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State Energy Price and Expenditure Report 1995

Energy Information Administration

State Energy Price and Expenditure Report 1995

The *State Energy Price and Expenditure Report 1995* presents energy price and expenditure estimates for the 50 States, the District of Columbia, and the United States for 1970 through 1995. 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 1994* (published June 1997).

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

1995

August 1998

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 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 1995. Data for all years are available on a 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 1995, Consumption Estimates (SEDR),* published in December 1997. 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 411.

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.

This report is an update of the last edition, the *State Energy Price and Expenditure Report 1994,* published in June 1997. Most of the revisions to data in this edition were caused by consumption revisions in the State Energy Data System. The consumption values are used to calculate expenditures and consumption-weighted average prices. Revisions to the methodology for estimating refinery use of petroleum coke and crude oil caused revisions to expenditures and average prices shown in the "Other Petroleum Products" column of the report tables for all years, 1970 through 1994. The most significant revision to prices was the addition of State general sales taxes to the liquefied petroleum gases prices in the commercial, industrial, and transportation sectors in 1985 through 1994. These and other revisions since the last edition of this report are explained in detail in Appendix C.

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 statistical errors of the material published in *SEPER*.

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

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

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 also 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:

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. Liquefied petroleum gases, distillate fuel oil, kerosene, and residual fuel oil prices include sales taxes in all years. 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 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 the calculation of 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.

- The **residential sector** is considered to consist of all private residences, whether occupied or vacant, owned or rented, including single-family homes, multifamily housing units, and mobile homes. Secondary homes, such as summer homes, are also included. Institutional housing, such as school dormitories, hospitals, and military barracks, generally are not included in the residential sector; they are included in the commercial sector.

- The **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.

- The **industrial sector** comprises manufacturing industries, which make up the largest part of the sector, along with mining, construction, agriculture, fisheries, and forestry. Establishments in the sector range from steel mills to small farms to companies assembling electronic components.

- The **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.

- 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, 1995

Ranked	Prices		Expenditures		Expenditures per Person	
	State	Dollars per Million Btu	State	Million Dollars	State	Dollars
1	District of Columbia	12.19	California	51,145	Wyoming	3,563
2	Connecticut	11.98	Texas	46,965	Alaska	3,277
3	New Hampshire	11.32	New York	31,573	Louisiana	3,004
5	Hawaii	11.19	Illinois	23,343	Texas	2,498
6	Vermont	11.07	Ohio	23,272	Montana	2,311
7	New York	10.99	Florida	22,956	Maine	2,290
8	Massachusetts	10.65	Michigan	18,163	District of Columbia	2,267
9	Florida	10.20	New Jersey	17,498	Indiana	2,216
10	Maryland	10.12	Georgia	14,604	West Virginia	2,211
11	Rhode Island	9.86	North Carolina	14,398	New Jersey	2,201
12	North Carolina	9.64	Louisiana	13,029	Alabama	2,160
13	California	9.47	Indiana	12,849	Delaware	2,157
14	Nevada	9.00	Virginia	12,412	Iowa	2,143
15	Delaware	8.99	Massachusetts	11,845	Kentucky	2,136
16	New Mexico	8.94	Tennessee	10,379	Arkansas	2,100
17	Virginia	8.91	Missouri	10,094	Ohio	2,090
18	New Jersey	8.91	Washington	9,558	Kansas	2,087
19	South Carolina	8.70	Wisconsin	9,233	Vermont	2,085
20	Pennsylvania	8.68	Alabama	9,172	South Carolina	2,068
21	Oregon	8.53	Maryland	8,844	Nebraska	2,057
22	Missouri	8.52	Minnesota	8,826	Connecticut	2,053
23	Ohio	8.50	Kentucky	8,239	Nevada	2,033
24	Illinois	8.48	Arizona	7,688	Georgia	2,026
25	Georgia	8.43	South Carolina	7,585	New Hampshire	2,015
26	Maine	8.36	Connecticut	6,713	South Dakota	2,006
27	Colorado	8.24	Oklahoma	6,338	Pennsylvania	2,004
28	South Dakota	8.22	Colorado	6,312	North Carolina	1,999
29	Tennessee	8.11	Iowa	6,092	Illinois	1,980
30	Montana	8.11	Oregon	5,642	Tennessee	1,978
31	Mississippi	8.04	Kansas	5,350	Mississippi	1,975
32	Nebraska	7.93	Mississippi	5,325	Massachusetts	1,951
33	Arkansas	7.93	Arkansas	5,218	Oklahoma	1,935
34	Wisconsin	7.86	West Virginia	4,036	Idaho	1,926
35	Minnesota	7.72	Nebraska	3,372	Minnesota	1,913
36	Michigan	7.72	Utah	3,160	Michigan	1,904
37	Idaho	7.66	Nevada	3,117	Missouri	1,898
38	Kansas	7.58	New Mexico	2,901	Rhode Island	1,890
39	Iowa	7.56	Maine	2,836	Virginia	1,876
40	Washington	7.55	New Hampshire	2,314	Hawaii	1,836
41	Alabama	7.36	Idaho	2,246	Wisconsin	1,803
42	West Virginia	7.30	Hawaii	2,165	Oregon	1,792
43	Kentucky	7.28	Montana	2,011	Arizona	1,786
44	Oklahoma	7.12	Alaska	1,975	Maryland	1,755
45	Utah	6.93	Rhode Island	1,874	Washington	1,755
46	Indiana	6.84	Wyoming	1,708	New York	1,736
47	Alaska	6.46	North Dakota	1,660	New Mexico	1,717
48	Texas	6.34	Delaware	1,546	Colorado	1,684
49	North Dakota	6.12	South Dakota	1,464	California	1,620
50	Wyoming	6.08	District of Columbia	1,257	Florida	1,618
51	Louisiana	5.12	Vermont	1,219	Utah	1,614
	United States	**8.28**	**United States**	**[a] 515,800**	**United States**	**1,962**

[a] Includes $107 million for coal coke net imports, which are not allocated to the States.
Note: Rankings are based on unrounded data.
Source: State Energy Price and Expenditure Data System 1995.

Table 2. Motor Gasoline Prices and Expenditures Ranked by State, 1995

Ranked	Prices		Expenditures		Expenditures per Person	
	State	Dollars per Million Btu	State	Million Dollars	State	Dollars
1	Hawaii	11.40	California	15,127	Wyoming	755
2	Connecticut	11.05	Texas	10,327	Montana	687
3	Alaska	10.80	Florida	7,006	Alaska	673
4	Rhode Island	10.42	New York	6,622	South Dakota	654
5	Oregon	10.23	Pennsylvania	5,685	North Dakota	645
6	Massachusetts	10.19	Ohio	5,623	Vermont	629
7	Delaware	10.06	Illinois	5,502	Delaware	624
8	Montana	10.04	Michigan	4,875	New Mexico	617
9	Washington	9.98	North Carolina	4,009	New Hampshire	613
10	Maine	9.95	Georgia	3,991	Alabama	607
11	West Virginia	9.95	New Jersey	3,969	Maine	607
12	New Hampshire	9.93	Virginia	3,751	West Virginia	598
13	District of Columbia	9.85	Massachusetts	3,145	Kentucky	596
14	Maryland	9.83	Indiana	3,139	Arkansas	590
15	Vermont	9.71	Washington	3,084	Mississippi	585
16	Colorado	9.71	Tennessee	3,063	Tennessee	584
17	Pennsylvania	9.64	Missouri	3,008	Oregon	581
18	Arizona	9.57	Wisconsin	2,754	Minnesota	581
19	Wisconsin	9.52	Minnesota	2,680	Nevada	569
20	New York	9.51	Maryland	2,657	Virginia	567
21	New Mexico	9.44	Alabama	2,579	Nebraska	566
22	Illinois	9.42	Arizona	2,371	Washington	566
23	Minnesota	9.39	Kentucky	2,299	Missouri	565
24	Louisiana	9.25	Louisiana	2,296	Colorado	563
25	Nevada	9.23	Colorado	2,109	Oklahoma	562
26	Ohio	9.21	South Carolina	2,052	South Carolina	560
27	Texas	9.21	Oklahoma	1,841	Idaho	559
28	California	9.19	Oregon	1,829	North Carolina	557
29	Idaho	9.18	Connecticut	1,776	Georgia	554
30	New Jersey	9.18	Mississippi	1,577	Iowa	553
31	Utah	9.17	Iowa	1,571	Arizona	551
32	Nebraska	9.15	Arkansas	1,466	Texas	549
33	North Dakota	9.11	Kansas	1,309	Connecticut	543
34	Kentucky	9.10	West Virginia	1,092	Indiana	541
35	South Dakota	9.07	New Mexico	1,042	Wisconsin	538
36	Virginia	9.06	Utah	1,001	Louisiana	529
37	Tennessee	8.99	Nebraska	928	Maryland	527
38	Alabama	8.85	Nevada	872	Massachusetts	518
39	North Carolina	8.83	Maine	751	Michigan	511
40	Mississippi	8.83	New Hampshire	704	Utah	511
41	Arkansas	8.69	Idaho	652	Kansas	511
42	Iowa	8.69	Montana	598	Ohio	505
43	Wyoming	8.68	Hawaii	564	New Jersey	499
44	Indiana	8.52	Rhode Island	489	Florida	494
45	Kansas	8.48	South Dakota	477	Rhode Island	493
46	Florida	8.46	Delaware	448	California	479
47	Michigan	8.40	North Dakota	414	Hawaii	478
48	South Carolina	8.32	Alaska	406	Pennsylvania	471
49	Missouri	8.31	Vermont	368	Illinois	467
50	Oklahoma	8.27	Wyoming	362	District of Columbia	387
51	Georgia	7.78	District of Columbia	214	New York	364
	United States	**9.14**	**United States**	**136,475**	**United States**	**519**

Note: Rankings are based on unrounded data.
Source: State Energy Price and Expenditure Data System 1995.

Table 3. Petroleum and Natural Gas Prices and Expenditures Ranked by State, 1995

	Petroleum				Natural Gas			
	Prices		Expenditures		Prices		Expenditures	
Ranked	State	Dollars per Million Btu	State	Million Dollars	State	Dollars per Million Btu	State	Million Dollars
1	Vermont	8.57	Texas	25,974	Hawaii	[a] 13.30	California	8,066
2	Arizona	8.50	California	22,841	District of Columbia	6.95	Texas	7,224
3	Wisconsin	8.35	New York	11,224	Connecticut	6.52	New York	6,401
4	Oregon	8.34	Florida	10,847	Maine	5.79	Illinois	4,397
5	Rhode Island	8.30	Pennsylvania	9,835	Massachusetts	5.70	Ohio	4,096
6	Colorado	8.22	Illinois	9,123	New York	5.50	Michigan	3,812
7	Montana	8.20	Ohio	9,071	New Hampshire	5.49	Pennsylvania	3,765
8	Maryland	8.19	New Jersey	7,708	Pennsylvania	5.43	New Jersey	2,938
9	Connecticut	8.13	Michigan	7,516	Vermont	5.22	Louisiana	2,672
10	Ohio	8.06	Louisiana	6,832	Rhode Island	5.18	Indiana	2,145
11	District of Columbia	8.05	Georgia	6,483	New Jersey	4.90	Massachusetts	2,109
12	West Virginia	8.04	North Carolina	6,422	Montana	4.84	Georgia	1,650
13	Illinois	7.96	Virginia	5,810	Maryland	4.81	Wisconsin	1,607
14	Idaho	7.94	Indiana	5,734	Arizona	4.73	Florida	1,517
15	Nebraska	7.91	Massachusetts	5,265	Virginia	4.69	Oklahoma	1,333
16	Arkansas	7.87	Washington	5,081	Ohio	4.58	Minnesota	1,242
17	Pennsylvania	7.78	Missouri	4,982	North Carolina	4.56	Missouri	1,193
18	Iowa	7.76	Tennessee	4,968	West Virginia	4.55	Virginia	1,140
19	Michigan	7.76	Minnesota	4,525	Georgia	4.53	Alabama	1,033
20	Massachusetts	7.73	Wisconsin	4,418	California	4.43	Tennessee	1,017
21	North Carolina	7.70	Kentucky	4,260	Missouri	4.36	Iowa	1,009
22	New York	7.68	Alabama	4,121	Wisconsin	4.30	Colorado	979
23	New Mexico	7.67	Maryland	3,962	Tennessee	4.23	Maryland	943
24	Tennessee	7.66	Arizona	3,477	Idaho	4.20	North Carolina	926
25	Minnesota	7.66	Colorado	3,159	South Dakota	4.17	Kansas	896
26	Virginia	7.65	South Carolina	3,132	Nevada	4.14	Connecticut	879
27	New Hampshire	7.64	Oklahoma	3,008	Indiana	4.11	Washington	835
28	Utah	7.64	Connecticut	2,997	Illinois	4.10	Kentucky	796
29	Alabama	7.56	Iowa	2,933	Michigan	4.07	Arkansas	732
30	South Dakota	7.54	Oregon	2,897	South Carolina	4.06	Mississippi	626
31	Kentucky	7.51	Mississippi	2,642	Iowa	3.99	South Carolina	621
32	South Carolina	7.48	Kansas	2,506	Colorado	3.99	Oregon	567
33	Wyoming	7.43	Arkansas	2,385	Oregon	3.93	West Virginia	538
34	North Dakota	7.38	West Virginia	1,978	Washington	3.92	Nebraska	506
35	Nevada	7.36	Nebraska	1,730	Nebraska	3.89	Arizona	498
36	California	7.31	Utah	1,693	Alabama	3.85	Nevada	463
37	Missouri	7.29	Maine	1,641	North Dakota	3.81	Utah	439
38	Kansas	7.27	New Mexico	1,537	Kentucky	3.78	Rhode Island	370
39	Oklahoma	7.26	Nevada	1,473	Minnesota	3.73	New Mexico	319
40	Indiana	7.12	Alaska	1,333	Wyoming	3.43	Montana	251
41	Mississippi	7.07	Hawaii	1,318	Utah	3.37	Idaho	248
42	Washington	7.04	Idaho	1,160	Delaware	3.30	Wyoming	244
43	Delaware	7.04	New Hampshire	1,153	New Mexico	3.23	District of Columbia	229
44	Georgia	6.83	Montana	1,122	Kansas	3.21	Alaska	211
45	Maine	6.76	Wyoming	945	Arkansas	3.06	Delaware	205
46	Florida	6.71	South Dakota	863	Oklahoma	2.94	South Dakota	132
47	Alaska	6.60	North Dakota	836	Florida	2.90	North Dakota	114
48	New Jersey	6.55	Rhode Island	819	Mississippi	2.62	New Hampshire	110
49	Texas	6.03	Delaware	761	Texas	2.24	Hawaii	39
50	Hawaii	5.97	Vermont	690	Louisiana	2.00	Vermont	38
51	Louisiana	5.44	District of Columbia	299	Alaska	1.88	Maine	31
	United States	**7.23**	**United States**	**237,491**	**United States**	**3.81**	**United States**	**74,150**

[a] Based on small quantities of liquefied natural gas.
Note: Rankings are based on unrounded data.
Source: State Energy Price and Expenditure Data System 1995.

Table 4. Coal and Electricity Prices and Expenditures Ranked by State, 1995

	Coal				Electricity			
	Prices		Expenditures		Prices		Expenditures	
Ranked	State	Dollars per Million Btu	State	Million Dollars	State	Dollars per Million Btu	State	Million Dollars
1	Vermont	3.62	Pennsylvania	2,006	New Hampshire	34.36	California	20,831
2	Rhode Island	3.31	Ohio	1,977	Hawaii	33.24	Texas	15,675
3	Alaska	2.64	Indiana	1,818	New York	32.43	New York	14,435
4	Maine	2.28	Texas	1,815	Connecticut	30.78	Florida	11,745
5	District of Columbia	1.93	Illinois	1,325	New Jersey	30.64	Pennsylvania	9,937
6	Hawaii	1.92	Alabama	1,313	Rhode Island	30.43	Ohio	9,829
7	Connecticut	1.91	Georgia	1,220	Alaska	29.84	Illinois	9,657
8	California	1.80	Florida	1,169	Massachusetts	29.65	New Jersey	6,944
9	Florida	1.79	Michigan	1,151	California	29.16	North Carolina	6,885
10	New Jersey	1.78	West Virginia	1,113	Maine	27.80	Michigan	6,636
11	Idaho	1.76	Kentucky	1,083	Vermont	27.73	Georgia	6,328
12	Massachusetts	1.69	North Carolina	986	Pennsylvania	23.28	Virginia	5,312
13	Georgia	1.68	Tennessee	796	Illinois	22.61	Massachusetts	4,705
14	North Carolina	1.64	Missouri	594	Arizona	22.32	Indiana	4,516
15	Illinois	1.62	Wisconsin	531	District of Columbia	20.87	Tennessee	4,224
16	Arkansas	1.62	Virginia	520	Michigan	20.72	Louisiana	4,056
17	New Hampshire	1.60	South Carolina	487	Maryland	20.69	Maryland	3,964
18	Alabama	1.59	Arizona	486	Florida	20.55	Missouri	3,892
19	Washington	1.59	North Dakota	482	Delaware	20.30	South Carolina	3,703
20	Delaware	1.58	Maryland	434	New Mexico	20.12	Arizona	3,700
21	Louisiana	1.56	New York	431	Georgia	19.44	Alabama	3,686
22	South Carolina	1.55	Utah	410	North Carolina	19.28	Washington	3,569
23	Mississippi	1.54	Minnesota	410	Kansas	19.27	Wisconsin	3,084
24	Virginia	1.52	New Mexico	390	Arkansas	18.62	Kentucky	3,004
25	New York	1.50	Iowa	389	Virginia	18.38	Minnesota	2,983
26	Maryland	1.50	Wyoming	388	Ohio	18.37	Connecticut	2,938
27	Michigan	1.48	Arkansas	384	Missouri	18.32	Oklahoma	2,295
28	Pennsylvania	1.45	Colorado	356	South Dakota	18.18	Mississippi	2,190
29	Ohio	1.43	Oklahoma	355	Texas	18.12	Colorado	2,142
30	Arizona	1.42	Louisiana	338	Colorado	18.00	Oregon	2,135
31	New Mexico	1.42	Kansas	299	Nevada	17.95	Arkansas	2,103
32	Indiana	1.36	Nevada	214	Mississippi	17.74	Iowa	2,069
33	Texas	1.33	Massachusetts	177	Iowa	17.68	Kansas	1,981
34	Nevada	1.32	Mississippi	160	Louisiana	17.11	West Virginia	1,375
35	West Virginia	1.29	Nebraska	139	North Dakota	16.74	Nevada	1,236
36	Oregon	1.25	Montana	125	South Carolina	16.68	Nebraska	1,128
37	Minnesota	1.21	Washington	111	Minnesota	16.40	Maine	1,097
38	North Dakota	1.20	California	110	Oklahoma	16.36	New Mexico	1,085
39	Wisconsin	1.20	New Jersey	98	Alabama	16.26	New Hampshire	1,056
40	Tennessee	1.19	Delaware	83	Nebraska	15.82	Hawaii	1,018
41	Kentucky	1.17	New Hampshire	57	Wisconsin	15.75	Utah	967
42	Utah	1.15	Connecticut	45	West Virginia	15.68	Idaho	802
43	South Dakota	1.08	South Dakota	39	Utah	15.63	District of Columbia	735
44	Colorado	1.06	Alaska	34	Indiana	15.39	Rhode Island	689
45	Iowa	1.06	Oregon	25	Tennessee	15.30	Delaware	658
46	Oklahoma	1.03	Maine	16	Montana	13.71	Montana	614
47	Kansas	1.03	Idaho	16	Oregon	13.69	Vermont	483
48	Missouri	1.00	Hawaii	5	Wyoming	12.73	Wyoming	473
49	Wyoming	0.84	District of Columbia	(s)	Washington	12.10	Alaska	468
50	Nebraska	0.78	Vermont	(s)	Idaho	11.98	South Dakota	460
51	Montana	0.73	Rhode Island	(s)	Kentucky	11.97	North Dakota	448
	United States	**1.37**	**United States**	**26,911**	**United States**	**20.30**	**United States**	**205,944**

(s)=Value less than 0.5 million dollars.
Note: Rankings are based on unrounded data.
Source: State Energy Price and Expenditure Data System 1995.

United States Tables

Table 5. Energy Price and Expenditure Estimates by Source, 1970-1995, United States

Year	Primary Energy																Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy [c]
	Coal			Coal Coke		Natural Gas	Petroleum							Nuclear Fuel	Biofuels	Total [c]			
	Coking Coal	Steam Coal	Total	Exports	Imports		Distillate Fuel	Jet Fuel	LPG [a]	Motor Gasoline	Residual Fuel	Other [b]	Total						
	Prices in Nominal Dollars per Million Btu																		
1970	**0.45**	**0.35**	**0.37**	**1.27**	**0.93**	**0.59**	**1.16**	**0.73**	**1.46**	**2.85**	**0.42**	[R] **1.34**	**1.71**	**0.18**	**0.65**	**1.08**	**0.32**	**4.99**	**1.65**
1971	0.52	0.40	0.42	1.20	1.17	0.63	1.22	0.77	1.49	2.90	0.58	[R] 1.41	1.78	0.18	0.69	1.14	0.38	5.30	1.76
1972	0.59	0.41	0.45	1.01	1.01	0.68	1.22	0.79	1.52	2.88	0.62	[R] 1.45	[R] 1.78	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	[R] 1.51	1.96	0.19	0.77	1.29	0.46	5.86	2.02
1974	1.36	0.77	0.88	1.37	2.20	0.89	2.44	1.58	2.81	4.32	1.82	[R] 2.46	3.04	0.20	0.84	1.94	0.86	7.42	2.87
1975	**1.65**	**0.90**	**1.03**	**2.37**	**3.47**	**1.18**	**2.60**	**2.05**	**2.97**	**4.65**	**1.93**	[R] **2.82**	**3.33**	**0.24**	**0.92**	**2.19**	**0.96**	**8.61**	**3.33**
1976	1.65	0.91	1.04	2.05	3.41	1.46	2.77	2.25	3.21	4.84	1.90	[R] 2.97	3.45	0.25	0.98	2.34	1.02	9.13	3.57
1977	1.72	1.00	1.11	2.32	3.06	1.76	3.11	2.59	3.65	5.13	2.14	[R] 3.19	[R] 3.72	0.27	1.04	2.58	1.16	10.11	3.99
1978	1.94	1.17	1.28	2.87	2.90	1.95	3.26	2.87	3.60	5.24	2.08	[R] 3.35	[R] 3.83	0.30	1.12	2.72	1.25	10.92	4.24
1979	1.89	1.27	1.36	2.26	3.45	2.31	4.69	3.90	4.50	7.11	2.83	[R] 4.49	5.20	0.34	1.56	3.47	1.48	11.78	5.22
1980	**2.10**	**1.38**	**1.47**	**2.54**	**3.19**	**2.86**	**6.70**	**6.36**	**5.64**	**9.84**	**3.88**	[R] **6.65**	**7.35**	**0.43**	**1.74**	**4.58**	**1.75**	**13.95**	**6.91**
1981	2.34	1.57	1.65	2.55	3.28	3.43	8.03	7.57	6.18	10.94	4.91	[R] 8.44	[R] 8.65	0.48	1.24	[R] 5.26	2.00	16.14	[R] 8.08
1982	2.43	1.68	1.73	2.49	3.10	4.23	7.78	7.23	6.66	10.39	4.65	[R] 7.49	[R] 8.35	0.54	1.28	[R] 5.33	2.01	18.16	[R] 8.50
1983	2.14	1.68	1.71	2.76	2.25	4.72	7.32	6.53	7.17	9.12	4.50	[R] 7.04	[R] 7.71	0.58	1.12	[R] 5.12	1.98	18.62	[R] 8.43
1984	2.09	1.68	1.71	2.68	3.27	4.75	7.36	6.25	6.93	8.89	4.75	[R] 7.23	[R] 7.63	0.67	1.28	[R] 5.04	1.97	18.50	[R] 8.32
1985	**2.03**	**1.67**	**1.70**	**2.76**	**2.99**	**4.61**	**7.18**	**5.91**	[R] **6.54**	**9.01**	**4.30**	[R] **7.03**	[R] **7.56**	**0.71**	**0.79**	[R] **4.91**	**1.85**	**19.05**	[R] **8.40**
1986	1.90	1.60	1.62	2.63	3.11	4.07	5.66	3.92	[R] 6.42	6.79	2.37	[R] 5.40	[R] 5.68	0.70	0.32	3.96	1.55	19.06	[R] 7.33
1987	1.74	1.53	1.54	3.37	2.40	3.77	5.94	4.03	[R] 6.06	7.22	2.86	[R] 5.31	[R] 6.00	0.71	0.95	3.98	1.51	18.74	[R] 7.37
1988	1.79	1.48	1.50	2.85	2.90	3.78	5.80	3.80	[R] 5.86	7.32	2.35	[R] 4.96	[R] 5.86	0.73	0.87	3.88	1.45	18.68	[R] 7.29
1989	1.78	1.47	1.49	2.98	3.79	3.85	6.45	4.39	[R] 5.53	8.01	2.72	[R] 5.23	[R] 6.39	0.70	0.67	4.12	1.48	18.98	[R] 7.67
1990	**1.79**	**1.48**	**1.49**	**3.53**	**3.80**	**3.85**	**7.70**	**5.68**	[R] **6.75**	**9.12**	**3.16**	[R] **5.60**	[R] **7.43**	**0.67**	[d] [R] **1.98**	[d] **4.49**	**1.46**	**19.33**	[d] [R] **8.27**
1991	1.83	1.47	1.49	2.74	3.40	3.78	7.28	4.83	[R] 6.79	8.93	2.62	[R] 5.47	[R] 7.15	0.63	[R] 2.01	4.32	1.37	19.85	[R] 8.22
1992	1.83	1.44	1.46	2.78	3.32	3.89	7.11	4.52	[R] 6.19	8.96	2.27	[R] 5.31	[R] 7.04	0.59	2.01	4.29	1.34	[R] 20.07	[R] 8.15
1993	1.79	1.41	1.43	2.88	3.04	4.16	7.10	4.29	[R] 6.20	8.82	2.25	[R] 5.18	[R] 6.96	0.56	1.91	[R] 4.30	1.35	20.38	[R] 8.24
1994	1.73	1.38	1.40	2.46	3.31	4.15	7.03	3.95	[R] 6.61	8.91	2.32	[R] 5.22	[R] 7.01	0.56	1.88	4.32	1.30	20.34	[R] 8.29
1995	**1.76**	**1.35**	**1.37**	**2.71**	**3.49**	**3.81**	**7.02**	**4.00**	**6.54**	**9.14**	**2.46**	**5.50**	**7.23**	**0.54**	**1.88**	**4.29**	**1.23**	**20.30**	**8.28**
	Expenditures in Million Nominal Dollars																		
1970	**1,175**	**3,419**	**4,594**	**-78**	**4**	**10,891**	**6,253**	**1,441**	**2,446**	**31,596**	**2,046**	[R] **4,268**	[R] **48,051**	**44**	**2**	[R] **63,507**	**-4,316**	**23,351**	[R] **82,542**
1971	1,163	3,720	4,883	-45	5	12,065	6,890	1,582	2,531	33,478	2,933	[R] 4,558	[R] 51,974	73	2	[R] 68,957	-5,441	26,208	[R] 89,724
1972	1,379	4,033	5,412	-31	5	13,198	7,552	1,682	2,889	35,346	3,458	[R] 4,876	[R] 55,801	104	2	[R] 74,492	-6,473	29,718	[R] 97,737
1973	1,724	4,527	6,251	-33	40	13,933	9,524	2,001	3,933	39,667	4,667	[R] 5,465	[R] 65,257	177	3	[R] 85,628	-7,817	33,780	[R] 111,591
1974	3,284	7,862	11,145	-44	193	16,380	15,217	3,208	5,273	54,194	10,547	[R] 8,462	[R] 96,902	259	2	[R] 124,838	-14,391	42,589	[R] 153,036
1975	**3,692**	**9,356**	**13,047**	**-75**	**156**	**20,061**	**15,680**	**4,193**	**5,231**	**59,446**	**10,374**	[R] **8,832**	[R] **103,756**	**448**	**2**	[R] **137,397**	**-16,396**	**50,680**	[R] **171,680**
1976	3,740	10,339	14,079	-67	111	25,097	18,402	4,567	5,993	64,977	11,648	[R] 10,327	[R] 115,914	520	3	[R] 155,657	-18,923	56,971	[R] 193,705
1977	3,579	11,869	15,448	-71	139	29,602	22,004	5,517	6,824	70,591	14,381	[R] 12,184	[R] 131,501	743	5	[R] 177,367	-23,392	66,225	[R] 220,200
1978	3,703	13,892	17,595	-49	411	33,185	23,587	6,205	6,621	74,513	13,747	[R] 13,752	[R] 138,425	915	4	[R] 190,486	-25,746	74,164	[R] 238,904
1979	3,920	16,501	20,421	-81	340	40,785	32,854	8,603	9,383	95,916	17,656	[R] 19,304	[R] 183,716	941	8	[R] 246,131	-31,031	82,050	[R] 297,150
1980	**3,753**	**18,895**	**22,648**	**-130**	**52**	**51,061**	**40,797**	**13,923**	**10,926**	**124,408**	**21,573**	[R] **26,750**	[R] **238,377**	**1,189**	**8**	[R] **313,205**	**-37,435**	**98,098**	[R] **373,868**
1981	3,831	22,399	26,231	-74	43	60,544	48,200	15,607	11,900	138,138	22,668	[R] 28,941	[R] 265,454	1,436	5	[R] 353,638	-43,275	116,453	[R] 426,816
1982	2,661	23,765	26,426	-61	9	68,292	44,087	14,974	12,925	130,305	17,632	[R] 22,878	[R] 242,803	1,684	4	[R] 339,157	-41,311	127,394	[R] 425,240
1983	2,128	24,923	27,051	-46	2	72,000	41,846	13,979	14,083	115,816	14,099	[R] 22,172	[R] 221,995	1,859	4	[R] 322,865	-41,336	134,746	[R] 416,275
1984	2,461	26,588	29,049	-69	47	77,169	44,580	15,097	14,143	114,438	14,410	[R] 23,352	[R] 226,020	2,384	12	[R] 334,611	-43,378	142,438	[R] 433,671
1985	**2,228**	**27,491**	**29,719**	**-77**	**43**	**72,938**	**43,759**	**14,747**	[R] **13,545**	**118,044**	**11,493**	[R] **22,784**	[R] **224,371**	**2,930**	**11**	[R] **329,936**	**-42,558**	**149,242**	[R] **436,619**
1986	1,825	26,080	27,905	-65	25	59,702	34,995	10,505	[R] 12,694	91,526	7,486	[R] 18,229	[R] 175,435	3,125	4	[R] 266,131	-35,793	151,806	[R] 382,144
1987	1,718	25,867	27,585	-48	55	58,019	37,587	11,448	[R] 12,859	99,809	8,062	[R] 18,135	[R] 187,900	3,486	15	[R] 277,011	-36,692	154,692	[R] 395,010
1988	2,006	26,364	28,370	-77	194	61,089	38,593	11,318	[R] 12,775	103,211	7,259	[R] 17,226	[R] 190,381	4,111	15	[R] 284,082	-37,435	162,070	[R] 408,716
1989	1,934	26,172	28,106	-80	217	65,383	43,246	13,434	[R] 12,154	112,585	8,354	[R] 17,701	[R] 207,473	3,992	14	[R] 305,104	-38,895	169,340	[R] 435,548
1990	**1,862**	**26,519**	**28,381**	**-50**	**72**	**64,102**	**49,430**	**17,784**	[R] **13,680**	**126,472**	**8,707**	[R] **19,911**	[R] **235,984**	**4,142**	[d] [R] **1,649**	[d] [R] **334,281**	**-38,441**	[R] **176,744**	[d] [R] **472,583**
1991	1,660	26,207	27,866	-50	93	64,697	45,181	14,609	[R] 14,922	123,051	6,786	[R] 18,841	[R] 223,390	4,172	[R] 1,798	[R] 321,966	-36,500	[R] 184,823	[R] 470,287
1992	1,587	25,830	27,417	-44	143	[R] 68,400	45,110	13,559	[R] 14,161	125,158	5,575	[R] 18,762	[R] 222,326	3,878	[R] 1,839	[R] 323,958	[R] -35,764	[R] 186,962	[R] 475,155
1993	1,505	26,352	27,857	-60	116	75,941	45,885	13,002	[R] 13,961	126,397	5,439	[R] 18,782	[R] 223,466	3,658	[R] 1,747	[R] 332,725	-36,651	[R] 196,589	[R] 492,663
1994	1,473	25,778	27,251	-40	132	[R] 77,716	[R] 47,240	12,474	[R] 16,253	129,900	[R] 5,288	[R] 19,112	[R] 230,267	3,858	[R] 1,757	[R] 340,941	[R] -35,955	[R] 200,893	[R] 505,878
1995	**1,558**	**25,354**	**26,911**	**-50**	**157**	**74,150**	**47,845**	**12,525**	**16,250**	**136,475**	**4,667**	**19,729**	**237,491**	**3,865**	**2,004**	**344,528**	**-34,671**	**205,944**	**515,800**

[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.
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, 1970-1995, United States

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.13**	**1.06**	**1.39**	**1.54**	**2.12**	**1.56**	**—**	**1.24**	**6.51**	**2.12**
1971	1.22	1.12	1.46	1.59	2.09	1.61	—	1.29	6.80	2.26
1972	1.27	1.18	1.47	1.59	2.18	1.63	—	1.34	7.09	2.39
1973	1.20	1.26	1.69	1.87	3.62	2.11	—	1.56	7.44	2.73
1974	2.20	1.42	2.61	2.93	3.73	2.87	—	1.92	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	3.78	4.89	3.66	—	2.78	11.87	4.80
1978	2.60	2.52	3.51	4.04	4.75	3.79	—	2.95	12.63	5.18
1979	2.70	2.92	5.04	5.56	6.59	5.33	—	3.63	13.60	6.05
1980	**2.90**	**3.60**	**7.02**	**8.32**	**7.92**	**7.26**	**—**	**4.56**	**15.71**	**7.55**
1981	3.55	4.19	8.63	10.53	8.34	8.68	—	5.29	18.17	8.93
1982	3.64	5.05	8.38	10.47	9.24	8.69	—	5.87	20.11	9.92
1983	3.15	5.88	8.11	9.32	9.46	8.54	—	6.46	21.04	10.85
1984	3.40	5.95	8.24	9.05	9.45	8.56	—	6.49	20.96	10.88
1985	**3.25**	**5.94**	**7.92**	**8.77**	**9.10**	**8.27**	**—**	**6.48**	**21.66**	**11.14**
1986	3.11	5.67	6.35	7.14	8.57	6.91	—	5.95	21.75	10.99
1987	2.76	5.39	6.05	6.61	8.64	6.71	—	5.70	21.82	10.95
1988	2.64	5.32	6.11	6.74	8.45	6.70	—	5.63	21.92	10.90
1989	2.67	5.47	6.76	7.36	10.38	7.74	—	5.99	22.41	11.26
1990	**3.02**	**5.63**	**8.01**	**8.86**	**10.94**	**8.89**	**[d] 1.51**	**[d] 6.20**	**22.96**	**[d] 11.44**
1991	3.07	5.66	7.65	8.44	10.94	8.68	1.51	6.17	23.57	11.62
1992	2.88	5.72	7.00	7.80	10.39	8.03	1.51	6.08	[R] 24.06	11.52
1993	3.00	5.99	6.84	7.57	[R] 10.25	[R] 7.86	1.55	6.26	24.40	11.89
1994	2.69	6.23	6.64	7.30	[R] 10.89	[R] 7.93	1.55	[R] 6.45	24.57	[R] 12.22
1995	**2.62**	**5.89**	**6.52**	**7.15**	**10.85**	**7.84**	**1.55**	**6.17**	**24.63**	**12.13**
	Expenditures in Million Nominal Dollars									
1970	**173**	**5,272**	**2,603**	**459**	**1,225**	**4,286**	**—**	**9,731**	**10,352**	**20,083**
1971	176	5,702	2,774	469	1,223	4,466	—	10,344	11,589	21,933
1972	140	6,223	2,932	432	1,368	4,731	—	11,095	13,034	24,129
1973	126	6,282	3,378	426	2,153	5,957	—	12,365	14,712	27,078
1974	229	6,949	4,816	538	2,039	7,392	—	14,570	17,924	32,494
1975	**209**	**8,410**	**4,954**	**504**	**2,124**	**7,582**	**—**	**16,201**	**20,644**	**36,844**
1976	199	9,992	5,834	613	2,410	8,857	—	19,048	22,621	41,668
1977	211	11,324	6,630	633	2,609	9,872	—	21,407	26,132	47,540
1978	220	12,565	6,854	617	2,455	9,926	—	22,710	29,069	51,780
1979	199	14,772	8,200	739	2,337	11,276	—	26,246	31,683	57,929
1980	**175**	**17,497**	**9,234**	**887**	**2,575**	**12,695**	**—**	**30,367**	**38,458**	**68,825**
1981	249	19,502	9,902	899	2,593	13,394	—	33,146	44,780	77,926
1982	275	23,987	8,796	995	2,735	12,526	—	36,788	50,045	86,833
1983	239	26,564	7,500	796	3,334	11,629	—	38,432	53,918	92,350
1984	280	27,873	7,910	797	2,738	11,445	—	39,598	55,777	95,375
1985	**225**	**27,136**	**7,910**	**1,391**	**2,974**	**12,274**	**—**	**39,636**	**58,672**	**98,307**
1986	215	25,147	6,428	866	2,770	10,064	—	35,427	60,776	96,203
1987	181	23,926	6,236	784	3,107	10,127	—	34,235	63,318	97,552
1988	174	25,332	6,497	967	3,011	10,474	—	35,980	66,793	102,773
1989	156	26,953	7,038	863	4,170	12,071	—	39,180	69,243	108,423
1990	**187**	**25,442**	**6,703**	**567**	**3,992**	**11,262**	**[d] 878**	**[d] 37,768**	**[R] 72,379**	**[d R] 110,147**
1991	173	26,508	6,361	611	4,260	11,232	925	38,838	[R] 76,828	[R] 115,666
1992	163	[R] 27,598	6,054	507	3,974	10,534	973	[R] 39,270	[R] 76,848	[R] 116,118
1993	170	30,536	6,245	572	[R] 4,084	[R] 10,901	850	[R] 42,456	[R] 82,814	[R] 125,270
1994	148	[R] 31,028	5,843	474	[R] 4,308	[R] 10,625	833	[R] 42,634	[R] 84,552	[R] 127,186
1995	**140**	**29,360**	**5,751**	**531**	**4,386**	**10,668**	**924**	**41,093**	**87,610**	**128,702**

[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 7. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, United States

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total [b]		
	Prices in Nominal Dollars per Million Btu										
1970	**0.45**	**0.75**	**1.10**	**0.77**	**1.24**	**2.86**	**0.45**	**0.90**	**0.79**	**6.10**	**1.97**
1971	0.48	0.80	1.16	0.81	1.31	2.91	0.61	1.01	0.86	6.45	2.15
1972	0.51	0.86	1.16	0.80	1.32	2.90	0.65	1.04	0.91	6.71	2.33
1973	0.53	0.91	1.37	0.96	1.43	3.11	0.78	1.20	1.00	7.06	2.56
1974	1.00	1.05	2.29	2.16	2.53	4.34	1.89	2.25	1.46	8.91	3.42
1975	**1.31**	**1.32**	**2.42**	**2.32**	**2.60**	**4.66**	**1.91**	**2.39**	**1.67**	**10.11**	**4.09**
1976	1.23	1.61	2.61	2.67	2.84	4.85	1.87	2.49	1.90	10.81	4.40
1977	1.31	2.00	2.98	2.96	3.34	5.15	2.20	2.84	2.29	11.99	5.15
1978	1.40	2.20	3.11	3.15	3.53	5.30	2.06	2.92	2.42	12.78	5.54
1979	1.47	2.69	4.56	4.54	3.99	7.15	3.01	4.15	3.11	13.72	6.31
1980	**1.55**	**3.32**	**6.45**	**6.46**	**5.15**	**9.77**	**4.12**	**5.64**	**4.02**	**16.06**	**7.88**
1981	1.81	3.91	7.96	7.48	5.95	10.96	5.12	7.00	4.75	18.43	9.55
1982	1.88	4.70	7.68	7.31	6.32	10.44	4.67	6.65	5.14	20.11	10.44
1983	1.75	5.43	6.61	6.88	6.83	9.13	4.51	6.49	5.64	20.57	11.02
1984	1.80	5.40	6.58	7.98	6.82	8.94	4.94	6.54	5.63	20.90	11.23
1985	**1.80**	**5.34**	**6.31**	**7.04**	**R 8.97**	**9.01**	**4.50**	**R 6.33**	**R 5.52**	**21.31**	**R 11.71**
1986	1.66	4.94	4.16	4.89	R 8.58	6.77	2.71	R 4.29	4.64	21.10	R 11.31
1987	1.54	4.64	4.42	5.31	R 8.02	7.22	3.10	R 4.64	R 4.56	20.45	11.05
1988	1.54	4.51	4.15	4.77	R 8.16	7.33	2.53	R 4.33	R 4.39	20.34	R 10.90
1989	1.54	4.61	4.87	5.48	R 7.67	8.03	2.92	R 4.96	R 4.63	20.77	11.38
1990	**1.61**	**4.70**	**5.94**	**6.76**	**R 9.01**	**9.15**	**3.41**	**R 5.91**	**R 4.92**	**21.20**	**12.02**
1991	1.56	4.69	5.42	6.09	R 9.45	8.98	2.61	R 5.41	R 4.79	21.73	12.20
1992	1.68	4.75	5.07	5.77	R 8.82	9.07	2.68	R 5.22	R 4.78	22.15	12.32
1993	1.78	5.08	4.91	5.60	R 9.19	9.13	2.75	R 4.99	R 4.99	R 22.41	12.72
1994	1.65	5.35	4.71	5.49	R 9.01	9.14	2.90	R 4.86	R 5.17	22.36	12.90
1995	**1.63**	**4.94**	**4.69**	**5.50**	**9.11**	**9.30**	**3.14**	**4.96**	**4.87**	**22.29**	**12.78**
	Expenditures in Million Nominal Dollars										
1970	**98**	**1,844**	**646**	**47**	**127**	**247**	**323**	**1,391**	**3,333**	**7,335**	**10,668**
1971	98	2,060	690	45	135	244	409	1,523	3,681	8,318	11,999
1972	81	2,289	733	44	146	253	422	1,599	3,968	9,459	13,428
1973	78	2,421	880	62	150	270	519	1,881	4,380	10,728	15,107
1974	151	2,741	1,364	118	243	360	1,120	3,205	6,097	13,383	19,480
1975	**162**	**3,385**	**1,423**	**114**	**242**	**415**	**939**	**3,133**	**6,680**	**16,155**	**22,835**
1976	148	4,379	1,713	117	275	470	1,062	3,638	8,165	18,143	26,308
1977	159	5,094	2,014	154	314	518	1,296	4,297	9,550	21,025	30,575
1978	181	5,812	2,073	173	321	565	1,098	4,230	10,223	23,185	33,407
1979	169	7,623	2,663	356	250	747	1,518	5,534	13,326	25,427	38,753
1980	**135**	**8,858**	**3,337**	**262**	**296**	**1,046**	**2,325**	**7,267**	**16,260**	**30,621**	**46,881**
1981	175	10,085	3,641	519	327	1,003	2,138	7,628	17,888	37,479	55,367
1982	210	12,565	3,378	222	330	914	1,862	6,706	19,480	41,762	61,242
1983	205	13,602	4,304	766	424	934	939	7,368	21,174	43,581	64,756
1984	227	14,012	4,480	744	348	957	1,311	7,841	22,080	47,368	69,448
1985	**193**	**13,368**	**3,942**	**231**	**R 517**	**866**	**1,025**	**R 6,580**	**R 20,141**	**50,124**	**R 70,265**
1986	178	11,770	2,477	244	R 489	720	786	R 4,716	R 16,664	51,498	R 68,162
1987	154	11,601	2,626	258	R 509	795	814	R 5,002	R 16,757	51,970	R 68,727
1988	158	12,377	2,379	125	R 513	810	666	R 4,492	R 17,027	54,469	R 71,495
1989	135	12,909	2,604	151	R 544	818	672	R 4,789	R 17,833	57,528	R 75,361
1990	**150**	**12,681**	**2,894**	**80**	**R 581**	**1,011**	**796**	**R 5,362**	**R 18,193**	**R 60,677**	**R 78,870**
1991	132	13,176	2,612	74	R 649	764	557	R 4,656	R 17,964	63,462	R 81,427
1992	144	R 13,686	2,351	64	R 595	721	512	R 4,243	R 18,073	R 64,294	R 82,366
1993	153	14,966	2,277	79	R 647	270	481	R 3,753	R 18,872	R 67,707	R 86,579
1994	136	15,926	2,187	107	R 629	232	505	R 3,659	R 19,721	69,730	R 89,451
1995	**131**	**15,386**	**2,156**	**122**	**650**	**170**	**452**	**3,549**	**19,066**	**72,582**	**91,648**

[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 8. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, United States

Year	Primary Energy																	Electricity	Total Energy [c]
	Coal			Coal Coke		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	**0.45**	**0.44**	**0.45**	**1.27**	**0.93**	**0.38**	**0.68**	**0.72**	**0.77**	**1.10**	**5.08**	**2.86**	**0.46**	[R] **0.99**	**0.96**	**—**	**0.60**	**2.99**	**0.83**
1971	0.52	0.47	0.50	1.20	1.17	0.41	0.79	0.75	0.81	1.16	5.27	2.91	0.62	[R] 1.04	1.04	—	0.66	3.22	0.91
1972	0.59	0.51	0.55	1.01	1.01	0.46	0.82	0.75	0.81	1.18	5.58	2.87	0.60	[R] 1.04	[R] 1.04	—	0.70	3.40	0.98
1973	0.68	0.53	0.63	0.96	1.47	0.50	0.84	0.92	0.97	1.31	5.33	3.13	0.73	[R] 1.15	1.16	—	0.79	3.66	1.09
1974	1.36	0.99	1.22	1.37	2.20	0.67	1.60	2.02	2.14	2.42	7.22	4.31	1.82	[R] 2.00	[R] 2.19	—	1.38	4.95	[R] 1.77
1975	**1.65**	**1.28**	**1.50**	**2.37**	**3.47**	**0.95**	**1.89**	**2.23**	**2.34**	**2.51**	**7.48**	**4.65**	**1.91**	[R] **2.48**	[R] **2.42**	**—**	[R] **1.67**	**6.07**	**2.20**
1976	1.65	1.25	1.50	2.05	3.41	1.21	1.86	2.38	2.58	2.70	7.05	4.87	1.90	[R] 2.79	[R] 2.54	—	1.84	6.48	2.43
1977	1.72	1.31	1.56	2.32	3.06	1.48	1.95	2.68	2.91	3.14	6.97	5.16	2.15	[R] 3.12	[R] 2.82	—	2.11	7.33	2.78
1978	1.94	1.46	1.73	2.87	2.90	1.66	2.13	2.82	3.09	3.12	7.60	5.27	2.12	[R] 3.21	[R] 2.92	—	2.26	8.18	[R] 3.04
1979	1.89	1.55	1.75	2.26	3.45	1.96	2.58	3.85	4.32	4.07	10.21	7.16	2.76	[R] 4.37	[R] 3.91	—	2.84	8.94	3.63
1980	**2.10**	**1.56**	**1.87**	**2.54**	**3.19**	**2.52**	**3.68**	**5.54**	**6.30**	**5.18**	**14.36**	**9.82**	**3.69**	[R] **6.61**	[R] **5.60**	**—**	[R] **3.78**	**10.81**	**4.71**
1981	2.34	1.75	2.06	2.55	3.28	3.07	5.02	6.52	7.22	5.76	18.00	10.89	4.48	[R] 8.17	[R] 6.77	—	[R] 4.43	12.57	[R] 5.56
1982	2.43	1.84	2.09	2.49	3.10	3.80	4.24	6.61	7.41	6.19	17.25	10.43	4.46	[R] 7.04	[R] 6.38	—	[R] 4.68	14.51	[R] 6.09
1983	2.14	1.75	1.91	2.76	2.25	4.10	4.32	6.58	6.91	6.66	16.98	9.25	4.38	[R] 6.38	[R] 6.31	—	[R] 4.69	14.54	[R] 6.22
1984	2.09	1.76	1.90	2.68	3.27	4.13	4.54	6.53	7.74	6.49	17.63	8.98	4.73	[R] 6.43	[R] 6.36	—	[R] 4.68	14.16	[R] 6.14
1985	**2.03**	**1.81**	**1.89**	**2.76**	**2.99**	**3.87**	**4.77**	**6.24**	**7.08**	[R] **5.91**	**17.61**	**9.07**	**4.24**	[R] **6.11**	[R] **6.08**	**—**	[R] **4.48**	**14.57**	[R] **6.05**
1986	1.90	1.75	1.80	2.63	3.11	3.20	4.34	4.01	4.67	[R] 5.87	15.59	6.80	2.47	[R] 4.01	[R] 4.73	—	[R] 3.65	14.45	[R] 5.36
1987	1.74	1.64	1.68	3.37	2.40	2.88	3.56	4.48	5.16	[R] 5.41	[R] 13.58	7.25	2.86	[R] 4.62	[R] 4.81	—	[R] 3.53	13.98	[R] 5.19
1988	1.79	1.61	1.68	2.85	2.90	2.90	3.39	4.10	4.72	[R] 5.22	[R] 14.62	7.32	2.34	[R] 3.90	[R] 4.47	—	[R] 3.35	13.78	[R] 5.01
1989	1.78	1.61	1.68	2.98	3.79	2.93	2.95	4.80	5.40	[R] 4.27	14.48	8.05	2.75	[R] 4.58	[R] 4.55	—	[R] 3.37	13.85	[R] 5.09
1990	**1.79**	**1.63**	**1.69**	**3.53**	**3.80**	**2.95**	**3.02**	**5.89**	**6.83**	[R] **5.66**	**14.60**	**9.15**	**3.10**	[R] **5.33**	[R] **5.35**	[d R] **1.34**	[d R] **3.64**	**13.92**	[d R] **5.28**
1991	1.83	1.62	1.69	2.74	3.40	2.80	3.14	5.28	6.04	[R] 5.71	[R] 16.80	8.95	2.44	[R] 4.70	[R] 5.16	1.40	3.50	14.18	[R] 5.21
1992	1.83	1.62	1.69	2.78	3.32	2.91	2.50	5.15	5.81	[R] 5.18	[R] 18.32	8.94	2.46	[R] 4.61	[R] 4.88	[R] 1.38	[R] 3.46	14.18	[R] 5.17
1993	1.79	1.59	1.66	2.88	3.04	3.14	2.90	5.05	5.65	[R] 5.14	[R] 18.96	8.81	2.41	[R] 4.08	[R] 4.73	[R] 1.36	[R] 3.48	14.22	[R] 5.16
1994	1.73	1.60	1.65	2.46	3.31	3.11	2.93	4.85	5.49	[R] 5.62	[R] 19.11	8.91	2.50	[R] 4.04	[R] 4.88	1.34	3.53	14.00	[R] 5.16
1995	**1.76**	**1.59**	**1.65**	**2.71**	**3.49**	**2.83**	**3.18**	**4.87**	**5.53**	**5.55**	**19.40**	**9.10**	**2.75**	**4.33**	**5.04**	**1.35**	**3.43**	**13.68**	**5.01**
	Expenditures in Million Nominal Dollars																		
1970	**1,175**	**907**	**2,082**	**-78**	**4**	**2,625**	**731**	**866**	**142**	**1,046**	**786**	**824**	**635**	[R] **1,134**	[R] **6,165**	**—**	[R] **10,797**	**5,624**	[R] **16,421**
1971	1,163	808	1,971	-45	5	3,019	878	934	133	1,113	801	799	863	[R] 1,251	[R] 6,772	—	[R] 11,723	6,256	[R] 17,979
1972	1,379	833	2,212	-31	5	3,335	928	1,012	130	1,311	908	728	902	[R] 1,361	[R] 7,279	—	[R] 12,800	7,173	[R] 19,973
1973	1,724	804	2,527	-33	40	3,936	1,058	1,320	151	1,566	1,041	799	1,156	[R] 1,657	[R] 8,748	—	[R] 15,218	8,284	[R] 23,502
1974	3,284	1,420	4,704	-44	193	4,971	1,865	2,642	271	2,882	1,352	1,014	2,644	[R] 2,916	[R] 15,586	—	[R] 25,410	11,184	[R] 36,594
1975	**3,692**	**1,806**	**5,498**	**-75**	**156**	**5,844**	**1,914**	**2,907**	**278**	**2,760**	**1,119**	**1,039**	**2,367**	[R] **3,499**	[R] **15,883**	**—**	[R] **27,307**	**13,760**	[R] **41,067**
1976	3,740	1,709	5,448	-67	111	7,484	1,856	3,549	317	3,184	1,171	1,028	2,886	[R] 4,795	[R] 18,786	—	[R] 31,762	16,083	[R] 47,845
1977	3,579	1,781	5,360	-71	139	8,958	2,065	4,451	417	3,747	1,268	1,014	3,456	[R] 6,166	[R] 22,584	—	[R] 36,970	18,956	[R] 55,926
1978	3,703	2,019	5,722	-49	411	10,114	2,471	4,783	480	3,679	1,484	936	2,965	[R] 6,809	[R] 23,607	—	[R] 39,804	21,798	[R] 61,603
1979	3,920	2,327	6,247	-81	340	12,110	2,977	6,664	766	6,712	2,086	1,156	3,867	[R] 9,996	[R] 34,224	—	[R] 52,840	24,797	[R] 77,638
1980	**3,753**	**2,135**	**5,888**	**-130**	**52**	**16,350**	**3,543**	**7,232**	**1,143**	**7,967**	**2,613**	**1,553**	**4,175**	[R] **15,240**	[R] **43,466**	**—**	[R] **65,626**	**28,863**	[R] **94,489**
1981	3,831	2,610	6,441	-74	43	20,432	4,156	8,983	779	8,789	3,142	1,741	4,086	[R] 15,864	[R] 47,541	—	[R] 74,383	34,007	[R] 108,390
1982	2,661	2,640	5,301	-61	9	20,504	3,514	8,599	1,044	9,656	2,745	1,442	4,025	[R] 11,247	[R] 42,272	—	[R] 68,025	35,364	[R] 103,389
1983	2,128	2,606	4,735	-46	2	21,461	3,902	7,477	457	10,064	2,830	1,039	2,908	[R] 10,241	[R] 38,917	—	[R] 65,069	37,017	[R] 102,086
1984	2,461	2,916	5,377	-69	47	23,763	4,501	7,727	448	10,781	3,134	1,436	3,647	[R] 10,309	[R] 41,983	—	[R] 71,101	39,050	[R] 110,151
1985	**2,228**	**3,016**	**5,244**	**-77**	**43**	**21,615**	**4,916**	**7,379**	**314**	[R] **9,804**	**2,916**	**1,977**	**2,815**	[R] **9,750**	[R] **39,871**	**—**	[R] **66,696**	**40,190**	[R] **106,886**
1986	1,825	2,932	4,757	-65	25	16,479	4,717	4,772	150	[R] 9,218	2,525	1,402	1,574	[R] 6,838	[R] 31,196	—	[R] 52,391	39,271	[R] 91,663
1987	1,718	2,747	4,465	-48	55	15,909	4,018	5,472	146	[R] 9,079	[R] 2,486	1,487	1,436	[R] 7,740	[R] 31,864	—	[R] 52,245	39,109	[R] 91,353
1988	2,006	2,743	4,748	-77	194	17,257	3,848	4,991	141	[R] 9,071	2,580	1,414	1,082	[R] 6,753	[R] 29,880	—	[R] 52,001	40,507	[R] 92,508
1989	1,934	2,716	4,650	-80	217	18,770	3,228	5,497	159	[R] 7,274	[R] 2,623	1,599	934	[R] 7,792	[R] 29,106	—	[R] 52,663	42,255	[R] 94,917
1990	**1,862**	**2,787**	**4,649**	**-50**	**72**	**19,348**	**3,529**	**6,938**	**84**	[R] **8,915**	**2,720**	**1,685**	**1,087**	[R] **9,922**	[R] **34,880**	[d R] **761**	[d R] **59,660**	**43,358**	[d R] **103,017**
1991	1,660	2,738	4,398	-50	93	18,912	3,382	6,002	69	[R] 9,828	2,800	1,729	658	[R] 8,881	[R] 33,349	[R] 862	[R] 57,563	[R] 44,201	[R] 101,764
1992	1,587	2,659	4,246	-44	143	[R] 20,555	2,755	5,873	57	[R] 9,432	[R] 3,113	1,737	804	[R] 8,957	[R] 32,728	[R] 855	[R] 58,482	45,474	[R] 103,956
1993	1,505	2,634	4,139	-60	116	23,426	3,336	5,540	74	[R] 9,063	[R] 3,281	1,581	930	[R] 8,013	[R] 31,817	[R] 886	[R] 60,325	[R] 45,726	[R] 106,052
1994	1,473	2,646	4,119	-40	132	[R] 23,949	3,438	5,359	93	[R] 11,028	[R] 3,457	1,723	909	[R] 7,962	[R] 33,969	[R] 912	[R] 63,042	[R] 46,257	[R] 109,298
1995	**1,558**	**2,552**	**4,110**	**-50**	**157**	**22,927**	**3,748**	**5,202**	**85**	**11,060**	**3,448**	**1,834**	**793**	**8,192**	**34,362**	**1,068**	**62,574**	**45,402**	**107,975**

