 Generation: The process of producing electric energy or transforming other forms of energy into electric energy. Also the amount of electric energy produced or expressed in watt-hours (Wh).

Electricity Sales: The amount of kilowatt-hours 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 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 kilowatt-hours, while heat energy is usually measured in British thermal units.

Ethane: A normally gaseous straight-chain hydrocarbon (C_2H_6). It is a colorless, paraffinic gas that boils at a temperature of $-127.48^\circ F$. It is extracted from natural gas and refinery gas streams.

Ethylene: An olefinic hydrocarbon (C_2H_4) recovered from refinery processes or petrochemical processes.

Expenditures: In this report, "expenditures" refers to the money directly spent by consumers to purchase energy. Expenditures equal the amount of energy used by the consumer times the price per unit paid by the consumer. In calculating the amount of energy used, process fuel and intermediate products are not included.

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.

f.a.s.: See Free Alongside Ship.

Federal Energy Regulatory Commission (FERC): The Federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification. FERC is an independent regulatory

agency within the Department of Energy and is the successor to the Federal Power Commission.

Federal Power Commission (FPC): The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the Department of Energy was created. Its functions were divided between the Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

Fossil Fuel: Any naturally occurring organic fuel, such as petroleum, coal, and natural gas.

Free Alongside Ship (f.a.s.): The value of a commodity at the port of exportation, generally including the purchase price, plus all charges incurred in placing the commodity alongside the carrier at the port of exportation.

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.

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 useable 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.

Imports: Receipts of goods into the 50 States and the District of Columbia from foreign countries and from Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Industrial Sector: The industrial sector comprises manufacturing industries, which make up the largest part of the sector, along with mining, construction, agriculture, fisheries, and forestry. Establishments in the sector range from steel mills, to small farms, to companies assembling electronic components.

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 used as fuel in natural gas processing plants.

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.

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. Lubricant categories are paraffinic and naphthenic.

Miscellaneous Petroleum Products: All finished petroleum products not classified elsewhere—for example, petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils.

Motor Gasoline: A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, obtained by blending appropriate refinery streams to form a fuel suitable for use in spark-ignition engines. Motor gasoline includes both leaded and unleaded grades of finished motor gasoline, blending components, and gasohol.

Motor Gasoline Blending Components: Naphthas that will be used for blending or compounding into finished motor gasoline (e.g., straight-run gasoline, alkylate, 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. Includes isopentane.

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

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

Nuclear 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.

Nuclear Fuel: Fissionable materials that have been enriched to a composition that, when placed in a nuclear reactor, will support a self-sustaining fission chain reaction, producing heat in a controlled manner for process use.

Pentanes Plus: A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Petrochemical Feedstocks: Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are naphthas less than 401° F endpoint and other oils equal to or greater than 401° F endpoint.

Petroleum: A generic term applied to oil and oil products in all forms, such as crude oil, lease condensate, unfinished oils, petroleum products, natural gas plant liquids, and nonhydrocarbon compounds blended into finished petroleum products.

Petroleum Coke: A residue 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 may be further purified by calcining.

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.

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

Plant Condensate: One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Primary Energy: All energy consumed by end users, excluding electricity but including the energy consumed at electric utilities to generate electricity. (In estimating energy expenditures, there are no fuel-associated expenditures for hydroelectric power, geothermal energy, solar energy, or wind energy, and the quantifiable expenditures for process fuel and intermediate products are excluded.)

Process Fuel: All energy consumed in the acquisition, processing, and transportation of energy. Quantifiable process fuel includes three categories: natural gas lease and plant operations, natural gas pipeline operations, and oil refinery operations.

Propane: A normally gaseous straight-chain hydrocarbon (C_3H_8). It is a colorless paraffinic gas that boils at a temperature of $-43.67^\circ F$. 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.

Real Price: A price that has been adjusted to remove the effect of changes in the purchasing power of the dollar. Real prices usually reflect buying power relative to a base year. Prices shown in this publication are **Nominal Prices**.

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 975. Included are No. 5, a residual fuel oil of medium viscosity; Navy Special, for use in steam-powered vessels in government service and in shore power plants; and No. 6, which includes Bunker C fuel oil and is used for commercial and industrial heating, for 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**.

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 Coal: See **Coal**.

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.

Total Energy: All energy consumed by end users, including electricity but excluding the energy consumed at electric utilities to generate electricity. (In estimating energy expenditures, there are no fuel-associated expenditures for hydroelectric power, geothermal energy, solar power, or wind energy, and the quantifiable expenditures for process fuel and intermediate products are excluded.)

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.

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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