[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.
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 9. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, United States

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	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**	**4.65**	**2.31**
1971	0.46	—	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	0.58	2.38	2.38	6.01	2.38
1973	0.50	—	2.36	1.66	0.91	1.34	5.33	3.10	0.66	2.57	2.57	6.70	2.57
1974	0.96	—	3.23	2.64	1.57	2.47	7.22	4.32	1.58	3.70	3.70	10.91	3.70
1975	**1.26**	**—**	**3.45**	**2.80**	**2.05**	**2.51**	**7.48**	**4.64**	**1.72**	**4.02**	**4.02**	**11.72**	**4.02**
1976	1.21	—	3.59	2.97	2.25	2.72	7.05	4.84	1.71	4.20	4.20	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	7.60	5.24	1.82	4.59	4.59	12.46	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**	**7.19**	**6.36**	**5.20**	**14.36**	**9.84**	**3.31**	**8.60**	**8.60**	**14.71**	**8.61**
1981	—	—	10.84	8.55	7.57	5.92	18.00	10.94	4.44	9.83	9.83	16.90	9.84
1982	—	—	10.92	8.14	7.23	6.37	17.25	10.39	4.54	9.42	9.42	20.42	9.43
1983	—	—	10.44	7.56	6.53	6.85	16.98	9.12	4.42	8.44	8.44	21.06	8.44
1984	—	—	10.27	7.61	6.25	6.87	17.63	8.89	4.60	8.25	8.25	20.29	8.25
1985	**—**	**—**	**9.99**	**7.50**	**5.91**	**[R] 9.03**	**17.61**	**9.01**	**4.36**	**8.25**	**8.25**	**19.74**	**8.26**
1986	—	—	8.41	6.36	3.92	[R] 8.40	15.59	6.79	2.11	6.21	6.21	19.63	6.22
1987	—	—	7.55	6.75	4.03	[R] 7.97	[R] 13.58	7.22	2.64	[R] 6.57	[R] 6.57	23.03	[R] 6.58
1988	—	—	7.41	6.59	3.80	[R] 8.13	[R] 14.62	7.32	2.22	6.55	6.55	22.05	6.56
1989	—	—	8.28	7.16	4.39	[R] 7.65	14.48	8.01	2.47	7.16	7.16	22.99	7.17
1990	**—**	**3.29**	**9.32**	**8.46**	**5.68**	**[R] 8.87**	**14.60**	**9.12**	**2.98**	**8.26**	**8.26**	**[R] 23.50**	**8.27**
1991	—	3.84	8.71	8.11	4.83	[R] 9.23	[R] 16.80	8.93	2.83	7.97	7.97	23.79	7.98
1992	—	3.91	8.54	8.01	4.52	[R] 8.72	[R] 18.32	8.96	1.98	[R] 7.90	[R] 7.90	[R] 25.25	[R] 7.91
1993	—	4.17	8.24	8.05	4.29	[R] 8.86	[R] 18.96	8.82	1.98	7.86	7.86	[R] 25.99	7.87
1994	—	[R] 4.10	7.96	8.01	3.95	[R] 8.95	[R] 19.11	8.91	2.06	7.87	7.87	26.25	7.88
1995	**—**	**4.07**	**8.36**	**7.97**	**4.00**	**9.19**	**19.40**	**9.14**	**2.18**	**8.03**	**8.03**	**26.59**	**8.04**
	Expenditures in Million Nominal Dollars												
1970	**3**	**—**	**218**	**2,058**	**1,441**	**49**	**745**	**30,525**	**291**	**35,327**	**35,330**	**40**	**35,370**
1971	2	—	200	2,352	1,582	60	776	32,435	362	37,766	37,768	45	37,813
1972	2	—	187	2,683	1,601	63	880	34,365	375	40,154	40,156	51	40,207
1973	1	—	197	3,695	1,938	65	870	38,598	483	45,846	45,847	56	45,904
1974	2	—	265	5,804	3,139	109	1,130	52,820	1,102	64,368	64,370	98	64,468
1975	**1**	**—**	**245**	**5,938**	**4,150**	**105**	**1,158**	**57,992**	**1,226**	**70,813**	**70,814**	**120**	**70,934**
1976	(s)	—	242	6,785	4,506	124	1,212	63,480	1,411	77,759	77,759	125	77,884
1977	(s)	—	279	8,237	5,417	153	1,198	69,059	1,703	86,047	86,047	112	86,159
1978	—	—	307	9,184	6,130	166	1,402	73,013	1,802	92,003	92,003	112	92,115
1979	—	—	403	14,656	8,533	84	1,970	94,013	3,028	122,688	122,688	143	122,831
1980	**—**	**—**	**580**	**20,090**	**13,856**	**88**	**2,468**	**121,809**	**4,626**	**163,517**	**163,517**	**156**	**163,674**
1981	—	—	610	24,798	15,575	191	2,968	135,394	5,411	184,946	184,946	187	185,133
1982	—	—	513	22,709	14,955	205	2,593	127,949	4,630	173,553	173,553	223	173,776
1983	—	—	498	21,968	13,979	261	2,673	113,843	3,632	156,854	156,854	229	157,084
1984	—	—	450	23,913	15,097	275	2,960	112,044	3,714	158,454	158,454	244	158,698
1985	**—**	**—**	**503**	**24,027**	**14,747**	**[R] 250**	**2,754**	**115,201**	**3,422**	**[R] 160,905**	**[R] 160,905**	**256**	**[R] 161,161**
1986	—	—	496	21,012	10,505	[R] 217	2,384	89,404	1,838	[R] 125,856	[R] 125,856	260	[R] 126,116
1987	—	—	344	22,879	11,448	[R] 164	[R] 2,348	97,527	2,373	[R] 137,083	[R] 137,083	295	[R] 137,378
1988	—	—	363	24,310	11,318	[R] 180	2,437	100,988	2,042	[R] 141,639	[R] 141,639	300	[R] 141,939
1989	—	—	394	27,475	13,434	[R] 167	2,477	110,168	2,420	[R] 156,534	[R] 156,534	313	[R] 156,847
1990	**—**	**1**	**419**	**32,409**	**17,784**	**[R] 193**	**2,569**	**123,775**	**3,067**	**[R] 180,218**	**[R] 180,219**	**331**	**[R] 180,550**
1991	—	1	363	29,818	14,609	[R] 184	2,644	120,557	2,922	[R] 171,099	[R] 171,100	331	[R] 171,431
1992	—	2	351	30,512	13,559	[R] 160	[R] 2,940	122,700	2,145	[R] 172,367	[R] 172,370	345	[R] 172,714
1993	—	4	316	31,479	13,002	[R] 168	[R] 3,099	124,546	1,806	[R] 174,416	[R] 174,421	342	[R] 174,762
1994	—	7	304	33,457	12,474	[R] 288	[R] 3,265	127,945	[R] 1,849	[R] 179,582	[R] 179,589	355	[R] 179,944
1995	**—**	**11**	**331**	**34,357**	**12,525**	**154**	**3,257**	**134,470**	**2,019**	**187,113**	**187,125**	**349**	**187,474**

[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 0.5 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, 1970-1995, United States

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.31**	**0.28**	**0.41**	**0.57**	**0.29**	**0.42**	**0.18**	**0.65**	**0.32**
1971	0.36	0.31	0.57	0.70	0.30	0.58	0.18	0.69	0.38
1972	0.38	0.33	0.64	0.88	0.31	0.66	0.18	0.72	0.41
1973	0.41	0.35	0.78	1.15	0.28	0.80	0.19	0.77	0.46
1974	0.71	0.49	1.87	2.14	0.36	1.89	0.20	0.84	0.86
1975	**0.82**	**0.75**	**1.99**	**2.22**	**0.53**	**2.00**	**0.24**	**0.92**	**0.96**
1976	0.85	1.03	1.95	2.39	1.50	1.98	0.25	0.98	1.02
1977	0.95	1.29	2.19	2.72	1.37	2.23	0.27	1.04	1.16
1978	1.12	1.43	2.13	2.78	0.86	2.17	0.30	1.12	1.25
1979	1.22	1.74	2.98	4.15	1.38	3.04	0.34	1.56	1.48
1980	**1.35**	**2.20**	**4.25**	**5.75**	**2.61**	**4.34**	**0.43**	**1.74**	**1.75**
1981	1.53	2.80	5.32	7.32	0.95	5.43	0.48	1.24	2.00
1982	1.65	3.37	4.83	6.99	1.15	4.94	0.54	1.28	2.01
1983	1.66	3.47	4.60	6.20	1.27	4.68	0.58	1.12	1.98
1984	1.66	3.58	4.82	6.22	1.25	4.90	0.67	1.28	1.97
1985	**1.65**	**3.43**	**4.24**	**5.89**	**1.27**	**4.35**	**0.71**	**0.79**	**1.85**
1986	1.58	2.35	2.42	3.67	1.04	2.48	0.70	0.32	1.55
1987	1.51	2.24	2.97	4.17	1.04	3.04	0.71	0.95	1.51
1988	1.47	2.26	2.41	3.81	0.99	2.49	0.73	0.87	1.45
1989	1.45	2.36	2.85	4.26	0.86	2.95	0.70	0.67	1.48
1990	**1.45**	**2.32**	**3.30**	**5.62**	**0.83**	**3.41**	**0.67**	**0.46**	**1.46**
1991	1.45	2.14	2.46	4.84	0.82	2.59	0.63	0.50	1.37
1992	1.41	2.32	2.48	4.77	0.62	2.58	0.59	0.51	1.34
1993	1.39	2.55	2.37	4.48	0.36	2.45	0.56	0.55	1.35
1994	1.35	2.23	2.39	R 4.14	0.51	2.51	0.56	0.56	1.30
1995	**1.32**	**1.99**	**2.58**	**4.19**	**0.64**	**2.73**	**0.54**	**0.70**	**1.23**
	Expenditures in Million Nominal Dollars								
1970	**2,237**	**1,151**	**797**	**80**	**6**	**882**	**44**	**2**	**4,316**
1971	2,637	1,283	1,300	141	5	1,446	73	2	5,441
1972	2,977	1,351	1,759	274	6	2,039	104	2	6,473
1973	3,518	1,294	2,508	313	4	2,825	177	3	7,817
1974	6,060	1,720	5,681	661	7	6,350	259	2	14,391
1975	**7,178**	**2,422**	**5,842**	**502**	**1**	**6,345**	**448**	**2**	**16,396**
1976	8,284	3,242	6,289	582	3	6,874	520	3	18,923
1977	9,718	4,225	7,926	771	4	8,701	743	5	23,392
1978	11,472	4,695	7,882	767	10	8,660	915	4	25,746
1979	13,806	6,281	9,244	740	11	9,995	941	8	31,031
1980	**16,450**	**8,357**	**10,446**	**972**	**14**	**11,432**	**1,189**	**8**	**37,435**
1981	19,365	10,524	11,032	908	4	11,944	1,436	5	43,275
1982	20,641	11,236	7,116	624	5	7,745	1,684	4	41,311
1983	21,873	10,373	6,620	596	10	7,226	1,859	4	41,336
1984	23,165	11,521	5,737	550	9	6,296	2,384	12	43,378
1985	**24,056**	**10,819**	**4,232**	**502**	**9**	**4,742**	**2,930**	**11**	**42,558**
1986	22,755	6,305	3,288	306	10	3,603	3,125	4	35,793
1987	22,785	6,583	3,439	373	11	3,823	3,486	15	36,692
1988	23,290	6,123	3,468	416	12	3,896	4,111	15	37,435
1989	23,165	6,750	4,328	632	13	4,974	3,992	14	38,895
1990	**23,396**	**6,631**	**3,757**	**485**	**20**	**4,263**	**4,142**	**10**	**38,441**
1991	23,164	6,099	2,649	387	18	3,055	4,172	11	36,500
1992	22,863	R 6,559	2,114	321	19	2,454	3,878	11	R 35,764
1993	23,395	7,009	2,222	343	13	2,578	3,658	11	36,651
1994	22,847	6,806	R 2,025	R 394	13	R 2,432	3,858	12	R 35,955
1995	**22,530**	**6,466**	**1,404**	**380**	**15**	**1,799**	**3,865**	**12**	**34,671**

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

State Tables

Table 11. Energy Price and Expenditure Estimates by Source, 1970-1995, Alabama

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	**0.42**	**0.26**	**0.32**	**0.52**	**1.10**	**0.73**	**2.00**	**2.82**	**0.41**	**R 1.28**	**R 2.12**	**—**	**—**	**0.84**	**0.26**	**3.51**	**1.37**
1971	0.46	0.35	0.39	0.58	1.15	0.76	2.06	2.85	0.56	R 1.34	R 2.20	—	—	R 0.95	0.34	3.83	R 1.52
1972	0.53	0.38	0.43	0.63	1.18	0.76	2.03	2.95	0.53	R 1.43	R 2.23	—	—	1.00	0.38	4.00	R 1.62
1973	0.64	0.42	0.48	0.70	1.40	0.90	3.20	3.08	0.68	R 1.48	R 2.35	0.11	—	R 1.12	0.42	4.50	R 1.86
1974	1.27	0.76	0.90	0.83	2.36	1.56	3.62	4.14	1.59	R 2.13	R 3.18	0.12	—	R 1.59	0.66	5.44	R 2.53
1975	**1.50**	**0.94**	**1.10**	**0.96**	**2.60**	**2.03**	**3.83**	**4.26**	**1.59**	**R 3.15**	**R 3.36**	**0.14**	**—**	**1.82**	**0.88**	**6.87**	**R 2.86**
1976	1.49	1.02	1.16	1.41	2.71	2.18	3.87	4.70	1.64	R 3.11	R 3.57	0.15	—	R 2.05	0.94	7.27	R 3.24
1977	2.06	1.15	1.37	1.63	3.06	2.55	4.46	5.12	1.79	R 3.15	R 3.86	0.18	—	2.10	0.84	8.72	R 3.80
1978	1.82	1.35	1.46	1.97	3.11	2.88	4.50	5.27	1.75	R 3.37	R 3.99	0.27	—	R 2.23	0.95	9.22	R 4.04
1979	1.80	1.50	1.57	2.63	4.38	3.90	5.74	7.04	2.24	R 4.63	R 5.58	0.24	—	R 2.71	1.07	10.61	R 4.96
1980	**1.96**	**1.63**	**1.70**	**2.90**	**6.58**	**6.39**	**6.62**	**9.89**	**2.99**	**R 6.23**	**R 7.92**	**0.33**	**—**	**R 3.38**	**1.17**	**12.52**	**R 6.43**
1981	2.07	1.90	1.93	3.49	8.00	7.67	7.26	11.24	3.86	R 8.27	R 9.39	0.43	—	4.03	1.37	14.56	R 7.67
1982	2.18	2.03	2.05	4.39	7.67	7.42	7.69	10.61	3.80	R 7.62	R 8.85	0.42	—	4.07	1.31	16.86	R 8.14
1983	2.03	2.01	2.01	4.89	6.80	6.74	8.34	9.07	3.90	R 7.36	R 8.02	0.45	—	3.88	1.40	17.59	8.12
1984	2.03	2.02	2.02	4.84	6.68	6.52	8.28	8.98	4.48	R 7.50	R 7.98	0.64	—	3.90	1.51	17.81	R 8.01
1985	**2.02**	**2.00**	**2.01**	**4.73**	**6.40**	**6.17**	**R 7.07**	**9.15**	**3.80**	**R 7.26**	**R 7.92**	**0.77**	**—**	**3.98**	**1.74**	**16.59**	**R 7.88**
1986	1.81	1.89	1.89	4.50	5.51	4.45	R 7.15	6.99	1.98	R 5.84	R 6.25	0.70	—	3.48	1.68	16.66	R 7.16
1987	1.71	1.89	1.87	4.27	5.97	4.39	R 7.29	7.27	2.18	R 5.15	R 6.42	0.69	—	3.57	1.69	16.48	R 7.13
1988	1.70	1.90	1.87	4.03	5.67	4.07	R 7.04	7.21	2.49	R 4.83	R 6.27	0.65	—	R 3.48	1.66	16.34	6.91
1989	1.74	1.84	1.83	3.92	6.36	4.64	R 8.73	7.96	2.20	4.96	6.87	0.60	—	3.72	1.63	16.43	7.29
1990	**1.83**	**1.83**	**1.83**	**4.07**	**7.35**	**5.99**	**R 10.25**	**8.96**	**2.18**	**5.51**	**R 7.76**	**0.56**	**d R 1.63**	**d R 3.96**	**1.60**	**R 16.47**	**d R 7.62**
1991	1.80	1.79	1.80	4.08	6.86	5.03	R 11.39	8.69	1.74	5.35	R 7.47	0.71	R 1.69	3.72	1.56	16.69	R 7.53
1992	1.78	1.71	1.72	4.06	6.92	4.73	R 10.39	8.67	1.68	R 4.88	7.40	0.75	1.69	3.57	1.48	16.47	7.31
1993	1.77	1.75	1.75	4.28	6.99	4.41	R 9.93	8.62	1.65	4.94	R 7.41	0.67	1.52	3.59	1.53	16.78	7.52
1994	1.77	1.66	1.68	4.33	6.79	4.11	R 8.80	8.56	1.73	R 4.97	R 7.28	0.70	1.46	3.57	1.43	R 16.30	7.37
1995	**1.81**	**1.56**	**1.59**	**3.85**	**6.99**	**4.06**	**8.80**	**8.85**	**1.97**	**5.22**	**7.56**	**0.51**	**1.48**	**3.46**	**1.31**	**16.26**	**7.36**
	Expenditures in Million Nominal Dollars																
1970	**99.4**	**115.9**	**215.3**	**143.2**	**54.6**	**7.2**	**57.0**	**547.6**	**8.0**	**R 54.2**	**R 728.5**	**—**	**—**	**R 1,087.1**	**-103.4**	**411.6**	**R 1,395.3**
1971	94.5	150.1	244.5	151.9	59.5	7.5	62.1	584.7	8.9	R 54.3	R 776.9	—	—	R 1,173.4	-128.1	462.4	R 1,507.7
1972	113.9	172.5	286.4	160.4	82.9	7.1	68.5	640.8	8.8	R 60.5	R 868.6	—	—	R 1,315.3	-152.3	533.7	R 1,696.7
1973	128.5	205.0	333.5	171.1	117.2	8.4	101.4	707.7	25.5	R 70.5	R 1,030.6	0.4	—	R 1,535.6	-187.8	651.8	R 1,999.6
1974	236.5	354.2	590.7	205.4	206.4	14.7	95.2	959.7	101.3	R 96.4	R 1,473.7	8.5	—	R 2,278.3	-330.0	797.4	R 2,745.7
1975	**269.2**	**431.7**	**700.9**	**227.1**	**221.6**	**19.1**	**91.9**	**1,010.7**	**127.4**	**R 108.6**	**R 1,579.3**	**4.2**	**—**	**R 2,511.4**	**-385.8**	**940.2**	**R 3,065.7**
1976	268.5	462.9	731.3	294.6	287.8	19.9	100.3	1,172.9	144.0	R 118.5	R 1,843.4	7.0	—	R 2,876.3	-439.7	1,078.4	R 3,515.0
1977	312.1	548.6	860.7	355.3	349.8	25.0	124.8	1,323.6	180.6	R 130.5	R 2,134.3	37.3	—	R 3,387.6	-553.5	1,399.9	R 4,234.1
1978	246.5	597.6	844.2	417.6	372.6	28.6	109.0	1,404.1	161.8	R 159.5	R 2,235.6	66.6	—	R 3,563.9	-623.6	1,549.5	R 4,489.9
1979	286.9	767.5	1,054.4	627.9	381.8	36.9	120.8	1,771.7	137.0	R 209.6	R 2,657.8	58.2	—	R 4,398.3	-740.7	1,807.5	R 5,465.1
1980	**254.7**	**866.3**	**1,121.0**	**676.5**	**579.2**	**72.3**	**116.3**	**2,301.3**	**135.2**	**R 281.0**	**R 3,485.3**	**85.2**	**—**	**R 5,368.0**	**-849.4**	**2,120.5**	**R 6,639.1**
1981	214.1	999.1	1,213.2	827.1	834.3	74.6	120.8	2,540.2	105.4	R 509.6	R 4,184.9	112.4	—	R 6,337.6	-1,005.3	2,369.1	R 7,701.3
1982	143.8	903.2	1,047.1	930.0	687.9	64.9	122.3	2,392.7	139.7	R 457.7	R 3,865.2	128.1	—	R 5,970.4	-896.2	2,499.6	R 7,573.8
1983	100.9	970.9	1,071.8	946.8	608.9	61.3	134.0	2,067.0	81.8	R 411.5	R 3,364.5	123.6	—	R 5,506.8	-961.8	2,618.3	R 7,163.3
1984	158.7	1,018.6	1,177.3	986.1	628.7	134.9	100.7	2,084.8	73.6	R 419.6	R 3,442.4	168.3	—	R 5,774.1	-1,044.3	2,909.0	R 7,638.8
1985	**156.1**	**1,172.4**	**1,328.5**	**923.7**	**607.2**	**121.6**	**R 92.8**	**2,090.3**	**53.6**	**R 362.3**	**R 3,327.7**	**118.7**	**—**	**R 5,698.6**	**-1,174.9**	**2,735.9**	**R 7,259.6**
1986	129.4	1,115.8	1,245.2	796.7	528.3	93.5	R 104.6	1,705.0	29.3	R 300.4	R 2,761.0	87.5	—	R 4,890.3	-1,088.6	2,818.4	R 6,620.1
1987	144.5	1,089.6	1,234.1	763.9	651.7	95.2	R 124.0	1,848.6	31.4	R 300.1	R 3,051.0	83.3	—	R 5,132.3	-1,063.7	2,950.9	R 7,019.6
1988	154.0	1,069.2	1,223.2	826.2	674.8	42.2	R 114.0	1,824.2	51.1	R 272.2	2,978.5	90.1	—	R 5,118.0	-1,046.7	3,039.7	R 7,111.0
1989	154.7	1,079.3	1,234.0	839.3	914.6	52.7	R 153.1	2,067.1	49.1	287.7	R 3,524.3	74.4	—	R 5,672.1	-1,065.0	3,139.7	R 7,746.8
1990	**160.8**	**1,077.2**	**1,238.1**	**841.6**	**1,089.3**	**63.1**	**R 154.5**	**2,303.4**	**52.6**	**328.2**	**R 3,991.2**	**71.7**	**d R 66.9**	**d R 6,209.4**	**-1,066.3**	**R 3,237.2**	**d R 8,380.3**
1991	153.0	1,139.2	1,292.2	871.7	955.4	63.6	R 156.7	2,260.4	38.5	R 329.3	R 3,803.9	120.9	R 73.7	R 6,162.4	-1,172.3	R 3,356.5	R 8,346.6
1992	157.6	1,170.0	1,327.5	932.1	984.3	55.4	R 149.3	2,312.9	39.0	R 291.6	R 3,832.5	154.4	R 74.8	R 6,321.4	-1,206.8	R 3,362.8	R 8,477.3
1993	152.3	1,262.2	1,414.5	1,049.6	935.6	48.5	R 180.2	2,351.1	39.6	R 296.6	R 3,851.6	127.7	R 78.6	R 6,522.0	-1,315.1	R 3,567.6	R 8,774.4
1994	154.3	1,137.5	1,291.9	R 1,052.2	1,005.0	80.6	R 164.0	2,392.8	34.6	R 305.0	R 3,982.1	153.2	R 85.8	R 6,565.3	-1,211.0	R 3,561.0	R 8,915.2
1995	**157.7**	**1,155.7**	**1,313.4**	**1,033.0**	**940.2**	**88.3**	**163.0**	**2,579.1**	**37.6**	**312.6**	**4,120.8**	**112.7**	**102.5**	**6,682.4**	**-1,195.7**	**3,685.5**	**9,172.3**

[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 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 12. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Alabama

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**0.81**	**1.10**	**1.24**	**1.62**	**2.22**	**2.17**	**—**	**1.37**	**4.62**	**2.45**
1971	0.94	1.15	1.36	1.67	2.26	2.23	—	1.44	4.89	2.64
1972	1.01	1.23	1.37	1.69	2.23	2.21	—	1.51	5.14	2.84
1973	1.17	1.33	1.51	1.94	4.07	3.88	—	2.02	5.73	3.45
1974	1.86	1.51	2.26	2.95	4.01	3.91	—	2.07	6.71	3.94
1975	**1.82**	**1.52**	**2.53**	**3.31**	**4.32**	**4.22**	**—**	**2.13**	**8.05**	**4.48**
1976	1.90	1.94	2.79	3.55	4.17	4.10	—	2.44	8.71	4.86
1977	2.01	2.24	3.28	3.84	4.77	4.68	—	2.84	10.42	5.89
1978	2.91	2.63	3.45	4.25	5.01	4.90	—	3.11	10.77	6.28
1979	2.76	3.56	4.57	6.78	7.64	7.42	—	4.14	12.33	7.74
1980	**2.97**	**3.91**	**6.83**	**9.13**	**7.75**	**7.89**	**—**	**4.53**	**14.44**	**9.06**
1981	3.71	4.61	8.55	11.14	8.02	8.32	—	5.24	16.17	10.27
1982	3.30	5.31	8.16	10.98	9.01	9.50	—	6.06	18.60	11.89
1983	3.56	6.00	4.93	9.75	9.26	9.30	—	6.64	19.40	12.44
1984	3.27	6.06	7.89	9.14	8.90	8.97	—	6.54	20.32	13.03
1985	**3.19**	**6.18**	**7.68**	**8.90**	**8.49**	**8.49**	**—**	**6.46**	**18.74**	**12.82**
1986	2.89	6.30	5.33	6.18	8.08	7.94	—	6.50	18.95	13.02
1987	2.88	6.43	5.13	5.94	8.68	8.54	—	6.73	18.92	12.97
1988	2.62	6.33	4.93	5.71	8.21	7.97	—	6.54	19.06	13.00
1989	2.64	6.09	5.52	6.40	9.25	9.08	—	6.62	19.31	13.24
1990	**2.70**	**6.38**	**6.70**	**7.76**	**11.05**	**10.91**	**[d] 3.53**	**[d] 6.79**	**19.32**	**[d] 12.51**
1991	2.81	6.86	6.16	7.15	12.45	12.16	3.53	7.27	19.61	12.96
1992	2.69	6.56	5.52	6.40	11.08	10.94	3.53	6.76	[R] 19.60	12.50
1993	2.73	6.89	5.38	6.24	10.18	10.05	3.53	7.12	20.00	[R] 13.22
1994	2.83	7.19	5.35	6.21	[R] 11.08	[R] 10.96	3.53	[R] 7.51	[R] 19.61	[R] 13.37
1995	**2.61**	**6.66**	**4.83**	**5.59**	**11.04**	**10.82**	**3.53**	**7.07**	**19.66**	**13.27**
	Expenditures in Million Nominal Dollars									
1970	**0.9**	**63.0**	**0.3**	**2.2**	**41.4**	**43.8**	**—**	**107.7**	**181.7**	**289.4**
1971	0.8	65.1	0.3	1.5	45.0	46.8	—	112.7	204.2	316.9
1972	1.0	67.6	0.4	1.0	48.6	50.0	—	118.6	234.3	352.9
1973	0.9	76.2	0.6	2.7	80.4	83.7	—	160.8	287.3	448.1
1974	0.6	85.4	1.0	2.3	63.9	67.2	—	153.2	336.1	489.3
1975	**0.3**	**82.0**	**1.1**	**2.5**	**62.8**	**66.4**	**—**	**148.8**	**368.5**	**517.3**
1976	0.2	113.1	2.0	2.4	69.2	73.5	—	186.8	418.6	605.5
1977	0.5	130.5	2.1	3.4	83.6	89.2	—	220.1	542.3	762.4
1978	4.4	154.1	2.0	4.7	71.3	78.0	—	236.6	578.3	814.9
1979	3.6	191.8	2.4	5.2	66.9	74.5	—	269.8	632.5	902.3
1980	**5.7**	**211.7**	**0.5**	**10.2**	**73.7**	**84.5**	**—**	**301.9**	**811.2**	**1,113.2**
1981	2.8	239.6	0.8	11.7	78.4	90.9	—	333.3	877.8	1,211.2
1982	3.5	262.4	2.6	33.3	74.7	110.5	—	376.4	1,001.7	1,378.1
1983	4.0	300.4	1.3	33.2	91.2	125.8	—	430.2	1,046.7	1,476.9
1984	4.0	316.5	2.0	39.6	64.5	106.1	—	426.5	1,179.7	1,606.3
1985	**3.4**	**280.1**	**1.5**	**3.7**	**63.8**	**69.0**	**—**	**352.5**	**1,098.4**	**1,450.9**
1986	3.2	291.3	1.2	2.2	70.3	73.7	—	368.3	1,180.4	1,548.7
1987	3.4	325.9	0.9	2.0	90.0	92.9	—	422.2	1,245.2	1,667.4
1988	3.5	318.4	1.2	4.2	83.2	88.6	—	410.5	1,277.0	1,687.5
1989	1.6	301.7	1.1	2.9	103.5	107.5	—	410.8	1,307.0	1,717.9
1990	**2.4**	**298.4**	**1.0**	**1.7**	**107.6**	**110.3**	**[d] 20.9**	**[d] 431.9**	**[R] 1,366.1**	**[d R] 1,798.0**
1991	0.4	325.4	0.7	2.5	104.0	107.1	22.0	454.8	[R] 1,424.7	[R] 1,879.6
1992	2.0	334.6	0.3	1.1	88.9	90.3	23.1	450.1	[R] 1,413.4	[R] 1,863.5
1993	0.9	364.7	0.5	1.5	105.1	107.0	17.5	490.2	[R] 1,544.2	[R] 2,034.4
1994	0.3	368.6	0.4	1.0	[R] 112.7	[R] 114.1	17.2	[R] 500.2	[R] 1,549.9	[R] 2,050.0
1995	**0.2**	**340.1**	**0.2**	**2.1**	**114.0**	**116.3**	**19.0**	**475.6**	**1,630.9**	**2,106.5**

[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 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 13. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Alabama

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.28**	**0.58**	**0.97**	**0.75**	**1.58**	**2.82**	**0.38**	**1.53**	**0.75**	**5.39**	**1.98**
1971	0.40	0.64	1.05	0.80	1.67	2.85	0.55	1.69	0.82	5.67	2.16
1972	0.37	0.71	1.05	0.80	1.67	2.95	0.56	1.71	0.89	5.90	2.32
1973	0.40	0.72	1.16	0.88	1.77	3.08	0.71	1.68	0.94	6.65	2.77
1974	0.83	0.85	1.89	1.86	3.02	4.14	1.66	2.73	1.25	7.66	3.35
1975	**1.07**	**1.04**	**2.22**	**2.24**	**3.07**	**4.26**	**1.69**	**2.96**	**1.46**	**8.98**	**3.97**
1976	1.21	1.55	2.45	2.44	3.34	4.70	1.69	3.14	1.95	9.55	4.36
1977	1.31	1.78	2.86	2.75	3.93	5.12	1.81	3.61	2.23	12.04	5.41
1978	1.47	2.03	2.98	3.14	3.78	5.27	1.74	3.72	2.42	12.17	5.76
1979	1.56	2.71	4.24	4.64	4.39	7.04	2.24	5.10	3.11	14.06	6.59
1980	**1.73**	**3.27**	**6.22**	**5.91**	**5.28**	**9.89**	**3.39**	**6.61**	**3.78**	**16.19**	**8.44**
1981	1.98	3.93	7.79	7.15	6.18	11.24	—	7.99	4.84	17.81	10.65
1982	2.02	4.59	7.32	7.03	6.25	10.61	3.93	7.19	4.96	19.90	11.93
1983	1.93	5.22	6.13	6.58	6.90	9.07	4.15	6.69	5.39	20.45	12.19
1984	1.87	5.27	6.14	8.64	7.38	8.98	4.54	6.90	5.44	22.26	12.54
1985	**1.86**	**5.27**	**6.13**	**8.20**	**[R] 5.16**	**9.15**	**4.02**	**[R] 5.84**	**5.29**	**20.01**	**11.41**
1986	1.76	5.21	3.59	4.95	[R] 5.77	6.99	2.16	[R] 3.84	[R] 4.62	20.03	[R] 11.41
1987	1.63	5.31	4.04	5.78	[R] 5.11	7.27	2.67	[R] 4.32	[R] 4.77	19.36	11.66
1988	1.60	5.13	3.63	5.13	[R] 5.08	7.21	1.99	[R] 3.63	[R] 4.43	19.29	11.10
1989	1.65	5.01	4.15	6.08	[R] 7.80	7.96	2.38	[R] 4.62	[R] 4.79	19.65	[R] 11.85
1990	**1.65**	**5.28**	**5.47**	**7.79**	**[R] 8.81**	**8.96**	**2.65**	**[R] 5.45**	**[R] 5.18**	**[R] 19.53**	**[R] 12.32**
1991	1.64	5.59	4.77	6.78	[R] 9.75	8.69	2.13	[R] 5.47	[R] 5.52	[R] 19.81	[R] 13.29
1992	1.61	5.55	4.43	6.45	[R] 9.52	8.67	—	[R] 5.70	[R] 5.43	19.91	[R] 13.05
1993	1.59	6.01	4.30	6.29	[R] 9.61	8.62	—	[R] 5.74	[R] 5.87	[R] 20.15	[R] 13.58
1994	1.58	6.19	3.98	[R] 5.94	[R] 8.59	8.56	2.97	[R] 5.11	[R] 5.91	[R] 19.73	[R] 13.52
1995	**1.59**	**5.63**	**4.07**	**5.91**	**8.99**	**8.85**	**2.40**	**6.01**	**5.68**	**19.80**	**13.81**
	Expenditures in Million Nominal Dollars										
1970	**0.5**	**21.8**	**1.5**	**1.8**	**5.2**	**5.8**	**(s)**	**14.2**	**36.6**	**94.6**	**131.2**
1971	0.7	24.0	1.6	1.3	5.8	6.1	(s)	14.8	39.5	104.3	143.8
1972	0.7	27.4	2.5	0.9	6.4	6.4	(s)	16.3	44.3	118.1	162.3
1973	0.6	24.4	3.3	2.2	6.2	7.1	(s)	18.8	43.8	147.2	191.0
1974	0.5	30.9	6.4	2.6	8.5	9.7	(s)	27.2	58.6	174.8	233.4
1975	**0.3**	**35.9**	**7.1**	**3.1**	**7.9**	**10.1**	**(s)**	**28.2**	**64.4**	**199.0**	**263.4**
1976	0.2	55.0	12.8	2.9	9.8	11.5	(s)	37.0	92.2	211.1	303.3
1977	0.6	62.7	13.5	4.4	12.1	13.4	(s)	43.4	106.7	274.6	381.3
1978	4.2	62.0	12.6	6.3	9.5	13.9	(s)	42.3	108.5	283.7	392.2
1979	3.7	102.0	16.3	6.5	6.8	18.2	(s)	47.8	153.6	324.0	477.5
1980	**6.2**	**96.5**	**23.2**	**5.9**	**8.9**	**13.4**	**0.1**	**51.5**	**154.2**	**397.2**	**551.3**
1981	2.7	109.4	45.2	2.3	10.7	15.8	—	74.0	186.1	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	34.1	3.5	12.0	12.1	0.6	62.2	210.7	658.5	869.2
1984	4.2	150.0	33.5	6.4	9.4	10.8	0.4	60.5	214.7	642.0	856.7
1985	**3.6**	**141.3**	**46.0**	**0.7**	**[R] 6.9**	**12.1**	**13.0**	**[R] 78.7**	**[R] 223.7**	**601.1**	**[R] 824.8**
1986	3.6	135.7	20.3	0.8	[R] 8.9	9.3	7.6	[R] 46.8	[R] 186.1	635.2	[R] 821.3
1987	3.5	122.7	27.1	1.6	[R] 9.4	9.9	6.4	[R] 54.3	[R] 180.5	656.1	[R] 836.6
1988	4.0	135.0	23.8	0.4	[R] 9.1	9.2	8.8	[R] 51.3	[R] 190.2	674.0	[R] 864.2
1989	1.9	136.6	29.7	0.5	[R] 15.4	9.3	7.5	[R] 62.5	[R] 200.9	745.0	[R] 945.9
1990	**2.8**	**131.9**	**34.6**	**0.5**	**[R] 15.1**	**12.1**	**10.2**	**[R] 72.6**	**[R] 207.2**	**[R] 772.3**	**[R] 979.5**
1991	0.4	136.1	27.3	0.6	[R] 14.4	7.3	3.3	[R] 52.8	[R] 189.3	[R] 807.6	[R] 996.9
1992	2.2	144.1	26.6	0.6	[R] 13.5	6.3	—	[R] 47.0	[R] 193.3	785.0	[R] 978.4
1993	1.0	159.2	23.0	0.5	[R] 17.5	1.9	—	[R] 42.8	[R] 203.1	[R] 818.7	[R] 1,021.7
1994	0.3	162.9	24.8	[R] 0.4	[R] 15.4	1.9	(s)	[R] 42.5	[R] 205.6	[R] 841.8	[R] 1,047.4
1995	**0.2**	**152.1**	**12.6**	**0.3**	**16.4**	**1.9**	**(s)**	**31.3**	**183.6**	**867.8**	**1,051.4**

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

Table 14. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Alabama

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.28**	**0.40**	**0.32**	**0.65**	**0.69**	**0.75**	**1.58**	**5.08**	**2.82**	**0.51**	[R] **0.97**	[R] **0.96**	**—**	**0.44**	**2.24**	**0.63**
1971	0.46	0.40	0.45	0.38	0.66	0.74	0.80	1.67	5.27	2.85	0.66	[R] 1.12	[R] 1.05	—	0.50	2.53	0.73
1972	0.53	0.37	0.49	0.41	0.76	0.74	0.80	1.67	5.58	2.95	0.58	[R] 1.11	[R] 1.07	—	0.55	2.67	0.80
1973	0.64	0.40	0.59	0.46	0.81	0.82	0.88	1.77	5.33	3.08	0.72	[R] 1.25	[R] 1.09	—	0.64	2.99	0.94
1974	1.27	0.83	1.17	0.56	1.25	1.72	1.86	3.02	7.22	4.14	1.73	[R] 2.40	[R] 1.96	—	1.13	3.89	[R] 1.50
1975	**1.50**	**1.07**	**1.39**	**0.73**	**1.85**	**2.04**	**2.24**	**3.07**	**7.48**	**4.26**	**1.74**	[R] **2.80**	[R] **2.18**	**—**	[R] **1.35**	**5.40**	[R] **1.87**
1976	1.49	1.21	1.44	1.07	1.72	2.22	2.44	3.34	7.05	4.70	1.73	[R] 3.17	[R] 2.21	—	1.55	5.74	[R] 2.18
1977	2.06	1.31	1.90	1.29	1.95	2.67	2.75	3.93	6.97	5.12	1.97	[R] 3.44	[R] 2.52	—	1.92	6.81	[R] 2.71
1978	1.82	1.47	1.73	1.60	2.16	2.87	3.14	3.78	7.60	5.27	1.97	[R] 3.54	[R] 2.66	—	[R] 1.98	7.56	[R] 2.96
1979	1.80	1.56	1.73	2.27	2.55	3.65	4.64	4.39	10.21	7.04	2.39	[R] 4.91	[R] 3.44	—	[R] 2.31	8.87	[R] 3.40
1980	**1.96**	**1.73**	**1.89**	**2.46**	**3.02**	**5.28**	**5.91**	**5.28**	**14.36**	**9.89**	**3.05**	[R] **7.53**	[R] **4.80**	**—**	**2.69**	**10.29**	[R] **4.01**
1981	2.07	1.98	2.03	3.05	4.85	6.53	7.15	6.18	18.00	11.24	4.04	[R] 9.21	[R] 6.86	—	[R] 3.59	12.11	[R] 4.92
1982	2.18	2.02	2.10	4.03	4.58	6.42	7.03	6.25	17.25	10.61	3.95	[R] 8.25	[R] 6.16	—	[R] 3.92	13.82	[R] 5.36
1983	2.03	1.93	1.97	4.34	4.56	6.40	6.58	6.90	16.98	9.07	3.85	[R] 7.72	[R] 6.31	—	[R] 3.99	14.56	[R] 5.73
1984	2.03	1.87	1.95	4.23	4.41	6.41	8.64	7.38	17.63	8.98	4.54	[R] 7.66	[R] 6.53	—	[R] 3.78	14.22	[R] 5.63
1985	**2.02**	**1.86**	**1.95**	**4.09**	**4.72**	**6.09**	**8.20**	[R] **5.16**	**17.61**	**9.15**	**4.02**	[R] **7.45**	[R] **6.44**	**—**	[R] **3.72**	**13.60**	[R] **5.55**
1986	1.81	1.76	1.78	3.54	4.90	3.67	4.95	[R] 5.77	15.59	6.99	2.16	[R] 4.28	[R] 4.74	—	[R] 3.10	13.34	[R] 5.05
1987	1.71	1.63	1.67	3.01	3.37	4.29	5.78	[R] 5.11	[R] 13.58	7.27	2.67	[R] 5.18	[R] 4.57	—	[R] 2.83	13.23	[R] 4.78
1988	1.70	1.60	1.65	2.92	3.07	3.81	5.13	[R] 5.08	[R] 14.62	7.21	1.99	[R] 4.29	[R] 4.13	—	2.65	12.96	[R] 4.54
1989	1.74	1.65	1.71	2.93	2.86	4.51	6.08	[R] 7.80	14.48	7.96	2.38	5.07	[R] 4.65	—	[R] 2.88	12.72	4.71
1990	**1.83**	**1.65**	**1.76**	**3.07**	**2.94**	**5.78**	**7.79**	[R] **8.81**	**14.60**	**8.96**	**2.65**	**6.12**	[R] **5.44**	[d] [R] **1.31**	[d] [R] **3.05**	[R] **12.73**	[d] [R] **4.73**
1991	1.80	1.64	1.74	2.92	3.31	5.03	6.78	[R] 9.75	[R] 16.80	8.69	2.13	5.64	[R] 5.12	1.38	2.87	12.81	4.60
1992	1.78	1.61	1.70	2.99	2.03	4.79	6.45	[R] 9.52	[R] 18.32	8.67	2.13	5.65	[R] 4.73	1.37	2.75	12.57	4.43
1993	1.77	1.59	1.70	3.18	2.38	4.67	6.29	[R] 9.61	[R] 18.96	8.62	2.08	5.05	[R] 4.72	1.31	2.84	[R] 12.72	[R] 4.58
1994	1.77	1.58	1.69	3.16	2.44	4.41	5.94	[R] 5.03	[R] 19.11	8.56	2.24	4.90	4.36	[R] 1.27	2.74	12.07	[R] 4.36
1995	**1.81**	**1.59**	**1.72**	**2.88**	**2.60**	**4.39**	**5.91**	**4.92**	**19.40**	**8.85**	**2.40**	**5.30**	**4.60**	**1.30**	**2.64**	**11.88**	**4.23**
	Expenditures in Million Nominal Dollars																
1970	**99.4**	**15.8**	**115.2**	**54.2**	**13.7**	**11.4**	**2.7**	**9.9**	**12.0**	**3.0**	**4.4**	[R] **4.4**	[R] **61.6**	**—**	[R] **231.0**	**135.3**	[R] **366.3**
1971	94.5	24.8	119.2	59.6	13.5	11.5	2.4	10.5	12.6	3.0	4.4	[R] 4.5	[R] 62.4	—	[R] 241.2	153.8	[R] 395.0
1972	113.9	22.8	136.7	64.5	17.0	16.1	1.7	12.7	14.3	3.0	4.2	[R] 5.0	[R] 74.0	—	[R] 275.3	181.4	[R] 456.6
1973	128.5	22.6	151.1	68.9	19.5	20.5	2.4	14.1	17.3	3.2	15.5	[R] 6.1	[R] 98.6	—	[R] 318.6	217.3	[R] 535.9
1974	236.5	46.3	282.8	84.6	25.8	45.0	3.3	21.9	22.4	3.0	50.8	[R] 12.2	[R] 184.4	—	[R] 551.8	286.5	[R] 838.3
1975	**269.2**	**63.6**	**332.8**	**102.4**	**33.2**	**52.4**	**3.8**	**20.1**	**20.0**	**4.4**	**61.1**	[R] **14.1**	[R] **209.1**	**—**	[R] **644.3**	**372.7**	[R] **1,017.0**
1976	268.5	47.4	315.9	119.0	33.9	85.6	3.3	20.0	20.9	2.4	72.1	[R] 22.0	[R] 260.2	—	[R] 695.1	448.7	[R] 1,143.8
1977	312.1	54.3	366.4	154.4	41.4	105.8	6.0	27.4	21.4	3.6	96.0	[R] 28.5	[R] 330.1	—	[R] 850.9	583.0	[R] 1,434.0
1978	246.5	66.6	313.1	184.9	53.3	113.9	8.7	26.5	25.1	2.8	87.6	[R] 32.2	[R] 350.0	—	[R] 848.0	687.5	[R] 1,535.6
1979	286.9	98.4	385.3	316.4	53.3	100.8	19.9	46.2	35.2	2.1	93.0	[R] 49.0	[R] 399.5	—	[R] 1,101.2	851.0	[R] 1,952.2
1980	**254.7**	**99.2**	**353.9**	**364.1**	**62.8**	**100.8**	**29.5**	**32.8**	**44.1**	**5.4**	**70.5**	[R] **74.8**	[R] **420.7**	**—**	[R] **1,138.7**	**912.1**	[R] **2,050.9**
1981	214.1	110.8	324.9	472.2	120.6	171.2	11.5	28.8	53.0	9.7	54.7	[R] 247.2	[R] 696.7	—	[R] 1,493.9	936.2	[R] 2,430.1
1982	143.8	135.0	278.8	538.3	108.9	143.8	34.5	34.8	46.3	3.9	84.0	[R] 167.6	[R] 623.8	—	[R] 1,440.9	866.1	[R] 2,307.0
1983	100.9	131.3	232.2	500.1	112.6	159.5	11.6	26.0	47.8	3.2	30.8	[R] 147.5	[R] 539.1	—	[R] 1,271.4	913.0	[R] 2,184.4
1984	158.7	138.3	297.0	518.4	106.0	156.9	14.5	20.9	52.9	16.6	24.1	[R] 140.6	[R] 532.6	—	[R] 1,348.0	1,087.3	[R] 2,435.3
1985	**156.1**	**116.1**	**272.2**	**498.5**	**117.7**	**130.2**	**0.9**	[R] **19.1**	**49.2**	**24.4**	**2.2**	[R] **134.2**	[R] **477.8**	**—**	[R] **1,248.5**	**1,036.4**	[R] **2,284.9**
1986	129.4	112.0	241.4	366.8	113.5	87.4	1.0	[R] 22.3	42.6	15.8	6.0	[R] 90.7	[R] 379.4	—	[R] 987.6	1,002.8	1,990.4
1987	144.5	107.0	251.5	312.1	102.0	111.4	0.9	[R] 22.7	[R] 42.0	16.7	7.0	[R] 105.8	[R] 408.7	—	[R] 972.3	1,049.6	[R] 2,021.9
1988	154.0	114.4	268.3	367.2	84.1	97.4	0.6	[R] 20.1	[R] 43.6	14.6	6.6	[R] 91.7	[R] 358.6	—	[R] 994.2	1,088.7	[R] 2,082.9
1989	154.7	94.5	249.2	397.0	85.0	135.9	0.6	[R] 31.7	44.3	20.7	3.5	106.4	[R] 428.1	—	[R] 1,074.3	1,087.7	[R] 2,162.0
1990	**160.8**	**90.9**	**251.7**	**402.3**	**84.3**	**226.8**	**0.7**	[R] **28.7**	**45.9**	**20.8**	**5.4**	**145.7**	[R] **558.1**	[d] [R] **46.0**	[d] [R] **1,258.1**	[R] **1,098.8**	[d] [R] **2,356.9**
1991	153.0	99.7	252.7	402.4	116.0	158.8	0.8	[R] 35.0	47.3	18.6	0.6	112.0	[R] 489.1	[R] 51.8	[R] 1,195.9	[R] 1,124.1	[R] 2,320.1
1992	157.6	124.7	282.3	445.8	66.6	150.4	1.3	[R] 44.0	[R] 52.5	19.8	2.2	114.4	[R] 451.3	[R] 51.7	[R] 1,231.1	[R] 1,164.3	[R] 2,395.4
1993	152.3	88.4	240.7	513.4	78.6	124.7	0.8	[R] 53.6	[R] 55.4	26.4	6.9	102.4	[R] 448.8	[R] 61.0	[R] 1,263.9	[R] 1,204.7	[R] 2,468.6
1994	154.3	93.4	247.8	[R] 511.6	81.9	131.2	1.1	[R] 30.0	[R] 58.4	28.5	11.7	101.9	[R] 444.8	[R] 68.7	[R] 1,272.8	1,169.4	[R] 2,442.2
1995	**157.7**	**91.1**	**248.8**	**526.0**	**86.3**	**92.7**	**1.5**	**29.7**	**58.2**	**31.3**	**5.8**	**104.2**	**409.7**	**83.5**	**1,268.0**	**1,186.9**	**2,454.9**

[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 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 15. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Alabama

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.28**	**—**	**2.17**	**1.33**	**0.73**	**1.58**	**5.08**	**2.82**	**0.34**	**2.46**	**2.45**	**—**	**2.45**
1971	0.40	—	2.21	1.35	0.76	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	3.08	0.63	2.69	2.68	—	2.68
1974	0.83	—	3.23	2.73	1.56	3.02	7.22	4.14	1.47	3.58	3.58	—	3.58
1975	**1.07**	**—**	**3.45**	**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	3.34	2.55	3.93	6.97	5.12	1.61	4.30	4.30	—	4.30
1978	—	—	4.29	3.30	2.88	3.78	7.60	5.27	1.54	4.43	4.43	—	4.43
1979	—	—	5.73	4.76	3.90	4.39	10.21	7.04	1.97	6.28	6.28	—	6.28
1980	**—**	**—**	**9.02**	**6.99**	**6.39**	**5.28**	**14.36**	**9.89**	**2.93**	**8.78**	**8.78**	**—**	**8.78**
1981	—	—	10.84	8.56	7.67	6.18	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	3.55	9.72	9.72	—	9.72
1983	—	—	10.44	7.05	6.74	6.90	16.98	9.07	3.93	8.48	8.48	—	8.48
1984	—	—	10.27	6.83	6.52	7.38	17.63	8.98	4.46	8.33	8.33	—	8.33
1985	**—**	**—**	**9.99**	**6.54**	**6.17**	**R 5.16**	**17.61**	**9.15**	**3.72**	**8.34**	**8.34**	**—**	**8.34**
1986	—	—	8.41	6.35	4.45	R 5.77	15.59	6.99	1.85	6.65	6.65	—	6.65
1987	—	—	7.55	6.73	4.39	R 5.11	R 13.58	7.27	1.92	6.89	6.89	—	6.89
1988	—	—	7.41	6.41	4.07	R 5.08	R 14.62	7.21	2.79	6.83	6.83	—	6.83
1989	—	—	8.28	7.06	4.64	R 7.80	14.48	7.96	2.15	7.41	7.41	—	7.41
1990	**—**	**0.72**	**9.32**	**8.09**	**5.99**	**R 8.81**	**14.60**	**8.96**	**2.02**	**8.37**	**8.37**	**—**	**8.37**
1991	—	—	8.71	7.57	5.03	R 9.75	R 16.80	8.69	1.71	7.98	7.98	—	7.98
1992	—	6.28	8.54	7.72	4.73	R 9.52	R 18.32	8.67	1.65	R 7.99	R 7.99	—	R 7.99
1993	—	4.47	8.24	7.76	4.41	R 9.61	R 18.96	8.62	1.58	R 8.01	R 8.01	—	R 8.01
1994	—	4.12	7.96	7.62	4.11	R 8.36	R 19.11	8.56	R 1.55	7.94	7.94	—	7.94
1995	**—**	**3.41**	**8.36**	**7.61**	**4.06**	**8.66**	**19.40**	**8.85**	**1.91**	**8.11**	**8.11**	**21.54**	**8.11**
	Expenditures in Million Nominal Dollars												
1970	**0.1**	**—**	**3.8**	**41.3**	**7.2**	**0.6**	**13.0**	**538.8**	**3.5**	**608.3**	**608.4**	**—**	**608.4**
1971	0.1	—	4.0	45.6	7.5	0.7	14.0	575.6	4.5	651.8	651.9	—	651.9
1972	0.1	—	4.0	61.2	7.1	0.8	15.8	631.4	4.5	724.8	724.8	—	724.8
1973	0.1	—	3.9	88.6	8.4	0.8	15.4	697.5	10.0	824.6	824.6	—	824.6
1974	0.1	—	5.0	146.5	14.7	1.0	20.0	947.0	50.5	1,184.6	1,184.7	—	1,184.7
1975	**(s)**	**—**	**4.3**	**154.6**	**19.1**	**1.0**	**27.6**	**996.1**	**65.2**	**1,268.0**	**1,268.0**	**—**	**1,268.0**
1976	(s)	—	4.2	178.8	19.9	1.3	28.9	1,158.9	70.4	1,462.5	1,462.5	—	1,462.5
1977	(s)	—	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	—	—	5.2	227.0	28.6	1.7	24.0	1,387.4	73.2	1,747.2	1,747.2	—	1,747.2
1979	—	—	6.8	259.7	36.9	1.0	33.8	1,751.3	43.6	2,133.1	2,133.1	—	2,133.1
1980	**—**	**—**	**11.3**	**449.8**	**72.3**	**0.9**	**42.3**	**2,282.5**	**64.6**	**2,923.8**	**2,923.8**	**—**	**2,923.8**
1981	—	—	12.4	612.7	74.6	3.0	50.9	2,514.7	50.7	3,318.9	3,318.9	—	3,318.9
1982	—	—	9.5	528.7	64.9	3.7	44.4	2,373.9	51.7	3,076.9	3,076.9	—	3,076.9
1983	—	—	9.3	409.4	61.3	4.9	45.8	2,051.7	50.4	2,632.8	2,632.8	—	2,632.8
1984	—	—	8.9	433.6	134.9	5.9	50.7	2,057.4	49.1	2,740.5	2,740.5	—	2,740.5
1985	**—**	**—**	**8.7**	**426.4**	**121.6**	**R 3.0**	**47.2**	**2,053.8**	**38.4**	**R 2,699.0**	**R 2,699.0**	**—**	**R 2,699.0**
1986	—	—	8.7	418.0	93.5	R 3.1	40.9	1,679.9	15.7	R 2,259.7	R 2,259.7	—	R 2,259.7
1987	—	—	5.4	510.9	95.2	R 1.9	R 40.3	1,822.0	18.0	R 2,493.7	R 2,493.7	—	R 2,493.7
1988	—	—	5.9	548.8	42.2	R 1.7	41.8	1,800.4	35.7	2,476.3	2,476.3	—	2,476.3
1989	—	—	5.5	742.6	52.7	R 2.5	42.5	2,037.0	38.1	R 2,921.0	R 2,921.0	—	R 2,921.0
1990	**—**	**(s)**	**5.4**	**822.6**	**63.1**	**R 3.1**	**44.0**	**2,270.6**	**36.9**	**R 3,245.8**	**R 3,245.8**	**—**	**R 3,245.8**
1991	—	—	4.8	763.8	63.6	R 3.3	45.3	2,234.5	34.7	R 3,150.0	R 3,150.0	—	R 3,150.0
1992	—	(s)	4.6	803.2	55.4	R 2.9	R 50.4	2,286.8	36.8	R 3,240.0	R 3,240.1	—	R 3,240.1
1993	—	(s)	4.3	784.2	48.5	R 4.0	53.1	2,322.9	32.7	R 3,249.7	R 3,249.7	—	R 3,249.7
1994	—	(s)	4.4	843.4	80.6	R 5.9	R 56.0	2,362.5	22.8	3,375.6	3,375.6	—	3,375.6
1995	**—**	**(s)**	**4.1**	**830.7**	**88.3**	**2.9**	**55.8**	**2,545.9**	**31.8**	**3,559.5**	**3,559.5**	**(s)**	**3,559.5**

[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.
Sources: 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, 1970-1995, Alabama

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.26**	**0.26**	**—**	**0.81**	**0.17**	**0.20**	**—**	**—**	**0.26**
1971	0.35	0.31	—	0.92	0.18	0.27	—	—	0.34
1972	0.38	0.34	—	0.93	0.18	0.48	—	—	0.38
1973	0.42	0.36	—	0.89	0.20	0.57	0.11	—	0.42
1974	0.75	0.85	—	2.04	0.34	0.86	0.12	—	0.66
1975	**0.92**	**1.08**	**1.69**	**2.16**	**—**	**2.08**	**0.14**	**—**	**0.88**
1976	1.01	1.65	1.69	2.36	—	2.23	0.15	—	0.94
1977	1.13	1.75	1.79	2.67	—	2.50	0.18	—	0.84
1978	1.33	2.09	1.76	2.73	—	2.65	0.27	—	0.95
1979	1.49	2.28	2.18	4.14	—	3.69	0.24	—	1.07
1980	**1.61**	**2.62**	**—**	**6.35**	**—**	**6.35**	**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	3.26	—	6.15	—	6.15	0.64	—	1.51
1985	**2.02**	**3.17**	**—**	**6.00**	**—**	**6.00**	**0.77**	**—**	**1.74**
1986	1.91	2.47	—	3.49	—	3.49	0.70	—	1.68
1987	1.92	2.10	—	4.03	—	4.03	0.69	—	1.69
1988	1.95	2.07	—	3.67	—	3.67	0.65	—	1.66
1989	1.87	2.21	—	4.14	—	4.14	0.60	—	1.63
1990	**1.84**	**2.16**	**—**	**5.57**	**—**	**5.57**	**0.56**	**—**	**1.60**
1991	1.81	1.87	—	5.12	—	5.12	0.71	—	1.56
1992	1.73	2.23	—	4.60	—	4.60	0.75	—	1.48
1993	1.76	2.60	—	4.25	—	4.25	0.67	—	1.53
1994	1.67	2.34	—	4.02	—	4.02	0.70	—	1.43
1995	**1.56**	**1.98**	**—**	**3.76**	**—**	**3.76**	**0.51**	**—**	**1.31**
	Expenditures in Million Nominal Dollars								
1970	**98.6**	**4.2**	**—**	**0.1**	**0.4**	**0.6**	**—**	**—**	**103.4**
1971	123.7	3.2	—	0.5	0.6	1.1	—	—	128.1
1972	147.9	1.0	—	2.7	0.8	3.5	—	—	152.3
1973	180.9	1.6	—	4.1	0.8	5.0	0.4	—	187.8
1974	306.8	4.4	—	7.5	2.8	10.3	8.5	—	330.0
1975	**367.5**	**6.7**	**1.0**	**6.5**	**—**	**7.5**	**4.2**	**—**	**385.8**
1976	415.0	7.5	1.5	8.7	—	10.2	7.0	—	439.7
1977	493.3	7.7	2.1	13.0	—	15.2	37.3	—	553.5
1978	522.4	16.5	1.0	17.1	—	18.1	66.6	—	623.6
1979	661.8	17.7	0.4	2.6	—	3.0	58.2	—	740.7
1980	**755.2**	**4.1**	**—**	**4.8**	**—**	**4.8**	**85.2**	**—**	**849.4**
1981	882.7	5.8	—	4.4	—	4.4	112.4	—	1,005.3
1982	760.9	4.5	—	2.6	—	2.6	128.1	—	896.2
1983	831.5	1.9	—	4.7	—	4.7	123.6	—	961.8
1984	872.1	1.3	—	2.6	—	2.6	168.3	—	1,044.3
1985	**1,049.4**	**3.8**	**—**	**3.1**	**—**	**3.1**	**118.7**	**—**	**1,174.9**
1986	996.9	2.8	—	1.4	—	1.4	87.5	—	1,088.6
1987	975.7	3.3	—	1.4	—	1.4	83.3	—	1,063.7
1988	947.4	5.5	—	3.7	—	3.7	90.1	—	1,046.7
1989	981.4	4.0	—	5.2	—	5.2	74.4	—	1,065.0
1990	**981.2**	**9.1**	**—**	**4.3**	**—**	**4.3**	**71.7**	**—**	**1,066.3**
1991	1,038.7	7.8	—	4.9	—	4.9	120.9	—	1,172.3
1992	1,041.0	7.7	—	3.8	—	3.8	154.4	—	1,206.8
1993	1,171.9	12.3	—	3.2	—	3.2	127.7	—	1,315.1
1994	1,043.5	9.1	—	5.1	—	5.1	153.2	—	1,211.0
1995	**1,064.3**	**14.8**	**—**	**4.0**	**—**	**4.0**	**112.7**	**—**	**1,195.7**

[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 17. Energy Price and Expenditure Estimates by Source, 1970-1995, Alaska

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	**—**	**0.92**	**0.92**	**0.67**	**1.15**	**0.73**	**2.09**	**3.18**	**1.37**	**1.68**	**1.33**	**—**	**—**	**1.12**	**0.66**	**9.02**	**1.39**
1971	—	0.85	0.85	0.77	1.22	0.77	2.26	3.25	1.28	1.66	1.35	—	—	1.16	0.68	9.18	1.47
1972	—	0.87	0.87	0.81	1.28	0.76	2.43	3.21	1.17	1.67	1.42	—	—	1.22	0.63	9.93	1.55
1973	—	1.02	1.02	0.74	1.52	0.91	3.86	3.46	0.97	1.85	1.58	—	—	1.31	0.72	9.43	1.69
1974	—	1.05	1.05	0.76	2.68	1.57	4.00	4.76	2.23	2.82	2.60	—	—	2.01	0.82	9.61	2.48
1975	**—**	**1.40**	**1.40**	**0.89**	**2.88**	**2.04**	**3.80**	**5.15**	**2.34**	**3.30**	**3.00**	**—**	**—**	**2.21**	**0.95**	**9.61**	**2.71**
1976	—	1.31	1.31	0.96	3.11	2.32	3.80	5.36	2.59	3.29	3.26	—	—	2.42	1.15	10.69	2.95
1977	—	1.36	1.36	1.08	3.40	2.62	3.73	5.69	2.89	3.24	3.52	—	—	2.56	1.31	11.71	3.09
1978	—	1.29	1.29	1.07	3.71	2.86	5.85	6.09	2.47	3.53	3.72	—	—	2.58	1.35	12.34	3.09
1979	—	1.31	1.31	1.04	5.13	3.79	6.74	7.59	3.40	5.35	5.10	—	—	2.98	1.57	12.94	3.60
1980	**—**	**1.91**	**1.91**	**0.62**	**6.82**	**6.21**	**6.88**	**10.20**	**4.07**	**7.24**	**7.06**	**—**	**—**	**4.04**	**1.25**	**15.09**	**5.06**
1981	—	4.11	4.11	0.73	8.40	7.56	7.88	11.58	8.37	9.15	8.60	—	—	5.21	1.94	18.49	6.44
1982	—	4.02	4.02	0.92	7.33	7.37	8.63	11.35	5.15	7.68	8.11	—	—	4.79	1.54	21.01	6.06
1983	—	3.50	3.50	1.19	7.56	6.72	10.84	10.46	6.38	7.91	7.67	—	—	4.72	2.04	22.35	6.03
1984	—	3.57	3.57	1.24	7.48	6.47	11.05	10.07	5.88	7.58	7.39	—	—	4.82	1.96	24.07	6.16
1985	**—**	**3.65**	**3.65**	**1.23**	**7.62**	**6.07**	**13.62**	**9.83**	**4.53**	**[R] 5.64**	**[R] 6.95**	**—**	**—**	**[R] 4.67**	**1.71**	**24.52**	**[R] 5.94**
1986	—	3.38	3.38	1.48	6.35	4.16	11.59	7.86	2.50	5.50	4.94	—	—	3.83	1.48	24.89	5.01
1987	—	2.00	2.00	1.42	6.28	4.13	11.33	7.90	3.15	[R] 5.66	[R] 5.26	—	—	3.89	1.87	26.64	[R] 5.17
1988	—	2.64	2.64	1.70	6.64	4.14	11.37	8.14	4.33	5.87	5.52	—	—	4.09	2.13	26.36	5.47
1989	—	1.95	1.95	1.82	7.54	4.69	14.88	8.65	3.90	[R] 7.29	6.21	—	—	4.69	1.86	27.06	6.22
1990	**—**	**3.79**	**3.79**	**1.96**	**8.38**	**6.17**	**15.10**	**10.03**	**5.29**	**7.86**	**7.56**	**—**	**[d R] 2.48**	**[d] 5.47**	**2.37**	**[R] 27.81**	**[d] 6.96**
1991	—	4.02	4.02	1.83	7.52	5.50	15.64	8.99	3.17	7.95	6.70	—	[R] 2.58	4.80	1.81	[R] 28.77	6.39
1992	—	4.16	4.16	1.75	7.31	5.15	14.68	9.95	3.16	[R] 7.76	[R] 6.75	—	[R] 2.67	[R] 4.73	1.91	[R] 29.20	[R] 6.30
1993	—	4.77	4.77	1.87	7.44	4.96	[R] 14.53	9.98	2.99	[R] 10.07	6.70	—	[R] 2.71	4.79	1.89	[R] 29.70	6.49
1994	—	2.65	2.65	1.86	[R] 7.01	4.53	[R] 13.72	10.46	[R] 2.83	[R] 10.66	[R] 6.39	—	[R] 3.18	[R] 4.62	[R] 1.86	[R] 30.07	[R] 6.43
1995	**—**	**2.64**	**2.64**	**1.88**	**7.25**	**4.54**	**13.10**	**10.80**	**2.78**	**9.82**	**6.60**	**—**	**2.49**	**4.80**	**1.97**	**29.84**	**6.46**
	Expenditures in Million Nominal Dollars																
1970	**—**	**12.1**	**12.1**	**26.2**	**33.3**	**27.5**	**1.1**	**43.8**	**8.7**	**8.3**	**122.7**	**—**	**—**	**161.0**	**-9.9**	**33.9**	**185.0**
1971	—	12.0	12.0	30.3	44.6	32.5	1.4	48.5	8.5	7.8	143.3	—	—	185.5	-12.0	40.5	214.0
1972	—	11.1	11.1	37.3	46.3	34.4	1.5	62.2	8.5	8.2	161.0	—	—	209.4	-12.8	45.4	242.0
1973	—	13.6	13.6	31.9	56.4	37.6	2.9	58.2	6.2	8.1	169.5	—	—	214.9	-16.4	48.0	246.5
1974	—	13.2	13.2	33.6	105.1	65.6	2.3	88.6	14.9	14.9	291.6	—	—	338.3	-20.2	52.7	370.7
1975	**—**	**21.4**	**21.4**	**54.5**	**116.6**	**85.0**	**2.5**	**113.0**	**15.7**	**21.2**	**354.0**	**—**	**—**	**429.9**	**-26.9**	**65.9**	**468.9**
1976	—	18.0	18.0	64.7	170.4	96.7	4.2	132.4	21.2	19.0	443.8	—	—	526.5	-36.3	80.3	570.5
1977	—	13.9	13.9	95.7	203.9	116.4	4.6	144.8	31.3	20.4	521.3	—	—	630.9	-43.6	97.0	684.3
1978	—	6.1	6.1	120.9	232.4	133.0	8.7	145.1	36.0	22.0	577.2	—	—	704.1	-46.6	106.9	764.5
1979	—	5.5	5.5	132.8	171.5	180.7	4.4	186.6	6.8	57.9	608.0	—	—	746.3	-59.6	108.3	794.9
1980	**—**	**8.2**	**8.2**	**64.5**	**264.0**	**335.7**	**4.2**	**196.9**	**9.4**	**43.4**	**853.7**	**—**	**—**	**926.4**	**-48.3**	**129.5**	**1,007.7**
1981	—	51.4	51.4	69.1	319.9	462.7	3.7	271.7	12.7	50.6	1,121.3	—	—	1,241.8	-75.6	179.8	1,346.0
1982	—	53.0	53.0	111.2	269.0	478.5	5.8	303.4	9.8	95.8	1,162.3	—	—	1,326.5	-64.3	228.6	1,490.8
1983	—	43.4	43.4	138.7	321.4	461.6	7.4	261.2	15.7	42.8	1,110.1	—	—	1,292.1	-86.0	259.5	1,465.6
1984	—	46.0	46.0	146.0	345.3	553.3	10.1	281.7	18.8	48.0	1,257.1	—	—	1,449.2	-83.9	299.0	1,664.3
1985	**—**	**42.3**	**42.3**	**162.4**	**459.1**	**520.3**	**15.2**	**291.2**	**82.1**	**[R] 60.0**	**[R] 1,427.8**	**—**	**—**	**[R] 1,632.5**	**-77.0**	**331.5**	**[R] 1,886.9**
1986	—	41.1	41.1	165.5	277.5	379.8	10.3	224.1	102.3	189.6	1,183.6	—	—	1,390.1	-66.3	339.3	1,663.2
1987	—	8.7	8.7	158.4	291.8	345.6	10.4	215.4	64.8	[R] 173.2	[R] 1,101.3	—	—	[R] 1,268.3	-73.8	353.4	[R] 1,547.9
1988	—	11.5	11.5	187.1	330.2	394.0	10.6	227.7	19.4	49.6	[R] 1,031.6	—	—	1,230.2	-84.0	358.8	1,504.9
1989	—	9.2	9.2	187.4	485.3	491.0	14.7	230.7	8.5	36.4	1,266.6	—	—	1,463.2	-78.4	380.1	1,764.9
1990	**—**	**47.0**	**47.0**	**223.7**	**565.5**	**604.3**	**20.6**	**306.6**	**13.0**	**[R] 39.3**	**1,549.4**	**—**	**[d R] 5.9**	**[d R] 1,825.9**	**-102.1**	**[R] 401.1**	**[d R] 2,124.9**
1991	—	51.0	51.0	212.4	429.1	528.3	22.3	238.4	10.0	43.9	1,272.0	—	[R] 6.4	[R] 1,541.8	-73.6	[R] 415.0	[R] 1,883.3
1992	—	52.1	52.1	210.6	442.6	426.9	20.6	307.3	13.3	[R] 36.7	[R] 1,247.4	—	[R] 6.6	[R] 1,516.6	-72.1	[R] 429.5	[R] 1,874.1
1993	—	65.0	65.0	213.5	404.3	412.5	[R] 12.2	313.3	11.7	30.6	[R] 1,184.8	—	[R] 5.4	[R] 1,468.7	-71.2	[R] 440.5	[R] 1,837.9
1994	—	33.4	33.4	[R] 195.1	[R] 327.0	413.3	[R] 11.1	359.5	[R] 10.8	[R] 21.9	[R] 1,143.6	—	[R] 4.9	[R] 1,376.9	[R] -71.3	[R] 462.2	[R] 1,767.8
1995	**—**	**34.1**	**34.1**	**210.9**	**436.9**	**435.6**	**11.4**	**405.6**	**11.7**	**31.4**	**1,332.5**	**—**	**6.4**	**1,583.9**	**-77.8**	**468.4**	**1,974.5**

[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 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 18. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Alaska

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**2.47**	**1.51**	**1.40**	**1.61**	**2.93**	**1.46**	**—**	**1.49**	**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	1.67	3.35	1.57	—	1.56	10.28	2.53
1973	2.44	1.56	1.71	1.94	5.25	1.87	—	1.77	9.53	2.78
1974	2.54	1.57	2.63	2.97	5.49	2.73	—	2.41	9.83	3.49
1975	**2.87**	**1.62**	**2.80**	**3.23**	**6.07**	**2.90**	**—**	**2.26**	**10.16**	**3.27**
1976	2.78	1.65	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	—	2.63	12.25	3.86
1978	—	1.76	3.84	4.38	7.04	3.93	—	2.99	13.12	4.19
1979	—	1.71	4.92	5.39	9.36	5.27	—	3.78	13.51	5.46
1980	**—**	**1.73**	**7.05**	**—**	**12.23**	**7.21**	**—**	**4.31**	**16.18**	**6.67**
1981	9.62	1.95	8.51	—	12.98	8.63	—	5.48	17.65	8.00
1982	10.15	1.80	8.46	—	13.97	8.67	—	5.27	21.01	8.30
1983	7.90	2.33	7.84	9.40	14.54	8.20	—	5.15	24.04	8.85
1984	7.93	2.48	7.71	8.87	14.33	8.15	—	5.21	24.78	8.95
1985	**7.75**	**2.79**	**7.81**	**8.99**	**13.97**	**8.32**	**—**	**5.20**	**25.96**	**9.18**
1986	7.99	3.22	6.84	7.88	13.14	7.36	—	5.11	26.48	9.46
1987	—	3.18	6.24	7.18	13.02	6.63	—	4.72	28.75	9.31
1988	—	3.45	6.27	7.21	12.85	6.76	—	4.75	28.39	9.66
1989	—	3.64	6.95	8.00	15.85	7.63	—	5.29	28.72	9.86
1990	**7.96**	**4.00**	**7.94**	**9.14**	**16.66**	**8.78**	**[d] 4.75**	**[d] 6.31**	**29.64**	**[d R] 9.83**
1991	10.99	4.17	7.57	8.71	17.04	8.63	4.75	6.56	[R] 31.28	[R] 10.21
1992	7.92	3.78	6.78	7.80	15.84	7.77	4.75	5.69	[R] 31.73	[R] 9.54
1993	7.96	3.99	6.93	7.98	[R] 15.66	[R] 7.67	4.75	5.65	[R] 32.67	[R] 10.06
1994	2.95	3.60	6.24	7.18	[R] 15.44	[R] 6.88	4.75	[R] 4.54	[R] 33.17	[R] 9.32
1995	**2.95**	**3.61**	**6.01**	**6.92**	**14.86**	**6.55**	**4.75**	**4.54**	**32.93**	**9.05**
	Expenditures in Million Nominal Dollars									
1970	**0.4**	**9.4**	**11.1**	**0.2**	**0.9**	**12.1**	**—**	**21.9**	**16.7**	**38.6**
1971	0.3	10.6	15.5	0.2	1.1	16.7	—	27.6	20.1	47.6
1972	0.4	13.0	12.2	0.1	1.2	13.5	—	26.9	22.0	49.0
1973	0.2	7.9	17.1	0.1	2.6	19.8	—	27.9	22.3	50.2
1974	0.3	6.6	26.4	1.3	1.7	29.4	—	36.3	25.3	61.6
1975	**0.3**	**16.9**	**26.4**	**1.7**	**1.5**	**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	43.8	0.9	1.6	46.3	—	65.9	44.8	110.6
1978	—	21.4	59.3	1.0	2.9	63.2	—	84.6	49.7	134.3
1979	—	12.5	27.0	23.3	3.2	53.4	—	65.9	49.2	115.1
1980	**—**	**13.8**	**48.2**	**—**	**2.6**	**50.8**	**—**	**64.5**	**60.3**	**124.8**
1981	25.1	15.4	45.1	—	1.9	47.0	—	87.6	73.9	161.5
1982	28.0	19.0	55.5	—	3.5	58.9	—	105.8	100.9	206.8
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	8.0	68.7	—	120.1	135.1	255.2
1985	**18.7**	**37.3**	**59.6**	**0.1**	**9.6**	**69.3**	**—**	**125.3**	**148.3**	**273.6**
1986	21.9	39.3	42.4	(s)	7.3	49.7	—	111.0	146.8	257.8
1987	—	39.3	58.6	(s)	7.5	66.2	—	105.5	151.9	257.4
1988	—	43.4	46.9	0.1	7.9	54.9	—	98.3	154.0	252.3
1989	—	49.3	61.5	(s)	11.6	73.0	—	122.4	161.0	283.4
1990	**21.7**	**53.7**	**80.7**	**0.1**	**18.1**	**98.9**	**[d R] 4.4**	**[d R] 178.7**	**168.0**	**[d R] 346.7**
1991	30.6	56.7	70.4	0.4	19.9	90.7	[R] 4.6	[R] 182.6	[R] 171.1	[R] 353.7
1992	22.5	54.4	63.4	(s)	18.3	81.7	[R] 4.8	[R] 163.5	[R] 177.5	341.0
1993	24.8	54.9	51.5	(s)	[R] 10.9	[R] 62.4	[R] 4.0	[R] 146.1	[R] 181.6	[R] 327.7
1994	8.5	53.6	45.6	0.4	[R] 8.5	[R] 54.5	[R] 3.9	[R] 120.5	[R] 191.1	[R] 311.6
1995	**8.5**	**55.3**	**52.3**	**(s)**	**8.4**	**60.8**	**4.4**	**128.9**	**192.5**	**321.4**

[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.

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 19. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Alaska

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**1.01**	**0.68**	**1.21**	**—**	**1.10**	**3.18**	**1.49**	**1.66**	**1.08**	**9.46**	**1.67**
1971	0.89	0.73	1.28	—	1.17	3.25	1.36	1.46	1.01	9.69	1.66
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	3.46	1.04	1.74	1.18	9.86	2.03
1974	1.18	0.87	2.47	—	2.30	4.76	2.40	2.96	1.75	9.88	2.55
1975	**1.57**	**0.97**	**2.60**	**—**	**2.32**	**5.15**	**2.52**	**3.21**	**1.81**	**10.83**	**2.60**
1976	1.46	1.03	2.90	—	2.53	5.36	2.90	3.36	1.87	10.62	2.77
1977	1.54	1.34	3.12	—	3.00	5.69	3.27	3.80	2.35	12.05	3.32
1978	—	1.33	3.47	—	5.38	6.09	2.90	3.80	2.30	12.84	3.40
1979	—	1.03	4.65	—	3.95	7.59	4.12	6.02	1.93	13.46	3.63
1980	**—**	**1.06**	**6.75**	**—**	**3.96**	**10.20**	**4.31**	**7.69**	**2.54**	**18.02**	**4.16**
1981	3.44	1.40	8.06	—	5.46	11.58	—	9.09	3.13	19.64	4.52
1982	3.52	1.59	8.01	7.57	5.54	11.35	5.06	9.23	2.96	21.96	4.32
1983	2.99	1.94	7.23	7.85	6.05	10.46	6.46	7.81	3.27	24.10	4.77
1984	2.93	2.06	6.91	7.89	5.99	10.07	5.12	7.35	3.32	24.12	6.11
1985	**3.37**	**2.35**	**6.93**	**7.69**	**13.07**	**9.83**	**—**	**7.63**	**3.64**	**24.36**	**7.14**
1986	2.22	2.50	4.68	5.05	9.06	7.86	2.83	4.57	3.78	24.90	5.60
1987	—	2.39	5.34	5.47	8.52	7.90	3.26	4.88	4.11	25.78	6.04
1988	—	2.59	5.85	5.75	8.58	8.14	3.04	5.30	3.37	25.88	7.46
1989	—	2.57	5.83	6.61	12.13	8.65	—	6.14	3.26	26.62	8.08
1990	**2.76**	**2.77**	**6.81**	**7.69**	**9.03**	**10.03**	**—**	**6.99**	**3.71**	**[R] 27.33**	**7.99**
1991	2.17	2.88	6.73	6.76	9.29	8.99	—	6.98	3.57	[R] 27.86	8.11
1992	3.94	2.63	6.03	6.57	9.26	9.95	—	6.24	3.71	[R] 28.72	8.10
1993	5.21	2.80	6.30	7.00	9.21	9.98	—	6.37	4.01	[R] 28.75	8.68
1994	2.95	2.48	5.65	[R] 6.59	10.10	10.46	—	5.74	3.25	[R] 28.97	[R] 8.24
1995	**2.95**	**2.26**	**5.92**	**6.10**	**10.22**	**10.80**	**—**	**6.13**	**2.87**	**28.75**	**7.72**
	Expenditures in Million Nominal Dollars										
1970	**0.3**	**8.6**	**3.0**	**—**	**0.1**	**4.1**	**7.5**	**14.7**	**23.5**	**15.4**	**39.0**
1971	0.2	10.4	4.1	—	0.1	1.9	6.9	13.0	23.6	18.6	42.2
1972	0.3	13.1	3.3	—	0.1	7.5	6.7	17.6	31.0	21.1	52.1
1973	0.2	9.5	4.7	—	0.1	7.2	4.2	16.2	25.9	23.3	49.2
1974	0.2	11.5	7.7	—	0.1	10.3	10.3	28.4	40.1	24.8	64.9
1975	**0.3**	**14.0**	**7.6**	**—**	**0.1**	**11.2**	**8.9**	**27.8**	**42.1**	**24.3**	**66.4**
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	58.6	33.5	92.2
1978	—	20.2	16.6	—	0.4	11.3	8.9	37.3	57.4	37.3	94.7
1979	—	16.4	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**	**0.1**	**36.8**	**54.2**	**44.8**	**99.0**
1981	16.7	22.7	25.0	—	0.1	15.2	—	40.3	79.7	46.3	126.0
1982	18.0	38.6	22.4	1.0	0.2	20.8	0.1	44.6	101.2	57.8	159.0
1983	14.2	47.9	43.8	0.2	0.4	14.3	(s)	58.8	121.0	69.4	190.3
1984	15.1	50.9	47.3	0.3	0.6	11.7	(s)	59.9	125.9	142.2	268.1
1985	**15.1**	**48.1**	**37.4**	**0.1**	**1.6**	**13.8**	**—**	**52.9**	**116.2**	**157.7**	**273.8**
1986	11.3	52.7	22.8	142.5	0.9	8.3	29.4	203.9	267.9	166.3	434.2
1987	—	48.7	32.8	148.5	0.9	2.1	40.2	224.5	273.3	166.6	439.9
1988	—	54.2	29.8	6.1	0.9	2.2	5.9	45.0	99.1	168.9	268.1
1989	—	55.9	28.0	(s)	1.6	2.4	—	32.0	87.8	186.0	273.8
1990	**14.0**	**56.9**	**46.7**	**(s)**	**1.7**	**2.7**	**—**	**51.1**	**122.0**	**[R] 198.9**	**[R] 320.9**
1991	11.2	60.4	38.2	(s)	1.9	4.1	—	44.3	115.9	[R] 207.9	[R] 323.8
1992	20.8	56.2	48.3	(s)	1.9	3.0	—	53.2	130.3	215.0	[R] 345.3
1993	30.1	55.6	44.5	(s)	1.1	0.4	—	46.0	131.7	[R] 220.2	[R] 351.9
1994	15.7	51.3	38.9	(s)	1.0	0.6	—	40.5	107.5	[R] 230.7	[R] 338.2
1995	**15.8**	**56.7**	**26.3**	**(s)**	**1.0**	**1.2**	**—**	**28.5**	**101.1**	**232.8**	**333.8**

[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.

—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 20. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Alaska

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**1.01**	**1.01**	**0.43**	**0.57**	**0.66**	**0.76**	**1.10**	**5.08**	**3.18**	**0.36**	**0.43**	**0.75**	**—**	**0.70**	**5.36**	**0.75**
1971	—	0.89	0.89	0.63	0.81	0.68	0.78	1.17	5.27	3.25	0.58	0.46	0.87	—	0.82	5.40	0.87
1972	—	0.94	0.94	0.68	0.82	0.69	0.80	1.18	5.58	3.21	0.58	0.48	1.36	—	1.09	5.71	1.15
1973	—	1.10	1.10	0.72	0.85	0.92	1.05	1.28	5.33	3.46	0.78	0.53	1.02	—	0.95	6.20	1.01
1974	—	1.18	1.18	0.75	1.74	2.44	2.80	2.30	7.22	4.76	1.51	1.15	2.39	—	1.55	6.47	1.62
1975	**—**	**1.57**	**1.57**	**0.81**	**1.80**	**2.68**	**3.02**	**2.32**	**7.48**	**5.15**	**1.85**	**1.31**	**2.65**	**—**	**1.66**	**6.79**	**1.84**
1976	—	1.46	1.46	0.86	1.62	2.83	3.29	2.53	7.05	5.36	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	5.69	1.89	1.66	3.10	—	1.81	10.14	2.02
1978	—	—	—	0.96	1.93	3.51	4.11	5.38	7.60	6.09	1.91	1.19	3.46	—	1.71	10.10	1.90
1979	—	—	—	1.05	2.44	4.98	5.64	3.95	10.21	7.59	—	2.88	4.89	—	1.69	10.18	1.82
1980	**—**	**—**	**—**	**0.39**	**3.62**	**6.27**	**7.29**	**3.96**	**14.36**	**10.20**	**3.59**	**4.04**	**5.96**	**—**	**1.61**	**10.32**	**1.91**
1981	—	—	—	0.36	4.44	6.98	7.91	5.46	18.00	11.58	4.29	4.46	6.69	—	2.01	18.76	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	7.09	7.85	6.05	16.98	10.46	—	3.67	6.26	—	1.49	18.79	2.54
1984	—	—	—	0.66	4.30	6.90	7.89	5.99	17.63	10.07	—	3.62	6.04	—	1.56	20.21	1.90
1985	**—**	**—**	**—**	**0.71**	**4.47**	**6.72**	**7.69**	**13.07**	**17.61**	**9.83**	**4.40**	**[R] 2.21**	**[R] 5.25**	**—**	**[R] 2.32**	**19.13**	**[R] 2.54**
1986	—	—	—	0.80	4.49	4.41	5.05	9.06	15.59	7.86	2.34	—	3.20	—	1.92	18.53	2.20
1987	—	—	—	0.73	4.25	4.78	5.47	8.52	[R] 13.58	7.90	2.70	—	[R] 4.52	—	1.65	22.97	2.14
1988	—	—	—	1.07	3.93	5.03	5.75	8.58	[R] 14.62	8.14	—	—	4.90	—	2.10	21.63	2.61
1989	—	—	—	1.08	3.19	5.78	6.61	12.13	14.48	8.65	—	—	5.62	—	2.32	22.80	2.92
1990	**—**	**—**	**—**	**1.28**	**3.14**	**6.72**	**7.69**	**9.03**	**14.60**	**10.03**	**3.46**	**—**	**6.22**	**[d R] 1.07**	**[d] 2.27**	**[R] 23.17**	**[d R] 2.78**
1991	—	—	—	1.18	3.28	5.91	6.76	9.29	[R] 16.80	8.99	2.53	—	5.49	[R] 1.20	2.13	[R] 24.08	2.61
1992	—	—	—	1.18	2.80	5.75	6.57	9.26	[R] 18.32	9.95	2.45	—	[R] 5.30	[R] 1.20	2.03	[R] 22.70	2.48
1993	—	5.21	5.21	1.30	2.95	6.12	7.00	9.21	[R] 18.96	9.98	2.28	—	5.82	1.23	2.07	[R] 24.01	2.60
1994	—	2.10	2.10	1.42	3.13	5.76	6.59	10.13	[R] 19.11	10.46	2.71	—	5.60	1.34	[R] 2.31	[R] 24.52	[R] 2.98
1995	**—**	**—**	**—**	**1.44**	**3.21**	**5.34**	**6.10**	**9.61**	**19.40**	**10.80**	**2.74**	**—**	**5.23**	**1.24**	**2.46**	**24.56**	**3.09**
	Expenditures in Million Nominal Dollars																
1970	**—**	**8.6**	**8.6**	**5.1**	**1.0**	**6.9**	**0.1**	**0.2**	**(s)**	**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	(s)	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	(s)	0.2	(s)	14.0	0.2	0.2	23.0	—	36.0	2.3	38.3
1973	—	9.7	9.7	7.1	1.4	9.1	(s)	0.2	(s)	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	(s)	2.4	0.5	0.4	29.6	—	45.5	2.5	48.0
1975	**—**	**16.5**	**16.5**	**13.5**	**3.8**	**30.8**	**0.5**	**0.8**	**1.1**	**2.9**	**0.3**	**0.5**	**40.7**	**—**	**70.7**	**10.6**	**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	108.5
1977	—	8.7	8.7	39.0	4.2	64.9	0.9	2.9	0.9	3.7	0.1	0.9	78.4	—	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	19.9	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**	**0.8**	**1.3**	**1.8**	**5.9**	**0.3**	**2.5**	**84.0**	**—**	**103.5**	**24.5**	**128.0**
1981	—	—	—	15.0	7.8	83.3	1.6	1.6	2.2	0.7	0.4	1.5	99.2	—	114.2	59.6	173.8
1982	—	—	—	31.7	9.8	78.7	53.1	2.1	1.9	0.8	—	1.1	147.4	—	179.1	69.8	248.9
1983	—	—	—	33.5	9.6	37.7	0.4	1.3	1.9	0.8	—	1.8	53.5	—	86.9	70.9	157.8
1984	—	—	—	32.5	12.5	41.1	0.3	1.2	2.2	0.3	—	2.4	59.9	—	92.4	21.8	114.2
1985	**—**	**—**	**—**	**45.2**	**14.4**	**68.6**	**0.2**	**3.3**	**2.0**	**21.0**	**66.0**	**[R] 9.4**	**[R] 184.8**	**—**	**[R] 230.0**	**25.5**	**[R] 255.4**
1986	—	—	—	34.9	11.1	28.1	0.1	1.9	1.7	15.9	61.8	—	120.7	—	155.7	26.2	181.9
1987	—	—	—	35.5	7.2	27.3	(s)	1.9	[R] 1.7	16.6	15.1	—	[R] 69.9	—	[R] 105.4	34.9	[R] 140.3
1988	—	—	—	48.3	18.2	57.8	(s)	1.6	1.8	2.7	—	—	82.2	—	130.5	35.8	166.3
1989	—	—	—	37.7	5.8	61.4	(s)	1.2	1.8	2.9	—	—	73.2	—	110.9	33.0	143.9
1990	**—**	**—**	**—**	**58.5**	**5.6**	**61.7**	**(s)**	**0.6**	**1.9**	**2.9**	**1.8**	**—**	**74.4**	**[d R] 1.6**	**[d R] 134.4**	**[R] 34.1**	**[d R] 168.5**
1991	—	—	—	59.1	5.6	66.9	(s)	0.3	1.9	2.7	3.0	—	80.5	[R] 1.8	[R] 141.4	[R] 36.0	[R] 177.4
1992	—	—	—	65.9	4.9	65.5	(s)	0.3	[R] 2.1	3.0	3.2	—	[R] 79.0	[R] 1.7	[R] 146.7	[R] 37.0	[R] 183.6
1993	—	0.2	0.2	67.9	0.8	55.3	0.2	0.2	2.3	2.1	2.9	—	63.7	1.4	133.1	38.7	171.8
1994	—	0.2	0.2	[R] 57.4	1.4	50.0	(s)	1.5	2.4	3.1	3.9	—	62.2	[R] 0.9	[R] 120.7	[R] 40.4	[R] 161.1
1995	**—**	**—**	**—**	**60.5**	**1.8**	**70.0**	**(s)**	**1.9**	**2.4**	**3.5**	**5.1**	**—**	**84.6**	**2.0**	**147.1**	**43.2**	**190.3**

[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 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.
(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 21. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Alaska

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**1.01**	**—**	**2.17**	**1.46**	**0.73**	**1.10**	**5.08**	**3.18**	**1.11**	**1.39**	**1.39**	**—**	**1.39**
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	0.76	—	5.58	3.21	1.00	1.38	1.38	—	1.38
1973	1.10	—	2.36	1.78	0.91	—	5.33	3.46	0.85	1.61	1.61	—	1.61
1974	1.18	—	3.23	2.90	1.57	—	7.22	4.76	1.99	2.56	2.56	—	2.56
1975	**1.57**	**—**	**3.45**	**3.13**	**2.04**	**—**	**7.48**	**5.15**	**2.14**	**3.06**	**3.06**	**—**	**3.06**
1976	1.46	—	3.59	3.30	2.32	—	7.05	5.36	2.42	3.36	3.36	—	3.36
1977	1.54	—	3.97	3.60	2.62	—	6.97	5.69	2.71	3.59	3.59	—	3.59
1978	—	—	4.29	3.88	2.86	—	7.60	6.09	2.37	3.74	3.74	—	3.74
1979	—	—	5.73	5.28	3.79	3.95	10.21	7.59	3.37	5.05	5.05	—	5.05
1980	**—**	**—**	**9.02**	**7.39**	**6.21**	**3.96**	**14.36**	**10.20**	**—**	**7.31**	**7.31**	**—**	**7.31**
1981	—	—	10.84	8.86	7.56	—	18.00	11.58	8.13	8.76	8.76	—	8.76
1982	—	—	10.92	8.77	7.37	5.54	17.25	11.35	—	8.59	8.59	—	8.59
1983	—	—	10.44	7.50	6.72	6.05	16.98	10.46	5.29	7.72	7.72	—	7.72
1984	—	—	10.27	7.70	6.47	5.99	17.63	10.07	4.80	7.47	7.47	—	7.47
1985	**—**	**—**	**9.99**	**8.00**	**6.07**	**13.07**	**17.61**	**9.83**	**4.55**	**7.27**	**7.27**	**—**	**7.27**
1986	—	—	8.41	7.33	4.16	9.06	15.59	7.86	2.42	5.45	5.45	—	5.45
1987	—	—	7.55	6.58	4.13	8.52	R 13.58	7.90	3.23	5.31	5.31	—	5.31
1988	—	—	7.41	7.50	4.14	8.58	R 14.62	8.14	4.61	5.48	5.48	—	5.48
1989	—	—	8.28	8.51	4.69	12.13	14.48	8.65	3.34	6.20	6.20	—	6.20
1990	**—**	**—**	**9.32**	**9.03**	**6.17**	**9.03**	**14.60**	**10.03**	**5.00**	**7.56**	**7.56**	**—**	**7.56**
1991	—	—	8.71	8.35	5.50	9.29	R 16.80	8.99	2.96	6.69	6.69	—	6.69
1992	—	—	8.54	8.49	5.15	9.26	R 18.32	9.95	3.24	R 6.86	R 6.86	—	R 6.86
1993	—	—	8.24	8.43	4.96	9.21	R 18.96	9.98	2.88	6.78	6.78	—	6.78
1994	—	—	7.96	8.23	4.53	9.28	R 19.11	10.46	R 2.80	6.48	6.48	—	6.48
1995	**—**	**—**	**8.36**	**8.62**	**4.54**	**9.51**	**19.40**	**10.80**	**2.83**	**6.77**	**6.77**	**—**	**6.77**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**5.1**	**8.5**	**27.5**	**(s)**	**1.8**	**37.9**	**0.9**	**81.7**	**81.8**	**—**	**81.8**
1971	(s)	—	4.2	12.7	32.5	(s)	1.5	43.3	1.6	95.8	95.8	—	95.8
1972	(s)	—	4.3	20.0	34.4	—	1.7	40.7	1.5	102.7	102.7	—	102.7
1973	(s)	—	4.7	19.9	37.6	—	1.6	48.9	1.8	114.5	114.5	—	114.5
1974	(s)	—	7.8	40.7	65.6	—	2.1	75.9	4.2	196.3	196.3	—	196.3
1975	**(s)**	**—**	**8.1**	**39.3**	**85.0**	**—**	**5.5**	**98.9**	**6.5**	**243.3**	**243.3**	**—**	**243.3**
1976	(s)	—	6.9	56.0	96.7	—	5.7	120.8	12.4	298.5	298.5	—	298.5
1977	(s)	—	8.6	61.6	116.4	—	4.0	126.8	19.4	336.8	336.8	—	336.8
1978	—	—	9.5	61.8	133.0	—	4.7	130.1	26.4	365.4	365.4	—	365.4
1979	—	—	12.5	53.8	180.7	(s)	6.5	169.4	6.5	429.4	429.4	—	429.4
1980	**—**	**—**	**22.7**	**112.1**	**335.7**	**0.1**	**8.2**	**177.1**	**—**	**655.9**	**655.9**	**—**	**655.9**
1981	—	—	27.6	128.4	462.7	—	9.9	255.7	0.4	884.7	884.7	—	884.7
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	893.3	893.3	—	893.3
1984	—	—	20.3	171.6	553.3	0.4	9.8	269.7	1.7	1,026.8	1,026.8	—	1,026.8
1985	**—**	**—**	**24.7**	**272.2**	**520.3**	**0.7**	**9.1**	**256.4**	**0.5**	**1,084.0**	**1,084.0**	**—**	**1,084.0**
1986	—	—	26.2	173.5	379.8	0.3	7.9	199.9	1.7	789.3	789.3	—	789.3
1987	—	—	7.9	149.8	345.6	0.2	R 7.8	196.6	2.4	R 710.3	R 710.3	—	R 710.3
1988	—	—	15.2	173.9	394.0	0.3	8.1	222.8	4.1	818.3	818.3	—	818.3
1989	—	—	20.5	315.8	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**	**301.0**	**4.4**	**1,288.7**	**1,288.7**	**—**	**1,288.7**
1991	—	—	27.2	231.0	528.3	0.1	8.8	231.6	1.4	1,028.3	1,028.3	—	1,028.3
1992	—	—	19.8	239.7	426.9	0.1	R 9.8	301.3	6.4	R 1,004.1	R 1,004.1	—	R 1,004.1
1993	—	—	17.1	233.6	412.5	0.1	10.3	310.8	2.2	986.5	986.5	—	986.5
1994	—	—	6.9	168.2	413.3	0.1	R 10.8	355.9	R 1.8	R 956.9	R 956.9	—	R 956.9
1995	**—**	**—**	**16.4**	**263.1**	**435.6**	**0.1**	**10.8**	**400.9**	**2.1**	**1,129.0**	**1,129.0**	**—**	**1,129.0**

[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.
(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 22. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Alaska

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.68**	**0.37**	**1.35**	**1.68**	**—**	**1.68**	**—**	**—**	**0.66**
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	1.34	1.97	—	1.97	—	—	0.72
1974	0.82	0.50	2.47	2.81	—	2.81	—	—	0.82
1975	**0.96**	**0.51**	**2.86**	**3.10**	**—**	**3.10**	**—**	**—**	**0.95**
1976	0.98	0.66	3.01	3.65	—	3.64	—	—	1.15
1977	1.08	0.76	3.26	3.97	—	3.96	—	—	1.31
1978	1.29	0.83	3.02	3.89	—	3.89	—	—	1.35
1979	1.31	0.86	4.10	5.53	—	5.53	—	—	1.57
1980	**1.91**	**0.48**	**4.08**	**5.48**	**—**	**4.90**	**—**	**—**	**1.25**
1981	1.90	0.55	8.68	11.74	—	10.83	—	—	1.94
1982	1.33	0.71	5.15	7.49	—	6.66	—	—	1.54
1983	1.75	1.04	6.55	8.72	—	7.90	—	—	2.04
1984	1.80	1.04	6.01	7.64	—	6.88	—	—	1.96
1985	**1.80**	**0.92**	**5.18**	**7.06**	**—**	**6.12**	**—**	**—**	**1.71**
1986	1.82	1.11	2.82	4.15	—	3.40	—	—	1.48
1987	2.00	1.13	3.68	9.50	—	6.94	—	—	1.87
1988	2.64	1.33	5.70	8.81	—	7.56	—	—	2.13
1989	1.95	1.35	4.19	6.31	—	5.61	—	—	1.86
1990	**2.46**	**1.58**	**6.38**	**10.36**	**—**	**9.27**	**—**	**—**	**2.37**
1991	1.94	1.16	3.73	7.31	—	6.14	—	—	1.81
1992	1.99	1.18	3.97	7.25	—	6.57	—	—	1.91
1993	2.11	1.25	3.48	6.22	—	5.18	—	—	1.89
1994	2.10	1.13	R 2.93	R 7.28	—	R 5.78	—	—	R 1.86
1995	**2.10**	**1.29**	**2.81**	**7.28**	**—**	**5.85**	**—**	**—**	**1.97**
	Expenditures in Million Nominal Dollars								
1970	**2.9**	**3.1**	**(s)**	**3.9**	**—**	**3.9**	**—**	**—**	**9.9**
1971	3.4	4.4	(s)	4.2	—	4.2	—	—	12.0
1972	2.9	5.7	(s)	4.2	—	4.2	—	—	12.8
1973	3.4	7.4	(s)	5.6	—	5.6	—	—	16.4
1974	3.8	8.6	(s)	7.8	—	7.9	—	—	20.2
1975	**4.3**	**10.1**	**(s)**	**12.5**	**—**	**12.6**	**—**	**—**	**26.9**
1976	4.3	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	(s)	20.2	—	20.2	—	—	46.6
1979	5.5	24.5	(s)	29.6	—	29.7	—	—	59.6
1980	**8.2**	**13.8**	**9.1**	**17.2**	**—**	**26.3**	**—**	**—**	**48.3**
1981	9.6	16.0	11.9	38.1	—	50.0	—	—	75.6
1982	7.0	22.0	9.7	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	—	41.8	—	—	83.9
1985	**8.4**	**31.8**	**15.5**	**21.3**	**—**	**36.8**	**—**	**—**	**77.0**
1986	7.8	38.5	9.4	10.6	—	19.9	—	—	66.3
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	18.6	—	24.6	—	—	78.4
1990	**11.3**	**54.6**	**6.9**	**29.4**	**—**	**36.2**	**—**	**—**	**102.1**
1991	9.1	36.3	5.6	22.6	—	28.2	—	—	73.6
1992	8.7	34.0	3.7	25.7	—	29.3	—	—	72.1
1993	9.9	35.1	6.7	19.5	—	26.2	—	—	71.2
1994	9.0	32.8	R 5.2	R 24.3	—	R 29.5	—	—	R 71.3
1995	**9.7**	**38.4**	**4.5**	**25.1**	**—**	**29.6**	**—**	**—**	**77.8**

[a] There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
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 23. Energy Price and Expenditure Estimates by Source, 1970-1995, Arizona

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	**—**	**0.21**	**0.21**	**0.54**	**1.10**	**0.76**	**2.08**	**2.80**	**0.48**	**1.06**	**1.96**	**—**	**—**	**1.29**	**0.33**	**5.32**	**1.97**
1971	—	0.25	0.25	0.58	1.11	0.80	2.03	2.87	0.57	1.32	2.05	—	—	1.33	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	0.96	2.67	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	—	—	1.98	0.87	7.63	3.12
1975	**—**	**0.23**	**0.23**	**1.01**	**2.49**	**2.12**	**4.06**	**4.62**	**2.08**	**2.83**	**3.45**	**—**	**—**	**2.25**	**0.84**	**9.65**	**3.87**
1976	—	0.27	0.27	1.27	2.65	2.32	4.26	4.84	2.20	2.83	3.67	—	—	2.25	0.70	10.33	4.12
1977	—	0.54	0.54	1.61	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	2.92	5.05	5.42	2.07	3.13	4.10	—	—	2.70	0.93	12.69	5.08
1979	—	0.91	0.91	2.40	4.27	4.08	5.34	6.98	2.79	3.99	5.44	—	—	3.31	1.27	14.15	6.19
1980	**—**	**1.01**	**1.01**	**2.86**	**6.57**	**6.59**	**6.85**	**9.68**	**3.92**	**6.13**	**8.14**	**—**	**—**	**4.49**	**1.35**	**15.68**	**8.42**
1981	—	1.09	1.09	3.18	7.75	7.67	8.76	10.83	4.97	7.98	9.51	—	—	4.66	1.37	16.88	9.38
1982	—	1.27	1.27	4.43	7.50	7.38	9.56	10.34	5.13	7.55	9.20	—	—	4.79	1.46	19.84	9.95
1983	—	1.31	1.31	4.99	6.93	6.71	10.00	8.87	5.28	7.38	8.13	—	—	4.73	1.48	20.16	9.58
1984	—	1.29	1.29	5.10	6.77	6.41	9.13	8.94	4.66	7.09	8.01	—	—	4.67	1.50	20.56	9.59
1985	**—**	**1.36**	**1.36**	**4.92**	**6.90**	**6.20**	**[R] 10.19**	**9.06**	**3.79**	**7.02**	**[R] 8.17**	**0.65**	**—**	**4.62**	**1.60**	**21.15**	**10.08**
1986	—	1.49	1.49	4.12	5.63	4.25	[R] 9.76	7.24	2.36	6.27	6.52	0.65	—	3.70	1.26	21.87	9.21
1987	—	1.33	1.33	4.10	6.49	4.36	[R] 10.00	7.77	2.33	[R] 5.23	[R] 6.95	0.82	—	3.78	1.21	21.31	[R] 9.78
1988	—	1.42	1.42	4.45	6.04	4.15	[R] 9.26	7.31	2.37	5.27	6.56	0.77	—	3.36	1.18	21.73	9.76
1989	—	1.38	1.38	3.92	6.76	4.80	[R] 11.73	8.19	2.76	5.21	[R] 7.35	0.85	—	3.97	1.38	22.10	10.41
1990	**—**	**1.45**	**1.45**	**4.52**	**7.80**	**6.04**	**[R] 11.93**	**9.22**	**3.31**	**5.24**	**8.30**	**0.72**	**[d R] 3.24**	**[d] 3.95**	**1.21**	**[R] 22.81**	**[d R] 11.17**
1991	—	1.43	1.43	4.58	7.48	5.03	[R] 12.41	8.57	2.65	[R] 6.24	[R] 7.76	0.70	[R] 3.28	3.63	1.13	23.09	[R] 10.91
1992	—	1.40	1.40	4.57	7.53	4.72	[R] 10.70	9.23	2.53	[R] 5.67	[R] 8.11	0.55	[R] 3.27	3.68	1.08	23.94	11.46
1993	—	1.38	1.38	4.86	8.41	4.69	[R] 10.59	9.58	2.43	6.27	[R] 8.58	0.58	[R] 3.30	3.98	1.12	24.05	11.72
1994	—	1.40	1.40	4.69	8.12	4.24	[R] 11.86	9.54	3.08	[R] 6.22	[R] 8.51	0.57	[R] 3.23	[R] 3.93	1.11	23.23	11.53
1995	**—**	**1.42**	**1.42**	**4.73**	**8.02**	**4.34**	**11.39**	**9.57**	**2.82**	**6.01**	**8.50**	**0.49**	**3.29**	**4.02**	**1.00**	**22.32**	**11.30**
	Expenditures in Million Nominal Dollars																
1970	**—**	**1.8**	**1.8**	**96.8**	**31.3**	**27.5**	**10.2**	**316.9**	**0.3**	**31.4**	**417.7**	**—**	**—**	**516.4**	**-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	—	—	570.3	-32.2	281.2	819.3
1972	—	2.5	2.5	124.7	49.5	31.4	11.9	379.6	8.3	36.7	517.2	—	—	644.4	-43.8	343.6	944.2
1973	—	3.2	3.2	131.3	77.4	38.3	13.6	447.4	46.5	42.7	666.0	—	—	800.6	-76.3	412.3	1,136.6
1974	—	8.4	8.4	136.1	121.3	65.3	18.6	578.2	90.7	78.7	952.8	—	—	1,097.3	-126.0	527.8	1,499.1
1975	**—**	**21.1**	**21.1**	**148.4**	**147.1**	**82.9**	**16.9**	**671.9**	**77.7**	**60.4**	**1,056.8**	**—**	**—**	**1,226.3**	**-129.6**	**697.1**	**1,793.8**
1976	—	38.3	38.3	209.1	156.1	85.3	14.5	735.0	78.4	57.7	1,127.1	—	—	1,374.5	-139.0	779.8	2,015.2
1977	—	97.4	97.4	259.5	215.7	107.3	18.2	822.8	109.3	70.2	1,343.5	—	—	1,700.4	-226.9	941.3	2,414.8
1978	—	85.2	85.2	309.0	253.6	119.6	21.1	922.8	64.6	82.6	1,464.4	—	—	1,858.6	-226.5	1,040.2	2,672.3
1979	—	224.9	224.9	383.2	297.5	177.0	34.2	1,177.4	86.4	104.8	1,877.3	—	—	2,485.5	-374.8	1,257.7	3,368.4
1980	**—**	**247.0**	**247.0**	**434.0**	**412.0**	**289.7**	**40.0**	**1,555.4**	**33.0**	**118.0**	**2,448.1**	**—**	**—**	**3,129.0**	**-398.7**	**1,431.6**	**4,161.9**
1981	—	348.3	348.3	502.5	450.4	319.0	37.9	1,753.0	8.0	129.0	2,697.3	—	—	3,548.1	-489.4	1,622.3	4,681.0
1982	—	426.9	426.9	525.9	360.5	314.1	53.1	1,707.6	10.2	107.6	2,553.1	—	—	3,506.0	-496.4	1,782.4	4,791.9
1983	—	388.4	388.4	536.5	361.0	262.5	59.8	1,537.5	17.8	111.7	2,350.2	—	—	3,275.0	-429.6	1,917.9	4,763.3
1984	—	417.8	417.8	573.4	396.0	283.6	49.7	1,624.3	16.0	149.6	2,519.1	—	—	3,510.4	-477.7	2,086.4	5,119.1
1985	**—**	**466.2**	**466.2**	**580.6**	**409.0**	**244.4**	**[R] 63.2**	**1,719.7**	**4.2**	**150.3**	**[R] 2,590.9**	**8.0**	**—**	**[R] 3,645.6**	**-580.5**	**2,381.4**	**[R] 5,446.6**
1986	—	440.9	440.9	379.7	371.0	181.0	[R] 60.5	1,438.5	0.6	135.1	[R] 2,186.7	69.8	—	[R] 3,077.0	-490.6	2,536.2	[R] 5,122.6
1987	—	376.0	376.0	426.6	402.2	202.5	[R] 71.1	1,599.5	1.8	[R] 113.0	[R] 2,390.0	118.4	—	[R] 3,311.1	-539.1	2,664.5	[R] 5,436.4
1988	—	439.6	439.6	487.9	368.3	195.0	[R] 58.2	1,546.4	0.8	119.4	[R] 2,288.1	190.6	—	[R] 3,406.2	-671.5	2,886.0	[R] 5,620.7
1989	—	493.8	493.8	510.6	448.9	217.4	[R] 62.6	1,747.4	2.6	108.7	[R] 2,587.6	71.8	—	[R] 3,663.8	-664.3	3,030.3	[R] 6,029.8
1990	**—**	**498.5**	**498.5**	**464.2**	**546.4**	**285.9**	**[R] 58.8**	**1,892.9**	**0.5**	**107.8**	**[R] 2,892.3**	**158.1**	**[d R] 20.7**	**[d R] 4,033.9**	**-696.2**	**[R] 3,181.1**	**[d R] 6,518.9**
1991	—	497.6	497.6	468.8	451.3	270.2	[R] 64.5	1,827.1	2.4	122.4	[R] 2,737.9	188.9	[R] 21.9	[R] 3,915.2	-711.4	[R] 3,249.4	[R] 6,453.2
1992	—	515.3	515.3	492.8	494.6	219.1	[R] 64.9	2,014.6	1.2	[R] 140.4	[R] 2,934.7	149.6	[R] 22.9	[R] 4,115.4	-713.0	[R] 3,516.4	[R] 6,918.7
1993	—	536.1	536.1	486.5	663.7	207.4	[R] 70.4	2,163.8	2.9	127.5	[R] 3,235.7	136.0	[R] 21.8	[R] 4,416.1	-706.9	[R] 3,644.6	[R] 7,353.8
1994	—	562.7	562.7	523.0	621.3	177.7	[R] 80.4	2,265.3	3.9	[R] 137.5	[R] 3,286.1	141.1	[R] 21.7	[R] 4,534.6	-731.4	[R] 3,747.3	[R] 7,550.5
1995	**—**	**485.7**	**485.7**	**497.5**	**682.8**	**186.7**	**80.0**	**2,370.9**	**1.5**	**154.8**	**3,476.6**	**140.7**	**23.8**	**4,624.3**	**-636.3**	**3,700.4**	**7,688.4**

[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.

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 24. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Arizona

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**—**	**1.13**	**1.27**	**2.88**	**2.65**	**2.48**	**—**	**1.29**	**6.99**	**2.96**
1971	—	1.16	1.34	2.69	2.51	2.34	—	1.29	6.92	2.99
1972	—	1.18	1.35	2.45	2.84	2.50	—	1.33	7.34	3.30
1973	—	1.30	1.57	2.56	3.53	2.94	—	1.48	7.78	3.67
1974	—	1.41	2.49	3.96	4.26	3.77	—	1.70	9.30	4.61
1975	**—**	**1.46**	**2.82**	**4.65**	**5.55**	**4.52**	**—**	**1.72**	**11.67**	**5.29**
1976	—	2.02	3.03	4.59	5.64	4.53	—	2.23	12.32	5.77
1977	—	2.48	3.14	5.21	7.19	5.19	—	2.75	14.05	6.98
1978	—	2.88	3.41	5.54	5.54	4.72	—	3.12	14.91	8.27
1979	—	3.37	4.42	7.85	6.80	6.30	—	3.78	16.53	9.78
1980	**—**	**3.88**	**7.27**	**—**	**8.46**	**8.46**	**—**	**4.21**	**18.28**	**11.20**
1981	—	4.39	7.95	—	10.43	10.42	—	4.86	20.21	12.84
1982	4.59	5.62	—	—	11.84	11.84	—	6.15	22.63	14.20
1983	—	6.35	7.37	13.28	11.74	11.74	—	6.88	22.82	15.04
1984	4.21	6.85	6.61	13.26	10.67	10.68	—	7.17	23.47	16.07
1985	**3.85**	**6.69**	**4.00**	**8.02**	**10.25**	**10.12**	**—**	**7.05**	**24.18**	**16.56**
1986	—	6.06	4.74	9.52	9.97	9.87	—	6.50	25.37	17.63
1987	2.62	5.89	3.74	7.51	10.81	10.60	—	6.48	25.09	17.34
1988	2.63	6.76	4.98	10.00	9.52	9.47	—	7.03	25.65	18.35
1989	—	6.66	4.98	9.98	14.20	14.07	—	7.38	25.93	18.96
1990	**3.02**	**6.64**	**7.57**	**15.18**	**13.79**	**13.66**	**[d] 4.75**	**[d] 7.00**	**26.49**	**[d] 16.87**
1991	3.06	6.82	7.36	14.77	14.13	14.07	4.75	7.22	26.80	17.02
1992	2.80	7.02	6.97	13.99	11.46	11.43	4.75	7.20	28.08	18.09
1993	2.47	7.00	7.33	14.70	11.72	11.68	4.75	7.17	[R] 28.27	[R] 18.48
1994	2.28	7.34	6.88	13.81	[R] 13.43	[R] 13.39	4.75	[R] 7.59	[R] 27.25	[R] 18.35
1995	**2.21**	**7.54**	**6.86**	**13.76**	**12.57**	**12.54**	**4.75**	**7.72**	**26.64**	**18.05**
	Expenditures in Million Nominal Dollars									
1970	**—**	**35.6**	**0.7**	**1.1**	**8.4**	**10.2**	**—**	**45.8**	**103.3**	**149.1**
1971	—	40.0	0.9	0.8	8.1	9.8	—	49.8	116.4	166.2
1972	—	42.6	1.4	0.5	9.7	11.6	—	54.2	145.7	199.9
1973	—	49.6	2.0	0.5	11.1	13.7	—	63.3	178.3	241.6
1974	—	48.5	3.1	2.0	13.1	18.2	—	66.7	225.2	291.9
1975	**—**	**58.2**	**3.6**	**2.0**	**11.2**	**16.8**	**—**	**75.0**	**284.3**	**359.2**
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	—	123.1	376.5	499.6
1978	—	92.4	6.4	5.4	11.3	23.0	—	115.5	426.9	542.4
1979	—	103.5	5.2	2.7	23.3	31.2	—	134.7	524.7	659.4
1980	**—**	**119.6**	**0.1**	**—**	**20.4**	**20.5**	**—**	**140.1**	**601.2**	**741.3**
1981	—	121.8	(s)	—	24.1	24.1	—	145.9	657.2	803.2
1982	(s)	174.5	—	—	34.3	34.3	—	208.8	733.9	942.7
1983	—	194.2	(s)	0.2	39.0	39.2	—	233.4	812.0	1,045.4
1984	(s)	197.7	(s)	0.2	28.0	28.2	—	225.8	889.6	1,115.4
1985	**(s)**	**200.5**	**0.3**	**0.1**	**35.3**	**35.7**	**—**	**236.2**	**1,010.5**	**1,246.7**
1986	—	159.6	0.3	0.2	33.3	33.7	—	193.3	1,085.5	1,278.8
1987	(s)	173.7	0.4	0.1	43.6	44.1	—	217.8	1,183.1	1,400.9
1988	(s)	197.2	0.2	0.2	29.8	30.1	—	227.3	1,289.0	1,516.3
1989	—	188.0	0.2	(s)	43.0	43.3	—	231.2	1,349.0	1,580.3
1990	**(s)**	**207.7**	**0.5**	**(s)**	**38.6**	**39.1**	**[d] 16.4**	**[d] 263.2**	**[R] 1,390.1**	**[d R] 1,653.3**
1991	(s)	219.2	0.2	0.1	44.5	44.8	17.3	281.3	[R] 1,430.3	[R] 1,711.6
1992	0.1	205.5	0.2	0.2	39.0	39.3	18.2	263.1	[R] 1,555.1	1,818.2
1993	(s)	202.8	0.2	0.1	34.9	35.2	17.4	255.4	[R] 1,611.4	[R] 1,866.8
1994	(s)	223.8	0.1	0.1	[R] 41.2	[R] 41.5	17.0	[R] 282.3	[R] 1,693.5	[R] 1,975.8
1995	**0.1**	**210.3**	**0.2**	**0.2**	**44.2**	**44.6**	**18.9**	**273.8**	**1,639.5**	**1,913.4**

[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.

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 25. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Arizona

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**—**	**0.60**	**1.12**	**0.77**	**1.05**	**2.80**	**0.63**	**1.51**	**0.69**	**5.57**	**2.51**
1971	—	0.65	1.18	0.79	1.13	2.87	0.58	1.53	0.74	5.68	2.59
1972	—	0.69	1.18	0.80	1.13	2.83	0.86	1.49	0.79	6.20	2.88
1973	—	0.73	1.41	1.07	1.29	3.06	1.02	1.59	0.85	6.55	2.91
1974	—	0.78	2.37	1.71	2.28	4.12	1.79	2.52	1.02	7.76	3.49
1975	**—**	**1.10**	**2.62**	**2.35**	**2.67**	**4.62**	**2.08**	**2.95**	**1.33**	**10.03**	**4.68**
1976	—	1.36	2.84	2.54	2.98	4.84	2.18	3.03	1.57	10.90	5.03
1977	—	1.67	2.94	2.64	3.44	5.09	2.27	3.01	1.90	12.49	6.04
1978	—	2.07	3.17	2.83	4.58	5.42	2.04	3.19	2.28	13.72	7.06
1979	—	2.54	4.33	3.41	3.67	6.98	2.90	4.60	2.84	15.42	8.81
1980	**—**	**3.00**	**6.94**	**—**	**5.72**	**9.68**	**—**	**7.63**	**3.44**	**16.68**	**10.00**
1981	—	3.35	7.59	6.55	6.85	10.83	5.04	8.65	3.71	18.08	11.05
1982	2.14	4.64	7.73	6.59	7.08	10.34	5.09	8.07	5.01	20.71	12.97
1983	—	5.31	6.28	7.23	7.82	8.87	5.12	7.45	5.52	21.15	13.86
1984	1.88	5.36	6.02	6.50	7.70	8.94	4.72	7.17	5.52	21.26	14.43
1985	**1.81**	**5.33**	**5.94**	**6.39**	**[R] 10.11**	**9.06**	**4.13**	**[R] 7.11**	**[R] 5.57**	**22.33**	**15.25**
1986	—	4.47	3.53	3.97	[R] 9.51	7.24	—	[R] 5.32	[R] 4.58	22.87	15.70
1987	1.94	4.38	4.16	4.57	[R] 8.94	7.77	—	[R] 5.92	[R] 4.64	21.20	[R] 14.35
1988	1.84	4.81	3.83	4.21	[R] 9.01	7.31	2.30	[R] 5.14	[R] 4.85	21.80	[R] 15.09
1989	—	4.57	4.79	5.15	[R] 8.49	8.19	—	[R] 6.05	[R] 4.72	22.05	15.43
1990	**1.97**	**4.64**	**5.63**	**5.87**	**[R] 9.49**	**9.22**	**—**	**[R] 7.02**	**[R] 4.98**	**[R] 23.08**	**[R] 16.13**
1991	2.01	4.95	5.24	5.54	[R] 9.75	8.57	2.53	[R] 7.27	[R] 5.26	[R] 23.60	16.69
1992	2.02	5.04	4.96	5.56	[R] 9.72	9.23	—	[R] 7.72	[R] 5.34	24.34	17.48
1993	2.03	4.92	5.19	5.80	[R] 9.67	9.58	—	[R] 7.88	[R] 5.16	[R] 24.47	[R] 17.69
1994	2.05	5.13	4.76	[R] 5.40	[R] 10.60	9.54	—	[R] 6.59	[R] 5.23	23.39	17.09
1995	**2.03**	**5.06**	**5.06**	**5.55**	**10.74**	**9.57**	**—**	**6.93**	**5.19**	**22.58**	**16.78**
	Expenditures in Million Nominal Dollars										
1970	**—**	**14.3**	**1.4**	**0.1**	**0.6**	**2.2**	**0.1**	**4.3**	**18.7**	**89.1**	**107.8**
1971	—	17.5	1.7	(s)	0.6	2.3	0.2	4.8	22.4	102.9	125.2
1972	—	19.5	2.7	(s)	0.7	2.3	0.2	5.9	25.4	126.5	151.9
1973	—	24.4	4.1	(s)	0.7	2.6	0.9	8.4	32.8	143.9	176.7
1974	—	27.2	6.7	0.2	1.2	3.7	1.9	13.7	40.9	180.6	221.4
1975	**—**	**37.8**	**7.4**	**0.2**	**0.9**	**4.3**	**1.1**	**13.9**	**51.7**	**245.1**	**296.9**
1976	—	52.5	7.9	0.4	0.9	4.6	2.9	16.7	69.2	283.5	352.7
1977	—	59.9	10.9	0.5	1.0	5.0	5.8	23.2	83.0	349.6	432.6
1978	—	65.1	13.3	0.5	1.6	4.6	3.9	23.9	89.1	384.2	473.2
1979	—	71.3	11.5	0.2	2.2	6.4	1.4	21.7	93.0	456.9	549.9
1980	**—**	**86.2**	**11.3**	**—**	**2.4**	**9.1**	**—**	**22.9**	**109.1**	**519.3**	**628.4**
1981	—	94.5	2.6	0.7	2.8	10.5	1.1	17.8	112.3	571.5	683.8
1982	(s)	127.8	1.0	0.4	3.6	16.5	5.1	26.7	154.5	656.4	810.8
1983	—	136.6	7.9	0.1	4.6	7.8	(s)	20.4	157.0	688.8	845.9
1984	(s)	141.8	8.5	0.1	3.6	7.1	0.1	19.4	161.2	810.2	971.4
1985	**(s)**	**141.3**	**16.5**	**0.1**	**[R] 6.1**	**6.7**	**(s)**	**[R] 29.4**	**[R] 170.7**	**936.7**	**[R] 1,107.3**
1986	—	111.6	7.8	0.4	[R] 5.6	6.3	—	[R] 20.1	[R] 131.8	1,021.0	[R] 1,152.8
1987	(s)	125.6	12.8	0.5	[R] 6.4	14.5	—	[R] 34.3	[R] 159.9	1,036.0	[R] 1,195.9
1988	(s)	140.6	10.8	(s)	[R] 5.0	5.3	(s)	[R] 21.1	[R] 161.8	1,110.0	[R] 1,271.8
1989	—	136.1	10.4	0.1	[R] 4.5	5.5	—	[R] 20.6	[R] 156.7	1,187.0	[R] 1,343.7
1990	**(s)**	**136.0**	**16.7**	**0.1**	**[R] 4.7**	**12.4**	**—**	**[R] 33.9**	**[R] 169.9**	**[R] 1,264.5**	**[R] 1,434.4**
1991	(s)	139.9	9.3	0.1	[R] 5.4	16.7	0.2	[R] 31.6	[R] 171.6	[R] 1,272.6	[R] 1,444.2
1992	0.1	140.9	6.5	(s)	[R] 5.8	14.9	—	[R] 27.3	[R] 168.3	1,359.0	[R] 1,527.3
1993	(s)	139.5	5.1	(s)	[R] 5.1	9.6	—	[R] 19.8	[R] 159.3	[R] 1,395.5	[R] 1,554.8
1994	(s)	153.8	7.0	(s)	[R] 5.7	1.7	—	[R] 14.5	[R] 168.3	[R] 1,417.8	[R] 1,586.1
1995	**0.1**	**148.1**	**7.7**	**(s)**	**6.7**	**1.8**	**—**	**16.2**	**164.4**	**1,429.9**	**1,594.3**

[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.

—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 26. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Arizona

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.60**	**0.72**	**0.77**	**1.05**	**5.08**	**2.80**	**0.36**	**—**	**0.86**	**—**	**0.58**	**3.56**	**1.00**
1971	—	0.56	0.56	0.44	0.81	0.74	0.79	1.13	5.27	2.87	0.58	0.46	1.02	—	0.64	3.63	1.08
1972	—	0.74	0.74	0.45	0.82	0.74	0.80	1.13	5.58	2.83	0.58	0.48	0.98	—	0.66	3.74	1.11
1973	—	0.74	0.74	0.47	0.85	0.99	1.07	1.29	5.33	3.06	0.78	0.53	1.16	—	0.76	4.42	1.29
1974	—	1.05	1.05	0.55	1.72	1.59	1.71	2.28	7.22	4.12	1.32	1.15	1.95	—	1.16	5.62	1.83
1975	**—**	**0.98**	**0.98**	**0.72**	**1.87**	**2.19**	**2.35**	**2.67**	**7.48**	**4.62**	**1.87**	**1.31**	**2.38**	**—**	**1.42**	**7.16**	**2.55**
1976	—	1.18	1.18	0.88	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	6.97	5.09	1.96	1.66	2.52	—	1.78	8.69	2.96
1978	—	1.37	1.37	1.52	1.92	2.61	2.83	4.58	7.60	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	2.33	2.88	3.36	—	2.42	10.03	3.72
1980	**—**	**1.58**	**1.58**	**2.57**	**3.63**	**5.15**	**5.45**	**5.72**	**14.36**	**9.68**	**3.95**	**4.04**	**5.19**	**—**	**3.59**	**11.39**	**5.34**
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	5.87
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	6.49	7.23	7.82	16.98	8.87	4.78	—	6.29	—	4.09	15.45	6.73
1984	—	1.88	1.88	4.17	4.58	6.31	6.50	7.70	17.63	8.94	4.72	—	6.18	—	4.06	15.18	6.26
1985	**—**	**1.81**	**1.81**	**4.25**	**4.76**	**6.20**	**6.39**	**[R] 10.11**	**17.61**	**9.06**	**4.13**	**—**	**[R] 6.35**	**—**	**[R] 3.98**	**15.05**	**[R] 6.68**
1986	—	2.17	2.17	3.77	4.33	3.85	3.97	[R] 9.51	15.59	7.24	2.29	—	[R] 4.95	—	[R] 3.47	15.07	[R] 6.17
1987	—	1.94	1.94	3.62	3.21	4.43	4.57	[R] 8.94	[R] 13.58	7.77	2.88	—	[R] 4.73	—	[R] 3.89	15.37	[R] 7.30
1988	—	1.84	1.84	3.66	3.28	4.08	4.21	[R] 9.01	[R] 14.62	7.31	2.30	—	[R] 4.64	—	[R] 3.84	15.41	[R] 7.32
1989	—	1.92	1.92	3.52	2.84	4.99	5.15	[R] 8.49	14.48	8.19	2.51	—	[R] 4.83	—	[R] 3.91	15.80	[R] 7.48
1990	**—**	**1.97**	**1.97**	**3.60**	**2.71**	**5.69**	**5.87**	**[R] 9.49**	**14.60**	**9.22**	**3.18**	**—**	**[R] 5.25**	**[d R] 1.46**	**[d R] 4.11**	**16.36**	**[d R] 7.87**
1991	—	2.01	2.01	3.43	3.34	5.38	5.54	[R] 9.75	[R] 16.80	8.57	2.53	12.63	[R] 5.41	[R] 1.51	[R] 4.08	[R] 16.35	[R] 8.02
1992	—	2.02	2.02	4.03	2.99	5.39	5.56	[R] 9.72	[R] 18.32	9.23	2.41	15.91	[R] 5.21	[R] 1.48	[R] 4.21	[R] 16.88	[R] 8.30
1993	—	2.03	2.03	3.91	2.95	5.63	5.80	[R] 9.67	[R] 18.96	9.58	2.33	13.75	[R] 5.62	[R] 1.51	[R] 4.26	[R] 17.01	[R] 8.64
1994	—	2.05	2.05	3.47	2.96	5.24	5.40	[R] 10.64	[R] 19.11	9.54	2.60	17.18	[R] 5.63	[R] 1.49	[R] 4.08	16.49	[R] 8.15
1995	**—**	**2.03**	**2.03**	**3.67**	**3.29**	**5.38**	**5.55**	**10.09**	**19.40**	**9.57**	**2.78**	**17.23**	**5.52**	**1.51**	**4.26**	**15.42**	**7.78**
	Expenditures in Million Nominal Dollars																
1970	**—**	**0.1**	**0.1**	**25.2**	**14.6**	**5.8**	**0.4**	**1.0**	**3.6**	**6.7**	**0.1**	**—**	**32.1**	**—**	**57.4**	**57.8**	**115.2**
1971	—	0.1	0.1	28.3	15.8	7.3	0.4	1.0	3.3	6.9	0.3	(s)	35.1	—	63.4	62.0	125.4
1972	—	0.2	0.2	30.0	19.5	11.4	0.3	1.2	3.7	7.0	0.6	(s)	43.7	—	73.9	71.4	145.3
1973	—	0.2	0.2	32.2	19.2	20.7	0.3	1.5	8.6	7.3	1.2	(s)	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	(s)	103.3	—	141.1	122.1	263.2
1975	**—**	**2.6**	**2.6**	**38.5**	**28.9**	**39.6**	**1.6**	**4.3**	**9.3**	**10.7**	**1.2**	**(s)**	**95.6**	**—**	**136.7**	**167.7**	**304.3**
1976	—	8.6	8.6	50.1	22.3	45.2	2.3	3.8	9.8	9.5	3.2	(s)	96.1	—	154.8	189.4	344.3
1977	—	21.7	21.7	65.7	25.5	65.5	4.9	4.5	11.2	10.0	4.9	0.1	126.5	—	213.8	215.2	429.1
1978	—	12.5	12.5	74.3	34.3	85.9	4.8	6.4	13.1	10.5	3.0	(s)	158.0	—	244.9	229.1	474.0
1979	—	61.3	61.3	95.9	48.1	76.0	0.5	8.5	18.4	12.5	1.7	0.1	165.9	—	323.1	276.1	599.2
1980	**—**	**20.6**	**20.6**	**101.5**	**49.6**	**107.1**	**2.3**	**15.5**	**23.0**	**15.7**	**3.8**	**0.1**	**217.1**	**—**	**339.3**	**311.1**	**650.4**
1981	—	39.7	39.7	124.4	48.7	107.9	3.3	7.4	27.7	15.4	0.4	(s)	210.8	—	374.9	393.5	768.4
1982	—	65.9	65.9	103.9	42.3	77.4	0.2	12.3	24.2	11.6	0.4	(s)	168.4	—	338.2	392.0	730.2
1983	—	66.8	66.8	123.1	45.5	83.9	0.1	12.4	24.9	8.6	0.2	—	175.6	—	365.5	417.0	782.5
1984	—	68.8	68.8	127.2	75.6	92.2	0.1	14.5	27.6	11.7	0.4	—	222.1	—	418.1	386.7	804.8
1985	**—**	**70.2**	**70.2**	**73.4**	**81.0**	**66.8**	**0.4**	**[R] 18.4**	**25.7**	**19.2**	**0.8**	**—**	**[R] 212.4**	**—**	**[R] 356.0**	**434.2**	**[R] 790.2**
1986	—	100.4	100.4	33.2	72.7	62.4	0.7	[R] 18.7	22.2	15.9	0.5	—	[R] 193.3	—	[R] 326.9	429.7	[R] 756.6
1987	—	25.8	25.8	66.6	53.1	62.9	0.7	[R] 19.2	[R] 21.9	16.5	0.3	—	[R] 174.6	—	[R] 267.1	445.3	[R] 712.4
1988	—	22.7	22.7	91.4	58.4	48.3	1.2	[R] 21.3	22.7	15.6	0.5	—	[R] 168.0	—	[R] 282.1	487.0	[R] 769.1
1989	—	27.4	27.4	68.5	45.0	89.0	1.4	[R] 13.0	23.1	18.0	0.1	—	[R] 189.6	—	[R] 285.6	494.3	[R] 779.8
1990	**—**	**26.1**	**26.1**	**61.0**	**42.6**	**102.3**	**0.6**	**[R] 13.6**	**24.0**	**24.2**	**0.3**	**—**	**[R] 207.6**	**[d R] 4.3**	**[d R] 299.0**	**[R] 526.5**	**[d R] 825.5**
1991	—	27.6	27.6	61.6	48.3	81.4	1.1	[R] 12.5	24.7	16.6	1.9	7.6	[R] 194.0	[R] 4.6	[R] 287.9	[R] 546.5	[R] 834.4
1992	—	25.9	25.9	75.7	59.1	74.8	(s)	[R] 18.1	[R] 27.4	16.8	1.0	10.8	[R] 208.0	[R] 4.7	[R] 314.3	[R] 602.3	[R] 916.6
1993	—	27.3	27.3	85.1	45.5	55.9	(s)	[R] 28.3	28.9	17.0	2.6	9.7	[R] 188.0	[R] 4.5	[R] 304.9	[R] 637.7	[R] 942.6
1994	—	30.1	30.1	92.4	50.6	54.5	(s)	[R] 30.5	[R] 30.5	18.4	0.7	10.6	[R] 195.8	[R] 4.7	[R] 322.9	[R] 635.9	[R] 958.8
1995	**—**	**26.6**	**26.6**	**105.4**	**68.5**	**83.0**	**(s)**	**27.2**	**30.4**	**20.6**	**1.2**	**9.9**	**240.9**	**4.9**	**377.9**	**630.9**	**1,008.8**

[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 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.
(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 27. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Arizona

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.63**	**—**	**2.17**	**1.26**	**0.76**	**1.05**	**5.08**	**2.80**	**—**	**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	0.94	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	**0.98**	**—**	**3.45**	**2.74**	**2.12**	**2.67**	**7.48**	**4.62**	**—**	**3.93**	**3.93**	**—**	**3.93**
1976	1.18	—	3.59	2.84	2.32	2.98	7.05	4.84	—	4.15	4.15	—	4.15
1977	1.27	—	3.97	3.29	2.71	3.44	6.97	5.09	—	4.44	4.44	—	4.44
1978	—	—	4.29	3.40	2.92	4.58	7.60	5.42	—	4.71	4.71	—	4.71
1979	—	—	5.73	4.79	4.08	3.67	10.21	6.98	—	6.16	6.16	—	6.16
1980	**—**	**—**	**9.02**	**7.34**	**6.59**	**5.72**	**14.36**	**9.68**	**—**	**8.79**	**8.79**	**—**	**8.79**
1981	—	—	10.84	8.46	7.67	6.85	18.00	10.83	—	9.96	9.96	—	9.96
1982	—	—	10.92	8.02	7.38	7.08	17.25	10.34	—	9.54	9.54	—	9.54
1983	—	—	10.44	7.14	6.71	7.82	16.98	8.87	—	8.35	8.35	—	8.35
1984	—	—	10.27	6.98	6.41	7.70	17.63	8.94	—	8.29	8.29	—	8.29
1985	**—**	**—**	**9.99**	**7.15**	**6.20**	**[R] 10.11**	**17.61**	**9.06**	**—**	**8.40**	**8.40**	**—**	**8.40**
1986	—	—	8.41	6.42	4.25	[R] 9.51	15.59	7.24	—	6.73	6.73	—	6.73
1987	—	—	7.55	7.44	4.36	[R] 8.94	[R] 13.58	7.77	—	[R] 7.23	[R] 7.23	—	[R] 7.23
1988	—	—	7.41	6.74	4.15	[R] 9.01	[R] 14.62	7.31	—	6.79	6.79	—	6.79
1989	—	—	8.28	7.62	4.80	[R] 8.49	14.48	8.19	—	7.64	7.64	—	7.64
1990	**—**	**—**	**9.32**	**8.79**	**6.04**	**[R] 9.49**	**14.60**	**9.22**	**—**	**8.69**	**8.69**	**—**	**8.69**
1991	—	3.73	8.71	8.38	5.03	[R] 9.75	[R] 16.80	8.57	—	7.98	7.98	—	7.98
1992	—	3.52	8.54	8.23	4.72	[R] 9.72	[R] 18.32	9.23	—	8.46	8.46	—	8.46
1993	—	3.47	8.24	8.89	4.69	[R] 9.67	[R] 18.96	9.58	—	8.85	8.85	—	8.85
1994	—	3.82	7.96	8.69	4.24	[R] 9.74	[R] 19.11	9.54	—	8.79	8.79	—	8.79
1995	**—**	**3.62**	**8.36**	**8.72**	**4.34**	**9.98**	**19.40**	**9.57**	**—**	**8.84**	**8.84**	**—**	**8.84**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**4.7**	**23.4**	**27.5**	**0.2**	**7.1**	**308.1**	**—**	**370.9**	**370.9**	**—**	**370.9**
1971	(s)	—	4.7	24.1	29.5	0.3	7.1	336.8	—	402.5	402.5	—	402.5
1972	(s)	—	4.5	34.6	29.3	0.3	8.1	370.3	—	447.2	447.2	—	447.2
1973	(s)	—	4.3	48.5	36.7	0.3	9.9	437.5	—	537.1	537.1	—	537.1
1974	(s)	—	6.6	75.0	63.5	0.5	12.8	564.2	—	722.6	722.6	—	722.6
1975	**(s)**	**—**	**6.2**	**75.8**	**81.7**	**0.5**	**12.1**	**656.9**	**—**	**833.4**	**833.4**	**—**	**833.4**
1976	(s)	—	6.1	83.5	85.3	0.6	12.7	720.9	—	909.0	909.0	—	909.0
1977	(s)	—	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	119.6	1.8	17.2	907.7	—	1,182.7	1,182.7	—	1,182.7
1979	—	—	10.7	189.5	177.0	0.1	24.1	1,158.5	—	1,559.8	1,559.8	—	1,559.8
1980	**—**	**—**	**12.8**	**277.0**	**289.7**	**1.6**	**30.2**	**1,530.5**	**—**	**2,141.9**	**2,141.9**	**—**	**2,141.9**
1981	—	—	12.3	327.1	319.0	3.6	36.3	1,727.1	—	2,425.6	2,425.6	—	2,425.6
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	261.2	262.5	3.8	32.7	1,521.1	—	2,089.5	2,089.5	—	2,089.5
1984	—	—	9.8	288.8	283.6	3.6	36.2	1,605.4	—	2,227.5	2,227.5	—	2,227.5
1985	**—**	**—**	**9.3**	**317.7**	**244.4**	**[R] 3.3**	**33.7**	**1,693.9**	**—**	**[R] 2,302.3**	**[R] 2,302.3**	**—**	**[R] 2,302.3**
1986	—	—	9.6	295.3	181.0	[R] 2.9	29.2	1,416.3	—	[R] 1,934.4	[R] 1,934.4	—	[R] 1,934.4
1987	—	—	7.9	317.7	202.5	[R] 2.0	[R] 28.7	1,568.4	—	[R] 2,127.3	[R] 2,127.3	—	[R] 2,127.3
1988	—	—	7.0	304.1	195.0	[R] 2.1	29.8	1,525.5	—	[R] 2,063.6	[R] 2,063.6	—	[R] 2,063.6
1989	—	—	8.8	343.7	217.4	[R] 2.0	30.3	1,723.8	—	[R] 2,325.9	[R] 2,325.9	—	[R] 2,325.9
1990	**—**	**—**	**9.1**	**420.9**	**285.9**	**[R] 1.9**	**[R] 31.5**	**1,856.3**	**—**	**[R] 2,605.6**	**[R] 2,605.6**	**—**	**[R] 2,605.6**
1991	—	0.1	8.3	356.2	270.2	[R] 2.0	32.4	1,793.8	—	[R] 2,462.9	[R] 2,463.0	—	[R] 2,463.0
1992	—	0.2	6.8	409.7	219.1	[R] 2.0	[R] 36.0	1,982.9	—	[R] 2,656.5	[R] 2,656.6	—	[R] 2,656.6
1993	—	0.2	5.3	599.7	207.4	[R] 2.0	37.9	2,137.2	—	[R] 2,989.5	[R] 2,989.7	—	[R] 2,989.7
1994	—	0.2	5.7	558.0	177.7	[R] 3.0	[R] 40.0	2,245.2	—	3,029.5	3,029.8	—	3,029.8
1995	**—**	**0.4**	**5.9**	**588.7**	**186.7**	**1.8**	**39.9**	**2,348.5**	**—**	**3,171.5**	**3,171.9**	**—**	**3,171.9**

[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 28. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Arizona

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.21**	**0.35**	**0.60**	**0.68**	**—**	**0.61**	**—**	**—**	**0.33**
1971	0.24	0.39	0.56	0.63	—	0.56	—	—	0.38
1972	0.32	0.39	0.85	2.22	—	0.94	—	—	0.44
1973	0.32	0.42	1.02	1.25	—	1.03	—	—	0.65
1974	0.17	0.53	1.77	2.15	—	1.80	—	—	0.87
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	—	2.30	—	—	0.93
1978	0.48	1.33	2.07	2.75	—	2.21	—	—	0.93
1979	0.79	2.08	2.80	4.38	—	2.97	—	—	1.27
1980	**0.98**	**2.41**	**3.92**	**6.48**	**—**	**4.57**	**—**	**—**	**1.35**
1981	1.05	2.66	5.05	7.32	—	6.36	—	—	1.37
1982	1.18	3.64	5.21	7.31	—	6.51	—	—	1.46
1983	1.21	4.12	5.28	6.24	—	5.54	—	—	1.48
1984	1.21	4.01	4.66	6.08	—	5.00	—	—	1.50
1985	**1.31**	**3.74**	**3.71**	**6.22**	**—**	**5.15**	**0.65**	**—**	**1.60**
1986	1.36	2.35	3.51	3.64	—	3.64	0.65	—	1.26
1987	1.30	2.20	2.24	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	—	3.76	0.85	—	1.38
1990	**1.43**	**2.37**	**3.48**	**5.11**	**—**	**5.03**	**0.72**	**—**	**1.21**
1991	1.41	2.01	3.86	4.99	—	4.89	0.70	—	1.13
1992	1.37	2.21	3.23	4.67	—	4.53	0.55	—	1.08
1993	1.35	2.81	3.55	5.11	—	4.87	0.58	—	1.12
1994	1.37	2.18	3.22	4.28	—	3.53	0.57	—	1.11
1995	**1.39**	**1.73**	**2.99**	**5.10**	**—**	**4.87**	**0.49**	**—**	**1.00**
	Expenditures in Million Nominal Dollars								
1970	**1.8**	**21.7**	**0.1**	**(s)**	**—**	**0.1**	**—**	**—**	**23.5**
1971	2.1	28.6	1.4	(s)	—	1.5	—	—	32.2
1972	2.3	32.6	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	8.3	—	95.0	—	—	126.0
1975	**18.5**	**13.9**	**75.4**	**21.8**	**—**	**97.2**	**—**	**—**	**129.6**
1976	29.7	21.3	72.4	15.7	—	88.1	—	—	139.0
1977	75.7	33.9	98.6	18.7	—	117.3	—	—	226.9
1978	72.7	77.1	57.6	19.1	—	76.8	—	—	226.5
1979	163.7	112.5	83.3	15.3	—	98.6	—	—	374.8
1980	**226.3**	**126.7**	**29.2**	**16.5**	**—**	**45.7**	**—**	**—**	**398.7**
1981	308.6	161.7	6.4	12.6	—	19.1	—	—	489.4
1982	361.0	119.8	4.7	10.9	—	15.6	—	—	496.4
1983	321.6	82.5	17.6	7.9	—	25.5	—	—	429.6
1984	349.0	106.8	15.5	6.4	—	21.9	—	—	477.7
1985	**396.0**	**165.5**	**3.4**	**7.7**	**—**	**11.0**	**8.0**	**—**	**580.5**
1986	340.5	75.2	0.1	5.1	—	5.1	69.8	—	490.6
1987	350.2	60.7	1.5	8.3	—	9.8	118.4	—	539.1
1988	416.9	58.7	0.3	4.9	—	5.2	190.6	—	671.5
1989	466.4	118.0	2.6	5.6	—	8.2	71.8	—	664.3
1990	**472.4**	**59.5**	**0.2**	**6.0**	**—**	**6.2**	**158.1**	**—**	**696.2**
1991	470.0	47.9	0.3	4.2	—	4.5	188.9	—	711.4
1992	489.2	70.6	0.2	3.3	—	3.6	149.6	—	713.0
1993	508.7	59.0	0.4	2.8	—	3.2	136.0	—	706.9
1994	532.6	52.8	3.2	1.7	—	4.9	141.1	—	731.4
1995	**458.9**	**33.3**	**0.2**	**3.2**	**—**	**3.4**	**140.7**	**—**	**636.3**

[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 29. Energy Price and Expenditure Estimates by Source, 1970-1995, Arkansas

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**	**0.98**	**0.72**	**1.63**	**2.74**	**0.43**	**[R] 1.41**	**[R] 2.00**	**—**	**—**	**[R] 1.03**	**0.26**	**4.78**	**[R] 1.53**
1971	—	0.42	0.42	0.40	1.04	0.75	1.73	2.84	0.59	[R] 1.37	[R] 2.01	—	—	[R] 1.14	0.33	4.96	[R] 1.66
1972	—	0.46	0.46	0.44	1.03	0.75	1.63	2.77	0.63	[R] 1.49	[R] 1.89	—	—	1.17	0.40	5.21	[R] 1.71
1973	—	0.64	0.64	0.49	1.27	0.89	2.59	2.96	0.72	[R] 1.55	[R] 2.04	—	—	1.31	0.52	5.45	[R] 1.82
1974	—	0.91	0.91	0.60	2.18	1.54	2.93	4.09	1.61	[R] 2.44	[R] 2.93	0.25	—	[R] 1.91	1.00	6.82	[R] 2.52
1975	**—**	**1.22**	**1.22**	**0.79**	**2.39**	**2.01**	**3.12**	**4.60**	**1.72**	**[R] 2.89**	**[R] 3.34**	**0.24**	**—**	**2.11**	**0.72**	**7.80**	**[R] 3.00**
1976	—	1.47	1.47	0.93	2.49	2.12	3.72	4.82	1.85	[R] 2.94	[R] 3.45	0.22	—	[R] 2.34	1.12	8.96	[R] 3.33
1977	—	1.34	1.34	1.42	2.89	2.48	4.04	5.15	1.97	[R] 3.19	[R] 3.60	0.22	—	[R] 2.64	1.30	9.92	[R] 3.87
1978	—	1.22	1.22	1.43	2.95	2.86	3.63	5.30	1.91	[R] 3.41	[R] 3.67	0.24	—	[R] 2.67	1.23	10.30	[R] 4.07
1979	—	1.24	1.24	1.50	4.19	3.96	5.49	7.06	2.46	[R] 4.31	[R] 4.95	0.31	—	[R] 3.29	1.48	10.54	[R] 4.74
1980	**—**	**1.44**	**1.44**	**2.27**	**6.04**	**6.34**	**6.97**	**9.93**	**3.23**	**[R] 6.23**	**[R] 7.63**	**0.54**	**—**	**[R] 4.39**	**1.46**	**12.77**	**[R] 6.71**
1981	—	1.59	1.59	2.81	7.29	7.47	6.58	11.04	4.25	[R] 8.31	[R] 9.03	0.65	—	4.79	1.49	13.77	[R] 7.58
1982	—	1.77	1.77	3.40	7.50	7.09	7.46	10.39	3.88	[R] 7.67	[R] 8.78	0.67	—	[R] 4.96	1.56	15.74	[R] 8.00
1983	—	1.74	1.74	3.75	6.56	6.52	7.95	8.82	3.88	[R] 7.42	[R] 7.81	0.75	—	4.50	1.62	17.01	[R] 7.92
1984	—	1.82	1.82	3.92	6.57	6.25	7.97	8.55	4.60	[R] 8.56	7.84	0.78	—	4.46	1.54	17.13	8.01
1985	**—**	**1.60**	**1.60**	**3.83**	**6.33**	**5.96**	**[R] 8.69**	**8.80**	**4.01**	**[R] 7.88**	**[R] 7.77**	**0.77**	**—**	**[R] 4.19**	**1.36**	**18.24**	**[R] 8.13**
1986	—	1.58	1.58	3.53	5.10	3.93	[R] 7.67	6.84	2.37	[R] 7.95	[R] 6.26	0.71	—	3.57	1.32	19.61	[R] 7.57
1987	—	1.57	1.57	3.34	5.73	4.07	[R] 7.42	7.28	2.74	[R] 7.26	6.68	0.75	—	[R] 3.63	1.28	19.00	[R] 8.04
1988	—	1.60	1.60	3.43	5.31	3.66	[R] 7.84	7.13	3.08	[R] 6.65	[R] 6.43	0.74	—	3.68	1.34	18.74	[R] 7.50
1989	—	1.64	1.64	3.39	6.06	4.27	[R] 7.30	7.69	2.95	[R] 7.81	[R] 7.03	0.75	—	3.92	1.39	19.04	[R] 7.74
1990	**—**	**1.62**	**1.62**	**3.27**	**7.24**	**5.90**	**[R] 10.32**	**8.86**	**2.55**	**[R] 8.53**	**[R] 8.29**	**0.73**	**[d R] 1.47**	**[d] 4.07**	**1.32**	**19.78**	**[d R] 8.38**
1991	—	1.61	1.61	3.36	7.04	5.01	[R] 11.42	8.81	2.30	[R] 8.44	[R] 8.24	0.70	1.55	3.98	1.27	19.76	[R] 8.52
1992	—	1.66	1.66	3.44	6.77	4.52	[R] 10.35	8.69	2.00	[R] 7.36	[R] 7.96	0.64	1.55	4.02	1.31	19.81	[R] 8.34
1993	—	1.71	1.71	3.78	6.82	4.45	[R] 9.77	8.56	2.08	[R] 7.01	[R] 7.86	0.56	1.49	4.07	1.28	19.60	[R] 8.38
1994	—	1.61	1.61	3.68	6.80	4.30	[R] 7.93	8.58	2.37	[R] 8.02	[R] 7.77	0.48	1.50	[R] 3.95	1.19	18.86	[R] 8.17
1995	**—**	**1.62**	**1.62**	**3.06**	**6.75**	**4.28**	**7.80**	**8.69**	**2.23**	**7.86**	**7.87**	**0.52**	**1.50**	**3.87**	**1.27**	**18.62**	**7.93**
	Expenditures in Million Nominal Dollars																
1970	**—**	**—**	**—**	**133.8**	**31.1**	**8.5**	**62.4**	**323.7**	**2.4**	**[R] 38.3**	**[R] 466.4**	**—**	**—**	**[R] 600.1**	**-29.3**	**217.4**	**[R] 788.3**
1971	—	(s)	(s)	123.0	33.1	9.3	69.4	354.8	10.6	[R] 44.4	[R] 521.6	—	—	[R] 644.7	-34.7	239.5	[R] 849.4
1972	—	(s)	(s)	128.4	47.8	8.8	72.6	374.7	21.9	[R] 47.3	[R] 573.2	—	—	[R] 701.6	-40.6	277.0	[R] 938.0
1973	—	1.4	1.4	149.0	72.7	9.7	104.2	418.8	42.4	[R] 57.8	[R] 705.6	—	—	[R] 856.1	-49.3	312.6	[R] 1,119.4
1974	—	2.4	2.4	159.1	130.4	16.9	107.9	580.2	105.3	[R] 84.1	[R] 1,024.7	1.0	—	[R] 1,187.3	-87.0	392.0	[R] 1,492.3
1975	**—**	**1.1**	**1.1**	**185.8**	**133.2**	**21.7**	**109.4**	**666.5**	**97.6**	**[R] 94.4**	**[R] 1,122.8**	**12.7**	**—**	**[R] 1,322.3**	**-82.2**	**480.4**	**[R] 1,720.5**
1976	—	5.3	5.3	214.5	146.4	21.9	134.0	737.4	153.1	[R] 104.7	[R] 1,297.6	9.6	—	[R] 1,526.8	-126.5	626.3	[R] 2,026.7
1977	—	7.0	7.0	307.1	198.0	27.2	133.7	806.2	220.0	[R] 126.3	[R] 1,511.5	12.3	—	[R] 1,837.9	-195.2	774.8	[R] 2,417.6
1978	—	27.8	27.8	287.4	209.8	29.8	89.3	852.6	206.0	[R] 147.7	[R] 1,535.1	14.0	—	[R] 1,864.3	-205.7	839.4	[R] 2,498.1
1979	—	39.4	39.4	345.6	354.1	41.3	101.1	921.2	177.3	[R] 191.0	[R] 1,786.2	13.2	—	[R] 2,184.4	-216.7	885.2	[R] 2,852.9
1980	**—**	**52.6**	**52.6**	**581.7**	**376.2**	**70.0**	**123.7**	**1,381.9**	**100.3**	**[R] 259.2**	**[R] 2,311.3**	**46.0**	**—**	**[R] 2,991.6**	**-286.3**	**1,149.8**	**[R] 3,855.1**
1981	—	161.7	161.7	672.1	554.7	70.7	90.1	1,525.5	64.1	[R] 284.5	[R] 2,589.5	65.5	—	[R] 3,488.8	-379.5	1,053.1	[R] 4,162.4
1982	—	221.2	221.2	678.9	571.7	77.6	109.3	1,415.6	40.0	[R] 233.4	[R] 2,447.7	55.7	—	[R] 3,403.6	-368.4	1,159.4	[R] 4,194.6
1983	—	309.4	309.4	697.9	501.4	56.5	117.7	1,204.7	17.2	[R] 321.5	[R] 2,219.1	62.6	—	[R] 3,289.0	-465.2	1,306.4	[R] 4,130.2
1984	—	298.9	298.9	728.4	532.7	68.5	90.9	1,227.2	12.7	[R] 306.3	[R] 2,238.2	91.7	—	[R] 3,357.2	-460.8	1,388.6	[R] 4,285.0
1985	**—**	**351.1**	**351.1**	**636.9**	**550.0**	**65.7**	**[R] 114.9**	**1,235.5**	**17.0**	**[R] 183.6**	**[R] 2,166.7**	**82.8**	**—**	**[R] 3,237.5**	**-451.4**	**1,440.1**	**[R] 4,226.1**
1986	—	354.7	354.7	613.0	393.8	41.1	[R] 106.0	1,001.9	11.1	[R] 136.0	[R] 1,689.9	68.0	—	[R] 2,725.6	-454.4	1,490.5	[R] 3,761.7
1987	—	330.7	330.7	486.6	448.4	45.8	[R] 95.0	1,089.6	3.4	[R] 129.9	[R] 1,812.1	91.6	—	[R] 2,721.0	-459.1	1,521.8	[R] 3,783.6
1988	—	349.4	349.4	632.7	438.6	44.5	[R] 101.6	1,108.1	5.8	[R] 132.9	[R] 1,831.6	70.4	—	[R] 2,884.2	-445.9	1,570.6	[R] 4,008.9
1989	—	332.8	332.8	724.6	512.6	45.2	[R] 101.7	1,187.7	5.5	[R] 124.6	[R] 1,977.3	71.4	—	[R] 3,106.0	-448.2	1,644.7	[R] 4,302.5
1990	**—**	**344.9**	**344.9**	**665.3**	**601.3**	**54.5**	**[R] 129.5**	**1,341.8**	**2.7**	**[R] 124.1**	**[R] 2,254.0**	**88.3**	**[d R] 33.3**	**[d R] 3,385.8**	**-476.2**	**1,789.8**	**[d R] 4,699.3**
1991	—	346.9	346.9	635.2	552.5	48.8	[R] 136.5	1,342.2	1.1	[R] 113.4	[R] 2,194.6	95.4	[R] 36.5	[R] 3,308.6	-473.8	[R] 1,859.5	[R] 4,694.3
1992	—	366.3	366.3	675.5	604.6	28.0	[R] 112.9	1,342.6	0.2	[R] 132.1	[R] 2,220.3	77.7	[R] 36.5	[R] 3,376.2	-475.8	1,863.5	[R] 4,763.9
1993	—	342.5	342.5	762.8	621.8	25.2	[R] 122.4	1,369.9	2.0	[R] 139.2	[R] 2,280.6	81.5	[R] 37.6	[R] 3,504.9	-460.9	[R] 2,041.2	[R] 5,085.3
1994	—	357.3	357.3	[R] 790.7	679.8	39.0	[R] 97.4	1,391.9	3.9	[R] 140.8	[R] 2,352.8	72.0	[R] 36.9	[R] 3,609.7	-464.3	2,003.1	[R] 5,148.5
1995	**—**	**384.0**	**384.0**	**731.7**	**650.6**	**28.5**	**91.2**	**1,466.5**	**2.4**	**145.5**	**2,384.8**	**65.2**	**44.2**	**3,609.8**	**-494.4**	**2,102.9**	**5,218.3**

[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 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.
(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 30. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Arkansas

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**—**	**0.75**	**0.93**	**1.40**	**1.84**	**1.81**	**—**	**1.07**	**6.82**	**1.91**
1971	—	0.78	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	7.08	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	3.08	3.02	—	1.76	8.46	3.32
1975	**—**	**1.12**	**2.40**	**2.80**	**3.51**	**3.44**	**—**	**1.82**	**9.35**	**3.90**
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	—	2.69	11.91	5.41
1978	2.91	1.96	2.97	3.60	3.77	3.69	—	2.40	12.42	5.72
1979	—	1.54	4.57	5.13	6.82	6.35	—	2.53	12.89	5.86
1980	**2.97**	**2.49**	**6.54**	**—**	**8.77**	**8.54**	**—**	**3.45**	**15.58**	**8.14**
1981	2.74	3.06	8.06	9.38	7.17	7.26	—	3.63	16.55	8.39
1982	3.30	3.84	7.61	9.33	8.75	8.76	—	4.45	19.15	9.83
1983	2.54	4.32	5.07	8.28	8.94	8.67	—	5.26	21.20	10.84
1984	3.27	4.29	7.55	8.09	8.61	8.40	—	5.07	21.12	10.55
1985	**3.19**	**4.35**	**10.33**	**11.07**	**8.46**	**8.52**	**—**	**5.01**	**21.91**	**11.53**
1986	—	4.77	4.38	4.70	7.36	7.31	—	5.22	22.68	12.19
1987	2.88	4.57	5.30	5.68	7.42	7.39	—	4.99	22.46	12.15
1988	2.62	4.78	4.71	5.05	7.93	7.86	—	5.21	22.31	12.11
1989	2.64	4.83	4.95	5.30	6.97	6.93	—	5.15	22.78	12.27
1990	**2.70**	**5.06**	**7.69**	**8.24**	**10.78**	**10.74**	**[d] 3.53**	**[d] 5.80**	**[R] 23.64**	**[d R] 12.80**
1991	2.81	4.90	7.11	7.62	12.15	12.09	3.53	5.73	[R] 23.75	[R] 12.87
1992	2.69	5.07	4.99	5.34	10.66	10.54	3.53	5.64	[R] 24.27	[R] 12.93
1993	2.73	5.31	5.68	6.09	9.91	9.87	3.53	5.77	[R] 24.24	[R] 13.06
1994	2.83	5.59	5.38	5.76	[R] 10.00	[R] 9.97	3.53	[R] 6.04	23.66	[R] 13.22
1995	**—**	**5.06**	**5.20**	**5.57**	**10.26**	**10.18**	**3.53**	**5.54**	**23.40**	**12.95**
	Expenditures in Million Nominal Dollars									
1970	**—**	**45.1**	**0.4**	**1.2**	**45.6**	**47.2**	**—**	**92.3**	**100.5**	**192.8**
1971	—	38.4	0.4	0.9	51.2	52.4	—	90.8	111.8	202.6
1972	—	39.2	0.9	0.7	50.8	52.4	—	91.6	132.5	224.1
1973	—	42.6	1.2	2.2	83.0	86.4	—	129.1	147.3	276.4
1974	—	46.8	2.8	2.5	68.5	73.9	—	120.6	175.6	296.2
1975	**—**	**54.2**	**2.2**	**2.0**	**67.4**	**71.7**	**—**	**125.8**	**247.4**	**373.2**
1976	—	60.5	2.8	2.0	89.0	93.8	—	154.3	283.3	437.7
1977	(s)	97.1	3.9	3.5	89.0	96.3	—	193.5	358.1	551.6
1978	0.1	94.0	3.9	4.7	51.2	59.8	—	153.8	395.1	548.9
1979	—	78.3	11.1	2.1	70.3	83.5	—	161.7	389.7	551.4
1980	**0.1**	**115.9**	**5.8**	**—**	**69.0**	**74.8**	**—**	**190.8**	**543.7**	**734.6**
1981	(s)	130.2	0.9	2.2	45.4	48.6	—	178.8	475.9	654.7
1982	0.1	171.7	0.6	2.7	52.3	55.6	—	227.4	563.1	790.5
1983	(s)	188.6	(s)	41.5	63.5	105.0	—	293.6	636.5	930.1
1984	0.1	200.7	(s)	35.6	56.1	91.8	—	292.6	631.6	924.2
1985	**(s)**	**177.9**	**(s)**	**1.9**	**63.5**	**65.5**	**—**	**243.5**	**667.9**	**911.3**
1986	—	186.2	(s)	0.7	61.6	62.3	—	248.5	716.2	964.7
1987	(s)	185.5	(s)	0.7	52.1	52.8	—	238.3	743.8	982.1
1988	(s)	206.2	(s)	0.7	54.3	55.1	—	261.3	757.0	1,018.3
1989	0.1	205.2	(s)	0.9	52.4	53.3	—	258.6	774.0	1,032.6
1990	**(s)**	**199.9**	**(s)**	**0.9**	**72.3**	**73.3**	**[d] 6.8**	**[d] 279.9**	**[R] 851.7**	**[d R] 1,131.6**
1991	(s)	202.4	(s)	0.6	73.5	74.1	7.1	283.7	[R] 891.6	[R] 1,175.2
1992	0.1	201.3	0.4	0.2	57.9	58.5	7.5	267.4	[R] 864.6	[R] 1,132.0
1993	(s)	245.0	(s)	0.3	61.0	61.4	6.7	313.1	[R] 972.8	[R] 1,285.9
1994	(s)	237.1	(s)	0.2	[R] 60.6	[R] 60.9	6.5	[R] 304.5	[R] 939.9	[R] 1,244.4
1995	**—**	**225.3**	**0.1**	**0.4**	**55.7**	**56.1**	**7.2**	**288.7**	**991.4**	**1,280.0**

[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.

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 31. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Arkansas

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**—**	**0.52**	**0.86**	**0.77**	**1.23**	**2.74**	**0.42**	**1.37**	**0.64**	**6.07**	**1.58**
1971	—	0.55	0.92	0.82	1.32	2.84	0.60	1.41	0.69	6.26	1.89
1972	—	0.57	0.93	0.82	1.35	2.77	0.66	1.31	0.71	6.47	1.95
1973	—	0.62	1.21	1.09	1.43	2.96	0.72	1.28	0.76	6.60	2.02
1974	—	0.76	2.14	2.09	2.71	4.09	1.66	2.23	1.15	7.87	2.61
1975	**—**	**0.90**	**2.29**	**2.32**	**2.64**	**4.60**	**1.75**	**2.23**	**1.25**	**8.60**	**3.08**
1976	—	1.02	2.42	2.36	2.85	4.82	1.90	2.40	1.39	10.02	3.53
1977	1.34	1.58	2.79	3.03	3.27	5.15	2.03	2.70	1.86	11.25	4.33
1978	1.71	1.63	2.84	3.11	3.46	5.30	1.91	2.72	1.88	11.71	4.60
1979	—	2.22	4.37	3.92	3.80	7.06	2.57	3.47	2.51	12.19	5.21
1980	**1.89**	**2.29**	**6.25**	**5.51**	**5.54**	**9.93**	**3.33**	**5.24**	**2.80**	**14.74**	**6.73**
1981	2.07	2.83	7.71	6.53	6.08	11.04	3.58	7.00	3.38	13.91	6.92
1982	2.13	3.64	7.28	8.19	6.57	10.39	3.96	7.14	4.06	16.34	8.23
1983	2.19	4.09	6.07	6.88	7.03	8.82	3.74	6.51	5.13	18.15	8.51
1984	2.08	4.10	6.14	8.38	7.12	8.55	4.61	7.33	5.45	18.79	9.08
1985	**2.12**	**4.06**	**6.13**	**7.95**	**[R] 9.00**	**8.80**	**—**	**[R] 6.81**	**[R] 4.76**	**19.06**	**[R] 9.82**
1986	—	4.33	3.59	4.80	[R] 8.15	6.84	2.42	[R] 6.29	[R] 4.55	19.70	[R] 10.83
1987	2.02	4.21	4.04	5.60	[R] 7.41	7.28	—	[R] 5.63	[R] 4.41	19.06	10.55
1988	2.04	4.31	3.63	4.98	[R] 7.75	7.13	—	[R] 5.79	[R] 4.47	19.11	10.51
1989	1.98	4.36	4.15	5.90	[R] 7.70	7.69	—	[R] 5.66	[R] 4.54	19.64	[R] 10.77
1990	**1.99**	**4.43**	**5.47**	**7.55**	**[R] 9.80**	**8.86**	**—**	**[R] 7.17**	**[R] 4.84**	**20.40**	**[R] 11.58**
1991	1.86	4.28	4.79	6.60	[R] 10.67	8.81	—	[R] 7.08	[R] 4.61	[R] 20.34	[R] 11.55
1992	1.86	4.35	4.45	6.29	[R] 10.05	8.69	2.00	[R] 6.39	[R] 4.60	[R] 20.76	[R] 11.74
1993	1.88	4.37	4.32	6.13	[R] 9.63	8.56	2.08	[R] 6.04	[R] 4.55	[R] 20.60	[R] 11.44
1994	1.78	4.48	4.00	[R] 5.79	[R] 8.63	8.58	—	[R] 5.51	[R] 4.60	[R] 20.07	[R] 11.47
1995	**—**	**3.77**	**4.09**	**5.76**	**9.04**	**8.69**	**—**	**6.21**	**3.97**	**19.96**	**11.18**
	Expenditures in Million Nominal Dollars										
1970	**—**	**20.6**	**0.2**	**0.4**	**5.4**	**2.6**	**0.1**	**8.7**	**29.3**	**57.8**	**87.1**
1971	—	16.9	0.2	0.3	6.1	2.0	0.2	8.8	25.7	63.7	89.4
1972	—	18.5	0.5	0.2	6.8	1.9	0.9	10.2	28.7	71.0	99.7
1973	—	20.9	0.6	0.9	6.4	2.0	2.2	12.2	33.0	77.9	111.0
1974	—	23.5	1.5	1.2	10.7	2.7	8.8	24.9	48.3	92.3	140.7
1975	**—**	**29.7**	**1.2**	**1.0**	**8.9**	**3.5**	**11.9**	**26.5**	**56.2**	**128.6**	**184.7**
1976	—	34.6	1.5	1.0	10.2	3.7	13.5	29.9	64.6	153.5	218.0
1977	(s)	54.7	2.1	1.9	11.2	3.9	12.5	31.6	86.4	185.7	272.1
1978	0.1	56.2	2.1	2.5	8.3	5.0	10.7	28.6	84.9	202.1	287.0
1979	—	75.5	6.0	1.0	6.9	6.7	15.2	35.8	111.4	208.1	319.5
1980	**0.2**	**69.9**	**4.1**	**4.1**	**7.7**	**8.5**	**9.2**	**33.5**	**103.5**	**267.8**	**371.3**
1981	(s)	79.6	7.9	2.1	6.8	10.0	3.3	30.1	109.7	228.5	338.3
1982	0.1	106.8	5.9	3.5	6.9	9.1	3.5	28.9	135.8	280.6	416.4
1983	(s)	115.8	53.6	67.1	8.8	6.1	2.7	138.2	254.0	315.8	569.8
1984	0.1	121.1	53.3	89.6	8.2	4.1	2.2	157.3	278.6	358.4	637.0
1985	**(s)**	**110.5**	**41.8**	**3.8**	**[R] 11.9**	**5.5**	**—**	**[R] 63.0**	**[R] 173.5**	**380.4**	**[R] 553.9**
1986	—	109.5	3.9	0.2	[R] 12.0	4.2	0.1	[R] 20.4	[R] 129.9	397.5	[R] 527.4
1987	(s)	104.8	8.5	0.2	[R] 9.2	5.0	—	[R] 22.8	[R] 127.6	398.8	[R] 526.4
1988	(s)	119.2	5.4	0.3	[R] 9.4	4.6	—	[R] 19.7	[R] 138.8	417.0	[R] 555.8
1989	0.1	119.4	10.6	0.1	[R] 10.2	4.4	—	[R] 25.3	[R] 144.8	440.0	[R] 584.8
1990	**(s)**	**112.1**	**14.0**	**0.1**	**[R] 11.6**	**6.6**	**—**	**[R] 32.2**	**[R] 144.3**	**[R] 465.1**	**[R] 609.4**
1991	(s)	113.0	9.5	0.1	[R] 11.4	3.7	—	[R] 24.7	[R] 137.8	[R] 480.4	[R] 618.2
1992	(s)	110.9	9.8	0.2	[R] 9.6	3.3	0.1	[R] 22.9	[R] 133.8	[R] 478.8	[R] 612.6
1993	(s)	128.2	10.7	0.2	[R] 10.5	1.3	(s)	[R] 22.7	[R] 150.9	[R] 512.5	[R] 663.4
1994	(s)	125.5	10.1	0.1	[R] 9.2	1.3	—	[R] 20.8	[R] 146.3	[R] 510.2	[R] 656.5
1995	**—**	**112.1**	**5.9**	**0.1**	**8.6**	**1.3**	**—**	**16.1**	**128.2**	**529.4**	**657.5**

[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.
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, 1970-1995, Arkansas

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**—**	**—**	**0.28**	**0.68**	**0.67**	**0.77**	**1.23**	**5.08**	**2.74**	**0.45**	**R 1.33**	**R 1.04**	**—**	**0.46**	**2.78**	**R 0.70**
1971	—	0.42	0.42	0.31	0.73	0.71	0.82	1.32	5.27	2.84	0.58	R 1.18	R 1.08	—	R 0.50	2.92	0.75
1972	—	0.46	0.46	0.35	0.77	0.71	0.82	1.35	5.58	2.77	0.59	R 1.32	R 1.06	—	R 0.55	3.14	R 0.83
1973	—	0.64	0.64	0.40	0.82	0.94	1.09	1.43	5.33	2.96	0.76	R 1.52	R 1.15	—	0.61	3.56	0.88
1974	—	0.91	0.91	0.48	1.39	1.82	2.09	2.71	7.22	4.09	1.52	R 2.45	R 1.97	—	0.97	4.96	R 1.37
1975	**—**	**1.22**	**1.22**	**0.68**	**1.81**	**2.09**	**2.32**	**2.64**	**7.48**	**4.60**	**1.63**	**R 2.91**	**R 2.23**	**—**	**R 1.28**	**5.18**	**R 1.64**
1976	—	1.47	1.47	0.82	1.85	2.05	2.36	2.85	7.05	4.82	1.66	R 3.10	R 2.29	—	R 1.38	6.74	R 2.00
1977	—	1.34	1.34	1.19	2.01	2.59	3.03	3.27	6.97	5.15	1.81	R 3.42	R 2.59	—	R 1.75	7.33	R 2.46
1978	—	1.71	1.71	1.16	2.21	2.65	3.11	3.46	7.60	—	1.84	R 3.59	R 2.72	—	R 1.84	7.47	R 2.61
1979	—	1.59	1.59	1.21	2.58	3.54	3.92	3.80	10.21	7.06	2.29	R 4.82	R 3.44	—	2.23	7.84	R 3.03
1980	**—**	**1.89**	**1.89**	**2.24**	**3.58**	**4.87**	**5.51**	**5.54**	**14.36**	**9.93**	**2.95**	**R 7.11**	**R 5.07**	**—**	**R 3.28**	**9.15**	**R 4.20**
1981	—	2.07	2.07	2.78	4.77	5.83	6.53	6.08	18.00	11.04	4.63	R 9.07	R 6.36	—	R 4.09	11.14	R 5.08
1982	—	2.13	2.13	3.25	4.12	7.14	8.19	6.57	17.25	10.39	3.87	R 8.12	R 6.50	—	R 4.53	11.66	5.52
1983	—	2.19	2.19	3.56	4.28	6.34	6.88	7.03	16.98	8.82	3.92	R 7.39	R 6.30	—	R 4.61	12.04	5.82
1984	—	2.08	2.08	3.81	4.23	6.41	8.38	7.12	17.63	8.55	4.61	R 7.25	R 6.80	—	4.82	12.42	6.19
1985	**—**	**2.12**	**2.12**	**3.65**	**4.21**	**6.09**	**7.95**	**R 9.00**	**17.61**	**8.80**	**4.01**	**R 7.03**	**R 6.43**	**—**	**R 4.72**	**13.74**	**R 6.08**
1986	—	2.04	2.04	3.40	4.62	3.67	4.80	R 8.15	15.59	6.84	2.42	R 6.86	R 4.79	—	R 3.87	15.53	R 5.56
1987	—	2.02	2.02	3.10	3.33	4.29	5.60	R 7.41	R 13.58	7.28	2.74	R 7.24	R 5.21	—	R 4.04	14.56	R 6.16
1988	—	2.04	2.04	3.04	3.27	3.81	4.98	R 7.75	R 14.62	7.13	2.49	R 6.33	R 4.78	—	R 3.62	14.14	R 5.27
1989	—	1.98	1.98	3.08	2.90	4.51	5.90	R 7.70	14.48	7.69	2.68	R 7.39	R 5.58	—	R 3.68	14.34	R 5.35
1990	**—**	**1.99**	**1.99**	**2.86**	**3.01**	**5.78**	**7.55**	**R 9.80**	**14.60**	**8.86**	**2.54**	**R 7.11**	**R 6.66**	**d R 1.28**	**d R 3.51**	**R 14.94**	**d R 5.29**
1991	—	1.86	1.86	3.01	3.22	5.06	6.60	R 10.67	R 16.80	8.81	2.30	R 5.70	R 6.49	1.36	3.48	R 14.79	R 5.47
1992	—	1.86	1.86	3.11	2.23	4.81	6.29	R 10.05	R 18.32	8.69	2.00	R 6.56	R 5.69	R 1.35	R 3.53	R 14.71	R 5.37
1993	—	1.88	1.88	3.27	2.70	4.69	6.13	R 9.63	R 18.96	8.56	2.08	R 5.62	R 5.51	1.33	R 3.54	R 14.21	R 5.42
1994	—	1.78	1.78	3.21	2.72	4.43	5.79	R 5.05	R 19.11	8.58	2.31	R 6.34	R 5.15	1.34	R 3.36	13.48	R 5.13
1995	**—**	**1.82**	**1.82**	**2.57**	**2.92**	**4.41**	**5.76**	**4.94**	**19.40**	**8.69**	**2.26**	**6.53**	**5.18**	**1.35**	**2.91**	**13.22**	**4.70**
	Expenditures in Million Nominal Dollars																
1970	**—**	**—**	**—**	**40.7**	**9.4**	**7.7**	**2.6**	**8.2**	**7.1**	**4.2**	**0.5**	**R 5.1**	**R 44.8**	**—**	**R 85.4**	**59.1**	**R 144.5**
1971	—	(s)	(s)	43.3	11.5	7.8	2.0	8.1	7.3	3.9	0.3	R 10.5	R 51.2	—	R 94.5	63.9	R 158.4
1972	—	(s)	(s)	48.6	12.4	11.8	1.9	10.3	8.3	3.6	2.7	R 10.3	R 61.4	—	R 110.0	73.6	R 183.5
1973	—	1.4	1.4	68.2	14.1	17.0	4.2	10.7	8.6	3.0	8.4	R 13.7	R 79.8	—	R 149.4	87.3	R 236.7
1974	—	2.4	2.4	72.8	22.5	34.1	5.8	21.9	11.2	2.7	26.8	R 22.4	R 147.4	—	R 222.6	124.1	R 346.7
1975	**—**	**1.1**	**1.1**	**82.3**	**27.4**	**34.5**	**6.3**	**26.4**	**14.0**	**4.1**	**36.7**	**R 25.2**	**R 174.6**	**—**	**R 257.9**	**104.4**	**R 362.4**
1976	—	5.3	5.3	106.5	30.0	37.7	5.8	26.4	14.6	2.9	36.2	R 32.1	R 185.8	—	R 297.6	189.5	R 487.1
1977	—	6.9	6.9	148.3	33.4	66.3	11.1	24.2	11.3	0.3	34.1	R 41.8	R 222.4	—	R 377.6	231.0	R 608.6
1978	—	11.3	11.3	129.1	39.0	70.4	14.0	20.4	13.3	—	31.9	R 46.9	R 235.8	—	R 376.3	242.3	R 618.6
1979	—	11.7	11.7	138.7	55.0	131.2	8.2	23.3	18.6	0.3	40.9	R 68.7	R 346.2	—	R 496.6	287.4	R 784.0
1980	**—**	**12.0**	**12.0**	**265.8**	**65.9**	**100.5**	**13.7**	**42.8**	**23.3**	**2.7**	**25.9**	**R 102.0**	**R 376.8**	**—**	**R 654.5**	**338.3**	**R 992.8**
1981	—	15.9	15.9	311.4	66.8	155.0	9.5	33.1	28.1	2.2	44.6	R 116.9	R 456.3	—	R 783.6	348.7	R 1,132.2
1982	—	15.8	15.8	297.1	52.3	187.8	17.7	42.3	24.5	1.4	33.6	R 82.4	R 442.1	—	R 755.1	315.7	R 1,070.9
1983	—	20.4	20.4	282.9	52.1	184.1	10.6	35.5	25.3	0.7	13.4	R 73.8	R 395.5	—	R 698.8	354.2	R 1,052.9
1984	—	17.5	17.5	319.2	21.3	182.9	11.2	21.7	28.0	21.8	10.4	R 69.7	R 367.0	—	R 703.6	398.6	R 1,102.2
1985	**—**	**17.0**	**17.0**	**314.5**	**35.3**	**214.2**	**1.9**	**R 34.7**	**26.0**	**29.1**	**16.8**	**R 68.3**	**R 426.3**	**—**	**R 757.8**	**391.8**	**R 1,149.6**
1986	—	15.8	15.8	270.6	30.1	112.4	0.5	R 29.7	22.6	17.3	10.5	R 40.9	R 264.1	—	R 550.5	376.8	R 927.3
1987	—	13.6	13.6	146.0	22.5	116.3	0.6	R 31.7	R 22.2	17.9	3.4	R 44.4	R 259.0	—	R 418.7	379.1	R 797.8
1988	—	11.7	11.7	276.7	29.8	110.3	0.4	R 35.8	23.0	16.9	2.6	R 37.7	R 256.7	—	R 545.1	396.7	R 941.7
1989	—	11.8	11.8	350.3	15.0	95.1	0.5	R 37.1	23.4	14.5	2.7	R 42.7	R 231.0	—	R 593.1	430.7	R 1,023.7
1990	**—**	**11.6**	**11.6**	**303.0**	**9.9**	**120.0**	**0.7**	**R 42.5**	**24.3**	**19.3**	**2.5**	**R 43.2**	**R 262.4**	**d R 26.5**	**d R 603.6**	**R 472.9**	**d R 1,076.5**
1991	—	12.8	12.8	279.7	11.4	78.7	0.7	R 48.6	25.0	21.0	1.1	R 28.9	R 215.5	29.4	R 537.3	R 487.5	R 1,024.9
1992	—	13.2	13.2	320.8	17.4	123.0	0.3	R 43.1	R 27.8	20.0	0.2	R 34.7	R 266.6	R 29.0	R 629.5	R 520.1	R 1,149.6
1993	—	14.6	14.6	341.5	26.1	103.8	0.5	R 48.5	29.3	17.7	1.9	R 30.1	R 257.8	R 30.9	R 644.8	R 555.9	R 1,200.7
1994	—	15.3	15.3	R 381.4	19.2	92.7	0.6	R 23.7	R 30.9	19.2	3.0	R 33.7	R 222.9	R 30.4	R 650.1	553.1	R 1,203.2
1995	**—**	**14.1**	**14.1**	**337.4**	**24.1**	**85.6**	**0.7**	**25.3**	**30.8**	**20.5**	**2.2**	**33.7**	**222.9**	**36.9**	**611.4**	**582.2**	**1,193.5**

[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=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 33. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Arkansas

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**—**	**—**	**2.17**	**1.16**	**0.72**	**1.23**	**5.08**	**2.74**	**0.40**	**2.38**	**2.38**	**—**	**2.38**
1971	0.42	—	2.21	1.22	0.75	1.32	5.27	2.84	—	2.47	2.47	—	2.47
1972	0.46	—	2.19	1.23	0.75	1.35	5.58	2.77	—	2.39	2.39	—	2.39
1973	0.64	—	2.36	1.44	0.89	1.43	5.33	2.96	0.70	2.55	2.55	—	2.55
1974	0.91	—	3.23	2.35	1.54	2.71	7.22	4.09	1.56	3.61	3.61	—	3.61
1975	**1.22**	**—**	**3.45**	**2.53**	**2.01**	**2.64**	**7.48**	**4.60**	**1.57**	**4.06**	**4.06**	**—**	**4.06**
1976	1.47	—	3.59	2.69	2.12	2.85	7.05	4.82	—	4.28	4.28	—	4.28
1977	1.34	—	3.97	3.09	2.48	3.27	6.97	5.15	1.89	4.62	4.62	—	4.62
1978	—	—	4.29	3.16	2.86	3.46	7.60	5.30	1.77	4.78	4.78	—	4.78
1979	—	—	5.73	4.73	3.96	3.80	10.21	7.06	—	6.39	6.39	—	6.39
1980	**—**	**—**	**9.02**	**6.70**	**6.34**	**5.54**	**14.36**	**9.93**	**—**	**9.11**	**9.11**	**—**	**9.11**
1981	—	—	10.84	8.10	7.47	6.08	18.00	11.04	—	10.23	10.23	—	10.23
1982	—	—	10.92	7.70	7.09	6.57	17.25	10.39	—	9.61	9.61	—	9.61
1983	—	—	10.44	6.83	6.52	7.03	16.98	8.82	—	8.41	8.41	—	8.41
1984	—	—	10.27	6.75	6.25	7.12	17.63	8.55	—	8.14	8.14	—	8.14
1985	**—**	**—**	**9.99**	**6.56**	**5.96**	**[R] 9.00**	**17.61**	**8.80**	**—**	**8.24**	**8.24**	**—**	**8.24**
1986	—	—	8.41	6.09	3.93	[R] 8.15	15.59	6.84	—	6.63	6.63	—	6.63
1987	—	—	7.55	6.59	4.07	[R] 7.41	[R] 13.58	7.28	—	[R] 7.02	[R] 7.02	—	[R] 7.02
1988	—	—	7.41	6.21	3.66	[R] 7.75	[R] 14.62	7.13	—	6.81	6.81	—	6.81
1989	—	—	8.28	6.71	4.27	[R] 7.70	14.48	7.69	—	7.35	7.35	—	7.35
1990	**—**	**—**	**9.32**	**7.87**	**5.90**	**[R] 9.80**	**14.60**	**8.86**	**—**	**8.54**	**8.54**	**—**	**8.54**
1991	—	—	8.71	7.64	5.01	[R] 10.67	[R] 16.80	8.81	—	8.42	8.42	—	8.42
1992	—	—	8.54	7.69	4.52	[R] 10.05	[R] 18.32	8.69	—	[R] 8.41	[R] 8.41	—	[R] 8.41
1993	—	—	8.24	7.65	4.45	[R] 9.63	[R] 18.96	8.56	—	[R] 8.32	[R] 8.32	—	[R] 8.32
1994	—	[R] 4.20	7.96	7.58	4.30	[R] 8.40	[R] 19.11	8.58	—	8.23	8.23	—	8.23
1995	**—**	**3.64**	**8.36**	**7.43**	**4.28**	**8.70**	**19.40**	**8.69**	**—**	**8.31**	**8.31**	**—**	**8.31**
	Expenditures in Million Nominal Dollars												
1970	**—**	**—**	**3.2**	**22.8**	**8.5**	**3.2**	**9.2**	**316.9**	**(s)**	**363.9**	**363.9**	**—**	**363.9**
1971	(s)	—	3.2	24.6	9.3	4.1	8.9	348.9	—	399.0	399.0	—	399.0
1972	(s)	—	3.5	34.5	8.8	4.7	10.0	369.2	—	430.7	430.7	—	430.7
1973	(s)	—	3.5	53.7	9.7	4.1	10.5	413.7	(s)	495.3	495.3	—	495.3
1974	(s)	—	4.8	91.7	16.9	6.8	13.7	574.7	0.1	708.8	708.8	—	708.8
1975	**(s)**	**—**	**4.4**	**94.4**	**21.7**	**6.7**	**14.0**	**658.9**	**0.1**	**800.2**	**800.2**	**—**	**800.2**
1976	(s)	—	4.4	103.7	21.9	8.4	14.7	730.9	—	883.9	883.9	—	883.9
1977	(s)	—	5.2	123.1	27.2	9.4	18.3	802.0	(s)	985.3	985.3	—	985.3
1978	—	—	5.9	129.3	29.8	9.5	21.4	847.7	0.1	1,043.6	1,043.6	—	1,043.6
1979	—	—	7.3	204.4	41.3	0.7	30.0	914.3	—	1,198.0	1,198.0	—	1,198.0
1980	**—**	**—**	**12.5**	**261.3**	**70.0**	**4.2**	**37.6**	**1,370.7**	**—**	**1,756.4**	**1,756.4**	**—**	**1,756.4**
1981	—	—	13.6	389.6	70.7	4.8	45.2	1,513.2	—	2,037.2	2,037.2	—	2,037.2
1982	—	—	10.6	376.3	77.6	7.7	39.5	1,405.1	—	1,916.9	1,916.9	—	1,916.9
1983	—	—	10.6	261.9	56.5	9.8	40.8	1,197.9	—	1,577.4	1,577.4	—	1,577.4
1984	—	—	5.8	296.0	68.5	4.9	45.1	1,201.3	—	1,621.6	1,621.6	—	1,621.6
1985	**—**	**—**	**4.4**	**293.5**	**65.7**	**[R] 4.8**	**42.0**	**1,200.9**	**—**	**[R] 1,611.3**	**[R] 1,611.3**	**—**	**[R] 1,611.3**
1986	—	—	4.7	277.1	41.1	[R] 2.7	36.4	980.4	—	[R] 1,342.4	[R] 1,342.4	—	[R] 1,342.4
1987	—	—	3.5	323.4	45.8	2.0	[R] 35.8	1,066.7	—	[R] 1,477.3	[R] 1,477.3	—	[R] 1,477.3
1988	—	—	3.7	319.1	44.5	[R] 2.1	[R] 37.2	1,086.5	—	[R] 1,493.1	[R] 1,493.1	—	[R] 1,493.1
1989	—	—	4.3	403.2	45.2	[R] 2.0	37.8	1,168.9	—	1,661.3	1,661.3	—	1,661.3
1990	**—**	**—**	**5.9**	**463.2**	**54.5**	**[R] 3.0**	**39.2**	**1,316.0**	**—**	**[R] 1,881.8**	**[R] 1,881.8**	**—**	**[R] 1,881.8**
1991	—	—	6.3	460.0	48.8	[R] 3.0	40.3	1,317.5	—	[R] 1,876.0	[R] 1,876.0	—	[R] 1,876.0
1992	—	—	6.6	468.8	28.0	[R] 2.3	[R] 44.8	1,319.3	—	[R] 1,869.7	[R] 1,869.7	—	[R] 1,869.7
1993	—	—	5.6	503.9	25.2	[R] 2.4	47.2	1,351.0	—	[R] 1,935.3	[R] 1,935.3	—	[R] 1,935.3
1994	—	[R] (s)	6.3	574.1	39.0	[R] 3.8	[R] 49.8	1,371.4	—	2,044.4	2,044.4	—	2,044.4
1995	**—**	**(s)**	**6.0**	**556.7**	**28.5**	**1.6**	**49.7**	**1,444.7**	**—**	**2,087.2**	**2,087.3**	**—**	**2,087.3**

[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 34. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Arkansas

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**—**	**0.25**	**0.42**	**0.46**	**—**	**0.42**	**—**	**—**	**0.26**
1971	—	0.28	0.59	0.67	—	0.59	—	—	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	1.64	2.02	—	1.64	0.25	—	1.00
1975	**—**	**0.61**	**1.78**	**2.22**	**—**	**1.79**	**0.24**	**—**	**0.72**
1976	—	0.79	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	—	1.48
1980	**1.34**	**2.16**	**3.34**	**4.34**	**—**	**3.39**	**0.54**	**—**	**1.46**
1981	1.55	2.69	3.56	6.18	—	3.67	0.65	—	1.49
1982	1.75	2.99	3.98	6.74	—	4.53	0.67	—	1.56
1983	1.72	3.21	3.75	6.68	—	5.12	0.75	—	1.62
1984	1.81	3.37	3.79	6.44	—	5.93	0.78	—	1.54
1985	**1.58**	**2.82**	**3.84**	**5.86**	**—**	**4.99**	**0.77**	**—**	**1.36**
1986	1.56	1.56	1.65	4.43	—	2.20	0.71	—	1.32
1987	1.55	1.52	2.76	3.86	—	3.86	0.75	—	1.28
1988	1.59	1.35	3.81	5.12	—	4.43	0.74	—	1.34
1989	1.63	1.65	3.26	4.36	—	3.81	0.75	—	1.39
1990	**1.61**	**1.54**	**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	0.56	—	1.28
1994	1.60	1.82	2.62	4.04	—	3.58	0.48	—	1.19
1995	**1.61**	**1.70**	**1.90**	**4.18**	**—**	**3.83**	**0.52**	**—**	**1.27**
	Expenditures in Million Nominal Dollars								
1970	**—**	**27.4**	**1.8**	**(s)**	**—**	**1.9**	**—**	**—**	**29.3**
1971	—	24.5	10.1	0.1	—	10.2	—	—	34.7
1972	—	22.2	18.3	0.1	—	18.5	—	—	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**	**0.8**	**—**	**49.8**	**12.7**	**—**	**82.2**
1976	—	12.8	103.4	0.7	—	104.1	9.6	—	126.5
1977	—	7.0	173.4	2.5	—	175.9	12.3	—	195.2
1978	16.2	8.1	163.3	4.1	—	167.4	14.0	—	205.7
1979	27.7	53.1	121.2	1.4	—	122.6	13.2	—	216.7
1980	**40.3**	**130.1**	**65.3**	**4.5**	**—**	**69.8**	**46.0**	**—**	**286.3**
1981	145.8	150.9	16.1	1.2	—	17.3	65.5	—	379.5
1982	205.3	103.3	2.9	1.2	—	4.1	55.7	—	368.4
1983	289.0	110.6	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	**334.0**	**34.0**	**0.2**	**0.4**	**—**	**0.6**	**82.8**	**—**	**451.4**
1986	338.9	46.7	0.5	0.3	—	0.8	68.0	—	454.4
1987	317.0	50.3	(s)	0.2	—	0.2	91.6	—	459.1
1988	337.7	30.7	3.2	3.9	—	7.1	70.4	—	445.9
1989	320.8	49.7	2.8	3.6	—	6.4	71.4	—	448.2
1990	**333.3**	**50.3**	**0.3**	**4.0**	**—**	**4.3**	**88.3**	**—**	**476.2**
1991	334.2	40.1	(s)	4.2	—	4.2	95.4	—	473.8
1992	353.1	42.4	(s)	2.7	—	2.7	77.7	—	475.8
1993	327.9	48.1	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
1995	**369.9**	**56.9**	**0.2**	**2.3**	**—**	**2.5**	**65.2**	**—**	**494.4**

[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 35. Energy Price and Expenditure Estimates by Source, 1970-1995, California

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	**0.43**	**0.83**	**0.45**	**0.56**	**1.26**	**0.73**	**1.84**	**2.80**	**0.38**	R **1.35**	**1.78**	**0.19**	**0.65**	**1.20**	**0.34**	**4.76**	**1.73**
1971	0.47	0.54	0.47	0.62	1.37	0.77	1.89	2.84	0.60	R 1.47	1.83	0.19	0.69	1.27	0.41	5.01	1.81
1972	0.52	0.63	0.52	0.65	1.28	0.77	1.96	2.79	0.74	R 1.53	R 1.85	0.19	0.72	1.30	0.49	5.36	R 1.90
1973	0.61	0.59	0.61	0.72	1.55	0.91	2.21	3.08	0.91	R 1.59	R 2.00	0.18	0.77	1.47	0.67	5.88	2.12
1974	1.29	1.03	1.29	0.92	2.69	1.57	2.94	4.47	1.93	R 2.45	3.18	0.12	0.84	2.27	1.33	7.94	3.03
1975	**1.38**	**0.92**	**1.32**	**1.25**	**2.97**	**2.04**	**3.08**	**4.84**	**2.38**	R **2.58**	R **3.52**	**0.21**	**0.92**	**2.61**	**1.82**	**8.71**	**3.47**
1976	1.51	1.16	1.43	1.55	3.10	2.33	3.27	5.04	2.25	R 2.64	R 3.58	0.28	0.98	2.83	1.98	9.48	R 3.80
1977	1.58	1.26	1.47	1.91	3.12	2.62	3.95	5.33	2.29	R 2.86	R 3.70	0.28	1.04	3.05	2.15	11.36	4.27
1978	1.70	1.40	1.59	2.03	3.13	2.86	4.37	5.48	2.43	R 3.02	3.91	0.29	1.12	3.28	2.28	12.39	4.58
1979	1.74	1.61	1.69	2.47	4.53	3.78	4.81	7.47	3.01	R 4.06	R 5.17	0.37	1.56	4.19	2.66	12.43	R 5.54
1980	**1.97**	**1.82**	**1.91**	**3.54**	**6.62**	**6.21**	**6.09**	**10.19**	**4.49**	R **5.97**	R **7.36**	**0.49**	**1.74**	**5.95**	**3.99**	**17.16**	R **7.70**
1981	2.26	2.06	2.16	3.88	7.64	7.56	6.53	11.33	5.94	R 7.89	R 8.76	0.85	1.24	R 6.86	4.64	18.89	R 8.85
1982	2.07	2.31	2.19	4.70	7.41	7.37	7.94	10.82	6.03	R 7.01	R 8.76	0.77	1.28	R 7.09	5.02	21.85	R 9.28
1983	—	2.37	2.37	5.31	6.88	6.61	8.68	8.96	5.56	R 6.80	R 7.70	1.07	1.12	R 6.73	4.79	20.79	R 8.83
1984	—	2.41	2.41	5.42	6.68	6.28	7.76	8.74	5.31	R 6.89	R 7.42	1.11	1.28	R 6.50	4.34	20.94	R 8.73
1985	**—**	**2.30**	**2.30**	**5.01**	**6.67**	**6.01**	R **9.67**	**8.68**	**4.75**	R **6.77**	R **7.36**	**0.96**	**0.79**	R **6.18**	**3.70**	**22.90**	R **8.88**
1986	—	2.26	2.26	4.02	5.34	3.99	R 9.84	6.68	2.71	R 5.97	R 5.64	0.97	0.32	R 4.83	2.16	23.21	R 7.71
1987	—	2.09	2.09	3.77	5.89	4.04	R 9.86	6.95	2.61	R 6.04	R 5.82	0.99	0.95	R 4.78	2.02	22.70	R 7.60
1988	—	1.96	1.96	4.05	5.82	3.84	R 9.71	7.08	2.31	R 5.53	R 5.76	0.90	0.87	R 4.87	2.17	23.42	R 7.80
1989	—	1.93	1.93	4.10	6.57	4.50	R 9.13	7.66	2.68	R 5.19	R 6.26	0.85	([d])	R 5.17	2.20	24.91	R 8.30
1990	**—**	**2.01**	**2.01**	**4.31**	**7.47**	**5.76**	R **10.51**	**8.57**	**3.66**	R **5.39**	R **7.17**	**0.72**	e R **2.35**	e R **5.72**	**2.17**	R **25.99**	e R **8.90**
1991	—	1.99	1.99	4.49	7.36	4.80	R 11.24	8.18	2.57	R 5.49	R 6.85	0.67	R 2.40	R 5.53	1.95	27.70	R 9.01
1992	—	1.83	1.83	4.11	7.64	4.53	R 11.01	9.19	1.86	R 5.58	R 7.49	0.55	2.46	R 5.68	1.87	28.39	R 9.50
1993	—	1.90	1.90	4.11	7.95	4.50	R 11.70	9.08	2.03	R 5.43	R 7.39	0.44	R 2.33	R 5.65	1.93	28.51	R 9.36
1994	—	1.90	1.90	4.27	7.78	4.03	R 11.47	9.07	2.03	R 5.80	R 7.20	0.47	2.24	R 5.58	1.75	28.79	R 9.41
1995	**—**	**1.80**	**1.80**	**4.43**	**7.91**	**4.15**	**11.20**	**9.19**	**2.14**	**5.93**	**7.31**	**0.43**	**2.37**	**5.79**	**1.43**	**29.16**	**9.47**
	Expenditures in Million Nominal Dollars																
1970	**25.6**	**2.3**	**27.9**	**1,126.7**	**283.0**	**242.7**	**99.5**	**3,149.1**	**161.1**	R **277.0**	R **4,212.5**	**6.7**	**0.3**	R **5,374.1**	**-282.1**	**1,886.7**	R **6,978.6**
1971	23.6	0.3	23.8	1,264.8	374.0	268.5	103.2	3,274.0	296.5	R 307.5	R 4,623.7	7.4	0.3	R 5,920.1	-347.4	2,104.5	R 7,677.1
1972	24.3	0.2	24.5	1,362.5	340.6	273.2	97.2	3,406.5	358.5	R 332.3	R 4,808.4	6.4	0.2	R 6,202.0	-459.3	2,418.6	R 8,161.4
1973	40.4	0.2	40.6	1,399.7	460.7	320.8	129.5	3,900.1	629.2	R 366.1	R 5,806.4	5.1	0.2	R 7,252.0	-661.6	2,738.0	R 9,328.4
1974	77.3	0.9	78.2	1,572.6	673.1	529.2	186.2	5,529.3	1,176.8	R 553.5	R 8,648.1	5.0	0.2	R 10,304.0	-1,010.8	3,473.7	R 12,766.9
1975	**67.7**	**6.9**	**74.6**	**2,148.2**	**719.4**	**716.0**	**169.8**	**6,137.9**	**1,628.1**	R **575.0**	R **9,946.2**	**14.4**	**0.2**	R **12,183.5**	**-1,553.7**	**4,328.6**	R **14,958.4**
1976	76.9	18.3	95.2	2,552.7	818.3	795.6	190.9	6,683.1	1,898.6	R 621.3	R 11,007.9	15.0	0.2	R 13,671.0	-1,935.4	4,922.5	R 16,658.1
1977	78.2	32.2	110.4	3,164.1	929.7	927.5	206.7	7,452.0	2,448.6	R 741.2	R 12,705.7	24.4	0.3	R 16,005.0	-2,715.3	5,989.6	R 19,279.3
1978	71.1	36.6	107.7	2,984.0	1,090.9	1,037.6	259.0	8,005.2	2,342.0	R 827.4	R 13,562.0	24.3	0.2	R 16,678.2	-2,365.9	6,727.8	R 21,040.0
1979	76.9	39.2	116.1	4,276.5	1,743.5	1,398.8	360.1	10,570.0	2,918.4	R 1,291.3	R 18,282.1	35.5	0.1	R 22,710.3	-3,188.1	7,031.1	R 26,553.3
1980	**79.8**	**46.8**	**126.7**	**6,063.2**	**2,390.8**	**2,199.3**	**365.8**	**13,579.1**	**4,131.7**	R **1,668.7**	R **24,335.3**	**26.1**	**0.4**	R **30,551.6**	**-4,018.4**	**9,560.0**	R **36,093.2**
1981	87.4	81.9	169.3	6,969.3	3,003.0	2,503.6	346.8	15,046.4	4,804.8	R 1,556.2	R 27,260.8	30.2	0.3	R 34,429.8	-4,709.7	10,774.7	R 40,494.9
1982	72.0	80.1	152.1	7,886.9	2,898.2	2,335.6	409.5	14,207.8	3,049.3	R 1,340.4	R 24,240.8	31.6	0.2	R 32,311.6	-3,541.3	12,131.1	R 40,901.4
1983	—	75.8	75.8	8,039.1	2,720.9	2,124.1	432.7	12,054.2	2,298.5	R 1,411.9	R 21,042.3	65.3	0.1	R 29,222.6	-2,965.4	11,492.6	R 37,749.9
1984	—	89.6	89.6	8,931.0	2,955.8	2,346.1	485.0	12,173.7	2,474.7	R 1,702.0	R 22,137.4	170.4	(s)	R 31,328.4	-3,408.1	12,565.7	R 40,486.0
1985	**—**	**104.1**	**104.1**	**9,251.8**	**2,809.0**	**2,257.8**	R **605.5**	**12,192.3**	**1,953.0**	R **1,585.8**	R **21,403.4**	**204.0**	**(s)**	R **30,963.3**	**-3,498.6**	**14,143.4**	R **41,608.2**
1986	—	96.0	96.0	6,011.6	2,317.0	1,685.3	R 569.1	9,816.4	957.7	R 1,403.1	R 16,748.6	273.7	0.1	R 23,130.0	-1,694.0	14,220.3	R 35,656.3
1987	—	94.0	94.0	7,109.8	2,528.4	1,811.7	R 674.4	10,665.9	1,064.4	R 1,484.7	R 18,229.5	322.6	0.2	R 25,756.3	-2,060.3	14,334.2	R 38,030.2
1988	—	99.5	99.5	7,145.3	2,851.3	1,784.5	R 656.3	11,300.4	984.3	R 1,316.6	R 18,893.3	297.0	0.1	R 26,435.1	-2,131.0	15,574.0	R 39,878.1
1989	—	111.6	111.6	7,426.4	3,126.0	2,286.8	R 676.6	12,504.1	1,123.1	R 1,212.6	R 20,929.1	295.9	([d])	R 28,763.0	-2,168.0	17,085.2	R 43,680.2
1990	**—**	**131.1**	**131.1**	**7,830.2**	**3,586.6**	**3,081.3**	R **633.5**	**13,699.5**	**1,479.4**	R **1,274.3**	R **23,754.6**	**251.9**	e R **195.7**	e R **32,163.6**	**-1,882.4**	R **18,419.4**	e R **48,700.6**
1991	—	127.4	127.4	8,242.8	3,227.9	2,438.9	R 588.5	12,829.8	727.3	R 1,165.6	R 20,978.0	226.9	R 212.9	R 29,788.0	-1,572.2	R 19,412.7	R 47,628.5
1992	—	118.8	118.8	7,897.5	2,987.8	2,219.3	R 575.3	15,248.9	398.9	R 1,195.7	R 22,625.9	207.7	R 216.9	R 31,066.8	-1,802.4	R 20,378.1	R 49,642.5
1993	—	108.0	108.0	7,758.5	2,732.0	2,273.1	R 491.5	14,722.1	473.4	R 1,147.1	R 21,839.3	147.8	R 194.9	R 30,048.4	-1,620.3	R 20,165.7	R 48,593.7
1994	—	110.2	110.2	R 8,703.0	2,938.0	2,257.2	R 555.8	14,658.1	R 537.6	R 1,199.1	R 22,145.8	167.6	R 197.0	R 31,323.6	-1,744.9	R 20,662.6	R 50,241.3
1995	**—**	**110.0**	**110.0**	**8,066.2**	**3,159.8**	**2,241.5**	**472.3**	**15,127.2**	**627.3**	**1,213.0**	**22,841.1**	**137.1**	**211.2**	**31,365.5**	**-1,050.8**	**20,830.8**	**51,145.5**

[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] Utilities used biomass fuels at no charge or received a fee for accepting them.
[e] 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.
(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 36. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, California

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.31**	**0.93**	**1.27**	**2.57**	**2.67**	**2.49**	**—**	**0.99**	**6.53**	**1.92**
1971	0.85	0.98	1.34	2.75	2.61	2.44	—	1.03	6.78	1.96
1972	0.90	1.03	1.35	3.03	2.79	2.56	—	1.08	7.22	2.12
1973	—	1.11	1.57	3.55	3.73	3.27	—	1.17	7.72	2.36
1974	1.52	1.31	2.49	5.34	4.39	4.14	—	1.40	9.89	2.98
1975	**—**	**1.49**	**2.80**	**5.08**	**4.45**	**4.17**	**—**	**1.55**	**10.68**	**3.20**
1976	—	1.68	3.11	5.19	4.62	4.27	—	1.74	11.19	3.58
1977	—	1.80	3.21	5.74	5.46	4.83	—	1.87	12.41	4.13
1978	3.42	1.89	3.27	6.05	5.07	4.76	—	1.99	13.13	4.47
1979	4.87	2.36	4.48	8.64	6.73	6.20	—	2.51	13.10	4.81
1980	**5.13**	**3.37**	**6.92**	**13.04**	**8.15**	**8.14**	**—**	**3.53**	**17.18**	**6.76**
1981	5.43	3.58	7.90	15.34	7.53	7.73	—	3.71	19.09	7.63
1982	5.68	4.24	7.85	15.22	10.00	9.98	—	4.40	22.47	8.63
1983	4.62	5.20	7.91	14.14	11.00	10.93	—	5.41	20.88	9.35
1984	4.63	5.62	7.67	13.41	9.64	9.67	—	5.76	20.73	9.88
1985	**4.54**	**5.51**	**5.25**	**9.18**	**8.66**	**8.53**	**—**	**5.61**	**22.80**	**10.02**
1986	—	4.95	7.58	13.26	10.95	10.82	—	5.16	23.26	10.27
1987	3.76	5.13	6.05	10.57	12.37	11.84	—	5.39	23.55	10.42
1988	3.37	5.48	5.84	10.22	11.39	11.04	—	5.72	25.02	11.36
1989	3.66	5.40	7.63	13.34	11.65	11.46	—	5.67	27.69	11.89
1990	**3.77**	**5.60**	**5.70**	**9.96**	**12.45**	**12.00**	**[d] 4.75**	**[d] 5.81**	**29.26**	**[d] 11.65**
1991	5.21	6.11	5.60	9.78	12.75	12.39	4.75	6.33	31.61	12.56
1992	3.76	5.81	7.04	12.31	13.39	12.99	4.75	6.00	32.46	12.98
1993	3.77	6.00	7.40	12.94	14.24	13.89	4.75	6.21	[R] 33.13	13.13
1994	3.74	6.26	6.95	12.15	[R] 12.90	[R] 12.62	4.75	[R] 6.40	33.49	[R] 13.39
1995	**3.77**	**6.34**	**6.92**	**12.11**	**12.50**	**12.27**	**4.75**	**6.46**	**34.02**	**13.90**
	Expenditures in Million Nominal Dollars									
1970	**1.1**	**544.3**	**3.7**	**2.4**	**52.1**	**58.2**	**—**	**603.5**	**797.6**	**1,401.1**
1971	(s)	652.4	4.6	2.7	53.1	60.5	—	712.9	903.8	1,616.7
1972	(s)	687.6	5.1	3.5	48.5	57.1	—	744.7	1,017.2	1,761.9
1973	—	714.8	7.0	2.7	60.2	69.9	—	784.7	1,146.2	1,930.9
1974	(s)	800.4	7.9	6.6	65.7	80.2	—	880.6	1,435.0	2,315.7
1975	**—**	**993.8**	**8.0**	**6.1**	**44.7**	**58.9**	**—**	**1,052.7**	**1,612.8**	**2,665.4**
1976	—	1,061.9	11.4	6.0	43.2	60.6	—	1,122.5	1,746.2	2,868.7
1977	—	1,022.2	13.8	10.0	46.4	70.2	—	1,092.4	1,971.3	3,063.8
1978	0.1	1,066.8	15.0	11.7	71.6	98.3	—	1,165.2	2,208.9	3,374.0
1979	0.1	1,458.5	28.1	3.9	123.8	155.7	—	1,614.4	2,343.0	3,957.3
1980	**0.2**	**1,861.6**	**3.8**	**1.3**	**147.2**	**152.4**	**—**	**2,014.1**	**3,049.5**	**5,063.6**
1981	0.1	1,824.2	3.3	6.2	120.5	130.0	—	1,954.2	3,438.3	5,392.5
1982	0.1	2,384.7	3.3	1.6	160.4	165.2	—	2,550.0	3,976.6	6,526.6
1983	0.1	2,698.7	5.9	4.3	208.4	218.6	—	2,917.4	3,838.9	6,756.3
1984	1.3	2,755.4	6.4	8.0	153.1	167.5	—	2,924.2	3,998.6	6,922.9
1985	**2.0**	**3,016.1**	**4.5**	**3.8**	**167.0**	**175.3**	**—**	**3,193.4**	**4,472.8**	**7,666.2**
1986	—	2,384.7	10.6	13.8	164.0	188.4	—	2,573.1	4,565.8	7,138.8
1987	(s)	2,648.3	10.0	4.9	237.7	252.7	—	2,901.0	4,850.8	7,751.8
1988	0.2	2,803.9	7.8	5.9	241.2	254.8	—	3,058.9	5,518.0	8,576.9
1989	0.3	2,874.8	10.7	8.2	268.9	287.7	—	3,162.9	6,080.0	9,242.9
1990	**0.8**	**2,973.8**	**7.5**	**5.0**	**259.4**	**271.9**	**[d] 126.9**	**[d] 3,373.4**	**[R] 6,646.5**	**[d R] 10,019.9**
1991	1.9	3,189.5	6.5	4.4	320.4	331.3	133.7	3,656.4	[R] 7,120.4	[R] 10,776.8
1992	(s)	2,862.8	8.2	2.3	233.1	243.6	140.7	3,247.1	[R] 7,543.7	[R] 10,790.8
1993	4.4	3,121.0	6.7	4.9	258.5	270.1	119.3	3,514.7	[R] 7,613.1	[R] 11,127.8
1994	5.1	3,328.9	6.0	4.6	[R] 232.2	[R] 242.8	116.9	[R] 3,693.7	[R] 7,868.9	[R] 11,562.6
1995	**4.1**	**3,065.5**	**5.2**	**5.6**	**221.1**	**231.9**	**129.7**	**3,431.2**	**7,983.3**	**11,414.6**

[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.

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 37. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, California

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.63**	**0.69**	**1.12**	**0.78**	**1.37**	**2.80**	**0.40**	**0.76**	**0.71**	**5.02**	**2.09**
1971	0.53	0.72	1.18	0.80	1.46	2.84	0.63	0.92	0.77	5.31	2.16
1972	0.61	0.77	1.18	0.81	1.51	2.79	0.79	1.13	0.84	5.63	2.51
1973	—	0.81	1.41	1.09	1.63	3.08	0.93	1.29	0.91	6.14	2.76
1974	1.02	0.94	2.37	2.26	2.49	4.47	1.97	2.36	1.24	8.04	3.54
1975	**—**	**1.22**	**2.60**	**2.50**	**2.77**	**4.84**	**2.45**	**2.93**	**1.48**	**8.73**	**4.36**
1976	—	1.51	2.90	2.84	3.01	5.04	2.26	3.08	1.76	9.61	5.13
1977	—	1.97	3.00	2.97	3.66	5.33	2.35	3.29	2.21	12.04	6.30
1978	1.40	2.13	3.04	3.11	4.15	5.48	2.51	3.58	2.41	13.10	6.91
1979	1.60	2.61	4.38	4.31	4.18	7.47	3.15	4.55	2.92	13.07	6.97
1980	**1.82**	**3.82**	**6.60**	**6.38**	**5.21**	**10.19**	**4.90**	**6.02**	**4.30**	**17.99**	**9.58**
1981	2.06	4.19	7.54	7.27	6.10	11.33	6.50	7.09	5.07	19.30	10.68
1982	2.31	5.08	7.49	6.89	7.01	10.82	6.62	7.39	5.60	21.78	12.31
1983	2.37	6.08	6.27	6.77	7.26	8.96	5.97	6.75	6.22	21.41	12.80
1984	2.39	6.70	6.00	7.19	7.12	8.74	4.49	6.21	6.57	22.03	13.97
1985	**2.28**	**6.39**	**5.93**	**7.07**	**[R] 10.11**	**8.68**	**3.93**	**[R] 7.10**	**6.47**	**23.61**	**[R] 15.08**
1986	—	5.65	3.52	4.39	[R] 9.45	6.68	2.16	[R] 4.24	[R] 5.35	24.19	15.04
1987	2.09	5.28	4.15	5.05	[R] 8.87	6.95	2.60	[R] 4.85	5.18	23.47	14.05
1988	1.96	4.55	3.82	4.65	[R] 8.94	7.08	2.09	[R] 4.56	4.55	24.15	13.76
1989	1.92	4.71	4.78	5.69	[R] 7.99	7.66	2.30	[R] 5.41	4.81	25.33	14.60
1990	**2.00**	**4.96**	**5.63**	**6.51**	**[R] 9.49**	**8.57**	**3.00**	**[R] 6.26**	**[R] 5.14**	**[R] 26.32**	**[R] 15.08**
1991	1.97	5.36	5.29	6.20	[R] 9.84	8.18	2.24	[R] 5.99	[R] 5.43	28.12	15.95
1992	1.83	5.01	5.01	6.22	[R] 9.82	9.19	2.25	[R] 7.05	[R] 5.16	29.06	16.80
1993	1.86	5.81	5.24	6.49	[R] 9.77	9.08	2.14	[R] 6.63	[R] 5.82	29.27	[R] 17.95
1994	1.86	6.98	4.81	[R] 6.05	[R] 10.70	9.07	2.41	[R] 6.60	6.91	30.37	18.75
1995	**1.77**	**6.13**	**5.11**	**6.21**	**10.84**	**9.19**	**2.70**	**6.38**	**6.12**	**30.08**	**17.92**
	Expenditures in Million Nominal Dollars										
1970	**1.0**	**152.9**	**4.3**	**2.3**	**4.7**	**21.8**	**21.8**	**54.8**	**208.7**	**696.3**	**905.1**
1971	(s)	181.6	5.3	2.5	5.3	22.1	37.1	72.2	253.8	774.3	1,028.1
1972	(s)	188.1	5.8	2.9	4.6	21.9	31.0	66.2	254.3	912.1	1,166.4
1973	—	198.0	8.3	2.5	4.6	25.3	40.7	81.4	279.4	1,034.4	1,313.8
1974	(s)	227.2	9.9	8.6	6.6	37.7	91.3	154.0	381.2	1,261.5	1,642.7
1975	**—**	**309.6**	**9.8**	**9.2**	**4.9**	**41.2**	**67.4**	**132.6**	**442.1**	**1,722.9**	**2,165.1**
1976	—	349.1	13.9	10.1	5.0	54.0	53.0	136.0	485.1	1,989.0	2,474.1
1977	—	471.7	16.9	15.9	5.5	71.5	60.3	170.1	641.8	2,498.8	3,140.6
1978	0.1	497.0	18.3	18.5	10.3	88.4	60.8	196.4	693.5	2,741.5	3,435.1
1979	0.1	706.4	36.1	5.9	13.6	98.1	79.9	233.6	940.1	2,801.4	3,741.5
1980	**0.1**	**1,027.9**	**124.0**	**8.0**	**16.6**	**96.1**	**209.9**	**454.6**	**1,482.7**	**3,895.2**	**5,377.9**
1981	0.1	1,037.2	164.0	22.8	17.2	92.8	466.1	762.9	1,800.2	4,465.6	6,265.8
1982	0.1	1,256.1	191.7	12.7	19.8	82.4	228.5	535.1	1,791.3	4,936.7	6,728.0
1983	0.1	1,367.2	250.1	4.4	24.3	81.6	20.2	380.5	1,747.8	4,599.3	6,347.1
1984	1.2	1,333.6	270.8	10.9	20.0	69.3	38.2	409.1	1,744.0	5,367.8	7,111.8
1985	**1.8**	**1,359.7**	**121.3**	**14.1**	**[R] 34.4**	**80.2**	**0.9**	**[R] 251.0**	**[R] 1,612.5**	**5,930.0**	**[R] 7,542.4**
1986	—	1,070.4	115.9	2.8	[R] 25.0	61.6	13.0	[R] 218.3	[R] 1,288.7	6,170.4	[R] 7,459.1
1987	(s)	1,153.9	166.2	4.8	[R] 30.1	91.8	15.5	[R] 308.5	[R] 1,462.4	6,231.8	[R] 7,694.2
1988	0.2	1,162.5	140.6	2.3	[R] 33.4	66.0	10.8	[R] 253.1	[R] 1,415.8	6,657.1	[R] 8,072.9
1989	0.3	1,264.5	128.5	1.3	[R] 32.6	71.7	10.8	[R] 244.9	[R] 1,509.8	7,256.7	[R] 8,766.5
1990	**0.8**	**1,459.7**	**150.3**	**0.7**	**[R] 34.9**	**86.3**	**16.9**	**[R] 289.1**	**[R] 1,749.5**	**[R] 7,933.2**	**[R] 9,682.8**
1991	1.3	1,581.8	137.1	0.8	[R] 43.6	70.7	10.7	[R] 263.0	[R] 1,846.2	[R] 8,266.1	[R] 10,112.3
1992	(s)	1,467.8	58.2	0.7	[R] 30.1	71.8	0.6	[R] 161.4	[R] 1,629.2	[R] 8,716.2	[R] 10,345.4
1993	4.0	1,509.2	48.5	0.7	[R] 31.3	12.5	0.2	[R] 93.2	[R] 1,606.4	[R] 8,651.0	[R] 10,257.4
1994	4.7	1,865.4	42.1	0.4	[R] 34.0	10.8	0.1	[R] 87.5	[R] 1,957.5	[R] 8,767.7	[R] 10,725.2
1995	**3.6**	**1,731.1**	**69.4**	**0.9**	**33.8**	**11.4**	**0.1**	**115.7**	**1,850.3**	**8,838.7**	**10,689.1**

[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.
(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 38. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, California

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**0.43**	**0.63**	**0.43**	**0.38**	**0.49**	**0.68**	**0.78**	**1.37**	**5.08**	**2.80**	**0.35**	R **1.02**	**0.92**	**—**	**0.57**	**2.90**	**0.87**
1971	0.47	0.53	0.47	0.42	0.64	0.70	0.80	1.46	5.27	2.84	0.57	R 1.10	1.03	—	R 0.64	3.03	0.95
1972	0.52	0.61	0.52	0.45	0.64	0.71	0.81	1.51	5.58	2.79	0.57	R 1.10	1.04	—	0.67	3.30	1.03
1973	0.61	0.59	0.61	0.51	0.69	0.94	1.09	1.63	5.33	3.08	0.76	R 1.19	R 1.21	—	0.78	3.75	1.16
1974	1.29	1.02	1.29	0.65	1.47	1.96	2.26	2.49	7.22	4.47	1.65	R 1.76	R 2.08	—	1.21	5.74	1.77
1975	**1.38**	**0.92**	**1.32**	**1.05**	**1.62**	**2.21**	**2.50**	**2.77**	**7.48**	**4.84**	**1.66**	R **2.23**	R **2.25**	**—**	**1.52**	**6.70**	**2.24**
1976	1.51	1.16	1.43	1.39	1.60	2.45	2.84	3.01	7.05	5.04	1.59	R 2.39	R 2.38	—	1.79	7.62	R 2.65
1977	1.58	1.26	1.47	1.86	1.70	2.60	2.97	3.66	6.97	5.33	1.87	R 2.65	R 2.63	—	2.14	9.46	R 3.22
1978	1.70	1.40	1.59	2.04	1.81	2.66	3.11	4.15	7.60	5.48	1.79	R 2.64	R 2.74	—	2.35	10.75	R 3.75
1979	1.74	1.60	1.69	2.61	2.72	3.81	4.31	4.18	10.21	7.47	2.26	R 3.74	R 3.67	—	R 3.10	10.96	R 4.33
1980	**1.97**	**1.82**	**1.91**	**3.64**	**3.78**	**5.49**	**6.38**	**5.21**	**14.36**	**10.19**	**3.16**	R **6.05**	R **5.18**	**—**	R **4.32**	**16.04**	R **6.17**
1981	2.26	2.06	2.16	3.88	4.59	6.42	7.27	6.10	18.00	11.33	4.02	R 7.12	R 6.38	—	R 4.88	18.11	R 7.06
1982	2.07	2.31	2.19	4.66	3.98	6.27	6.89	7.01	17.25	10.82	4.25	R 6.00	R 6.03	—	R 5.11	21.24	R 7.83
1983	—	2.37	2.37	5.28	4.40	6.47	6.77	7.26	16.98	8.96	4.27	R 5.55	R 5.98	—	R 5.51	19.83	R 8.19
1984	—	2.39	2.39	5.01	4.56	6.29	7.19	7.12	17.63	8.74	4.49	R 5.95	R 5.82	—	R 5.36	19.59	R 7.55
1985	**—**	**2.28**	**2.28**	**4.54**	**4.78**	**6.19**	**7.07**	R **10.11**	**17.61**	**8.68**	**3.93**	R **5.45**	R **5.90**	**—**	R **5.15**	**22.00**	R **7.80**
1986	—	2.26	2.26	3.46	5.08	3.84	4.39	R 9.45	15.59	6.68	2.16	R 4.07	R 4.76	—	R 4.07	21.63	R 6.90
1987	—	2.09	2.09	3.39	5.36	4.42	5.05	R 8.87	R 13.58	6.95	2.60	R 4.41	R 5.08	—	R 4.13	20.38	R 6.37
1988	—	1.96	1.96	3.65	4.53	4.07	4.65	R 8.94	R 14.62	7.08	2.09	R 3.76	R 4.78	—	R 4.08	20.15	R 6.63
1989	—	1.92	1.92	3.62	3.10	4.98	5.69	R 7.99	14.48	7.66	2.30	R 4.23	R 5.00	—	R 4.08	20.89	R 6.86
1990	**—**	**2.00**	**2.00**	**3.79**	**3.13**	**5.69**	**6.51**	R **9.49**	**14.60**	**8.57**	**3.00**	R **4.57**	R **5.43**	d R **1.22**	d R **4.15**	**21.35**	d R **6.72**
1991	—	1.97	1.97	3.86	3.18	5.43	6.20	R 9.84	R 16.80	8.18	2.24	R 4.18	R 5.20	R 1.31	R 4.01	22.22	R 6.80
1992	—	1.83	1.83	3.57	2.74	5.44	6.22	R 9.82	R 18.32	9.19	2.25	R 4.31	R 5.36	R 1.30	R 3.89	R 22.25	R 6.77
1993	—	1.86	1.86	2.72	2.60	5.68	6.49	R 9.77	R 18.96	9.08	2.14	R 3.71	R 5.03	R 1.29	R 3.23	R 21.49	R 5.98
1994	—	1.86	1.86	3.18	2.95	5.29	6.05	R 10.74	R 19.11	9.07	2.41	R 3.90	R 5.38	R 1.27	R 3.60	20.79	R 6.34
1995	**—**	**1.77**	**1.77**	**3.65**	**3.09**	**5.43**	**6.21**	**10.19**	**19.40**	**9.19**	**2.70**	**3.99**	**5.37**	**1.32**	**3.86**	**21.59**	**6.53**
	Expenditures in Million Nominal Dollars																
1970	**25.6**	**0.2**	**25.8**	**209.3**	**39.0**	**31.2**	**1.5**	**41.1**	**46.6**	**28.6**	**21.3**	R **85.6**	R **294.8**	**—**	R **529.9**	**392.2**	R **922.2**
1971	23.6	0.2	23.8	225.9	51.9	39.1	1.5	42.8	50.7	23.0	31.2	R 95.6	R 335.9	—	R 585.5	425.9	R 1,011.4
1972	24.3	0.1	24.4	244.4	52.3	47.0	1.5	41.7	57.5	20.9	27.8	R 101.2	R 349.8	—	R 618.7	488.7	R 1,107.3
1973	40.4	0.2	40.6	283.6	60.5	73.8	2.3	62.3	75.5	23.8	33.2	R 116.0	R 447.4	—	R 771.6	555.8	R 1,327.4
1974	77.3	0.9	78.1	361.8	115.9	112.7	14.7	110.3	98.0	30.6	76.9	R 170.3	R 729.3	—	R 1,169.2	775.2	R 1,944.4
1975	**67.7**	**6.9**	**74.6**	**539.6**	**141.0**	**126.2**	**16.5**	**116.1**	**56.6**	**34.0**	**62.4**	R **208.9**	R **761.6**	**—**	R **1,375.7**	**988.9**	R **2,364.7**
1976	76.9	18.3	95.2	654.4	149.6	152.4	18.5	137.8	59.2	39.6	54.0	R 236.2	R 847.2	—	R 1,596.8	1,182.0	R 2,778.8
1977	78.2	32.2	110.4	872.8	169.1	193.3	26.2	148.4	88.9	31.7	58.5	R 279.5	R 995.8	—	R 1,979.0	1,512.9	R 3,491.9
1978	71.1	36.4	107.5	721.6	184.8	230.8	31.4	168.2	104.0	31.0	56.4	R 300.3	R 1,106.9	—	R 1,936.0	1,771.2	R 3,707.2
1979	76.9	38.9	115.8	962.9	387.1	444.7	75.9	210.7	146.2	43.9	63.7	R 428.7	R 1,800.8	—	R 2,879.5	1,880.8	R 4,760.3
1980	**79.8**	**46.5**	**126.4**	**1,248.7**	**462.2**	**489.1**	**67.9**	**191.9**	**183.1**	**90.9**	**204.4**	R **688.8**	R **2,378.4**	**—**	R **3,753.6**	**2,607.7**	R **6,361.3**
1981	87.4	81.7	169.2	1,347.9	299.5	659.9	19.1	185.1	220.2	83.4	224.9	R 687.6	R 2,379.8	—	R 3,896.8	2,860.2	R 6,757.0
1982	72.0	79.9	151.9	1,422.5	259.4	751.9	7.5	204.4	192.4	71.6	185.6	R 547.3	R 2,220.1	—	R 3,794.5	3,201.9	R 6,996.4
1983	—	75.6	75.6	1,499.2	324.9	637.3	4.6	169.6	198.4	50.8	159.5	R 549.5	R 2,094.4	—	R 3,669.3	3,043.4	R 6,712.6
1984	—	87.1	87.1	1,781.3	461.7	694.3	21.8	267.8	219.6	86.0	553.7	R 633.0	R 2,937.9	—	R 4,806.3	3,188.1	R 7,994.4
1985	**—**	**100.3**	**100.3**	**1,745.8**	**439.0**	**655.0**	**19.7**	R **359.5**	**204.4**	**139.8**	**428.9**	R **564.0**	R **2,810.3**	**—**	R **4,656.4**	**3,725.4**	R **8,381.8**
1986	—	96.0	96.0	1,252.1	517.9	321.4	4.9	R 348.1	176.9	111.5	179.2	R 394.1	R 2,053.9	—	R 3,402.0	3,469.7	R 6,871.7
1987	—	94.0	94.0	1,637.5	585.1	459.2	12.5	R 379.5	R 174.2	118.6	208.4	R 429.6	R 2,367.0	—	R 4,098.5	3,241.7	R 7,340.2
1988	—	99.1	99.1	1,557.2	461.6	398.2	1.0	R 352.2	180.8	110.8	99.2	R 374.8	R 1,978.6	—	R 3,634.9	3,387.0	R 7,021.9
1989	—	111.0	111.0	1,712.8	308.2	469.3	1.4	R 349.1	183.8	130.0	25.5	R 410.2	R 1,877.5	—	R 3,701.2	3,738.1	R 7,439.4
1990	**—**	**129.6**	**129.6**	**1,967.7**	**308.8**	**631.3**	**1.4**	R **307.2**	R **190.7**	**141.6**	**24.1**	R **461.5**	R **2,066.6**	d R **68.8**	d R **4,232.7**	R **3,827.3**	d R **8,060.0**
1991	—	124.2	124.2	2,147.0	301.0	450.1	1.3	R 197.5	196.2	140.5	16.8	R 352.2	R 1,655.6	R 79.2	R 4,006.0	R 4,011.2	R 8,017.2
1992	—	118.8	118.8	1,981.9	246.7	349.0	0.8	R 288.9	R 218.2	159.3	18.4	R 390.6	R 1,671.7	R 76.3	R 3,848.7	R 4,100.0	R 7,948.6
1993	—	99.6	99.6	1,704.7	214.7	286.1	1.6	R 178.7	R 229.9	127.1	13.6	R 354.6	R 1,406.3	R 75.6	R 3,286.2	R 3,885.0	R 7,171.2
1994	—	100.5	100.5	R 1,969.0	239.3	274.9	1.4	R 253.6	R 242.3	131.4	13.4	R 356.2	R 1,512.4	R 80.1	R 3,662.0	R 4,009.2	R 7,671.2
1995	**—**	**102.4**	**102.4**	**2,363.8**	**250.3**	**268.3**	**2.0**	**196.7**	**241.7**	**137.5**	**19.5**	**356.3**	**1,472.2**	**81.4**	**4,019.8**	**3,986.7**	**8,006.5**

[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=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 39. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, California

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.63**	**—**	**2.17**	**1.42**	**0.73**	**1.37**	**5.08**	**2.80**	**0.36**	**2.07**	**2.07**	**2.88**	**2.07**
1971	0.53	—	2.21	1.56	0.77	1.46	5.27	2.84	0.56	2.13	2.13	2.95	2.13
1972	0.61	—	2.19	1.49	0.76	1.51	5.58	2.79	0.70	2.16	2.16	3.04	2.16
1973	0.59	—	2.36	1.78	0.91	1.63	5.33	3.08	0.82	2.42	2.42	3.20	2.42
1974	1.02	—	3.23	2.93	1.57	2.49	7.22	4.47	1.75	3.65	3.65	3.92	3.65
1975	**0.92**	**—**	**3.45**	**3.22**	**2.04**	**2.77**	**7.48**	**4.84**	**2.12**	**4.02**	**4.02**	**4.34**	**4.02**
1976	1.16	—	3.59	3.32	2.32	3.01	7.05	5.04	2.05	4.17	4.17	5.08	4.17
1977	1.26	—	3.97	3.30	2.62	3.66	6.97	5.33	2.07	4.38	4.38	8.18	4.38
1978	—	—	4.29	3.30	2.86	4.15	7.60	5.48	2.18	4.47	4.47	9.13	4.47
1979	—	—	5.73	4.93	3.79	4.18	10.21	7.47	2.78	6.04	6.04	7.41	6.04
1980	**—**	**—**	**9.02**	**7.07**	**6.21**	**5.21**	**14.36**	**10.19**	**4.14**	**8.22**	**8.22**	**11.39**	**8.22**
1981	—	—	10.84	8.14	7.56	6.10	18.00	11.33	5.62	9.49	9.49	13.07	9.49
1982	—	—	10.92	7.97	7.37	7.01	17.25	10.82	5.99	9.34	9.34	18.38	9.34
1983	—	—	10.44	7.13	6.61	7.26	16.98	8.96	5.61	8.01	8.01	15.15	8.02
1984	—	—	10.27	6.94	6.28	7.12	17.63	8.74	5.61	7.79	7.79	15.64	7.79
1985	**—**	**—**	**9.99**	**6.90**	**6.01**	**[R] 10.11**	**17.61**	**8.68**	**5.02**	**7.67**	**7.67**	**18.29**	**7.68**
1986	—	—	8.41	5.93	3.99	[R] 9.45	15.59	6.68	2.86	5.82	5.82	18.21	[R] 5.83
1987	—	—	7.55	6.70	4.04	[R] 8.87	[R] 13.58	6.95	2.60	[R] 5.95	[R] 5.95	13.47	[R] 5.95
1988	—	—	7.41	6.51	3.84	[R] 8.94	[R] 14.62	7.08	2.26	5.97	5.97	14.99	5.98
1989	—	—	8.28	7.14	4.50	[R] 7.99	14.48	7.66	2.57	6.50	6.50	13.15	6.51
1990	**—**	**4.69**	**9.32**	**8.21**	**5.76**	**[R] 9.49**	**14.60**	**8.57**	**3.59**	**7.42**	**7.42**	**[R] 13.26**	**7.43**
1991	—	5.62	8.71	8.02	4.80	[R] 9.84	[R] 16.80	8.18	2.58	7.01	7.01	14.80	7.02
1992	—	6.26	8.54	8.19	4.53	[R] 9.82	[R] 18.32	9.19	1.84	[R] 7.71	[R] 7.71	16.23	7.72
1993	—	4.59	8.24	8.46	4.50	[R] 9.77	[R] 18.96	9.08	2.00	[R] 7.64	[R] 7.64	[R] 14.79	7.64
1994	—	4.99	7.96	8.29	4.03	[R] 9.83	[R] 19.11	9.07	[R] 2.02	7.39	7.39	14.64	7.39
1995	**—**	**5.47**	**8.36**	**8.40**	**4.15**	**10.08**	**19.40**	**9.19**	**2.13**	**7.48**	**7.48**	**19.72**	**7.48**
	Expenditures in Million Nominal Dollars												
1970	**0.1**	**—**	**23.9**	**243.7**	**242.7**	**1.6**	**75.7**	**3,098.8**	**63.3**	**3,749.7**	**3,749.8**	**0.5**	**3,750.3**
1971	(s)	—	22.7	324.2	268.5	2.1	79.8	3,228.9	94.2	4,020.4	4,020.4	0.5	4,020.9
1972	(s)	—	23.0	282.8	270.7	2.4	90.5	3,363.8	91.9	4,125.0	4,125.0	0.7	4,125.7
1973	(s)	—	24.3	370.9	318.8	2.3	82.5	3,850.9	104.9	4,754.5	4,754.5	1.7	4,756.2
1974	(s)	—	32.3	541.8	527.0	3.7	107.1	5,461.1	189.1	6,862.1	6,862.2	1.9	6,864.1
1975	**(s)**	**—**	**28.5**	**573.4**	**714.6**	**4.0**	**108.3**	**6,062.6**	**267.8**	**7,759.2**	**7,759.2**	**4.0**	**7,763.2**
1976	(s)	—	28.4	636.1	790.7	4.9	113.3	6,589.6	368.2	8,531.2	8,531.2	5.3	8,536.4
1977	(s)	—	33.0	703.4	899.3	6.4	118.5	7,348.7	467.0	9,576.5	9,576.5	6.5	9,583.0
1978	—	—	38.0	803.3	1,017.0	8.8	138.7	7,885.7	625.9	10,517.5	10,517.5	6.2	10,523.7
1979	—	—	48.7	1,188.7	1,379.4	12.1	194.9	10,428.1	836.2	14,088.2	14,088.2	5.9	14,094.1
1980	**—**	**—**	**13.0**	**1,720.6**	**2,166.4**	**10.0**	**244.2**	**13,392.0**	**1,736.6**	**19,282.8**	**19,282.8**	**7.6**	**19,290.4**
1981	—	—	7.2	2,130.1	2,502.9	24.0	293.6	14,870.1	2,240.9	22,068.9	22,068.9	10.6	22,079.5
1982	—	—	63.1	1,939.1	2,335.6	24.9	256.5	14,053.8	1,961.5	20,634.5	20,634.5	15.9	20,650.4
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	11.1	17,933.9
1984	—	—	54.3	1,975.2	2,346.1	44.2	292.8	12,018.4	1,714.8	18,445.8	18,445.8	11.1	18,456.9
1985	**—**	**—**	**68.3**	**2,017.9**	**2,257.8**	**[R] 44.6**	**272.5**	**11,972.3**	**1,369.0**	**[R] 18,002.4**	**[R] 18,002.4**	**15.2**	**[R] 18,017.7**
1986	—	—	56.8	1,859.4	1,685.3	[R] 32.0	235.9	9,643.3	659.5	[R] 14,172.2	[R] 14,172.2	14.5	[R] 14,186.7
1987	—	—	41.3	1,884.6	1,811.7	[R] 27.2	[R] 232.3	10,455.5	781.5	[R] 15,234.1	[R] 15,234.1	9.9	[R] 15,244.0
1988	—	—	49.1	2,300.8	1,784.5	[R] 29.4	241.1	11,123.6	665.9	[R] 16,194.5	[R] 16,194.5	11.9	[R] 16,206.4
1989	—	—	54.4	2,511.1	2,286.8	[R] 26.0	[R] 245.1	12,302.4	795.3	[R] 18,221.1	[R] 18,221.1	10.3	[R] 18,231.5
1990	**—**	**(s)**	**52.0**	**2,792.5**	**3,081.3**	**[R] 32.0**	**254.2**	**13,471.6**	**1,241.9**	**[R] 20,925.5**	**[R] 20,925.6**	**12.4**	**[R] 20,938.0**
1991	—	0.1	48.0	2,631.2	2,438.9	[R] 27.0	261.6	12,618.6	681.8	[R] 18,707.2	[R] 18,707.2	14.9	[R] 18,722.1
1992	—	0.2	45.7	2,569.2	2,219.3	[R] 23.2	[R] 290.9	15,017.9	373.3	[R] 20,539.3	[R] 20,539.5	18.2	[R] 20,557.8
1993	—	1.2	34.1	2,387.2	2,273.1	[R] 23.1	[R] 306.6	14,582.6	412.8	[R] 20,019.5	[R] 20,020.7	16.6	[R] 20,037.3
1994	—	2.8	31.9	2,613.4	2,257.2	[R] 35.9	[R] 323.0	14,515.9	[R] 485.3	[R] 20,262.7	[R] 20,265.5	16.9	[R] 20,282.3
1995	**—**	**4.7**	**34.1**	**2,814.1**	**2,241.5**	**20.6**	**322.2**	**14,978.4**	**597.7**	**21,008.6**	**21,013.3**	**22.1**	**21,035.3**

[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, 1970-1995, California

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**—**	**0.33**	**0.40**	**0.36**	**—**	**0.40**	**0.19**	**0.65**	**0.34**
1971	—	0.35	0.63	0.59	—	0.63	0.19	0.69	0.41
1972	—	0.38	0.79	1.69	—	0.80	0.19	0.72	0.49
1973	—	0.42	0.94	1.50	—	0.94	0.18	0.77	0.67
1974	—	0.59	2.01	2.23	—	2.01	0.12	0.84	1.33
1975	**—**	**1.05**	**2.50**	**2.43**	**—**	**2.50**	**0.21**	**0.92**	**1.82**
1976	—	1.56	2.34	2.59	—	2.34	0.28	0.98	1.98
1977	—	2.10	2.37	2.63	—	2.37	0.28	1.04	2.15
1978	—	2.18	2.58	2.86	—	2.59	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**	**0.49**	**1.74**	**3.99**
1981	—	3.99	6.62	7.46	—	6.64	0.85	1.24	4.64
1982	—	5.02	6.77	6.71	—	6.77	0.77	1.28	5.02
1983	—	5.08	6.06	6.57	—	6.07	1.07	1.12	4.79
1984	—	5.09	5.97	5.95	—	5.97	1.11	1.28	4.34
1985	**—**	**4.47**	**5.31**	**5.69**	**—**	**5.33**	**0.96**	**0.79**	**3.70**
1986	—	2.81	3.16	4.79	—	3.26	0.97	0.32	2.16
1987	—	2.50	2.82	4.10	—	2.93	0.99	0.95	2.02
1988	—	2.83	2.66	4.03	—	2.67	0.90	0.87	2.17
1989	—	2.92	3.08	3.64	—	3.09	0.85	([b])	2.20
1990	**—**	**3.03**	**4.36**	**4.57**	**—**	**4.36**	**0.72**	**([b])**	**2.17**
1991	—	2.87	3.06	4.90	—	3.23	0.67	([b])	1.95
1992	—	2.72	2.18	4.57	—	2.64	0.55	([b])	1.87
1993	—	2.96	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
1995	**—**	**2.22**	**2.16**	**4.62**	**—**	**2.44**	**0.43**	**([b])**	**1.43**
	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	—	242.3	207.9	2.5	—	210.3	6.4	0.2	459.3
1973	—	203.2	450.4	2.7	—	453.2	5.1	0.2	661.6
1974	—	183.3	819.5	2.9	—	822.4	5.0	0.2	1,010.8
1975	**—**	**305.2**	**1,230.5**	**3.4**	**—**	**1,234.0**	**14.4**	**0.2**	**1,553.7**
1976	—	487.3	1,423.4	9.4	—	1,432.9	15.0	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	1,598.8	44.1	—	1,642.9	24.3	0.2	2,365.9
1979	—	1,148.7	1,938.5	65.3	—	2,003.8	35.5	0.1	3,188.1
1980	**—**	**1,925.0**	**1,980.8**	**86.2**	**—**	**2,067.0**	**26.1**	**0.4**	**4,018.4**
1981	—	2,760.0	1,872.9	46.4	—	1,919.2	30.2	0.3	4,709.7
1982	—	2,823.6	673.6	12.2	—	685.9	31.6	0.2	3,541.3
1983	—	2,474.0	417.2	8.8	—	426.0	65.3	0.1	2,965.4
1984	—	3,060.6	168.0	9.1	—	177.1	170.4	(s)	3,408.1
1985	**—**	**3,130.1**	**154.2**	**10.2**	**—**	**164.4**	**204.0**	**(s)**	**3,498.6**
1986	—	1,304.4	106.1	9.7	—	115.8	273.7	0.1	1,694.0
1987	—	1,670.1	58.9	8.4	—	67.3	322.6	0.2	2,060.3
1988	—	1,621.7	208.3	3.9	—	212.2	297.0	0.1	2,131.0
1989	—	1,574.3	291.5	6.3	—	297.8	295.9	([b])	2,168.0
1990	**—**	**1,429.0**	**196.4**	**5.0**	**—**	**201.4**	**251.9**	**([b])**	**1,882.4**
1991	—	1,324.3	18.0	3.0	—	20.9	226.9	([b])	1,572.2
1992	—	1,584.8	6.6	3.3	—	9.9	207.7	([b])	1,802.4
1993	—	1,422.4	46.8	3.4	—	50.2	147.8	([b])	1,620.3
1994	—	1,536.9	38.7	1.6	—	40.4	167.6	([b])	1,744.9
1995	**—**	**901.1**	**10.0**	**2.7**	**—**	**12.7**	**137.1**	**([b])**	**1,050.8**

[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.

(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 41. Energy Price and Expenditure Estimates by Source, 1970-1995, Colorado

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	**0.43**	**0.30**	**0.33**	**0.48**	**1.04**	**0.76**	**1.60**	**2.72**	**0.44**	[R] **1.10**	**1.88**	**—**	**—**	**1.03**	**0.25**	**6.09**	[R] **1.51**
1971	0.47	0.31	0.35	0.51	1.05	0.80	1.59	2.93	0.52	[R] 1.46	2.04	—	—	1.13	0.28	6.13	1.67
1972	0.52	0.34	0.38	0.54	1.06	0.79	1.65	2.81	0.52	[R] 1.49	1.99	—	—	1.13	0.33	6.34	1.67
1973	0.61	0.33	0.39	0.59	1.31	0.94	2.67	3.11	0.71	[R] 1.48	2.26	—	—	1.26	0.33	6.49	1.85
1974	1.29	0.42	0.62	0.72	2.18	1.62	2.75	4.20	1.62	[R] 2.48	3.16	—	—	1.74	0.44	7.07	2.49
1975	**1.38**	**0.53**	**0.68**	**0.98**	**2.30**	**2.12**	**3.02**	**4.67**	**1.59**	**2.74**	**3.54**	**—**	**—**	**2.02**	**0.60**	**7.95**	**2.92**
1976	1.51	0.54	0.70	1.15	2.49	2.32	3.42	4.90	1.76	2.48	3.69	—	—	2.15	0.61	8.36	[R] 3.13
1977	1.58	0.65	0.77	1.52	2.75	2.71	3.76	5.13	1.85	[R] 2.79	3.97	0.19	—	2.37	0.70	8.74	3.51
1978	1.70	0.71	0.81	1.89	2.90	2.92	4.17	5.05	1.92	[R] 3.18	4.05	0.21	—	2.58	0.77	9.43	3.84
1979	1.74	0.81	0.92	2.47	4.24	4.08	4.58	6.85	2.55	[R] 3.95	5.60	0.23	—	3.32	0.97	10.64	4.95
1980	**1.97**	**0.89**	**1.00**	**2.98**	**6.45**	**6.59**	**5.88**	**9.36**	**3.88**	[R] **6.06**	**7.93**	**0.21**	**—**	**4.33**	**1.12**	**12.94**	**6.49**
1981	2.26	0.98	1.10	3.84	7.36	7.67	7.12	10.23	4.25	[R] 7.75	[R] 9.15	0.18	—	4.86	1.08	15.13	7.88
1982	2.07	1.12	1.15	4.56	6.75	7.38	7.76	10.15	4.44	[R] 7.21	[R] 8.95	0.21	1.28	5.04	1.14	17.69	[R] 8.39
1983	—	1.13	1.13	5.05	6.68	6.47	7.78	9.02	4.36	[R] 6.96	[R] 8.03	0.23	1.12	[R] 4.92	1.16	17.75	[R] 8.20
1984	—	1.15	1.15	4.86	6.75	6.30	7.88	8.99	4.60	[R] 6.58	[R] 7.89	0.26	1.28	4.78	1.19	17.53	[R] 8.03
1985	**—**	**1.17**	**1.17**	**4.71**	**6.55**	**5.94**	[R] **6.46**	**9.28**	**3.80**	[R] **6.53**	[R] **8.03**	**—**	**0.79**	**4.74**	**1.21**	**17.88**	[R] **8.21**
1986	—	1.18	1.18	4.54	5.75	3.92	[R] 6.26	6.76	2.34	[R] 5.78	[R] 6.09	0.27	0.32	3.95	1.21	17.69	[R] 7.25
1987	—	1.14	1.14	4.26	6.13	4.05	[R] 4.85	7.59	2.63	4.69	[R] 6.51	0.28	0.95	4.03	1.15	17.12	7.37
1988	—	1.08	1.08	3.95	5.80	3.78	[R] 3.33	7.34	2.80	[R] 4.70	[R] 6.29	0.29	0.87	3.79	1.09	17.32	[R] 7.16
1989	—	1.08	1.08	3.85	6.83	4.30	[R] 6.07	8.13	1.96	[R] 4.70	[R] 7.13	0.28	0.80	3.99	1.08	17.48	[R] 7.59
1990	**—**	**1.07**	**1.07**	**3.92**	**7.97**	**5.59**	[R] **6.63**	**9.29**	**2.64**	[R] **4.50**	[R] **8.11**	**—**	[d R] **4.04**	[d R] **4.39**	**1.08**	**17.31**	[d R] **8.08**
1991	—	1.10	1.10	3.74	7.31	4.87	[R] 8.03	9.23	3.86	[R] 5.25	[R] 7.97	—	[R] 3.88	4.38	1.11	17.49	[R] 7.90
1992	—	1.11	1.11	3.68	7.19	4.47	[R] 8.14	9.56	3.22	[R] 5.22	[R] 8.02	—	[R] 4.06	[R] 4.39	1.11	17.69	[R] 7.99
1993	—	1.11	1.11	3.75	7.52	4.25	[R] 7.05	9.61	2.04	[R] 5.10	[R] 7.98	—	[R] 4.01	[R] 4.44	1.12	17.78	[R] 7.90
1994	—	1.07	1.07	3.99	7.37	3.99	[R] 8.41	9.83	2.88	[R] 4.81	[R] 8.11	—	[R] 3.98	4.54	1.07	17.86	8.17
1995	**—**	**1.06**	**1.06**	**3.99**	**7.56**	**4.04**	**8.29**	**9.71**	**2.99**	**5.30**	**8.22**	**—**	**4.07**	**4.65**	**1.06**	**18.00**	**8.24**
	Expenditures in Million Nominal Dollars																
1970	**12.0**	**26.3**	**38.3**	**128.2**	**30.9**	**32.0**	**27.5**	**372.5**	**3.9**	[R] **36.9**	[R] **503.6**	**—**	**—**	[R] **670.1**	**-30.6**	**222.3**	[R] **861.8**
1971	11.6	25.0	36.6	138.8	37.3	34.6	29.5	425.9	4.8	[R] 44.1	[R] 576.3	—	—	[R] 751.7	-35.9	243.0	[R] 958.7
1972	14.6	30.5	45.1	157.7	41.6	34.8	36.1	442.9	6.1	[R] 46.7	[R] 608.1	—	—	[R] 810.8	-44.2	276.5	[R] 1,043.1
1973	18.9	35.7	54.6	177.7	59.9	41.1	57.3	514.7	9.7	[R] 50.1	[R] 732.7	—	—	[R] 965.0	-48.7	308.0	[R] 1,224.3
1974	39.9	45.2	85.1	210.8	111.3	67.5	51.9	678.9	29.9	[R] 67.5	[R] 1,006.9	—	—	[R] 1,302.8	-70.9	357.2	[R] 1,589.2
1975	**39.5**	**69.0**	**108.4**	**262.9**	**118.1**	**85.7**	**55.7**	**782.3**	**32.7**	[R] **65.6**	[R] **1,140.0**	**—**	**—**	[R] **1,511.4**	**-105.4**	**426.0**	[R] **1,832.0**
1976	44.8	84.2	129.0	298.4	136.6	101.4	68.5	848.4	41.1	[R] 68.4	[R] 1,264.4	—	—	[R] 1,691.8	-115.7	473.2	[R] 2,049.3
1977	46.2	126.1	172.2	361.1	158.7	121.1	72.0	924.4	36.7	[R] 83.1	[R] 1,396.0	0.5	—	[R] 1,929.8	-153.1	528.7	[R] 2,305.4
1978	38.0	140.1	178.1	415.5	173.0	136.9	90.3	978.9	46.0	[R] 89.5	[R] 1,514.6	1.4	—	[R] 2,109.6	-169.9	604.8	[R] 2,544.4
1979	50.6	168.5	219.2	577.1	297.3	139.5	65.4	1,268.8	13.7	[R] 123.6	[R] 1,908.3	0.5	—	[R] 2,705.1	-228.9	729.0	[R] 3,205.3
1980	**50.2**	**197.9**	**248.2**	**706.8**	**422.1**	**175.9**	**83.3**	**1,685.6**	**43.6**	[R] **167.1**	[R] **2,577.7**	**1.5**	**—**	[R] **3,534.1**	**-272.5**	**918.2**	[R] **4,179.7**
1981	54.8	250.5	305.3	733.8	374.2	238.0	95.6	1,861.5	2.7	[R] 164.7	[R] 2,736.8	1.5	—	[R] 3,777.5	-281.5	1,203.8	[R] 4,699.8
1982	19.7	298.6	318.3	901.2	363.0	231.7	128.5	1,872.1	0.3	[R] 145.6	[R] 2,741.3	1.3	(s)	[R] 3,962.1	-299.1	1,414.6	[R] 5,077.6
1983	—	288.1	288.1	976.3	425.3	224.2	131.8	1,592.9	6.3	[R] 154.8	[R] 2,535.3	1.9	(s)	[R] 3,801.5	-290.6	1,415.3	[R] 4,926.2
1984	—	330.6	330.6	1,010.2	446.2	302.9	62.8	1,586.8	2.5	[R] 198.6	[R] 2,599.7	0.2	(s)	[R] 3,940.7	-322.7	1,522.0	[R] 5,140.0
1985	**—**	**349.9**	**349.9**	**931.2**	**364.4**	**264.1**	[R] **51.9**	**1,742.4**	**3.7**	[R] **191.7**	[R] **2,618.3**	**—**	**(s)**	[R] **3,899.4**	**-342.6**	**1,608.3**	[R] **5,165.0**
1986	—	349.5	349.5	810.9	338.9	178.8	[R] 47.7	1,297.1	1.1	[R] 159.5	[R] 2,023.1	0.2	(s)	[R] 3,183.7	-340.8	1,621.9	[R] 4,464.8
1987	—	336.8	336.8	793.7	352.2	192.0	[R] 39.9	1,439.3	(s)	[R] 132.5	[R] 2,155.9	0.5	(s)	[R] 3,287.0	-332.3	1,622.8	[R] 4,577.5
1988	—	337.3	337.3	817.3	378.3	138.0	[R] 31.0	1,404.9	0.5	[R] 146.4	[R] 2,099.0	2.1	(s)	[R] 3,255.6	-337.3	1,716.9	[R] 4,635.2
1989	—	349.0	349.0	837.0	405.7	129.8	[R] 80.1	1,512.7	0.1	[R] 131.9	[R] 2,260.4	1.6	(s)	[R] 3,448.0	-350.7	1,775.2	[R] 4,872.4
1990	**—**	**353.3**	**353.3**	**820.8**	**481.4**	**193.0**	[R] **71.3**	**1,725.8**	**(s)**	[R] **132.6**	[R] **2,604.2**	**—**	[d R] **16.3**	[d R] **3,794.5**	**-344.7**	**1,800.4**	[d R] **5,250.2**
1991	—	355.4	355.4	854.2	502.9	179.5	[R] 97.4	1,730.1	1.1	[R] 148.2	[R] 2,659.3	—	[R] 17.4	[R] 3,886.2	-345.8	[R] 1,858.1	[R] 5,398.6
1992	—	369.0	369.0	823.3	520.1	186.0	[R] 90.0	1,798.2	[R] (s)	[R] 151.5	[R] 2,746.6	—	[R] 17.9	[R] 3,956.8	-357.3	[R] 1,903.2	[R] 5,502.7
1993	—	374.7	374.7	927.8	565.8	215.6	[R] 86.3	1,913.0	(s)	[R] 156.2	[R] 2,937.0	—	[R] 16.9	[R] 4,256.3	-364.0	[R] 1,978.9	[R] 5,871.1
1994	—	374.3	374.3	943.1	569.2	178.8	[R] 102.4	2,035.4	(s)	[R] 171.9	[R] 3,057.7	—	[R] 16.6	[R] 4,391.8	-360.1	2,075.6	[R] 6,107.2
1995	**—**	**356.2**	**356.2**	**979.5**	**591.2**	**169.9**	**117.7**	**2,108.7**	**0.1**	**171.8**	**3,159.5**	**—**	**18.2**	**4,513.4**	**-343.8**	**2,142.0**	**6,311.6**

[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 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.
(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 42. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Colorado

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**0.90**	**0.74**	**1.28**	**1.51**	**1.79**	**1.74**	**—**	**0.88**	**7.73**	**1.71**
1971	0.84	0.77	1.36	1.54	1.77	1.73	—	0.90	7.78	1.78
1972	0.98	0.78	1.36	1.56	1.85	1.80	—	0.94	8.03	1.86
1973	1.48	0.84	1.58	1.83	3.36	3.15	—	1.16	8.07	2.10
1974	1.07	1.02	2.51	2.87	2.80	2.76	—	1.24	8.84	2.38
1975	**1.58**	**1.29**	**2.84**	**2.96**	**3.33**	**3.26**	**—**	**1.53**	**9.94**	**2.76**
1976	1.41	1.41	2.94	3.20	3.84	3.72	—	1.68	10.31	2.91
1977	1.61	1.83	3.25	3.58	4.07	3.95	—	2.09	10.76	3.44
1978	1.71	2.25	3.28	3.81	4.39	4.25	—	2.55	11.32	4.09
1979	2.97	2.81	4.63	5.34	6.05	5.59	—	3.00	12.44	4.78
1980	**2.54**	**3.26**	**6.96**	**7.98**	**7.32**	**7.31**	**—**	**3.53**	**15.00**	**5.72**
1981	3.42	4.19	8.32	9.78	7.68	7.79	—	4.54	17.20	7.80
1982	3.18	4.89	7.94	9.78	9.24	9.25	—	5.31	19.61	8.82
1983	2.91	5.48	5.82	9.16	8.46	8.36	—	5.82	19.72	9.30
1984	2.92	5.23	6.84	9.10	9.06	8.78	—	5.43	19.76	8.68
1985	**2.83**	**5.11**	**6.91**	**9.20**	**6.55**	**6.71**	**—**	**5.18**	**20.28**	**8.76**
1986	2.78	4.99	4.32	5.75	6.81	6.61	—	5.08	20.60	9.06
1987	2.40	4.74	3.49	4.65	5.19	5.07	—	4.74	20.01	8.61
1988	2.12	4.39	3.47	4.62	2.51	2.63	—	4.27	20.31	8.22
1989	2.43	4.57	5.09	6.78	6.11	6.10	—	4.66	20.56	8.60
1990	**2.41**	**4.55**	**6.19**	**8.24**	**7.02**	**7.02**	**[d] 4.75**	**[d] 4.70**	**20.57**	**[d R] 8.34**
1991	2.36	4.46	5.90	7.85	7.32	7.30	4.75	4.64	20.72	8.18
1992	2.43	4.46	4.82	6.42	7.66	7.56	4.75	4.64	21.11	8.40
1993	2.16	4.47	4.75	6.32	6.13	6.10	4.75	4.57	[R] 21.22	8.25
1994	2.25	4.90	2.93	3.90	[R] 9.21	[R] 8.90	4.75	[R] 5.14	[R] 21.56	[R] 9.02
1995	**2.24**	**4.71**	**3.94**	**5.24**	**8.97**	**8.77**	**4.75**	**5.00**	**21.75**	**8.84**
	Expenditures in Million Nominal Dollars									
1970	**1.6**	**59.4**	**1.3**	**1.0**	**20.9**	**23.1**	**—**	**84.1**	**101.8**	**185.9**
1971	1.4	63.3	1.5	0.7	21.8	24.1	—	88.8	111.7	200.5
1972	1.7	69.7	1.7	0.6	26.1	28.4	—	99.8	127.9	227.7
1973	2.0	81.3	2.3	0.6	45.8	48.7	—	132.0	143.3	275.2
1974	0.8	91.8	4.3	0.6	31.4	36.4	—	129.0	162.4	291.4
1975	**0.2**	**115.6**	**4.7**	**0.6**	**35.4**	**40.7**	**—**	**156.5**	**174.4**	**330.9**
1976	0.6	136.1	4.9	0.7	43.5	49.1	—	185.8	188.2	374.0
1977	1.0	162.4	5.5	0.7	42.5	48.7	—	212.1	202.9	415.0
1978	2.5	178.4	5.5	0.9	57.0	63.4	—	244.4	229.7	474.1
1979	4.9	242.1	9.0	0.8	25.0	34.7	—	281.7	272.2	553.9
1980	**1.9**	**290.6**	**3.2**	**1.0**	**44.9**	**49.1**	**—**	**341.6**	**342.5**	**684.1**
1981	2.5	313.2	2.6	3.3	57.7	63.6	—	379.3	498.7	878.0
1982	3.0	414.8	2.7	9.4	75.7	87.8	—	505.6	606.6	1,112.2
1983	1.8	464.3	4.6	11.7	84.8	101.1	—	567.2	640.0	1,207.2
1984	2.8	490.0	5.6	8.1	42.1	55.8	—	548.6	584.4	1,133.0
1985	**3.3**	**459.9**	**4.3**	**2.6**	**32.8**	**39.6**	**—**	**502.9**	**613.3**	**1,116.1**
1986	2.2	406.6	1.6	1.0	33.6	36.1	—	444.9	623.0	1,068.0
1987	1.5	408.9	1.2	0.7	27.9	29.8	—	440.2	629.5	1,069.7
1988	1.5	410.6	1.1	0.8	12.9	14.8	—	426.9	662.0	1,088.8
1989	1.2	424.0	1.2	1.6	35.9	38.8	—	463.9	673.0	1,136.9
1990	**1.0**	**420.1**	**1.0**	**1.0**	**43.2**	**45.2**	**[d] 14.6**	**[d] 480.9**	**[R] 687.1**	**[d] 1,168.0**
1991	1.2	447.2	0.9	1.1	50.3	52.3	15.4	516.1	[R] 713.8	[R] 1,229.9
1992	1.0	431.4	0.6	1.3	47.0	48.9	16.2	497.6	[R] 735.8	[R] 1,233.4
1993	0.6	480.0	0.9	1.2	39.1	41.2	15.2	537.0	[R] 771.5	[R] 1,308.5
1994	0.4	489.6	0.4	0.9	[R] 58.8	[R] 60.1	14.9	[R] 565.0	[R] 804.6	[R] 1,369.6
1995	**0.3**	**500.6**	**0.9**	**0.6**	**71.1**	**72.6**	**16.5**	**590.0**	**839.0**	**1,429.0**

[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.

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 43. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Colorado

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.39**	**0.59**	**1.06**	**0.89**	**1.18**	**2.72**	**0.38**	**1.28**	**0.62**	**5.97**	**1.66**
1971	0.40	0.61	1.09	0.88	1.23	2.93	0.55	1.41	0.65	6.03	1.72
1972	0.43	0.64	1.09	0.87	1.28	2.81	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	1.63	0.75	6.20	1.90
1974	0.75	0.85	2.27	1.94	2.68	4.20	1.82	2.62	0.96	6.86	2.28
1975	**0.81**	**1.10**	**2.49**	**2.11**	**2.59**	**4.67**	**1.93**	**2.73**	**1.20**	**7.95**	**2.73**
1976	1.06	1.21	2.64	2.32	2.87	4.90	1.61	2.88	1.32	8.78	2.87
1977	1.08	1.58	2.91	2.34	3.39	5.13	1.93	3.24	1.68	9.33	3.42
1978	1.23	2.00	2.98	2.58	3.84	5.05	1.77	3.43	2.08	10.18	4.03
1979	1.33	2.60	4.35	2.90	3.98	6.85	2.50	4.69	2.64	11.56	4.83
1980	**1.20**	**3.03**	**6.48**	**5.65**	**4.79**	**9.36**	**4.35**	**7.08**	**3.26**	**14.37**	**6.09**
1981	1.17	3.86	7.82	6.11	6.40	10.23	4.37	8.16	4.12	16.38	7.87
1982	1.42	4.56	7.35	4.82	6.31	10.15	4.70	8.01	4.68	18.09	8.94
1983	1.38	5.01	6.46	7.19	6.78	9.02	4.51	7.00	5.18	17.64	9.26
1984	1.31	4.76	6.29	7.51	6.22	8.99	4.60	6.95	4.89	18.10	9.23
1985	**1.31**	**4.61**	**5.93**	**7.24**	**[R] 6.30**	**9.28**	**4.07**	**[R] 6.53**	**[R] 4.67**	**18.34**	**9.50**
1986	1.24	4.41	3.69	4.61	[R] 5.25	6.76	2.34	[R] 4.51	4.35	17.73	9.49
1987	1.39	4.15	4.13	4.97	[R] 4.21	7.59	—	[R] 4.61	4.15	17.05	8.93
1988	1.36	3.83	3.82	4.73	[R] 4.34	7.34	—	[R] 4.30	3.84	17.03	8.73
1989	1.34	4.00	4.55	5.64	[R] 6.04	8.13	1.80	[R] 5.47	[R] 4.09	17.17	9.20
1990	**1.29**	**3.97**	**5.70**	**7.08**	**[R] 6.11**	**9.29**	**—**	**[R] 6.78**	**[R] 4.14**	**16.89**	**9.29**
1991	1.39	3.92	5.03	6.18	[R] 8.94	9.23	—	[R] 6.92	4.14	17.07	9.17
1992	1.51	3.91	4.87	6.06	[R] 8.75	9.56	1.75	[R] 6.07	[R] 4.08	[R] 17.21	[R] 9.33
1993	1.37	4.00	4.88	6.11	[R] 8.05	9.61	2.04	[R] 5.66	4.10	17.36	9.38
1994	1.35	4.35	4.57	[R] 5.97	[R] 8.52	9.83	—	[R] 5.26	4.44	17.89	9.66
1995	**1.20**	**4.15**	**4.70**	**6.14**	**8.26**	**9.71**	**—**	**5.71**	**4.28**	**18.13**	**9.75**
	Expenditures in Million Nominal Dollars										
1970	**1.3**	**33.7**	**0.9**	**0.7**	**2.4**	**1.8**	**0.1**	**5.9**	**40.9**	**93.5**	**134.4**
1971	1.3	37.2	1.0	0.5	2.7	2.4	0.1	6.7	45.3	102.8	148.1
1972	1.4	40.7	1.2	0.4	3.2	2.0	0.2	6.9	49.0	115.6	164.5
1973	1.1	47.7	1.6	0.5	3.5	2.5	0.3	8.4	57.2	126.6	183.8
1974	1.1	56.6	3.3	0.6	5.3	2.5	0.8	12.4	70.0	144.9	214.9
1975	**0.2**	**75.5**	**3.4**	**0.6**	**4.9**	**2.7**	**0.9**	**12.4**	**88.2**	**170.3**	**258.5**
1976	0.8	82.7	3.6	0.6	5.7	3.0	0.9	14.0	97.5	171.1	268.6
1977	1.2	101.9	4.1	0.6	6.2	3.2	1.1	15.3	118.4	193.0	311.3
1978	3.4	123.2	4.2	0.8	8.8	3.1	1.1	18.0	144.7	224.2	368.8
1979	4.1	171.3	7.0	0.5	2.9	4.9	0.2	15.6	191.0	270.9	461.9
1980	**1.7**	**201.9**	**12.8**	**0.2**	**5.2**	**15.4**	**0.1**	**33.6**	**237.1**	**356.8**	**594.0**
1981	1.5	226.1	14.2	0.3	8.5	15.5	0.1	38.5	266.2	467.2	733.3
1982	2.5	305.9	6.4	0.6	9.1	16.8	0.1	33.1	341.5	614.0	955.5
1983	1.6	325.9	30.7	1.1	12.0	13.4	0.2	57.4	384.8	638.5	1,023.3
1984	2.3	343.2	30.6	0.8	5.1	16.9	0.1	53.4	398.9	720.6	1,119.5
1985	**2.8**	**317.8**	**23.5**	**0.6**	**[R] 5.6**	**8.6**	**(s)**	**[R] 38.3**	**[R] 359.0**	**772.2**	**[R] 1,131.2**
1986	1.8	272.8	8.7	0.3	[R] 4.6	6.8	1.1	[R] 21.5	[R] 296.2	753.0	[R] 1,049.2
1987	1.6	267.1	23.1	0.8	[R] 4.0	7.6	—	[R] 35.4	[R] 304.1	735.1	[R] 1,039.1
1988	1.8	264.5	22.6	0.4	[R] 3.9	6.8	—	[R] 33.8	[R] 300.0	784.0	[R] 1,084.0
1989	1.2	273.3	14.3	5.0	[R] 6.3	7.0	0.1	[R] 32.6	[R] 307.1	827.0	[R] 1,134.1
1990	**1.0**	**264.5**	**14.5**	**0.4**	**[R] 6.6**	**12.9**	**—**	**[R] 34.4**	**[R] 299.9**	**[R] 831.2**	**[R] 1,131.1**
1991	1.3	278.5	17.3	0.4	[R] 10.8	16.3	—	[R] 44.8	[R] 324.5	[R] 851.0	[R] 1,175.5
1992	1.2	265.7	23.7	0.2	[R] 9.5	8.1	(s)	[R] 41.5	[R] 308.3	[R] 866.7	[R] 1,175.0
1993	0.7	289.5	21.6	0.2	[R] 9.1	1.8	(s)	[R] 32.6	[R] 322.8	[R] 905.1	[R] 1,227.9
1994	0.4	287.9	32.4	0.2	[R] 9.6	2.7	—	[R] 44.9	[R] 333.1	851.0	[R] 1,184.1
1995	**0.3**	**281.9**	**22.3**	**0.2**	**11.6**	**3.0**	**—**	**37.0**	**319.2**	**884.5**	**1,203.7**

[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.
(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 44. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Colorado

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**0.43**	**0.39**	**0.42**	**0.29**	**0.58**	**0.83**	**0.89**	**1.18**	**5.08**	**2.72**	**0.47**	[R] **1.05**	**0.97**	**—**	**0.53**	**3.50**	**0.65**
1971	0.47	0.40	0.45	0.31	1.04	0.82	0.88	1.23	5.27	2.93	0.52	[R] 1.03	1.16	—	0.64	3.47	0.78
1972	0.52	0.43	0.49	0.33	1.03	0.82	0.87	1.28	5.58	2.81	0.52	[R] 1.02	1.14	—	0.64	3.72	0.78
1973	0.61	0.42	0.55	0.38	1.06	1.07	1.15	1.47	5.33	3.11	0.65	[R] 1.00	1.24	—	0.72	4.09	0.87
1974	1.29	0.75	1.15	0.49	1.93	1.80	1.94	2.68	7.22	4.20	1.56	[R] 1.47	[R] 2.07	—	[R] 1.22	4.53	1.41
1975	**1.38**	**0.81**	**1.17**	**0.72**	**2.01**	**1.96**	**2.11**	**2.59**	**7.48**	**4.67**	**1.43**	[R] **1.97**	**2.19**	**—**	**1.40**	**5.55**	**1.74**
1976	1.51	1.06	1.39	0.88	1.56	2.17	2.32	2.87	7.05	4.90	1.80	[R] 2.47	2.26	—	1.61	6.03	2.05
1977	1.58	1.08	1.42	1.24	1.78	2.20	2.34	3.39	6.97	5.13	1.83	[R] 2.80	[R] 2.46	—	1.83	6.35	2.33
1978	1.70	1.23	1.53	1.53	1.99	2.38	2.58	3.84	7.60	5.05	1.95	[R] 2.92	[R] 2.60	—	2.03	6.91	[R] 2.62
1979	1.74	1.33	1.62	2.10	2.36	2.82	2.90	3.98	10.21	6.85	2.62	[R] 4.04	[R] 3.40	—	2.51	8.01	3.25
1980	**1.97**	**1.20**	**1.66**	**2.65**	**3.40**	**5.33**	**5.65**	**4.79**	**14.36**	**9.36**	**3.82**	[R] **7.05**	[R] **5.16**	**—**	**3.44**	**9.40**	[R] **4.19**
1981	2.26	1.17	1.84	3.42	4.21	5.81	6.11	6.40	18.00	10.23	4.24	[R] 8.31	[R] 6.29	—	[R] 3.88	10.79	4.91
1982	2.07	1.42	1.66	3.98	4.12	4.50	4.82	6.31	17.25	10.15	4.14	[R] 5.68	[R] 5.60	—	[R] 4.05	12.87	[R] 5.14
1983	—	1.38	1.38	4.26	4.13	6.51	7.19	6.78	16.98	9.02	4.26	[R] 5.28	[R] 6.20	—	[R] 4.72	12.33	[R] 5.46
1984	—	1.31	1.31	4.25	4.48	6.57	7.51	6.22	17.63	8.99	4.60	[R] 5.61	[R] 6.07	—	[R] 4.63	12.44	[R] 5.71
1985	**—**	**1.31**	**1.31**	**4.01**	**4.73**	**6.33**	**7.24**	[R] **6.30**	**17.61**	**9.28**	**4.07**	[R] **5.12**	[R] **6.02**	**—**	[R] **4.46**	**12.67**	[R] **5.74**
1986	—	1.24	1.24	3.82	4.30	4.03	4.61	[R] 5.25	15.59	6.76	2.34	[R] 3.38	[R] 4.62	—	[R] 3.78	12.95	[R] 5.29
1987	—	1.39	1.39	3.60	3.03	4.34	4.97	[R] 4.21	[R] 13.58	7.59	2.68	[R] 3.51	[R] 4.19	—	3.51	12.78	[R] 5.23
1988	—	1.36	1.36	3.43	3.19	4.14	4.73	[R] 4.34	[R] 14.62	7.34	1.82	[R] 3.04	[R] 4.11	—	[R] 3.50	13.22	[R] 5.08
1989	—	1.34	1.34	2.50	2.73	4.93	5.64	[R] 6.04	14.48	8.13	1.80	[R] 3.02	[R] 4.55	—	[R] 3.26	13.32	[R] 4.85
1990	**—**	**1.29**	**1.29**	**2.77**	**2.59**	**6.19**	**7.08**	[R] **6.11**	**14.60**	**9.29**	**2.46**	[R] **3.13**	[R] **4.75**	[d R] **1.73**	[d R] **3.41**	[R] **13.16**	[d R] **5.02**
1991	—	1.39	1.39	2.27	3.24	5.40	6.18	[R] 8.94	[R] 16.80	9.23	2.26	[R] 4.26	[R] 5.22	[R] 1.60	[R] 3.43	[R] 13.37	[R] 4.97
1992	—	1.51	1.51	2.15	2.89	5.30	6.06	[R] 8.75	[R] 18.32	9.56	1.75	[R] 5.01	[R] 5.11	[R] 1.69	[R] 3.41	[R] 13.45	[R] 4.92
1993	—	1.37	1.37	2.32	2.87	5.34	6.11	[R] 8.05	[R] 18.96	9.61	2.04	[R] 4.17	[R] 5.02	[R] 1.69	[R] 3.31	[R] 13.25	[R] 4.74
1994	—	1.35	1.35	2.37	2.73	5.22	5.97	[R] 7.24	[R] 19.11	9.83	2.20	[R] 5.02	[R] 4.75	[R] 1.68	[R] 3.20	[R] 13.42	[R] 5.03
1995	**—**	**1.20**	**1.20**	**2.81**	**3.09**	**5.37**	**6.14**	**7.17**	**19.40**	**9.71**	**2.26**	**5.00**	**5.06**	**1.73**	**3.51**	**13.23**	**5.30**
	Expenditures in Million Nominal Dollars																
1970	**12.0**	**5.4**	**17.4**	**23.1**	**12.3**	**10.1**	**2.8**	**3.6**	**4.2**	**14.8**	**3.0**	[R] **3.3**	[R] **54.2**	**—**	[R] **94.7**	**26.9**	[R] **121.6**
1971	11.6	3.2	14.8	22.4	20.5	13.0	2.3	4.1	4.8	15.7	3.6	[R] 2.7	[R] 66.7	—	[R] 103.9	28.5	[R] 132.4
1972	14.6	5.7	20.2	26.6	21.1	12.9	2.4	5.7	5.4	14.4	4.2	[R] 2.8	[R] 69.0	—	[R] 115.8	33.0	[R] 148.8
1973	18.9	5.3	24.1	31.9	23.9	20.0	2.8	6.7	3.9	15.9	5.8	[R] 3.5	[R] 82.6	—	[R] 138.6	38.2	[R] 176.8
1974	39.9	8.1	48.0	36.2	34.2	36.8	2.6	13.4	5.1	21.2	21.6	[R] 5.1	[R] 139.9	—	[R] 224.1	49.9	[R] 274.1
1975	**39.5**	**14.0**	**53.4**	**40.9**	**29.8**	**38.6**	**2.3**	**13.6**	**7.1**	**21.1**	**19.8**	[R] **6.8**	[R] **139.1**	**—**	[R] **233.4**	**81.3**	[R] **314.7**
1976	44.8	12.5	57.3	47.1	26.2	45.2	2.1	17.0	7.4	22.6	32.1	[R] 12.2	[R] 165.0	—	[R] 269.4	113.9	[R] 383.3
1977	46.2	15.5	61.7	61.5	31.0	47.6	2.3	20.7	10.1	26.5	29.1	[R] 15.6	[R] 182.8	—	[R] 306.0	132.8	[R] 438.8
1978	38.0	15.5	53.5	75.9	29.3	50.4	3.9	21.2	11.8	20.5	37.3	[R] 16.3	[R] 190.8	—	[R] 320.2	150.9	[R] 471.1
1979	50.6	15.2	65.8	98.3	43.1	55.2	3.6	36.8	16.6	26.3	7.0	[R] 23.3	[R] 211.9	—	[R] 375.9	185.9	[R] 561.8
1980	**50.2**	**21.1**	**71.3**	**131.6**	**51.6**	**123.7**	**12.3**	**32.4**	**20.8**	**34.2**	**38.8**	[R] **34.1**	[R] **347.9**	**—**	[R] **550.9**	**218.8**	[R] **769.7**
1981	54.8	18.0	72.9	151.5	51.1	100.4	5.1	27.0	25.0	31.9	2.5	[R] 23.8	[R] 266.7	—	[R] 491.1	237.9	[R] 729.0
1982	19.7	22.9	42.6	159.4	44.2	70.8	1.9	42.1	21.8	31.1	0.1	[R] 20.4	[R] 232.5	—	[R] 434.6	194.0	[R] 628.6
1983	—	21.5	21.5	167.2	51.5	137.2	0.7	32.8	22.5	23.8	4.3	[R] 19.9	[R] 292.7	—	[R] 481.4	136.8	[R] 618.2
1984	—	24.2	24.2	158.8	91.8	141.2	0.5	13.2	24.9	23.8	2.0	[R] 23.1	[R] 320.4	—	[R] 503.5	217.0	[R] 720.5
1985	**—**	**22.4**	**22.4**	**136.3**	**97.5**	**84.5**	**1.1**	[R] **12.0**	**23.2**	**28.3**	**(s)**	[R] **20.5**	[R] **267.0**	**—**	[R] **425.8**	**222.7**	[R] **648.5**
1986	—	20.5	20.5	117.6	88.2	81.0	0.5	[R] 8.4	20.1	19.7	(s)	[R] 8.1	[R] 226.0	—	[R] 364.2	245.8	[R] 610.0
1987	—	21.8	21.8	100.0	62.6	67.3	0.8	[R] 7.4	[R] 19.8	21.1	(s)	[R] 8.7	[R] 187.8	—	[R] 309.6	258.3	[R] 567.9
1988	—	19.6	19.6	123.2	75.2	88.9	1.0	[R] 13.3	20.5	18.4	(s)	[R] 7.6	[R] 224.9	—	[R] 367.7	270.9	[R] 638.6
1989	—	17.9	17.9	121.1	53.1	81.1	0.9	[R] 36.6	20.8	21.6	(s)	[R] 7.8	[R] 221.8	—	[R] 360.8	275.1	[R] 636.0
1990	**—**	**19.8**	**19.8**	**124.4**	**55.9**	**96.7**	**0.7**	[R] **19.8**	**21.6**	**19.8**	**(s)**	[R] **8.6**	[R] **223.2**	[d R] **1.6**	[d R] **369.0**	[R] **282.1**	[d R] **651.2**
1991	—	21.6	21.6	116.1	66.8	111.0	0.6	[R] 33.7	22.2	24.4	(s)	[R] 12.8	[R] 271.5	[R] 2.0	[R] 411.2	[R] 293.3	[R] 704.5
1992	—	22.3	22.3	115.3	61.1	134.3	0.3	[R] 31.4	[R] 24.7	24.8	[R] (s)	[R] 16.2	[R] 292.9	[R] 1.7	[R] 432.1	[R] 300.7	[R] 732.9
1993	—	22.3	22.3	146.0	65.1	112.8	0.4	[R] 35.8	[R] 26.1	25.4	(s)	[R] 14.0	[R] 279.6	[R] 1.7	[R] 449.7	[R] 302.3	[R] 752.0
1994	—	24.9	24.9	154.7	75.8	95.1	0.1	[R] 30.1	[R] 27.5	30.1	(s)	[R] 16.0	[R] 274.6	[R] 1.7	[R] 455.9	[R] 419.9	[R] 875.8
1995	**—**	**19.0**	**19.0**	**190.4**	**76.2**	**99.6**	**0.2**	**33.2**	**27.4**	**27.6**	**(s)**	**15.8**	**279.9**	**1.7**	**491.1**	**418.3**	**909.4**

[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 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.
(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 45. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Colorado

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.39**	**—**	**2.17**	**1.20**	**0.76**	**1.18**	**5.08**	**2.72**	**0.38**	**2.17**	**2.17**	**—**	**2.17**
1971	0.40	—	2.21	1.24	0.80	1.23	5.27	2.93	0.54	2.34	2.34	—	2.34
1972	0.43	—	2.19	1.23	0.79	1.28	5.58	2.81	0.54	2.27	2.27	—	2.27
1973	0.42	—	2.36	1.47	0.94	1.47	5.33	3.11	0.82	2.54	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	—	3.54
1975	**0.81**	**—**	**3.45**	**2.49**	**2.12**	**2.59**	**7.48**	**4.67**	**1.86**	**3.99**	**3.99**	**—**	**3.99**
1976	1.06	—	3.59	2.70	2.32	2.87	7.05	4.90	1.57	4.18	4.18	—	4.18
1977	1.08	—	3.97	3.08	2.71	3.39	6.97	5.13	1.85	4.45	4.45	—	4.45
1978	—	—	4.29	3.22	2.92	3.84	7.60	5.05	1.73	4.47	4.47	—	4.47
1979	—	—	5.73	4.82	4.08	3.98	10.21	6.85	2.44	6.18	6.18	—	6.18
1980	**—**	**—**	**9.02**	**7.13**	**6.59**	**4.79**	**14.36**	**9.36**	**—**	**8.75**	**8.75**	**—**	**8.75**
1981	—	—	10.84	8.22	7.67	6.40	18.00	10.23	—	9.73	9.73	—	9.73
1982	—	—	10.92	7.75	7.38	6.31	17.25	10.15	—	9.52	9.52	—	9.52
1983	—	—	10.44	6.83	6.47	6.78	16.98	9.02	4.53	8.41	8.41	—	8.41
1984	—	—	10.27	6.93	6.30	6.22	17.63	8.99	4.51	8.27	8.27	—	8.27
1985	**—**	**—**	**9.99**	**6.70**	**5.94**	**[R] 6.30**	**17.61**	**9.28**	**3.79**	**8.43**	**8.43**	**—**	**8.43**
1986	—	—	8.41	6.91	3.92	[R] 5.25	15.59	6.76	2.01	6.38	6.38	—	6.38
1987	—	—	7.55	7.28	4.05	[R] 4.21	[R] 13.58	7.59	—	6.98	6.98	—	6.98
1988	—	—	7.41	7.13	3.78	[R] 4.34	[R] 14.62	7.34	—	6.88	6.88	—	6.88
1989	—	—	8.28	7.85	4.30	[R] 6.04	14.48	8.13	—	7.70	7.70	—	7.70
1990	**—**	**3.46**	**9.32**	**8.80**	**5.59**	**[R] 6.11**	**14.60**	**9.29**	**—**	**8.77**	**8.77**	**—**	**8.77**
1991	—	3.34	8.71	8.39	4.87	[R] 8.94	[R] 16.80	9.23	—	8.56	8.56	—	8.56
1992	—	3.37	8.54	8.62	4.47	[R] 8.75	[R] 18.32	9.56	—	8.71	[R] 8.70	—	[R] 8.70
1993	—	2.67	8.24	8.70	4.25	[R] 8.05	[R] 18.96	9.61	—	8.62	8.62	—	8.62
1994	—	3.53	7.96	8.53	3.99	[R] 7.78	[R] 19.11	9.83	3.06	8.82	8.81	[R] 21.77	8.81
1995	**—**	**1.48**	**8.36**	**8.58**	**4.04**	**7.61**	**19.40**	**9.71**	**—**	**8.82**	**8.82**	**23.07**	**8.82**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**3.7**	**18.6**	**32.0**	**0.6**	**8.8**	**356.0**	**0.2**	**419.8**	**419.9**	**—**	**419.9**
1971	(s)	—	3.5	21.6	34.6	0.8	9.1	407.9	0.2	477.8	477.8	—	477.8
1972	(s)	—	3.6	25.6	34.8	1.1	10.4	426.5	0.1	502.0	502.1	—	502.1
1973	(s)	—	4.0	34.8	41.1	1.2	10.8	496.3	0.3	588.4	588.4	—	588.4
1974	(s)	—	5.3	63.7	67.5	1.8	14.1	655.2	1.2	808.8	808.8	—	808.8
1975	**(s)**	**—**	**4.6**	**62.3**	**85.7**	**1.8**	**13.7**	**758.5**	**1.2**	**927.9**	**927.9**	**—**	**927.9**
1976	(s)	—	4.8	76.6	101.4	2.2	14.4	822.7	1.4	1,023.5	1,023.5	—	1,023.5
1977	(s)	—	5.8	97.8	121.1	2.6	17.0	894.7	1.2	1,140.2	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	—	1,230.4
1979	—	—	7.8	214.0	139.5	0.7	28.0	1,237.6	(s)	1,627.7	1,627.7	—	1,627.7
1980	**—**	**—**	**12.1**	**272.1**	**175.9**	**0.8**	**35.1**	**1,636.1**	**—**	**2,131.9**	**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	—	2,359.5
1982	—	—	10.4	276.5	231.7	1.7	36.8	1,824.2	—	2,381.3	2,381.3	—	2,381.3
1983	—	—	9.4	247.5	224.2	2.2	38.0	1,555.7	0.4	2,077.5	2,077.5	—	2,077.5
1984	—	—	7.4	265.9	302.9	2.3	42.0	1,546.1	0.3	2,167.0	2,167.0	—	2,167.0
1985	**—**	**—**	**7.1**	**248.2**	**264.1**	**1.5**	**39.1**	**1,705.6**	**3.5**	**2,269.2**	**2,269.2**	**—**	**2,269.2**
1986	—	—	7.5	245.7	178.8	1.1	33.9	1,270.6	(s)	1,737.6	1,737.6	—	1,737.6
1987	—	—	5.8	258.6	192.0	0.6	[R] 33.3	1,410.6	—	[R] 1,900.8	[R] 1,900.8	—	[R] 1,900.8
1988	—	—	6.2	264.4	138.0	[R] 0.9	34.6	1,379.7	—	1,823.7	1,823.7	—	1,823.7
1989	—	—	7.6	307.5	129.8	1.3	35.2	1,484.1	—	[R] 1,965.5	[R] 1,965.5	—	[R] 1,965.5
1990	**—**	**(s)**	**7.8**	**367.7**	**193.0**	**[R] 1.7**	**36.5**	**1,693.2**	**—**	**2,299.8**	**[R] 2,299.9**	**—**	**[R] 2,299.9**
1991	—	0.1	6.8	372.6	179.5	[R] 2.7	37.6	1,689.4	—	[R] 2,288.6	2,288.6	—	2,288.6
1992	—	0.1	5.9	360.2	186.0	[R] 2.2	[R] 41.8	1,765.3	—	[R] 2,361.3	[R] 2,361.4	—	[R] 2,361.4
1993	—	(s)	5.1	429.7	215.6	2.4	44.0	1,885.8	—	[R] 2,582.7	[R] 2,582.7	—	[R] 2,582.7
1994	—	0.2	5.1	440.6	178.8	[R] 3.9	[R] 46.4	2,002.6	(s)	2,677.4	[R] 2,677.6	0.1	2,677.7
1995	**—**	**(s)**	**5.2**	**467.8**	**169.9**	**1.9**	**46.3**	**2,078.2**	**—**	**2,769.2**	**2,769.2**	**0.2**	**2,769.5**

[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.
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, 1970-1995, Colorado

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.26**	**0.24**	**0.36**	**0.45**	**—**	**0.37**	**—**	**—**	**0.25**
1971	0.28	0.27	0.53	0.68	—	0.54	—	—	0.28
1972	0.30	0.35	0.53	0.68	—	0.54	—	—	0.33
1973	0.29	0.33	0.84	1.56	—	0.96	—	—	0.33
1974	0.37	0.43	1.82	2.31	—	1.96	—	—	0.44
1975	**0.48**	**0.59**	**1.94**	**2.56**	**—**	**2.18**	**—**	**—**	**0.60**
1976	0.49	0.78	1.64	2.39	—	1.93	—	—	0.61
1977	0.61	1.04	1.93	2.69	—	2.18	0.19	—	0.70
1978	0.66	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	**0.86**	**2.64**	**4.38**	**6.50**	**—**	**5.65**	**0.21**	**—**	**1.12**
1981	0.96	3.25	4.38	7.31	—	7.24	0.18	—	1.08
1982	1.09	3.62	4.77	5.86	—	5.85	0.21	1.28	1.14
1983	1.11	4.22	4.62	6.21	—	5.78	0.23	1.12	1.16
1984	1.13	3.75	4.64	6.03	—	5.94	0.26	1.28	1.19
1985	**1.15**	**3.53**	**4.00**	**5.92**	**—**	**5.79**	**—**	**0.79**	**1.21**
1986	1.18	3.00	—	3.37	—	3.37	0.27	0.32	1.21
1987	1.12	2.29	2.35	3.86	—	3.86	0.28	0.95	1.15
1988	1.07	2.29	2.80	3.88	—	3.52	0.29	0.87	1.09
1989	1.06	2.28	2.74	4.10	—	4.07	0.28	0.80	1.08
1990	**1.06**	**2.17**	**3.09**	**5.35**	**—**	**5.34**	**—**	**0.80**	**1.08**
1991	1.09	2.15	3.86	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	2.13	3.22	4.58	—	4.58	—	—	1.07
1995	**1.05**	**1.73**	**2.99**	**4.77**	**—**	**4.28**	**—**	**—**	**1.06**
	Expenditures in Million Nominal Dollars								
1970	**18.0**	**12.0**	**0.6**	**0.1**	**—**	**0.6**	**—**	**—**	**30.6**
1971	19.1	15.8	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	—	—	48.7
1974	35.2	26.2	6.2	3.3	—	9.5	—	—	70.9
1975	**54.5**	**30.9**	**10.8**	**9.2**	**—**	**20.0**	**—**	**—**	**105.4**
1976	70.3	32.5	6.6	6.2	—	12.8	—	—	115.7
1977	108.3	35.3	5.3	3.6	—	9.0	0.5	—	153.1
1978	118.7	37.9	6.4	5.6	—	12.0	1.4	—	169.9
1979	144.4	65.5	6.4	12.1	—	18.5	0.5	—	228.9
1980	**173.3**	**82.7**	**4.7**	**10.3**	**—**	**15.1**	**1.5**	**—**	**272.5**
1981	228.5	43.1	0.1	8.3	—	8.4	1.5	—	281.5
1982	270.1	21.1	(s)	6.5	—	6.6	1.3	(s)	299.1
1983	263.2	18.9	1.4	5.2	—	6.7	1.9	(s)	290.6
1984	301.3	18.1	0.2	2.9	—	3.1	0.2	(s)	322.7
1985	**321.3**	**17.2**	**0.2**	**3.9**	**—**	**4.1**	**—**	**(s)**	**342.6**
1986	324.9	13.9	—	1.9	—	1.9	0.2	(s)	340.8
1987	312.0	17.7	(s)	2.0	—	2.0	0.5	(s)	332.3
1988	314.3	19.1	0.5	1.3	—	1.8	2.1	(s)	337.3
1989	328.7	18.7	(s)	1.7	—	1.7	1.6	(s)	350.7
1990	**331.4**	**11.8**	**(s)**	**1.6**	**—**	**1.6**	**—**	**(s)**	**344.7**
1991	331.4	12.2	1.1	1.1	—	2.2	—	(s)	345.8
1992	344.5	10.7	0.7	1.3	—	2.1	—	—	357.3
1993	351.0	12.3	—	0.8	—	0.8	—	—	364.0
1994	348.6	10.8	(s)	0.7	—	0.7	—	—	360.1
1995	**336.5**	**6.6**	**0.1**	**0.6**	**—**	**0.8**	**—**	**—**	**343.8**

[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 47. Energy Price and Expenditure Estimates by Source, 1970-1995, Connecticut

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	**—**	**0.48**	**0.48**	**1.57**	**1.29**	**0.75**	**1.98**	**2.96**	**0.40**	**1.23**	**1.37**	**0.13**	**—**	**1.26**	**0.35**	**6.27**	**2.09**
1971	—	0.58	0.58	1.71	1.36	0.79	1.88	3.02	0.56	1.73	1.53	0.15	—	1.34	0.41	6.81	2.38
1972	—	0.83	0.83	1.74	1.39	0.87	1.99	3.01	0.66	1.74	1.52	0.15	—	1.38	0.50	7.58	2.51
1973	—	1.15	1.15	1.85	1.61	1.00	2.19	3.28	0.83	1.79	1.71	0.22	—	1.63	0.74	8.23	2.77
1974	—	1.25	1.25	2.35	2.72	1.66	2.98	4.38	2.04	3.01	2.90	0.20	—	2.51	1.41	11.70	4.13
1975	**—**	**2.09**	**2.09**	**2.86**	**2.73**	**2.11**	**3.63**	**4.61**	**2.04**	**3.08**	**3.06**	**0.29**	**—**	**2.68**	**1.35**	**13.15**	**4.53**
1976	—	1.78	1.78	3.14	2.91	2.29	3.96	4.80	1.98	3.23	3.16	0.26	—	2.64	1.07	12.91	4.57
1977	—	1.97	1.97	3.75	3.27	2.63	4.45	5.11	2.26	3.54	3.49	0.27	—	2.91	1.17	13.27	4.95
1978	—	2.20	2.20	3.89	3.47	2.96	4.71	5.34	2.20	3.69	3.58	0.22	—	2.96	1.07	13.41	5.11
1979	—	1.92	1.92	4.08	5.00	3.96	5.29	7.26	3.35	5.13	5.16	0.31	—	4.16	1.68	15.64	6.73
1980	**—**	**3.35**	**3.35**	**4.97**	**6.82**	**6.50**	**6.85**	**10.10**	**4.66**	**7.72**	**7.09**	**0.38**	**—**	**5.65**	**2.60**	**19.10**	**9.07**
1981	—	3.87	3.87	5.86	8.55	7.80	7.72	11.38	5.58	9.48	8.68	0.45	—	6.61	2.76	23.69	11.31
1982	—	3.86	3.86	7.17	8.39	7.51	9.09	10.30	4.76	8.70	7.98	0.53	—	6.21	2.31	25.79	11.32
1983	—	3.30	3.30	7.73	8.25	7.13	8.90	9.56	4.54	8.40	7.48	0.76	—	6.17	2.63	25.97	11.41
1984	—	3.45	3.45	7.00	8.44	6.61	8.81	9.11	4.91	8.46	7.45	0.90	—	5.93	2.70	26.94	11.20
1985	**—**	**2.40**	**2.40**	**7.20**	**8.22**	**6.29**	**[R] 11.38**	**9.37**	**4.32**	**7.61**	**[R] 7.45**	**0.91**	**—**	**[R] 5.95**	**2.38**	**26.62**	**11.19**
1986	—	2.32	2.32	6.86	6.57	4.50	[R] 11.07	7.45	2.56	6.32	5.67	0.91	—	4.45	1.54	24.65	[R] 9.67
1987	—	2.45	2.45	5.94	6.28	4.34	[R] 10.42	7.93	2.97	[R] 5.64	[R] 6.00	0.92	—	[R] 4.48	1.61	24.27	[R] 9.63
1988	—	2.31	2.31	6.04	6.48	4.00	[R] 11.20	8.91	2.42	5.55	6.14	0.86	0.87	4.51	1.42	24.55	9.98
1989	—	2.16	2.16	6.35	7.15	4.67	[R] 11.46	9.30	2.88	5.79	6.61	0.89	([d])	4.99	1.64	25.68	[R] 10.51
1990	**—**	**2.15**	**2.15**	**6.40**	**8.49**	**5.91**	**[R] 12.71**	**10.06**	**3.04**	**6.36**	**7.62**	**0.84**	**[e R] 1.58**	**[e R] 5.33**	**1.53**	**26.83**	**[e R] 11.42**
1991	—	2.19	2.19	6.49	8.05	5.10	[R] 14.24	10.04	2.49	5.78	[R] 7.49	0.80	[R] 1.60	5.76	1.50	[R] 28.14	[R] 11.55
1992	—	1.99	1.99	6.85	7.27	4.68	[R] 11.77	10.19	2.43	[R] 6.14	7.61	0.71	1.66	5.54	1.17	[R] 29.42	11.39
1993	—	1.75	1.75	6.99	7.13	4.41	[R] 11.47	10.09	2.44	6.33	[R] 7.70	0.60	1.64	5.20	0.93	30.07	11.47
1994	—	1.81	1.81	7.03	6.91	4.15	[R] 13.00	10.33	2.69	[R] 6.49	[R] 7.89	0.56	1.56	[R] 5.35	0.93	29.83	[R] 11.69
1995	**—**	**1.91**	**1.91**	**6.52**	**6.77**	**4.09**	**12.38**	**11.05**	**2.77**	**6.48**	**8.13**	**0.56**	**1.53**	**5.44**	**1.02**	**30.78**	**11.98**
	Expenditures in Million Nominal Dollars																
1970	**—**	**23.5**	**23.5**	**96.4**	**181.0**	**12.3**	**13.9**	**445.2**	**89.3**	**60.7**	**802.3**	**5.3**	**—**	**927.5**	**-76.1**	**345.0**	**1,196.4**
1971	—	21.1	21.1	106.4	190.3	9.7	13.4	469.2	119.7	32.4	834.7	13.0	—	975.1	-106.9	393.5	1,261.7
1972	—	3.5	3.5	112.9	200.5	13.8	15.8	486.3	168.0	37.6	921.9	12.9	—	1,051.3	-135.7	471.8	1,387.4
1973	—	3.0	3.0	117.4	239.1	14.1	17.9	543.9	226.8	37.6	1,079.5	10.4	—	1,210.2	-175.2	545.4	1,580.4
1974	—	8.1	8.1	157.6	367.1	22.9	23.7	724.6	483.2	53.3	1,674.8	17.8	—	1,858.4	-366.7	752.6	2,244.3
1975	**—**	**2.7**	**2.7**	**183.6**	**343.5**	**25.4**	**29.8**	**770.2**	**417.5**	**55.0**	**1,641.3**	**26.4**	**—**	**1,853.8**	**-311.5**	**829.8**	**2,372.1**
1976	—	2.0	2.0	208.5	410.1	25.2	35.1	822.5	408.4	68.5	1,769.8	35.9	—	2,016.2	-279.6	855.9	2,592.5
1977	—	2.3	2.3	242.8	452.6	32.2	39.6	888.5	457.3	71.9	1,942.0	38.0	—	2,225.1	-304.9	905.3	2,825.5
1978	—	1.8	1.8	256.7	476.5	35.7	37.8	932.2	473.7	83.3	2,039.1	32.7	—	2,330.2	-296.8	941.9	2,975.4
1979	—	2.1	2.1	280.0	828.9	53.4	28.6	1,201.5	566.4	108.0	2,786.8	43.0	—	3,111.8	-427.5	1,125.9	3,810.2
1980	**—**	**1.2**	**1.2**	**368.3**	**885.8**	**72.5**	**37.8**	**1,602.8**	**859.2**	**154.7**	**3,612.9**	**49.1**	**—**	**4,031.6**	**-688.1**	**1,381.4**	**4,724.8**
1981	—	3.5	3.5	461.0	982.3	69.7	37.6	1,808.1	755.4	217.1	3,870.2	63.2	—	4,397.9	-704.3	1,815.5	5,509.1
1982	—	2.9	2.9	571.4	1,002.5	45.6	46.6	1,625.7	637.6	168.8	3,526.7	80.6	—	4,181.7	-602.0	1,945.0	5,524.7
1983	—	2.3	2.3	590.7	811.9	38.5	45.9	1,533.8	665.9	154.6	3,250.4	95.5	—	3,939.0	-659.2	2,038.6	5,318.4
1984	—	5.1	5.1	582.7	917.9	37.5	44.4	1,477.3	774.5	162.8	3,414.4	138.8	—	4,141.0	-775.5	2,123.3	5,488.9
1985	**—**	**51.1**	**51.1**	**577.0**	**905.1**	**38.5**	**[R] 52.6**	**1,525.5**	**571.4**	**222.1**	**[R] 3,315.2**	**125.5**	**—**	**[R] 4,068.9**	**-634.9**	**2,132.6**	**[R] 5,566.6**
1986	—	49.1	49.1	553.0	788.9	31.9	[R] 45.7	1,247.2	358.2	162.1	[R] 2,633.9	182.7	—	[R] 3,418.8	-521.1	2,062.9	[R] 4,960.6
1987	—	52.4	52.4	556.8	775.5	43.7	[R] 59.4	1,348.0	353.4	[R] 146.8	[R] 2,726.9	203.0	—	[R] 3,539.1	-561.8	2,130.0	[R] 5,107.3
1988	—	53.3	53.3	546.3	867.2	48.8	[R] 62.1	1,539.8	332.8	138.2	[R] 2,988.8	205.2	2.2	[R] 3,795.8	-541.4	2,255.1	[R] 5,509.5
1989	—	51.1	51.1	620.3	1,068.0	59.2	[R] 67.0	1,575.7	401.7	139.5	[R] 3,311.1	186.1	([d])	[R] 4,168.6	-588.1	2,398.0	[R] 5,978.5
1990	**—**	**55.1**	**55.1**	**642.2**	**1,008.7**	**78.4**	**[R] 73.3**	**1,636.1**	**317.3**	**137.8**	**[R] 3,251.6**	**177.5**	**[e R] 22.7**	**[e R] 4,149.2**	**-512.4**	**[R] 2,489.1**	**[e R] 6,125.9**
1991	—	49.5	49.5	678.4	930.5	64.7	[R] 76.4	1,680.7	227.4	143.3	[R] 3,123.1	105.5	[R] 23.9	[R] 3,980.4	-367.2	[R] 2,609.0	[R] 6,222.1
1992	—	44.4	44.4	779.4	941.5	60.7	[R] 80.4	1,744.5	166.0	[R] 137.0	[R] 3,130.2	126.3	[R] 25.1	[R] 4,105.5	-307.5	[R] 2,722.6	[R] 6,520.6
1993	—	36.1	36.1	796.6	918.0	57.8	[R] 69.6	1,753.7	135.8	138.6	[R] 3,073.5	139.9	[R] 25.5	[R] 4,071.7	-281.6	[R] 2,795.1	[R] 6,585.2
1994	—	40.8	40.8	864.2	819.4	57.6	[R] 70.3	1,773.3	128.3	[R] 147.2	[R] 2,996.1	121.6	[R] 25.5	[R] 4,048.2	-266.4	[R] 2,852.7	[R] 6,634.4
1995	**—**	**45.2**	**45.2**	**879.2**	**827.2**	**57.7**	**63.2**	**1,776.3**	**118.7**	**154.2**	**2,997.2**	**111.6**	**31.6**	**4,064.8**	**-289.3**	**2,937.7**	**6,713.3**

[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] Utilities used biomass fuels at no charge or received a fee for accepting them.
[e] 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 48. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Connecticut

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.30**	**1.88**	**1.48**	**1.70**	**2.70**	**1.53**	**—**	**1.62**	**7.21**	**2.47**
1971	1.56	2.04	1.56	1.66	2.59	1.59	—	1.71	7.80	2.70
1972	1.58	2.06	1.56	1.69	2.84	1.61	—	1.73	8.61	2.86
1973	1.83	2.21	1.77	1.94	3.65	1.84	—	1.93	9.44	3.24
1974	2.19	2.76	2.88	3.01	4.18	2.93	—	2.88	12.98	4.69
1975	**2.62**	**3.28**	**2.84**	**3.16**	**5.01**	**2.93**	**—**	**3.03**	**14.49**	**5.14**
1976	2.64	3.38	3.04	3.35	5.33	3.12	—	3.19	14.11	5.16
1977	3.12	4.30	3.40	3.75	6.26	3.50	—	3.71	14.41	5.70
1978	3.68	4.42	3.61	4.01	6.41	3.70	—	3.90	14.64	5.92
1979	3.64	4.69	5.19	5.33	7.21	5.23	—	5.11	16.92	7.08
1980	**4.47**	**5.72**	**7.07**	**8.15**	**9.21**	**7.14**	**—**	**6.73**	**20.27**	**9.39**
1981	5.40	6.68	8.77	10.54	9.24	8.81	—	8.16	25.36	11.70
1982	5.46	8.29	8.53	10.79	12.27	8.68	—	8.55	27.93	12.61
1983	5.02	9.43	8.46	9.36	10.55	8.56	—	8.86	28.23	13.70
1984	4.76	8.56	8.69	9.33	11.28	8.79	—	8.68	29.35	13.62
1985	**4.39**	**8.88**	**8.37**	**8.98**	**10.41**	**8.48**	**—**	**8.60**	**29.24**	**13.42**
1986	4.19	8.57	6.90	7.40	10.52	7.02	—	7.52	27.20	11.89
1987	3.85	7.96	6.46	6.94	9.13	6.59	—	7.04	26.82	11.59
1988	4.24	7.63	6.61	7.10	10.96	6.77	—	7.05	27.03	11.51
1989	4.21	7.98	7.23	7.76	12.74	7.44	—	7.61	28.09	12.03
1990	**4.37**	**8.31**	**8.55**	**9.18**	**13.60**	**8.78**	**[d] 2.83**	**[d] 8.31**	**[R] 29.33**	**[d] 12.91**
1991	4.08	8.48	8.27	8.88	14.99	8.61	2.83	8.25	[R] 30.81	13.24
1992	4.17	8.72	7.24	7.77	12.43	7.52	2.83	7.68	32.45	12.58
1993	3.96	9.18	7.02	7.54	11.98	7.25	2.83	7.65	[R] 33.40	[R] 12.74
1994	4.07	9.84	6.80	7.30	[R] 15.15	[R] 7.18	2.83	[R] 7.85	33.62	[R] 13.32
1995	**4.01**	**9.71**	**6.60**	**7.09**	**14.73**	**6.95**	**2.83**	**7.64**	**35.04**	**13.49**
	Expenditures in Million Nominal Dollars									
1970	**0.8**	**59.6**	**122.7**	**5.1**	**8.2**	**136.0**	**—**	**196.4**	**157.3**	**353.6**
1971	0.9	66.0	126.6	4.9	7.6	139.1	—	205.9	181.9	387.9
1972	0.7	68.8	134.4	6.1	9.1	149.6	—	219.2	214.7	433.9
1973	0.8	68.0	153.9	4.7	10.6	169.2	—	238.0	246.0	484.0
1974	0.8	93.2	230.3	5.3	11.7	247.2	—	341.3	336.1	677.4
1975	**0.8**	**105.8**	**214.5**	**5.2**	**14.3**	**234.0**	**—**	**340.6**	**368.2**	**708.8**
1976	0.8	110.2	256.3	5.2	15.5	277.1	—	388.1	377.6	765.6
1977	0.9	134.8	280.4	5.1	18.7	304.1	—	439.8	391.2	831.1
1978	0.9	142.2	299.2	4.8	17.1	321.0	—	464.2	403.5	867.7
1979	0.7	148.4	541.2	6.1	14.5	561.8	—	710.9	472.0	1,182.9
1980	**1.0**	**187.4**	**554.3**	**10.8**	**20.1**	**585.3**	**—**	**773.7**	**568.4**	**1,342.0**
1981	2.8	228.4	661.8	11.6	19.9	693.4	—	924.5	745.4	1,669.9
1982	2.3	281.5	608.2	16.1	25.6	649.9	—	933.6	810.6	1,744.2
1983	1.6	300.0	457.8	10.3	26.1	494.2	—	795.8	844.3	1,640.2
1984	2.9	291.1	482.4	10.1	22.5	515.0	—	809.0	859.8	1,668.8
1985	**2.2**	**299.8**	**475.8**	**30.8**	**24.0**	**530.6**	**—**	**832.6**	**861.9**	**1,694.5**
1986	2.2	309.8	465.2	17.7	21.5	504.5	—	816.6	842.6	1,659.2
1987	1.5	296.7	437.3	16.0	26.5	479.8	—	778.0	884.9	1,662.9
1988	0.7	310.7	505.9	16.2	29.7	551.8	—	863.3	950.0	1,813.3
1989	0.8	335.7	599.6	12.6	39.4	651.6	—	988.0	1,005.0	1,993.1
1990	**0.8**	**321.3**	**569.1**	**10.2**	**42.2**	**621.5**	**[d] 16.5**	**[d] 960.1**	**[R] 1,038.5**	**[d R] 1,998.6**
1991	0.8	325.0	541.2	8.8	51.5	601.5	17.4	944.7	[R] 1,097.4	[R] 2,042.2
1992	1.0	379.9	566.4	8.6	55.0	630.0	18.3	1,029.2	[R] 1,162.3	[R] 2,191.4
1993	0.7	398.1	565.1	9.0	45.4	619.5	18.9	1,037.2	[R] 1,207.4	[R] 2,244.6
1994	0.7	421.8	497.8	6.7	[R] 51.8	[R] 556.3	18.5	[R] 997.4	[R] 1,250.3	[R] 2,247.7
1995	**1.0**	**408.2**	**466.5**	**4.9**	**46.7**	**518.2**	**20.5**	**948.0**	**1,286.2**	**2,234.2**

[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 49. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Connecticut

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.79**	**1.45**	**1.09**	**0.79**	**1.42**	**2.96**	**0.42**	**1.00**	**1.13**	**7.15**	**2.60**
1971	0.79	1.53	1.16	0.84	1.39	3.02	0.59	1.10	1.24	7.54	2.88
1972	0.92	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	1.38	3.28	0.83	1.36	1.49	8.82	3.62
1974	1.42	2.20	2.46	2.43	2.32	4.38	2.00	2.46	2.37	12.41	5.29
1975	**2.00**	**2.64**	**2.44**	**2.67**	**2.89**	**4.61**	**1.97**	**2.47**	**2.53**	**13.70**	**5.93**
1976	1.60	3.20	2.62	2.72	3.29	4.80	1.87	2.60	2.79	13.55	5.94
1977	1.69	3.53	2.96	2.99	3.53	5.11	2.22	2.94	3.13	13.94	6.39
1978	1.69	3.72	3.12	3.11	3.86	5.34	2.11	3.04	3.26	14.15	6.59
1979	1.56	3.90	4.59	4.23	4.15	7.26	3.35	4.57	4.36	16.55	7.95
1980	**1.67**	**4.67**	**6.37**	**6.29**	**5.31**	**10.10**	**4.59**	**6.06**	**5.43**	**19.84**	**10.31**
1981	1.89	5.46	8.04	7.62	6.52	11.38	5.49	7.69	6.56	24.36	12.79
1982	1.99	6.78	7.80	8.82	6.91	10.30	4.67	7.32	7.02	26.43	13.89
1983	1.98	7.24	7.46	7.72	7.37	9.56	4.51	6.64	6.88	26.50	13.65
1984	2.68	6.49	7.41	8.01	7.19	9.11	5.25	6.64	6.55	27.83	13.44
1985	**2.38**	**6.59**	**7.07**	**7.78**	**R 12.34**	**9.37**	**4.68**	**R 6.43**	**6.47**	**27.30**	**R 13.51**
1986	2.13	6.24	4.97	5.10	R 11.61	7.45	2.79	R 4.42	R 5.21	25.26	R 12.29
1987	2.73	5.59	4.88	5.62	R 11.77	7.93	3.12	R 4.61	R 5.09	24.53	R 12.26
1988	2.56	5.45	4.65	5.37	R 11.42	8.91	2.57	R 4.27	R 4.86	24.74	R 12.51
1989	2.61	5.88	5.51	6.38	R 10.03	9.30	3.04	R 4.98	5.42	25.99	R 12.87
1990	**2.63**	**6.10**	**6.80**	**7.80**	**R 11.67**	**10.06**	**3.25**	**R 6.13**	**R 6.11**	**27.09**	**R 14.39**
1991	2.66	6.69	6.09	6.83	R 12.90	10.04	2.69	R 6.37	R 6.53	28.21	15.42
1992	2.66	7.00	5.45	5.88	R 10.56	10.19	2.53	R 6.29	6.62	R 29.31	R 15.02
1993	2.34	6.84	5.22	5.83	R 10.62	10.09	2.66	R 6.63	6.73	R 29.82	15.71
1994	2.21	7.17	5.01	R 5.50	R 10.42	10.33	3.16	R 6.01	R 6.72	29.67	R 15.20
1995	**2.30**	**7.35**	**4.94**	**5.49**	**10.69**	**11.05**	**3.38**	**5.25**	**6.57**	**30.67**	**15.88**
	Expenditures in Million Nominal Dollars										
1970	**0.3**	**21.3**	**29.5**	**0.1**	**0.8**	**1.5**	**2.6**	**34.4**	**56.1**	**113.5**	**169.6**
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	32.3	0.1	0.8	2.4	3.6	39.2	67.0	159.2	226.2
1973	0.3	28.1	39.0	0.1	0.7	3.5	4.5	47.8	76.2	184.8	261.0
1974	0.4	36.2	63.7	0.1	1.1	5.3	9.2	79.4	116.0	249.8	365.8
1975	**0.4**	**42.3**	**59.7**	**0.2**	**1.5**	**5.8**	**8.1**	**75.2**	**117.9**	**280.4**	**398.3**
1976	0.3	53.8	71.8	0.1	1.7	6.1	9.8	89.6	143.7	289.4	433.1
1977	0.3	59.9	79.4	0.1	1.9	6.7	12.1	100.2	160.4	309.4	469.8
1978	0.3	63.8	83.9	0.1	1.8	7.3	12.6	105.8	169.9	324.2	494.1
1979	0.2	66.4	155.5	0.2	1.5	9.8	12.0	178.9	245.5	388.7	634.3
1980	**0.2**	**96.1**	**107.8**	**0.2**	**2.0**	**14.6**	**33.8**	**158.4**	**254.8**	**476.4**	**731.2**
1981	0.7	127.5	137.4	0.5	2.5	16.8	27.2	184.3	312.6	625.4	937.9
1982	0.5	161.0	135.1	0.1	2.5	15.9	22.4	175.9	337.5	695.9	1,033.4
1983	0.4	165.9	140.7	3.0	3.2	9.6	41.0	197.4	363.8	738.8	1,102.5
1984	1.1	165.6	143.2	1.4	2.5	6.9	65.1	219.2	385.9	785.9	1,171.7
1985	**0.8**	**166.9**	**146.1**	**2.8**	**R 5.0**	**7.0**	**49.4**	**R 210.3**	**R 378.0**	**813.3**	**R 1,191.3**
1986	0.8	158.9	102.0	1.9	R 4.2	5.7	28.2	R 142.0	R 301.7	798.8	R 1,100.5
1987	0.7	158.9	89.2	3.6	R 6.0	7.2	25.6	R 131.6	R 291.2	820.1	R 1,111.3
1988	0.3	154.0	81.9	2.0	R 5.5	7.7	22.0	R 119.2	R 273.5	871.0	R 1,144.5
1989	0.3	187.1	110.1	5.2	R 5.5	9.3	29.6	R 159.7	R 347.1	944.0	R 1,291.1
1990	**0.3**	**185.3**	**116.0**	**2.3**	**R 6.4**	**10.7**	**21.4**	**R 156.8**	**R 342.4**	**990.0**	**R 1,332.4**
1991	0.3	185.2	105.9	6.5	R 7.8	34.6	9.0	R 163.7	R 349.2	1,050.0	R 1,399.2
1992	0.7	214.8	93.4	1.5	R 8.2	84.3	14.2	R 201.7	R 417.2	R 1,085.2	R 1,502.4
1993	0.3	220.6	78.0	1.5	R 7.1	84.2	6.9	R 177.6	R 398.5	R 1,123.6	R 1,522.1
1994	0.3	288.8	72.1	1.6	R 6.3	56.5	13.0	R 149.5	R 438.6	R 1,135.0	R 1,573.5
1995	**0.7**	**286.7**	**84.0**	**0.8**	**6.0**	**14.5**	**9.7**	**115.0**	**402.5**	**1,182.1**	**1,584.7**

[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 50. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Connecticut

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.79**	**0.79**	**1.03**	**0.68**	**0.73**	**0.79**	**1.42**	**5.08**	**2.96**	**0.43**	**0.91**	**0.69**	**—**	**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	0.66	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	1.54	2.24	2.43	2.32	7.22	4.38	2.02	2.46	2.16	—	2.09	9.10	3.07
1975	**—**	**2.00**	**2.00**	**2.24**	**1.91**	**2.41**	**2.67**	**2.89**	**7.48**	**4.61**	**2.12**	**2.97**	**2.30**	**—**	**2.29**	**10.51**	**3.45**
1976	—	1.60	1.60	2.65	1.98	2.52	2.72	3.29	7.05	4.80	2.08	3.23	2.34	—	2.38	10.39	3.39
1977	—	1.69	1.69	2.94	2.06	2.78	2.99	3.53	6.97	5.11	2.31	3.51	2.58	—	2.62	10.85	3.67
1978	—	1.69	1.69	3.04	2.25	2.88	3.11	3.86	7.60	5.34	2.34	3.64	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	12.86	5.20
1980	**—**	**—**	**—**	**4.08**	**3.67**	**5.75**	**6.29**	**5.31**	**14.36**	**10.10**	**4.55**	**7.68**	**5.40**	**—**	**5.13**	**16.60**	**7.04**
1981	—	1.89	1.89	4.97	5.40	6.93	7.62	6.52	18.00	11.38	5.74	9.43	7.32	—	6.59	20.63	9.96
1982	—	1.99	1.99	5.86	4.08	7.74	8.82	6.91	17.25	10.30	4.88	8.66	6.54	—	6.32	21.87	9.79
1983	—	1.98	1.98	5.76	4.24	7.42	7.72	7.37	16.98	9.56	4.67	8.11	6.63	—	6.29	22.00	10.44
1984	—	2.68	2.68	5.47	4.63	6.95	8.01	7.19	17.63	9.11	5.25	8.19	6.60	—	6.21	22.42	10.29
1985	**—**	**2.38**	**2.38**	**5.38**	**5.20**	**6.75**	**7.78**	**[R] 12.34**	**17.61**	**9.37**	**4.68**	**7.94**	**[R] 6.44**	**—**	**[R] 6.12**	**21.93**	**[R] 9.91**
1986	—	2.13	2.13	4.53	4.86	4.43	5.10	[R] 11.61	15.59	7.45	2.79	5.46	[R] 4.79	—	[R] 4.71	20.00	[R] 8.53
1987	—	2.73	2.73	4.08	3.58	4.88	5.62	[R] 11.77	[R] 13.58	7.93	3.12	6.30	[R] 4.83	—	[R] 4.60	19.93	[R] 8.28
1988	—	2.56	2.56	3.92	3.39	4.67	5.37	[R] 11.42	[R] 14.62	8.91	2.57	5.31	[R] 4.55	—	[R] 4.34	20.17	[R] 8.26
1989	—	2.61	2.61	4.36	3.20	5.54	6.38	[R] 10.03	14.48	9.30	3.04	6.14	[R] 4.97	—	[R] 4.77	21.11	[R] 8.89
1990	**—**	**2.63**	**2.63**	**4.65**	**3.38**	**6.77**	**7.80**	**[R] 11.67**	**14.60**	**10.06**	**3.25**	**6.78**	**[R] 5.61**	**[d R] 1.48**	**[d R] 4.97**	**[R] 22.13**	**[d R] 9.04**
1991	—	2.66	2.66	4.69	3.05	5.93	6.83	[R] 12.90	[R] 16.80	10.04	2.69	6.23	[R] 5.11	[R] 1.52	[R] 4.71	[R] 23.23	[R] 8.62
1992	—	2.66	2.66	4.79	2.80	5.11	5.88	[R] 10.56	[R] 18.32	10.19	2.53	6.67	[R] 4.98	[R] 1.41	[R] 4.66	24.09	8.59
1993	—	2.34	2.34	4.64	3.30	5.06	5.83	[R] 10.62	[R] 18.96	10.09	2.66	5.91	[R] 4.95	[R] 1.41	[R] 4.56	24.30	8.42
1994	—	2.21	2.21	4.36	3.66	4.78	5.50	[R] 8.85	[R] 19.11	10.33	3.16	6.00	[R] 5.11	[R] 1.33	4.48	[R] 23.15	[R] 8.56
1995	**—**	**2.30**	**2.30**	**4.26**	**3.79**	**4.77**	**5.49**	**7.58**	**19.40**	**11.05**	**3.38**	**6.38**	**5.38**	**1.20**	**4.38**	**23.26**	**8.32**
	Expenditures in Million Nominal Dollars																
1970	**—**	**2.7**	**2.7**	**15.3**	**4.6**	**8.3**	**1.0**	**4.8**	**10.2**	**4.2**	**37.0**	**31.0**	**101.1**	**—**	**119.2**	**74.3**	**193.4**
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	—	96.8	79.8	176.6
1972	—	1.3	1.3	16.5	8.2	8.5	1.1	5.8	9.0	2.7	46.6	3.4	85.4	—	103.1	97.9	201.0
1973	—	1.4	1.4	21.3	8.6	14.1	0.9	6.4	10.6	1.5	59.3	4.2	105.6	—	128.3	114.7	242.9
1974	—	2.1	2.1	27.9	11.2	27.7	3.2	10.6	13.8	1.7	128.8	8.6	205.8	—	235.7	166.7	402.4
1975	**—**	**1.4**	**1.4**	**34.9**	**16.0**	**27.2**	**4.3**	**13.8**	**9.1**	**0.9**	**121.7**	**9.7**	**202.7**	**—**	**239.0**	**181.2**	**420.1**
1976	—	0.7	0.7	43.8	14.7	34.3	6.8	17.5	9.5	2.5	151.2	21.3	257.8	—	302.3	189.0	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	—	(s)	(s)	50.6	17.0	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	48.8	3.9	12.3	14.5	2.6	172.0	48.9	317.9	—	383.9	265.1	649.0
1980	**—**	**—**	**—**	**84.7**	**15.3**	**108.4**	**9.0**	**15.3**	**18.1**	**3.5**	**191.1**	**75.8**	**436.4**	**—**	**521.2**	**336.6**	**857.8**
1981	—	(s)	(s)	105.1	28.1	60.5	9.0	14.6	21.8	3.1	91.2	116.0	344.2	—	449.3	444.7	894.0
1982	—	0.1	0.1	129.0	21.3	68.7	5.9	17.9	19.0	2.9	96.8	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	51.9	72.7	237.4	—	362.5	455.5	818.0
1984	—	0.3	0.3	117.5	28.7	51.1	0.6	18.3	21.7	3.6	79.6	71.1	274.8	—	392.6	477.7	870.2
1985	**—**	**0.2**	**0.2**	**105.0**	**72.2**	**42.2**	**1.9**	**[R] 22.2**	**20.2**	**11.1**	**64.8**	**66.5**	**[R] 301.1**	**—**	**[R] 406.3**	**457.4**	**[R] 863.7**
1986	—	0.4	0.4	82.6	68.6	27.2	2.1	[R] 19.1	17.5	9.3	40.8	30.4	[R] 214.9	—	[R] 298.0	421.5	[R] 719.5
1987	—	0.2	0.2	83.4	50.9	48.2	1.9	[R] 25.9	[R] 17.2	9.8	38.9	34.6	[R] 227.5	—	[R] 311.0	424.9	[R] 736.0
1988	—	1.0	1.0	78.7	41.7	36.2	7.8	[R] 25.6	17.9	12.5	33.9	29.5	[R] 205.1	—	[R] 284.8	434.0	[R] 718.8
1989	—	0.1	0.1	89.0	38.2	46.9	8.7	[R] 20.9	18.2	13.5	32.4	33.4	[R] 212.1	—	[R] 301.2	449.0	[R] 750.2
1990	**—**	**0.1**	**0.1**	**122.2**	**35.6**	**40.2**	**3.0**	**[R] 23.2**	**18.9**	**13.8**	**29.3**	**41.1**	**[R] 204.9**	**[d R] 6.1**	**[d R] 333.2**	**[R] 460.6**	**[d R] 793.8**
1991	—	0.2	0.2	158.1	40.0	37.3	1.4	[R] 15.2	19.4	12.6	16.8	42.9	[R] 185.6	[R] 6.5	[R] 350.4	[R] 461.5	[R] 811.9
1992	—	0.8	0.8	179.0	31.2	27.7	0.3	[R] 16.0	[R] 21.6	12.9	19.5	47.0	[R] 176.1	[R] 6.8	[R] 362.7	[R] 475.1	[R] 837.8
1993	—	1.7	1.7	175.7	34.5	24.2	0.8	[R] 15.9	22.7	10.4	24.1	41.8	[R] 174.4	[R] 6.7	[R] 358.6	464.0	[R] 822.6
1994	—	1.6	1.6	137.6	40.7	21.2	1.4	[R] 10.6	24.0	10.6	26.1	43.2	[R] 177.8	[R] 7.0	[R] 323.9	[R] 467.4	[R] 791.3
1995	**—**	**(s)**	**(s)**	**145.3**	**48.0**	**22.9**	**3.0**	**9.7**	**23.9**	**11.3**	**16.3**	**43.4**	**178.6**	**11.0**	**334.9**	**469.4**	**804.3**

[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 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.
(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 51. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Connecticut

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.79**	**—**	**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	0.64	2.71	2.71	—	2.71
1973	1.10	—	2.36	1.81	0.93	1.38	5.33	3.28	0.74	2.94	2.94	—	2.94
1974	1.42	—	3.23	2.72	1.61	2.32	7.22	4.38	1.78	4.03	4.03	—	4.03
1975	**2.00**	**—**	**3.45**	**2.90**	**2.09**	**2.89**	**7.48**	**4.61**	**1.72**	**4.30**	**4.30**	**—**	**4.30**
1976	1.60	—	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	3.53	6.97	5.11	1.98	4.81	4.81	—	4.81
1978	—	—	4.29	3.79	2.97	3.86	7.60	5.34	1.69	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**	**14.36**	**10.10**	**3.88**	**9.69**	**9.69**	**—**	**9.69**
1981	—	—	10.84	9.02	7.80	6.52	18.00	11.38	4.74	11.08	11.08	—	11.08
1982	—	—	10.92	8.71	7.51	6.91	17.25	10.30	4.22	10.07	10.07	—	10.07
1983	—	—	10.44	8.80	7.13	7.37	16.98	9.56	4.22	9.39	9.39	—	9.39
1984	—	—	10.27	9.16	6.61	7.19	17.63	9.11	4.50	9.08	9.08	—	9.08
1985	**—**	**—**	**9.99**	**9.19**	**6.29**	**R 12.34**	**17.61**	**9.37**	**4.06**	**R 9.29**	**R 9.29**	**—**	**R 9.29**
1986	—	—	8.41	7.60	4.50	R 11.61	15.59	7.45	2.32	7.42	7.42	—	7.42
1987	—	—	7.55	7.35	4.34	R 11.77	R 13.58	7.93	2.73	R 7.71	R 7.71	—	R 7.71
1988	—	—	7.41	7.78	4.00	R 11.42	R 14.62	8.91	2.20	8.49	8.49	—	8.49
1989	—	—	8.28	8.33	4.67	R 10.03	14.48	9.30	2.63	8.89	8.89	—	8.89
1990	**—**	**—**	**9.32**	**9.74**	**5.91**	**R 11.67**	**14.60**	**10.06**	**2.74**	**9.76**	**9.76**	**—**	**9.76**
1991	—	—	8.71	9.42	5.10	R 12.90	R 16.80	10.04	2.29	9.68	9.68	—	9.68
1992	—	12.11	8.54	8.90	4.68	R 10.56	R 18.32	10.19	2.21	R 9.70	R 9.70	—	R 9.70
1993	—	8.73	8.24	8.85	4.41	R 10.62	R 18.96	10.09	2.28	9.62	9.62	—	9.62
1994	—	7.51	7.96	8.70	4.15	R 8.57	R 19.11	10.33	2.40	9.76	9.76	—	9.76
1995	**—**	**5.90**	**8.36**	**8.65**	**4.09**	**8.66**	**19.40**	**11.05**	**2.54**	**10.28**	**10.28**	**—**	**10.28**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**1.4**	**18.3**	**12.3**	**0.1**	**7.3**	**439.6**	**0.9**	**479.8**	**479.8**	**—**	**479.8**
1971	(s)	—	1.2	20.0	9.7	0.1	7.3	464.3	1.6	504.3	504.3	—	504.3
1972	(s)	—	1.2	22.2	11.1	0.1	8.3	481.2	2.1	526.3	526.3	—	526.3
1973	(s)	—	1.3	28.6	12.0	0.2	7.1	538.8	4.4	592.5	592.5	—	592.5
1974	(s)	—	1.7	41.4	20.5	0.3	9.2	717.6	8.0	798.7	798.7	—	798.7
1975	**(s)**	**—**	**1.6**	**40.5**	**23.8**	**0.3**	**8.9**	**763.5**	**6.3**	**844.8**	**844.8**	**—**	**844.8**
1976	(s)	—	1.4	45.1	24.9	0.4	9.3	813.8	7.6	902.5	902.5	—	902.5
1977	(s)	—	2.2	51.7	31.7	0.5	10.5	878.9	6.8	982.2	982.2	—	982.2
1978	—	—	2.2	58.8	35.5	0.8	12.2	922.6	5.3	1,037.4	1,037.4	—	1,037.4
1979	—	—	2.5	83.9	50.1	0.3	17.2	1,189.1	0.9	1,344.0	1,344.0	—	1,344.0
1980	**—**	**—**	**4.1**	**111.2**	**70.7**	**0.3**	**21.5**	**1,584.7**	**1.3**	**1,793.8**	**1,793.8**	**—**	**1,793.8**
1981	—	—	4.2	120.2	68.0	0.6	25.9	1,788.2	0.1	2,007.3	2,007.3	—	2,007.3
1982	—	—	3.3	187.4	45.5	0.6	22.6	1,606.9	0.2	1,866.5	1,866.5	—	1,866.5
1983	—	—	3.5	157.7	38.5	0.7	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	25.8	1,466.8	6.9	1,778.1	1,778.1	—	1,778.1
1985	**—**	**—**	**3.6**	**238.2**	**38.5**	**R 1.4**	**24.0**	**1,507.4**	**3.9**	**R 1,817.1**	**R 1,817.1**	**—**	**R 1,817.1**
1986	—	—	3.1	192.0	31.9	0.9	20.8	1,232.2	0.5	1,481.4	1,481.4	—	1,481.4
1987	—	—	2.1	197.6	43.7	0.9	R 20.5	1,331.0	1.2	R 1,597.1	R 1,597.1	—	R 1,597.1
1988	—	—	1.8	238.3	48.8	R 1.3	21.3	1,519.6	1.8	R 1,832.8	R 1,832.8	—	R 1,832.8
1989	—	—	1.7	306.5	59.2	R 1.2	21.6	1,552.8	1.1	R 1,944.2	R 1,944.2	—	R 1,944.2
1990	**—**	**—**	**4.4**	**281.2**	**78.4**	**R 1.5**	**22.4**	**1,611.6**	**1.5**	**R 2,001.0**	**R 2,001.0**	**—**	**R 2,001.0**
1991	—	—	1.2	243.0	64.7	R 1.9	23.1	1,633.5	1.3	R 1,968.8	R 1,968.8	—	R 1,968.8
1992	—	(s)	1.2	252.1	60.7	1.2	R 25.7	1,647.3	0.6	R 1,988.9	R 1,988.9	—	R 1,988.9
1993	—	(s)	1.2	248.9	57.8	1.2	R 27.1	1,659.2	0.5	R 1,995.9	R 1,995.9	—	R 1,995.9
1994	—	(s)	1.1	226.4	57.6	R 1.6	R 28.5	1,706.3	0.3	2,021.8	2,021.9	—	2,021.9
1995	**—**	**0.1**	**1.7**	**250.8**	**57.7**	**0.8**	**28.4**	**1,750.4**	**0.2**	**2,090.1**	**2,090.1**	**—**	**2,090.1**

[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.

(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 52. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Connecticut

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	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	0.43	0.65	0.91	—	0.66	0.15	—	0.50
1973	0.85	0.53	0.85	1.29	—	0.86	0.22	—	0.74
1974	1.11	0.63	2.06	2.28	—	2.06	0.20	—	1.41
1975	**1.24**	**1.36**	**2.02**	**2.36**	**—**	**2.02**	**0.29**	**—**	**1.35**
1976	1.25	1.65	1.94	2.40	—	1.94	0.26	—	1.07
1977	1.30	—	2.24	2.38	—	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**	**6.13**	**—**	**4.71**	**0.38**	**—**	**2.60**
1981	—	—	5.56	7.78	—	5.57	0.45	—	2.76
1982	—	—	4.75	7.31	—	4.76	0.53	—	2.31
1983	—	—	4.54	6.28	—	4.54	0.76	—	2.63
1984	2.26	3.71	4.84	6.21	—	4.85	0.90	—	2.70
1985	**2.35**	**3.39**	**4.24**	**5.88**	**—**	**4.25**	**0.91**	**—**	**2.38**
1986	2.27	2.09	2.51	3.59	—	2.51	0.91	—	1.54
1987	2.42	2.37	2.93	4.01	—	2.94	0.92	—	1.61
1988	2.29	2.17	2.40	3.64	—	2.41	0.86	0.87	1.42
1989	2.14	2.51	2.85	4.26	—	2.87	0.89	([b])	1.64
1990	**2.13**	**2.70**	**3.01**	**5.67**	**—**	**3.02**	**0.84**	**([b])**	**1.53**
1991	2.17	2.09	2.47	4.92	—	2.49	0.80	([b])	1.50
1992	1.95	2.66	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])	0.93
1994	1.77	1.96	2.52	3.82	—	2.54	0.56	([b])	0.93
1995	**1.88**	**1.98**	**2.63**	**3.82**	**—**	**2.66**	**0.56**	**([b])**	**1.02**
	Expenditures in Million Nominal Dollars								
1970	**19.7**	**0.1**	**48.8**	**2.2**	**—**	**51.0**	**5.3**	**—**	**76.1**
1971	18.2	(s)	71.9	3.8	—	75.7	13.0	—	106.9
1972	1.3	(s)	115.6	5.8	—	121.4	12.9	—	135.7
1973	0.6	(s)	158.7	5.6	—	164.3	10.4	—	175.2
1974	4.9	0.3	337.2	6.4	—	343.6	17.8	—	366.7
1975	**0.1**	**0.5**	**281.4**	**3.1**	**—**	**284.6**	**26.4**	**—**	**311.5**
1976	0.3	0.7	239.8	2.8	—	242.7	35.9	—	279.6
1977	0.3	—	265.0	1.6	—	266.6	38.0	—	304.9
1978	0.6	—	262.7	0.9	—	263.6	32.7	—	296.8
1979	0.3	—	381.5	2.7	—	384.2	43.0	—	427.5
1980	**—**	**—**	**633.0**	**6.0**	**—**	**639.0**	**49.1**	**—**	**688.1**
1981	—	—	636.9	4.2	—	641.1	63.2	—	704.3
1982	—	—	518.2	3.1	—	521.4	80.6	—	602.0
1983	—	—	561.1	2.5	—	563.6	95.5	—	659.2
1984	0.8	8.5	622.9	4.5	—	627.4	138.8	—	775.5
1985	**47.8**	**5.4**	**453.2**	**2.9**	**—**	**456.1**	**125.5**	**—**	**634.9**
1986	45.7	1.6	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	4.9	—	280.0	205.2	2.2	541.4
1989	49.9	8.5	338.7	4.9	—	343.6	186.1	([b])	588.1
1990	**54.0**	**13.5**	**265.2**	**2.3**	**—**	**267.4**	**177.5**	**([b])**	**512.4**
1991	48.2	10.2	200.3	3.1	—	203.4	105.5	([b])	367.2
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	88.9	1.9	—	90.7	121.6	([b])	266.4
1995	**43.5**	**38.8**	**92.5**	**2.9**	**—**	**95.4**	**111.6**	**([b])**	**289.3**

[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.

(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 53. Energy Price and Expenditure Estimates by Source, 1970-1995, Delaware

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**	**0.91**	**1.16**	**0.73**	**1.25**	**2.86**	**0.45**	**[R] 0.71**	**[R] 1.26**	**—**	**—**	**1.06**	**0.39**	**4.94**	**[R] 1.68**
1971	—	0.52	0.52	0.97	1.22	0.76	1.17	2.92	0.66	[R] 0.82	[R] 1.38	—	—	[R] 1.17	0.52	5.66	[R] 1.84
1972	—	0.54	0.54	1.12	1.23	0.76	1.27	2.98	0.65	[R] 0.90	[R] 1.33	—	—	1.22	0.58	6.66	[R] 1.98
1973	—	0.58	0.58	1.20	1.44	0.90	1.38	3.10	0.80	[R] 0.97	[R] 1.42	—	—	[R] 1.32	0.70	7.29	[R] 2.14
1974	—	1.10	1.10	1.49	2.39	1.56	2.30	4.10	1.98	[R] 1.56	[R] 2.43	—	—	[R] 2.21	1.70	10.27	[R] 3.32
1975	**—**	**1.16**	**1.16**	**1.80**	**2.53**	**2.03**	**3.60**	**4.54**	**1.92**	**[R] 2.00**	**[R] 2.74**	**—**	**—**	**[R] 2.47**	**1.63**	**11.69**	**[R] 3.85**
1976	—	1.02	1.02	1.91	2.74	2.17	3.78	4.58	1.87	[R] 2.42	[R] 2.79	—	—	[R] 2.54	1.62	11.83	[R] 3.94
1977	—	1.11	1.11	2.79	3.12	2.55	3.75	4.81	2.17	[R] 2.78	[R] 3.05	—	—	[R] 2.87	1.90	13.71	[R] 4.50
1978	—	1.29	1.29	3.13	3.27	2.83	5.06	4.94	2.04	[R] 2.86	[R] 3.16	—	—	[R] 2.97	1.84	14.19	[R] 4.84
1979	—	1.35	1.35	2.87	4.74	3.95	4.74	6.83	3.19	[R] 3.89	[R] 4.43	—	—	[R] 3.94	2.65	15.30	[R] 5.72
1980	**—**	**1.57**	**1.57**	**3.37**	**6.77**	**6.46**	**5.20**	**9.60**	**4.23**	**[R] 5.86**	**[R] 5.96**	**—**	**—**	**[R] 5.11**	**3.35**	**18.84**	**[R] 7.23**
1981	—	1.98	1.98	4.25	8.13	7.61	7.67	10.66	5.12	[R] 6.44	[R] 7.37	—	—	[R] 5.68	3.36	20.51	[R] 8.79
1982	—	2.08	2.08	4.84	7.75	7.18	7.75	10.02	4.60	[R] 5.60	[R] 7.04	—	—	[R] 5.49	3.06	22.35	[R] 8.90
1983	—	1.96	1.96	4.81	7.50	8.00	9.12	9.39	4.37	[R] 4.90	[R] 7.01	—	—	[R] 5.01	2.66	21.42	[R] 8.83
1984	—	1.93	1.93	4.82	7.64	7.12	8.01	8.95	4.70	[R] 4.82	[R] 6.94	—	—	[R] 4.99	2.73	21.04	[R] 8.57
1985	**—**	**1.87**	**1.87**	**4.87**	**7.54**	**6.63**	**10.65**	**9.39**	**4.16**	**[R] 5.25**	**[R] 7.10**	**—**	**—**	**[R] 5.07**	**2.48**	**21.42**	**[R] 8.88**
1986	—	1.87	1.87	4.43	5.87	4.87	10.76	6.97	2.32	[R] 3.63	[R] 5.04	—	—	[R] 3.99	2.01	19.09	[R] 7.41
1987	—	1.78	1.78	3.93	5.69	4.03	10.36	7.61	2.73	[R] 3.60	[R] 5.37	—	—	[R] 4.03	2.05	18.79	[R] 7.31
1988	—	1.77	1.77	4.04	5.63	4.16	10.14	8.07	2.24	[R] 3.43	[R] 5.19	—	—	[R] 4.02	1.96	19.54	[R] 7.69
1989	—	1.75	1.75	4.06	6.28	4.80	11.49	8.88	2.68	[R] 3.69	[R] 5.88	—	—	[R] 4.49	2.12	18.47	[R] 8.14
1990	**—**	**1.76**	**1.76**	**3.82**	**7.52**	**6.33**	**12.14**	**10.26**	**2.71**	**[R] 3.22**	**[R] 6.74**	**—**	**[d R] 2.39**	**[d R] 4.83**	**1.97**	**[R] 18.97**	**[d R] 8.84**
1991	—	1.75	1.75	3.43	6.98	5.51	13.06	9.51	2.25	[R] 3.33	[R] 6.09	—	2.39	[R] 4.51	1.92	[R] 19.71	[R] 8.52
1992	—	1.70	1.70	3.82	6.73	5.14	12.05	9.16	2.28	[R] 2.90	[R] 5.80	—	[R] 2.44	[R] 4.53	1.85	[R] 19.69	[R] 8.43
1993	—	1.67	1.67	4.04	6.68	4.88	11.58	8.98	2.24	[R] 4.02	[R] 5.87	—	[R] 2.47	[R] 4.39	1.93	[R] 20.52	[R] 8.37
1994	—	1.60	1.60	3.95	6.64	4.72	[R] 10.50	9.50	2.44	[R] 4.05	[R] 6.25	—	[R] 2.45	[R] 4.57	1.96	[R] 19.94	[R] 8.62
1995	**—**	**1.58**	**1.58**	**3.30**	**6.64**	**4.74**	**11.25**	**10.06**	**2.58**	**4.26**	**7.04**	**—**	**2.48**	**4.70**	**1.95**	**20.30**	**8.99**
	Expenditures in Million Nominal Dollars																
1970	**—**	**14.5**	**14.5**	**24.4**	**29.1**	**8.1**	**10.6**	**93.8**	**18.6**	**[R] 13.7**	**[R] 173.9**	**—**	**—**	**[R] 212.8**	**-23.1**	**75.7**	**[R] 265.4**
1971	—	19.1	19.1	26.1	30.8	8.3	10.1	100.0	25.8	[R] 17.5	[R] 192.6	—	—	[R] 237.8	-30.0	88.7	[R] 296.4
1972	—	12.7	12.7	27.3	31.3	7.8	12.5	105.3	38.4	[R] 17.6	[R] 212.9	—	—	[R] 252.9	-32.6	112.7	[R] 333.0
1973	—	12.1	12.1	27.9	36.8	8.4	14.2	116.3	63.9	[R] 17.3	[R] 256.9	—	—	[R] 296.9	-44.7	132.5	[R] 384.8
1974	—	23.4	23.4	30.8	60.5	14.7	23.3	151.0	152.4	[R] 28.3	[R] 430.1	—	—	[R] 484.4	-123.9	181.7	[R] 542.2
1975	**—**	**26.6**	**26.6**	**34.0**	**62.2**	**18.0**	**34.9**	**168.4**	**123.3**	**[R] 31.9**	**[R] 438.7**	**—**	**—**	**[R] 499.3**	**-106.3**	**202.1**	**[R] 595.0**
1976	—	20.6	20.6	37.3	72.4	18.4	35.5	177.9	132.1	[R] 48.2	[R] 484.6	—	—	[R] 542.5	-109.7	213.1	[R] 645.9
1977	—	19.6	19.6	45.2	85.9	22.9	36.4	185.2	164.9	[R] 55.7	[R] 550.9	—	—	[R] 615.7	-132.1	252.5	[R] 736.1
1978	—	28.2	28.2	66.1	79.2	21.6	50.8	189.9	146.7	[R] 58.3	[R] 546.3	—	—	[R] 640.6	-137.9	271.2	[R] 773.9
1979	—	32.2	32.2	73.3	100.0	30.2	121.8	251.1	222.2	[R] 93.3	[R] 818.5	—	—	[R] 924.0	-195.8	303.8	[R] 1,032.1
1980	**—**	**44.1**	**44.1**	**102.9**	**146.5**	**54.6**	**56.7**	**333.5**	**335.5**	**[R] 136.6**	**[R] 1,063.5**	**—**	**—**	**[R] 1,210.5**	**-239.3**	**368.7**	**[R] 1,339.9**
1981	—	99.5	99.5	133.0	147.4	60.6	24.1	385.5	270.3	[R] 112.7	[R] 1,000.6	—	—	[R] 1,233.1	-291.0	359.5	[R] 1,301.6
1982	—	99.4	99.4	137.2	123.6	57.2	24.5	348.5	177.0	[R] 93.9	[R] 824.8	—	—	[R] 1,061.3	-224.5	383.1	[R] 1,219.9
1983	—	142.9	142.9	166.3	147.2	59.1	28.9	356.0	134.8	[R] 76.3	[R] 802.3	—	—	[R] 1,111.5	-263.9	402.6	[R] 1,250.2
1984	—	140.5	140.5	205.7	156.9	60.8	37.4	350.0	140.3	[R] 73.4	[R] 818.7	—	—	[R] 1,164.9	-266.9	442.8	[R] 1,340.8
1985	**—**	**133.3**	**133.3**	**188.6**	**150.0**	**56.0**	**37.9**	**372.5**	**92.7**	**[R] 119.1**	**[R] 828.1**	**—**	**—**	**[R] 1,150.0**	**-229.9**	**457.9**	**[R] 1,377.9**
1986	—	124.1	124.1	145.4	113.0	35.2	34.2	282.7	72.6	[R] 68.4	[R] 606.1	—	—	[R] 875.7	-179.4	440.0	[R] 1,136.3
1987	—	125.1	125.1	144.1	126.8	27.9	37.9	314.6	79.3	[R] 64.5	[R] 651.0	—	—	[R] 920.1	-186.2	446.3	[R] 1,180.2
1988	—	121.8	121.8	118.9	126.3	30.5	37.0	347.3	87.1	[R] 58.3	[R] 686.4	—	—	[R] 927.2	-185.6	499.4	[R] 1,241.0
1989	—	106.4	106.4	143.4	154.2	32.4	39.3	380.3	94.4	[R] 63.3	[R] 764.0	—	—	[R] 1,013.8	-191.6	504.3	[R] 1,326.6
1990	**—**	**104.9**	**104.9**	**150.9**	**140.9**	**44.4**	**44.7**	**429.3**	**63.4**	**[R] 77.6**	**[R] 800.2**	**—**	**[d] 3.9**	**[d R] 1,060.0**	**-171.0**	**[R] 532.6**	**[d R] 1,421.6**
1991	—	99.1	99.1	145.9	139.1	70.9	51.3	389.3	67.1	[R] 76.2	[R] 793.8	—	4.1	[R] 1,043.0	-175.9	[R] 568.2	[R] 1,435.3
1992	—	78.4	78.4	153.5	126.9	40.1	40.2	392.5	67.3	[R] 73.5	[R] 740.5	—	[R] 4.1	[R] 976.6	-145.2	[R] 567.6	[R] 1,399.0
1993	—	105.8	105.8	170.6	138.6	37.8	42.1	392.2	84.4	[R] 63.5	[R] 758.5	—	4.4	[R] 1,039.2	-170.3	[R] 632.5	[R] 1,501.5
1994	—	91.7	91.7	196.0	137.8	14.4	[R] 47.4	414.5	82.0	[R] 67.4	[R] 763.5	—	4.4	[R] 1,055.6	-170.9	[R] 626.8	[R] 1,511.5
1995	**—**	**82.9**	**82.9**	**204.5**	**131.2**	**2.0**	**54.8**	**447.6**	**59.4**	**66.6**	**761.5**	**—**	**4.7**	**1,053.6**	**-164.8**	**657.5**	**1,546.3**

[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 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 54. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Delaware

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.13**	**1.55**	**1.42**	**1.34**	**2.40**	**1.51**	**—**	**1.52**	**7.53**	**2.39**
1971	1.25	1.60	1.44	1.44	2.25	1.52	—	1.54	8.11	2.53
1972	1.47	1.68	1.45	1.52	2.57	1.56	—	1.60	9.37	2.77
1973	1.55	1.82	1.69	1.90	3.32	1.86	—	1.85	9.79	3.25
1974	2.27	2.07	2.58	2.93	3.79	2.73	—	2.50	13.11	4.38
1975	**2.73**	**2.39**	**2.71**	**3.37**	**4.73**	**2.99**	**—**	**2.78**	**13.93**	**5.15**
1976	1.75	2.56	2.90	3.28	4.87	3.15	—	2.95	14.29	5.29
1977	2.67	3.17	3.32	3.85	4.61	3.48	—	3.37	16.26	6.23
1978	2.96	3.95	3.45	4.09	6.59	3.80	—	3.86	16.63	6.87
1979	3.02	3.92	4.92	5.53	6.11	5.55	—	5.11	18.08	7.53
1980	**3.38**	**4.16**	**6.88**	**8.55**	**8.53**	**7.34**	**—**	**6.05**	**21.76**	**10.19**
1981	4.16	5.35	8.46	10.80	8.98	8.93	—	7.36	25.02	11.48
1982	4.22	5.85	8.03	10.56	9.61	8.83	—	7.47	28.57	12.63
1983	3.73	6.49	7.64	9.38	11.35	8.41	—	7.69	28.24	12.50
1984	4.07	6.55	7.90	9.22	10.16	8.41	—	7.68	27.19	12.84
1985	**3.76**	**6.91**	**7.54**	**8.80**	**10.37**	**8.33**	**—**	**7.86**	**27.29**	**12.67**
1986	3.75	6.97	6.13	7.15	11.18	7.13	—	7.04	24.88	12.47
1987	3.50	6.26	5.72	6.67	10.86	6.68	—	6.46	24.21	11.69
1988	3.65	5.90	5.78	6.74	10.04	6.63	—	6.32	24.65	11.91
1989	3.51	6.33	6.36	7.42	13.10	7.71	—	7.12	23.91	12.47
1990	**3.75**	**6.04**	**7.63**	**8.90**	**13.54**	**9.19**	**[d] 3.53**	**[d] 7.52**	**[R] 24.60**	**[d R] 13.02**
1991	3.60	5.72	7.19	8.39	14.48	9.13	3.53	7.41	[R] 25.25	[R] 13.27
1992	3.74	5.93	6.66	7.77	13.31	8.39	3.53	7.07	[R] 25.38	[R] 12.82
1993	3.65	6.47	6.48	7.56	12.71	8.12	3.53	7.11	[R] 26.42	[R] 13.31
1994	3.52	7.18	6.45	7.52	[R] 11.82	[R] 7.88	3.53	[R] 7.35	[R] 26.11	[R] 13.37
1995	**3.34**	**6.37**	**6.27**	**7.32**	**12.60**	**8.30**	**3.53**	**7.24**	**26.63**	**13.53**
	Expenditures in Million Nominal Dollars									
1970	**0.1**	**12.4**	**16.8**	**2.8**	**3.8**	**23.4**	**—**	**35.9**	**30.0**	**65.9**
1971	0.1	13.3	17.4	2.9	3.3	23.7	—	37.1	34.5	71.6
1972	0.1	14.3	18.8	2.9	4.0	25.6	—	40.1	41.7	81.7
1973	0.1	13.9	20.5	3.2	4.7	28.4	—	42.5	48.2	90.7
1974	0.2	15.6	29.4	4.0	5.2	38.6	—	54.3	61.6	115.9
1975	**0.2**	**16.9**	**29.4**	**4.1**	**6.9**	**40.4**	**—**	**57.5**	**77.9**	**135.5**
1976	0.1	19.3	34.9	4.2	8.0	47.1	—	66.4	83.7	150.1
1977	0.1	23.4	39.0	3.3	6.4	48.7	—	72.3	99.3	171.6
1978	0.1	30.3	36.0	3.1	8.3	47.3	—	77.7	103.3	181.1
1979	0.1	28.1	42.3	8.2	59.6	110.1	—	138.3	112.0	250.4
1980	**0.2**	**29.7**	**52.7**	**13.3**	**11.7**	**77.8**	**—**	**107.7**	**138.6**	**246.2**
1981	0.2	37.7	50.7	15.7	14.8	81.2	—	119.0	123.2	242.2
1982	0.5	40.4	41.8	19.4	13.1	74.3	—	115.2	142.9	258.1
1983	0.2	41.0	60.8	12.7	18.4	91.8	—	133.0	149.0	282.0
1984	0.2	45.7	64.4	9.1	19.6	93.2	—	139.0	176.6	315.7
1985	**0.2**	**43.9**	**58.5**	**32.4**	**22.1**	**113.0**	**—**	**157.1**	**179.1**	**336.2**
1986	0.4	48.6	37.7	12.9	16.8	67.5	—	116.4	180.1	296.5
1987	1.3	44.7	44.7	12.8	19.5	76.9	—	122.9	192.4	315.3
1988	0.6	45.5	46.9	11.6	20.0	78.4	—	124.6	213.0	337.6
1989	0.6	48.8	48.9	11.3	26.4	86.6	—	136.0	214.0	350.0
1990	**0.7**	**44.6**	**43.0**	**7.3**	**28.1**	**78.4**	**[d] 2.2**	**[d] 125.9**	**[R] 222.5**	**[d R] 348.4**
1991	0.6	42.1	42.6	7.9	33.0	83.5	2.3	128.5	[R] 243.3	[R] 371.9
1992	(s)	50.2	40.4	6.3	29.8	76.5	2.4	129.2	[R] 241.3	[R] 370.5
1993	1.5	55.6	42.9	4.5	30.8	78.2	2.6	137.9	[R] 274.4	[R] 412.3
1994	0.9	63.6	44.3	4.1	[R] 30.1	[R] 78.5	2.6	[R] 145.5	[R] 276.8	[R] 422.3
1995	**(s)**	**56.1**	**39.4**	**5.0**	**39.2**	**83.6**	**2.9**	**142.6**	**287.8**	**430.5**

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

Table 55. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Delaware

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.28**	**1.22**	**1.12**	**0.85**	**0.99**	**2.86**	**0.46**	**0.68**	**0.76**	**6.56**	**1.55**
1971	0.46	1.25	1.14	0.86	0.95	2.92	0.66	0.83	0.89	7.10	1.80
1972	0.40	1.33	1.14	0.86	1.02	2.98	0.64	0.81	0.90	8.07	2.04
1973	0.43	1.36	1.32	0.98	1.07	3.10	0.81	0.96	1.02	8.56	2.26
1974	0.93	1.60	2.23	2.15	2.06	4.10	2.01	2.11	2.01	11.86	3.92
1975	**1.20**	**1.87**	**2.39**	**2.36**	**3.40**	**4.54**	**1.95**	**2.17**	**2.11**	**12.76**	**4.54**
1976	1.02	1.94	2.57	2.56	3.55	4.58	1.84	2.17	2.13	13.22	4.51
1977	1.34	2.88	2.98	2.94	3.61	4.81	2.18	2.48	2.54	16.20	5.43
1978	1.19	3.75	3.10	3.12	4.84	4.94	2.01	2.49	2.74	16.97	6.24
1979	1.25	3.64	4.45	4.27	3.90	6.83	3.31	3.66	3.66	18.14	6.73
1980	**1.20**	**3.92**	**6.30**	**6.36**	**4.72**	**9.60**	**4.24**	**4.54**	**4.47**	**20.78**	**6.60**
1981	1.39	5.01	7.93	7.56	6.21	10.66	5.14	5.88	5.71	22.35	8.89
1982	1.37	5.41	7.48	7.82	6.34	10.02	4.64	5.50	5.43	22.74	9.85
1983	1.34	5.99	6.53	6.79	6.79	9.39	4.43	6.03	5.96	24.39	13.87
1984	1.32	6.06	6.55	6.81	6.49	8.95	4.76	5.91	5.97	22.89	13.02
1985	**1.33**	**6.30**	**6.27**	**6.77**	**11.06**	**9.39**	**4.35**	**6.80**	**6.48**	**22.97**	**14.05**
1986	1.33	6.26	4.58	4.58	10.37	6.97	2.68	4.63	5.44	20.37	12.73
1987	1.30	5.12	4.36	4.65	9.88	7.61	2.87	4.60	4.59	19.77	11.47
1988	1.32	4.84	4.26	4.24	10.26	8.07	2.31	4.44	4.53	20.53	11.95
1989	1.28	5.32	4.75	4.91	9.19	8.88	2.81	4.64	4.86	19.78	12.05
1990	**1.22**	**5.04**	**5.62**	**6.31**	**10.33**	**10.26**	**3.13**	**5.56**	**5.11**	**[R] 20.47**	**[R] 12.74**
1991	1.35	4.69	4.95	5.63	11.09	9.51	2.38	5.66	4.98	[R] 20.85	[R] 13.01
1992	1.32	4.78	4.67	5.35	9.50	9.16	2.43	5.13	4.91	[R] 20.79	[R] 12.95
1993	1.27	5.27	4.38	5.16	9.32	8.98	2.35	4.26	4.58	[R] 21.54	[R] 12.66
1994	1.27	5.96	4.23	[R] 5.08	10.46	9.50	2.46	[R] 4.64	5.29	[R] 20.78	[R] 13.12
1995	**1.26**	**5.10**	**4.06**	**5.43**	**10.21**	**10.06**	**2.62**	**4.86**	**5.01**	**21.03**	**13.41**
	Expenditures in Million Nominal Dollars										
1970	**(s)**	**3.5**	**5.1**	**0.2**	**0.3**	**0.4**	**5.0**	**11.0**	**14.5**	**19.9**	**34.4**
1971	(s)	3.8	5.3	0.2	0.2	0.4	7.2	13.3	17.2	23.4	40.6
1972	(s)	4.3	5.7	0.2	0.3	0.3	6.9	13.4	17.7	30.1	47.8
1973	(s)	4.3	6.2	0.2	0.3	0.3	10.2	17.2	21.5	35.4	56.9
1974	(s)	5.2	9.8	0.4	0.5	0.5	15.5	26.8	32.0	45.7	77.6
1975	**(s)**	**5.6**	**10.0**	**0.4**	**0.9**	**0.8**	**14.7**	**26.8**	**32.5**	**58.0**	**90.5**
1976	(s)	6.1	11.9	0.5	1.0	0.9	15.6	30.0	36.1	61.2	97.2
1977	(s)	8.3	13.5	0.4	0.9	0.9	21.8	37.5	45.8	78.1	123.9
1978	(s)	11.6	12.5	0.3	1.1	0.9	14.9	29.7	41.3	83.1	124.4
1979	(s)	10.6	14.8	0.9	6.7	1.4	34.9	58.6	69.3	92.3	161.6
1980	**0.1**	**13.1**	**23.3**	**0.3**	**1.1**	**2.3**	**113.8**	**140.8**	**154.0**	**107.3**	**261.3**
1981	(s)	19.6	29.2	0.3	1.8	2.9	63.4	97.7	117.3	108.8	226.2
1982	0.2	20.0	18.0	0.5	1.5	3.1	35.4	58.7	78.9	113.4	192.3
1983	0.1	20.8	11.5	0.3	1.9	2.0	5.1	20.9	41.8	128.6	170.5
1984	(s)	23.6	11.8	0.2	2.2	1.3	7.6	23.1	46.7	128.1	174.8
1985	**0.1**	**22.0**	**12.2**	**2.0**	**4.2**	**1.9**	**1.9**	**22.1**	**44.2**	**133.0**	**177.3**
1986	0.2	22.4	6.5	0.4	2.8	1.4	2.6	13.8	36.3	129.6	165.9
1987	0.8	19.3	9.2	0.4	3.1	1.7	3.0	17.4	37.6	133.9	171.5
1988	0.4	19.9	9.7	0.6	3.6	1.7	2.6	18.2	38.5	151.0	189.5
1989	0.4	22.6	8.2	0.2	3.3	1.8	4.1	17.6	40.6	154.0	194.6
1990	**0.4**	**20.7**	**11.1**	**0.4**	**3.8**	**1.9**	**3.6**	**20.6**	**41.8**	**[R] 164.9**	**[R] 206.6**
1991	0.4	20.5	12.7	0.4	4.5	1.7	0.8	20.0	40.9	[R] 175.7	[R] 216.6
1992	(s)	24.5	9.5	(s)	3.8	1.7	1.4	16.3	40.9	[R] 177.2	[R] 218.1
1993	1.0	28.4	8.5	0.2	4.0	0.4	3.3	16.4	45.7	[R] 195.5	[R] 241.2
1994	0.6	33.7	6.4	0.2	4.7	0.4	2.5	14.2	48.5	[R] 194.6	[R] 243.1
1995	**(s)**	**30.3**	**6.4**	**0.1**	**5.6**	**0.4**	**2.2**	**14.7**	**45.1**	**208.1**	**253.2**

[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.

(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 56. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Delaware

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.28**	**0.28**	**0.57**	**0.66**	**0.78**	**0.85**	**0.99**	**5.08**	**2.86**	**0.46**	**[R] 0.51**	**[R] 0.68**	**—**	**[R] 0.65**	**3.10**	**[R] 1.00**
1971	—	0.46	0.46	0.62	0.70	0.79	0.86	0.95	5.27	2.92	0.66	[R] 0.77	[R] 0.81	—	[R] 0.76	3.79	[R] 1.18
1972	—	0.40	0.40	0.74	0.75	0.78	0.86	1.02	5.58	2.98	0.65	[R] 0.75	[R] 0.82	—	[R] 0.80	4.67	[R] 1.35
1973	—	0.43	0.43	0.80	0.79	0.90	0.98	1.07	5.33	3.10	0.79	[R] 0.79	[R] 0.90	—	[R] 0.87	5.37	[R] 1.46
1974	—	0.93	0.93	0.99	1.34	1.98	2.15	2.06	7.22	4.10	1.88	[R] 1.28	[R] 1.82	—	[R] 1.67	8.15	[R] 2.65
1975	**—**	**1.20**	**1.20**	**1.37**	**1.76**	**2.19**	**2.36**	**3.40**	**7.48**	**4.54**	**1.87**	**[R] 1.83**	**[R] 2.26**	**—**	**[R] 2.11**	**9.25**	**[R] 3.07**
1976	—	1.02	1.02	1.44	1.79	2.36	2.56	3.55	7.05	4.58	1.82	[R] 2.42	[R] 2.42	—	[R] 2.27	9.06	[R] 3.18
1977	—	1.34	1.34	2.42	1.97	2.69	2.94	3.61	6.97	4.81	2.16	[R] 2.77	[R] 2.75	—	[R] 2.70	10.03	[R] 3.68
1978	—	1.19	1.19	2.44	2.19	2.84	3.12	4.84	7.60	4.94	2.08	[R] 2.81	[R] 3.12	—	[R] 2.90	10.59	[R] 3.95
1979	—	1.25	1.25	1.95	2.57	3.93	4.27	3.90	10.21	6.83	2.90	[R] 3.74	[R] 3.61	—	[R] 3.27	11.60	[R] 4.28
1980	**—**	**1.20**	**1.20**	**2.72**	**3.58**	**5.71**	**6.36**	**4.72**	**14.36**	**9.60**	**4.19**	**[R] 5.73**	**[R] 5.11**	**—**	**[R] 4.30**	**15.28**	**[R] 5.60**
1981	—	1.39	1.39	3.54	4.87	6.83	7.56	6.21	18.00	10.66	5.14	[R] 6.34	[R] 6.14	—	[R] 4.77	16.49	[R] 6.58
1982	—	1.37	1.37	4.43	4.06	7.11	7.82	6.34	17.25	10.02	4.46	[R] 4.90	[R] 5.22	—	[R] 4.58	17.72	[R] 6.55
1983	—	1.34	1.34	4.22	4.05	6.16	6.79	6.79	16.98	9.39	4.31	[R] 4.14	[R] 4.91	—	[R] 4.28	15.16	[R] 6.03
1984	—	1.32	1.32	4.24	4.51	6.16	6.81	6.49	17.63	8.95	4.76	[R] 4.01	[R] 5.07	—	[R] 4.34	15.42	[R] 5.98
1985	**—**	**1.33**	**1.33**	**4.38**	**4.97**	**6.12**	**6.77**	**11.06**	**17.61**	**9.39**	**4.35**	**[R] 3.93**	**[R] 5.08**	**—**	**[R] 4.39**	**16.15**	**[R] 6.18**
1986	—	1.33	1.33	3.41	4.16	4.15	4.58	10.37	15.59	6.97	2.68	[R] 2.42	[R] 3.76	—	[R] 3.35	13.80	[R] 5.10
1987	—	1.30	1.30	3.27	3.17	4.21	4.65	9.88	[R] 13.58	7.61	2.87	[R] 2.76	[R] 3.79	—	[R] 3.29	13.27	[R] 4.95
1988	—	1.32	1.32	3.16	3.13	3.84	4.24	10.26	[R] 14.62	8.07	2.31	[R] 2.40	[R] 3.39	—	[R] 3.02	14.17	[R] 5.03
1989	—	1.28	1.28	3.40	2.90	4.44	4.91	9.19	14.48	8.88	2.81	[R] 2.91	[R] 3.69	—	[R] 3.30	12.89	[R] 5.22
1990	**—**	**1.22**	**1.22**	**3.39**	**2.90**	**5.71**	**6.31**	**10.33**	**14.60**	**10.26**	**3.13**	**[R] 3.60**	**[R] 4.33**	**[d] 1.69**	**[d R] 3.55**	**[R] 13.23**	**[d R] 5.45**
1991	—	1.35	1.35	3.02	3.06	5.10	5.63	11.09	[R] 16.80	9.51	2.38	[R] 3.67	[R] 4.30	1.69	[R] 3.43	[R] 13.85	[R] 5.48
1992	—	1.32	1.32	3.14	2.24	4.84	5.35	9.50	[R] 18.32	9.16	2.43	[R] 3.32	[R] 3.72	1.69	[R] 3.26	[R] 13.80	[R] 5.29
1993	—	1.27	1.27	3.28	3.02	4.67	5.16	9.32	[R] 18.96	8.98	2.35	[R] 2.90	[R] 3.42	1.69	[R] 3.15	14.32	[R] 5.19
1994	—	1.27	1.27	3.31	2.83	4.59	5.08	8.29	[R] 19.11	9.50	2.46	[R] 2.88	[R] 3.55	1.69	[R] 3.22	[R] 13.55	[R] 5.12
1995	**—**	**1.26**	**1.26**	**2.84**	**3.21**	**4.91**	**5.43**	**8.24**	**19.40**	**10.06**	**2.62**	**3.11**	**3.74**	**1.69**	**3.11**	**13.82**	**5.14**
	Expenditures in Million Nominal Dollars																
1970	**—**	**0.2**	**0.2**	**7.0**	**2.3**	**3.6**	**0.1**	**6.5**	**1.3**	**1.4**	**7.3**	**[R] 2.6**	**[R] 25.1**	**—**	**[R] 32.3**	**25.7**	**[R] 58.0**
1971	—	0.3	0.3	7.1	3.1	4.0	0.1	6.5	1.3	1.4	9.9	[R] 5.5	[R] 31.7	—	[R] 39.1	30.8	[R] 69.9
1972	—	0.2	0.2	7.5	2.8	4.0	0.2	8.2	1.5	1.5	11.1	[R] 5.7	[R] 34.8	—	[R] 42.6	40.8	[R] 83.4
1973	—	0.3	0.3	8.0	2.4	4.7	0.1	9.2	1.5	1.2	18.8	[R] 6.6	[R] 44.5	—	[R] 52.9	48.9	[R] 101.7
1974	—	0.5	0.5	8.9	5.6	9.3	0.4	17.4	1.9	2.1	28.9	[R] 10.3	[R] 76.0	—	[R] 85.4	74.5	[R] 159.9
1975	**—**	**0.8**	**0.8**	**9.5**	**7.6**	**12.7**	**0.4**	**26.7**	**1.4**	**1.5**	**21.7**	**[R] 14.6**	**[R] 86.7**	**—**	**[R] 97.0**	**66.1**	**[R] 163.1**
1976	—	0.6	0.6	9.2	6.0	12.9	0.5	26.1	1.5	1.4	22.9	[R] 29.9	[R] 101.1	—	[R] 110.9	68.2	[R] 179.1
1977	—	0.8	0.8	10.9	3.7	16.6	0.3	28.5	3.2	1.3	28.2	[R] 38.0	[R] 119.9	—	[R] 131.7	75.1	[R] 206.8
1978	—	3.2	3.2	21.4	3.1	13.2	0.3	40.4	3.7	1.2	19.8	[R] 40.6	[R] 122.4	—	[R] 146.9	84.7	[R] 231.7
1979	—	2.4	2.4	19.7	7.0	15.7	0.4	55.4	5.2	1.7	36.3	[R] 58.9	[R] 180.6	—	[R] 202.7	99.5	[R] 302.1
1980	**—**	**5.4**	**5.4**	**34.8**	**8.3**	**20.5**	**0.6**	**43.6**	**6.6**	**1.8**	**45.1**	**[R] 89.2**	**[R] 215.6**	**—**	**[R] 255.8**	**122.9**	**[R] 378.6**
1981	—	6.0	6.0	51.1	13.5	15.7	0.1	7.3	7.9	1.9	32.8	[R] 66.2	[R] 145.5	—	[R] 202.5	127.5	[R] 330.0
1982	—	5.7	5.7	54.9	11.9	16.4	0.2	9.7	6.9	1.5	31.7	[R] 46.5	[R] 124.8	—	[R] 185.4	126.8	[R] 312.1
1983	—	5.0	5.0	82.7	5.6	14.7	0.9	8.3	7.1	1.2	18.7	[R] 40.2	[R] 96.8	—	[R] 184.5	125.0	[R] 309.6
1984	—	6.1	6.1	103.9	7.1	14.9	0.4	15.4	7.9	2.7	26.5	[R] 38.8	[R] 113.7	—	[R] 223.7	138.1	[R] 361.8
1985	**—**	**7.0**	**7.0**	**93.5**	**27.3**	**14.8**	**0.2**	**11.4**	**7.3**	**2.7**	**16.1**	**[R] 40.3**	**[R] 120.0**	**—**	**[R] 220.5**	**145.7**	**[R] 366.2**
1986	—	6.7	6.7	69.7	16.8	10.0	0.1	13.0	6.3	2.2	9.6	[R] 22.8	[R] 80.7	—	[R] 157.1	130.3	[R] 287.5
1987	—	7.0	7.0	57.7	12.1	10.3	0.4	15.2	[R] 6.2	2.3	14.3	[R] 24.4	[R] 85.2	—	[R] 150.0	119.9	[R] 269.9
1988	—	8.1	8.1	46.2	8.5	9.9	0.3	13.1	6.5	2.4	13.6	[R] 22.6	[R] 77.0	—	[R] 131.2	135.4	[R] 266.5
1989	—	6.5	6.5	50.2	10.0	11.6	0.2	9.5	6.6	3.0	14.3	[R] 26.9	[R] 82.1	—	[R] 138.9	136.3	[R] 275.2
1990	**—**	**6.5**	**6.5**	**56.4**	**10.3**	**14.4**	**0.1**	**12.6**	**6.8**	**2.6**	**12.6**	**[R] 35.6**	**[R] 94.9**	**[d] 1.7**	**[d R] 159.5**	**[R] 145.2**	**[d R] 304.7**
1991	—	7.0	7.0	47.5	2.9	13.1	0.3	13.5	7.0	2.5	10.3	[R] 44.4	[R] 94.0	1.8	[R] 150.3	[R] 149.1	[R] 299.4
1992	—	4.7	4.7	56.1	1.2	9.6	0.1	6.5	[R] 7.8	2.5	14.9	[R] 42.8	[R] 85.3	[R] 1.7	[R] 147.8	[R] 149.0	[R] 296.8
1993	—	5.5	5.5	63.3	2.2	9.9	0.9	7.1	8.2	3.0	19.9	[R] 38.3	[R] 89.5	[R] 1.7	[R] 160.0	[R] 162.6	[R] 322.6
1994	—	6.0	6.0	56.5	3.1	9.1	4.3	12.4	8.7	3.2	22.2	[R] 37.5	[R] 100.3	1.8	[R] 164.6	[R] 155.4	[R] 320.0
1995	**—**	**6.1**	**6.1**	**54.7**	**3.7**	**9.1**	**0.2**	**9.8**	**8.7**	**3.4**	**18.7**	**39.5**	**93.1**	**1.8**	**155.8**	**161.5**	**317.3**

[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 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 57. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Delaware

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.28**	**—**	**2.17**	**1.24**	**0.73**	**0.99**	**5.08**	**2.86**	**0.42**	**2.13**	**2.13**	**—**	**2.13**
1971	0.46	—	2.21	1.34	0.76	0.95	5.27	2.92	0.61	2.25	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	—	2.25
1973	0.43	—	2.36	1.78	0.90	1.07	5.33	3.10	0.74	2.38	2.38	—	2.38
1974	0.93	—	3.23	2.78	1.56	2.06	7.22	4.10	1.80	3.32	3.32	—	3.32
1975	**1.20**	**—**	**3.45**	**2.81**	**2.03**	**3.40**	**7.48**	**4.54**	**1.72**	**3.74**	**3.74**	**—**	**3.74**
1976	1.02	—	3.59	3.01	2.17	3.55	7.05	4.58	1.70	3.81	3.81	—	3.81
1977	1.34	—	3.97	3.53	2.55	3.61	6.97	4.81	1.95	4.11	4.11	—	4.11
1978	—	—	4.29	3.71	2.83	4.84	7.60	4.94	1.77	4.31	4.31	—	4.31
1979	—	—	5.73	5.49	3.95	3.90	10.21	6.83	2.92	6.06	6.06	—	6.06
1980	**—**	**—**	**9.02**	**7.72**	**6.46**	**4.72**	**14.36**	**9.60**	**3.93**	**8.41**	**8.41**	**—**	**8.41**
1981	—	—	10.84	8.53	7.61	6.21	18.00	10.66	4.44	9.79	9.79	—	9.79
1982	—	—	10.92	7.94	7.18	6.34	17.25	10.02	4.36	9.23	9.23	—	9.23
1983	—	—	10.44	8.22	8.00	6.79	16.98	9.39	4.17	8.80	8.80	—	8.80
1984	—	—	10.27	8.29	7.12	6.49	17.63	8.95	4.55	8.44	8.44	—	8.44
1985	**—**	**—**	**9.99**	**8.52**	**6.63**	**11.06**	**17.61**	**9.39**	**3.99**	**8.78**	**8.78**	**—**	**8.78**
1986	—	—	8.41	6.56	4.87	10.37	15.59	6.97	2.12	6.42	6.42	—	6.42
1987	—	—	7.55	6.53	4.03	9.88	R 13.58	7.61	2.57	R 6.53	R 6.53	—	R 6.53
1988	—	—	7.41	6.66	4.16	10.26	R 14.62	8.07	2.00	6.96	6.96	—	6.96
1989	—	—	8.28	7.27	4.80	9.19	14.48	8.88	2.35	7.68	7.68	—	7.68
1990	**—**	**—**	**9.32**	**8.71**	**6.33**	**10.33**	**14.60**	**10.26**	**2.33**	**8.92**	**8.92**	**—**	**8.92**
1991	—	—	8.71	8.26	5.51	11.09	R 16.80	9.51	2.04	7.79	7.79	—	7.79
1992	—	—	8.54	7.97	5.14	9.50	R 18.32	9.16	2.06	R 7.87	R 7.87	—	R 7.87
1993	—	—	8.24	7.92	4.88	9.32	R 18.96	8.98	2.02	7.69	7.69	—	7.69
1994	—	3.63	7.96	8.04	4.72	8.52	R 19.11	9.50	2.37	8.23	8.23	—	8.23
1995	**—**	**2.90**	**8.36**	**8.00**	**4.74**	**8.17**	**19.40**	**10.06**	**2.61**	**8.96**	**8.96**	**—**	**8.96**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**0.2**	**2.8**	**8.1**	**0.1**	**2.1**	**92.1**	**1.8**	**107.0**	**107.0**	**—**	**107.0**
1971	(s)	—	0.1	3.5	8.3	0.1	2.3	98.2	1.9	114.4	114.4	—	114.4
1972	(s)	—	0.2	2.5	7.8	0.1	2.6	103.5	3.3	119.9	119.9	—	119.9
1973	(s)	—	0.1	4.2	8.4	0.1	2.1	114.8	5.7	135.5	135.5	—	135.5
1974	(s)	—	1.0	8.2	14.7	0.2	2.7	148.4	13.7	188.8	188.8	—	188.8
1975	**(s)**	**—**	**0.3**	**8.4**	**18.0**	**0.5**	**2.3**	**166.2**	**10.4**	**206.0**	**206.0**	**—**	**206.0**
1976	(s)	—	0.3	11.1	18.4	0.5	2.4	175.6	11.0	219.4	219.4	—	219.4
1977	(s)	—	0.5	14.0	22.9	0.5	2.7	183.0	10.3	233.8	233.8	—	233.8
1978	—	—	0.4	15.0	21.6	1.0	3.1	187.8	8.0	236.8	236.8	—	236.8
1979	—	—	0.6	24.6	30.2	0.2	4.4	248.1	9.9	318.0	318.0	—	318.0
1980	**—**	**—**	**0.5**	**43.3**	**54.6**	**0.2**	**5.5**	**329.4**	**20.1**	**453.7**	**453.7**	**—**	**453.7**
1981	—	—	0.5	46.6	60.6	0.2	6.7	380.6	8.1	503.3	503.3	—	503.3
1982	—	—	0.8	43.9	57.2	0.2	5.8	343.9	5.5	457.4	457.4	—	457.4
1983	—	—	0.9	55.5	59.1	0.3	6.0	352.8	13.7	488.2	488.2	—	488.2
1984	—	—	0.7	61.0	60.8	0.2	6.6	346.0	13.3	488.5	488.5	—	488.5
1985	**—**	**—**	**0.8**	**61.3**	**56.0**	**0.2**	**6.2**	**367.9**	**5.8**	**498.3**	**498.3**	**—**	**498.3**
1986	—	—	0.8	56.5	35.2	1.7	5.4	279.0	7.8	386.5	386.5	—	386.5
1987	—	—	0.6	59.6	27.9	0.1	R 5.3	310.5	19.4	R 423.4	R 423.4	—	R 423.4
1988	—	—	0.7	56.3	30.5	0.2	5.5	343.2	11.0	447.3	447.3	—	447.3
1989	—	—	0.7	79.1	32.4	0.2	5.6	375.5	13.1	506.7	506.7	—	506.7
1990	**—**	**—**	**3.6**	**69.6**	**44.4**	**0.2**	**5.8**	**424.9**	**13.4**	**561.9**	**561.9**	**—**	**561.9**
1991	—	—	0.8	67.6	70.9	0.3	5.9	385.0	16.9	547.4	547.4	—	547.4
1992	—	—	0.8	64.1	40.1	0.2	R 6.6	388.4	13.4	R 513.6	R 513.6	—	R 513.6
1993	—	—	2.1	75.0	37.8	0.2	7.0	388.7	14.5	525.3	525.3	—	525.3
1994	—	(s)	2.3	72.1	14.4	0.2	R 7.3	410.9	18.9	526.1	526.1	—	526.1
1995	**—**	**(s)**	**2.2**	**72.8**	**2.0**	**0.1**	**7.3**	**443.7**	**17.2**	**545.3**	**545.3**	**—**	**545.3**

[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 58. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Delaware

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.39**	**0.37**	**0.46**	**0.47**	**0.29**	**0.40**	**—**	**—**	**0.39**
1971	0.52	0.47	0.67	0.71	0.31	0.54	—	—	0.52
1972	0.54	0.47	0.67	0.70	0.32	0.61	—	—	0.58
1973	0.58	0.69	0.81	1.02	0.29	0.77	—	—	0.70
1974	1.10	1.31	2.03	2.08	0.60	1.95	—	—	1.70
1975	**1.15**	**1.02**	**1.97**	**2.18**	**0.49**	**1.92**	**—**	**—**	**1.63**
1976	1.02	1.12	1.91	2.37	1.53	1.90	—	—	1.62
1977	1.09	1.84	2.19	2.48	1.55	2.17	—	—	1.90
1978	1.30	1.82	2.05	2.46	1.43	2.03	—	—	1.84
1979	1.35	2.78	3.26	3.84	2.89	3.25	—	—	2.65
1980	**1.64**	**3.47**	**4.27**	**6.21**	**4.32**	**4.33**	**—**	**—**	**3.35**
1981	2.03	4.19	5.15	7.44	0.93	4.96	—	—	3.36
1982	2.14	4.08	4.65	7.07	1.14	4.47	—	—	3.06
1983	1.99	4.18	4.41	6.05	1.27	4.20	—	—	2.66
1984	1.97	4.44	4.70	5.94	1.25	4.44	—	—	2.73
1985	**1.91**	**3.88**	**4.13**	**5.51**	**1.27**	**3.86**	**—**	**—**	**2.48**
1986	1.91	2.53	2.29	3.50	1.09	2.20	—	—	2.01
1987	1.81	2.75	2.75	3.99	1.05	2.59	—	—	2.05
1988	1.81	2.42	2.28	3.51	1.02	2.23	—	—	1.96
1989	1.79	2.54	2.72	3.90	0.94	2.66	—	—	2.12
1990	**1.82**	**2.58**	**2.71**	**4.58**	**0.90**	**2.05**	**—**	**—**	**1.97**
1991	1.78	2.37	2.31	4.62	0.84	1.92	—	—	1.92
1992	1.73	2.60	2.32	4.44	0.78	1.80	—	—	1.85
1993	1.69	2.61	2.26	3.96	—	2.30	—	—	1.93
1994	1.62	2.34	2.46	4.19	—	2.61	—	—	1.96
1995	**1.62**	**2.27**	**2.53**	**3.73**	**—**	**2.65**	**—**	**—**	**1.95**
	Expenditures in Million Nominal Dollars								
1970	**14.2**	**1.4**	**4.5**	**0.8**	**2.2**	**7.5**	**—**	**—**	**23.1**
1971	18.6	1.9	6.8	0.7	2.0	9.5	—	—	30.0
1972	12.3	1.2	17.1	0.4	1.6	19.2	—	—	32.6
1973	11.7	1.6	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	2.8	82.5	1.5	3.0	87.0	—	—	109.7
1977	18.6	2.6	104.5	2.7	3.7	110.9	—	—	132.1
1978	24.8	2.9	104.0	2.5	3.7	110.2	—	—	137.9
1979	29.7	14.9	141.0	2.6	7.6	151.2	—	—	195.8
1980	**38.5**	**25.3**	**156.5**	**6.8**	**12.2**	**175.6**	**—**	**—**	**239.3**
1981	93.3	24.7	166.1	5.2	1.8	173.0	—	—	291.0
1982	92.9	21.9	104.4	3.4	1.8	109.7	—	—	224.5
1983	137.6	21.7	97.3	4.7	2.7	104.6	—	—	263.9
1984	134.1	32.6	93.0	4.8	2.5	100.2	—	—	266.9
1985	**125.9**	**29.3**	**68.8**	**3.2**	**2.7**	**74.7**	**—**	**—**	**229.9**
1986	116.9	4.8	52.6	2.3	2.8	57.7	—	—	179.4
1987	115.9	22.3	42.6	3.1	2.4	48.0	—	—	186.2
1988	112.8	7.3	60.0	3.5	2.0	65.5	—	—	185.6
1989	98.8	21.9	62.8	6.3	1.8	70.9	—	—	191.6
1990	**97.3**	**29.3**	**33.9**	**2.9**	**7.6**	**44.4**	**—**	**—**	**171.0**
1991	91.1	35.8	39.1	3.2	6.7	49.0	—	—	175.9
1992	73.7	22.6	37.6	3.3	7.9	48.8	—	—	145.2
1993	97.9	23.4	46.7	2.4	—	49.1	—	—	170.3
1994	84.2	42.3	38.4	6.0	—	44.4	—	—	170.9
1995	**76.8**	**63.3**	**21.3**	**3.5**	**—**	**24.7**	**—**	**—**	**164.8**

[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 59. Energy Price and Expenditure Estimates by Source, 1970-1995, District of Columbia

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	**—**	**0.29**	**0.29**	**1.27**	**1.09**	**0.73**	**1.49**	**2.86**	**0.50**	**3.04**	**1.19**	**—**	**—**	**1.06**	**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	0.64	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	0.66	6.19	2.15
1973	—	0.49	0.49	1.44	1.53	0.90	1.89	3.12	0.81	3.26	1.54	—	—	1.43	0.75	6.63	2.38
1974	—	1.47	1.47	1.54	2.46	1.56	2.49	4.49	2.03	4.06	2.89	—	—	2.49	1.92	9.64	3.71
1975	**—**	**1.32**	**1.32**	**2.13**	**2.61**	**—**	**3.37**	**4.85**	**1.97**	**4.18**	**3.30**	**—**	**—**	**2.85**	**1.92**	**10.74**	**4.33**
1976	—	1.12	1.12	2.32	2.82	—	3.66	5.08	1.95	4.19	3.39	—	—	2.99	1.92	10.73	4.53
1977	—	1.16	1.16	2.89	3.27	—	3.76	5.39	2.24	4.05	3.57	—	—	3.33	2.25	11.56	5.13
1978	—	1.31	1.31	3.13	3.45	2.83	4.37	5.46	2.19	4.08	3.64	—	—	3.47	2.14	13.06	5.77
1979	—	1.32	1.32	3.36	4.97	3.95	3.96	7.02	3.28	5.09	5.38	—	—	4.58	3.30	13.13	6.73
1980	**—**	**1.76**	**1.76**	**4.36**	**7.18**	**6.46**	**6.00**	**9.97**	**4.46**	**9.33**	**7.86**	**—**	**—**	**6.36**	**4.59**	**14.92**	**8.75**
1981	—	2.19	2.19	5.20	7.93	7.61	6.44	11.16	4.90	11.09	9.14	—	—	7.30	5.13	16.68	9.91
1982	—	2.23	2.23	6.33	8.15	7.18	6.39	10.54	4.19	13.32	8.35	—	—	7.35	4.72	19.11	10.26
1983	—	2.05	2.05	7.66	7.84	6.44	6.95	10.46	4.32	11.86	8.46	—	—	7.90	4.58	19.62	11.11
1984	—	2.11	2.11	7.55	7.84	6.16	6.78	10.27	5.00	13.74	8.50	—	—	7.94	4.82	19.88	11.30
1985	**—**	**2.01**	**2.01**	**7.30**	**7.89**	**5.80**	**[R] 11.99**	**10.19**	**4.36**	**11.18**	**8.73**	**—**	**—**	**7.82**	**4.24**	**20.89**	**11.66**
1986	—	2.00	2.00	6.77	6.14	4.01	[R] 11.60	8.11	2.95	10.65	6.29	—	—	6.40	2.28	20.14	10.37
1987	—	1.93	1.93	6.06	6.23	4.01	[R] 11.26	8.36	3.27	[R] 9.54	[R] 6.80	—	—	6.38	3.04	18.84	10.24
1988	—	1.94	1.94	6.00	6.02	3.75	[R] 11.50	8.80	2.41	9.82	6.97	—	—	6.50	2.40	18.00	10.43
1989	—	1.97	1.97	6.36	6.39	—	[R] 10.67	9.50	2.79	8.91	7.28	—	—	6.78	2.89	17.22	10.53
1990	**—**	**1.96**	**1.96**	**6.40**	**8.11**	**5.47**	**[R] 11.36**	**10.66**	**3.22**	**10.21**	**8.75**	**—**	**[d] 3.53**	**[d] 7.54**	**3.12**	**[R] 17.40**	**[d R] 11.22**
1991	—	1.96	1.96	6.08	7.06	—	[R] 12.25	10.14	2.61	[R] 12.30	8.47	—	3.53	7.18	2.46	[R] 18.33	11.21
1992	—	1.95	1.95	6.46	6.72	—	[R] 10.62	9.73	2.79	[R] 13.13	[R] 8.36	—	3.53	[R] 7.28	2.81	[R] 18.98	11.31
1993	—	1.96	1.96	7.01	6.37	4.16	[R] 10.68	9.62	2.42	[R] 12.69	7.95	—	3.53	7.37	2.31	[R] 19.86	[R] 11.76
1994	—	1.96	1.96	7.19	6.20	—	[R] 10.19	9.57	2.41	[R] 13.07	7.78	—	3.53	7.38	2.50	[R] 20.86	[R] 12.25
1995	**—**	**1.93**	**1.93**	**6.95**	**5.93**	**3.89**	**10.33**	**9.85**	**2.65**	**9.21**	**8.05**	**—**	**3.53**	**7.48**	**2.67**	**20.87**	**12.19**
	Expenditures in Million Nominal Dollars																
1970	**—**	**8.4**	**8.4**	**33.5**	**31.4**	**(s)**	**(s)**	**85.4**	**35.1**	**2.2**	**154.1**	**—**	**—**	**195.9**	**-18.0**	**99.2**	**277.2**
1971	—	7.8	7.8	36.1	27.2	(s)	(s)	87.3	49.3	2.6	166.5	—	—	210.4	-19.2	111.6	302.7
1972	—	4.6	4.6	40.6	24.8	(s)	(s)	89.1	46.6	2.4	162.9	—	—	208.1	-23.4	121.0	305.7
1973	—	6.9	6.9	40.5	31.8	(s)	(s)	97.9	56.4	2.2	188.2	—	—	235.7	-31.5	138.5	342.7
1974	—	18.0	18.0	42.4	51.4	(s)	(s)	134.4	94.7	3.5	284.0	—	—	344.5	-60.6	182.0	465.8
1975	**—**	**13.4**	**13.4**	**55.7**	**48.1**	**—**	**0.1**	**146.4**	**51.6**	**4.7**	**250.8**	**—**	**—**	**319.9**	**-31.7**	**212.3**	**500.5**
1976	—	6.6	6.6	67.4	56.2	—	0.1	146.6	52.2	4.9	259.9	—	—	334.0	-32.4	220.1	521.7
1977	—	4.6	4.6	75.7	68.6	—	0.1	147.5	75.6	8.3	300.1	—	—	380.4	-52.9	247.0	574.5
1978	—	2.6	2.6	83.1	66.5	(s)	0.1	146.8	69.6	8.2	291.2	—	—	376.9	-51.9	288.9	614.0
1979	—	3.8	3.8	101.2	80.4	0.1	(s)	167.6	49.8	11.4	309.3	—	—	414.3	-48.2	295.8	661.8
1980	**—**	**5.8**	**5.8**	**121.8**	**95.6**	**12.1**	**0.1**	**203.3**	**45.2**	**18.6**	**374.9**	**—**	**—**	**502.4**	**-45.1**	**356.5**	**813.8**
1981	—	5.3	5.3	153.1	68.1	24.4	0.1	233.3	33.1	9.9	368.9	—	—	527.3	-27.7	400.1	899.7
1982	—	6.8	6.8	186.3	94.9	13.7	0.1	222.4	44.5	6.4	382.0	—	—	575.1	-7.4	472.4	1,040.2
1983	—	6.2	6.2	224.0	105.2	3.9	0.1	218.5	35.6	7.0	370.4	—	—	600.7	-16.3	510.1	1,094.4
1984	—	5.2	5.2	222.0	109.6	1.4	0.2	227.5	46.0	7.2	391.8	—	—	619.1	-22.0	538.3	1,135.3
1985	**—**	**7.0**	**7.0**	**211.5**	**102.5**	**0.2**	**0.2**	**203.4**	**20.3**	**10.1**	**336.7**	**—**	**—**	**555.2**	**-8.3**	**585.3**	**1,132.2**
1986	—	2.7	2.7	200.6	85.7	11.4	0.1	165.2	27.5	6.5	296.5	—	—	499.8	-6.7	590.1	1,083.1
1987	—	3.4	3.4	188.7	70.2	(s)	0.2	185.9	27.9	[R] 6.2	[R] 290.5	—	—	[R] 482.6	-11.7	578.9	[R] 1,049.8
1988	—	1.5	1.5	197.1	65.5	0.1	0.2	201.8	17.7	6.5	291.8	—	—	490.5	-16.4	576.0	1,050.1
1989	—	2.9	2.9	213.1	68.6	—	0.2	209.4	25.4	7.9	311.4	—	—	[R] 527.5	-26.8	567.0	[R] 1,067.7
1990	**—**	**3.4**	**3.4**	**184.5**	**72.6**	**0.2**	**0.2**	**225.1**	**20.7**	**6.5**	**325.3**	**—**	**[d] 2.1**	**[d] 515.3**	**-17.0**	**[R] 584.6**	**[d R] 1,082.9**
1991	—	3.2	3.2	188.5	63.7	—	0.2	214.2	10.9	6.5	295.5	—	2.2	489.4	-7.6	[R] 637.5	[R] 1,119.3
1992	—	2.4	2.4	212.5	60.8	—	0.3	205.7	8.3	[R] 7.0	[R] 282.0	—	2.3	[R] 499.3	-4.4	[R] 650.2	[R] 1,145.2
1993	—	2.5	2.5	231.7	60.6	2.4	0.2	211.5	9.9	7.6	292.2	—	2.4	528.7	-6.9	[R] 703.1	[R] 1,224.9
1994	—	2.3	2.3	222.3	67.3	—	[R] 0.2	206.2	11.2	8.0	[R] 292.9	—	2.3	[R] 519.8	-10.3	[R] 732.5	[R] 1,242.1
1995	**—**	**0.3**	**0.3**	**228.9**	**62.9**	**(s)**	**0.2**	**214.4**	**8.9**	**12.1**	**298.6**	**—**	**2.6**	**530.3**	**-7.9**	**734.7**	**1,257.1**

[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 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.
(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 60. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, District of Columbia

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.05**	**1.43**	**1.42**	**1.50**	**2.57**	**1.42**	**—**	**1.42**	**7.02**	**2.01**
1971	1.25	1.49	1.44	1.83	2.64	1.46	—	1.47	7.71	2.20
1972	1.47	1.62	1.45	1.68	2.51	1.45	—	1.56	8.07	2.32
1973	1.39	1.66	1.69	1.90	3.95	1.69	—	1.67	8.53	2.54
1974	2.27	1.69	2.58	2.94	3.43	2.58	—	2.01	11.51	3.20
1975	**1.75**	**2.30**	**2.71**	**3.37**	**4.61**	**2.71**	**—**	**2.44**	**12.65**	**3.79**
1976	1.75	2.54	2.90	3.28	4.83	2.91	—	2.65	12.81	3.97
1977	—	3.13	3.32	3.85	4.53	3.32	—	3.20	13.35	4.66
1978	—	3.35	3.66	4.09	5.45	3.66	—	3.45	14.97	5.08
1979	—	3.70	5.35	5.53	6.80	5.35	—	4.15	15.29	5.87
1980	**3.18**	**4.56**	**7.40**	**8.55**	**9.81**	**7.41**	**—**	**5.15**	**17.32**	**7.12**
1981	3.76	5.42	9.19	10.80	8.68	9.20	—	5.72	19.34	8.25
1982	3.82	6.53	8.98	10.56	8.65	8.99	—	6.79	18.75	8.94
1983	3.37	8.02	8.94	9.38	9.39	8.94	—	7.91	19.50	10.12
1984	3.57	7.95	9.07	9.22	10.85	9.07	—	7.95	18.84	9.71
1985	**3.28**	**7.80**	**8.74**	**8.88**	**13.53**	**8.74**	**—**	**7.67**	**20.31**	**9.77**
1986	3.22	7.42	7.12	7.23	13.81	7.13	—	7.29	19.97	9.60
1987	3.10	6.99	7.02	7.13	13.84	7.03	—	6.88	19.15	9.26
1988	3.07	6.88	7.00	7.11	14.13	7.02	—	6.84	18.41	9.18
1989	3.25	7.37	7.54	7.66	14.13	7.57	—	7.26	17.59	9.41
1990	**3.36**	**7.12**	**8.24**	**8.37**	**12.58**	**8.26**	**[d] 3.53**	**[d] 6.93**	**[R] 17.88**	**[d R] 9.02**
1991	3.09	7.03	8.58	8.71	13.46	8.60	3.53	6.86	19.29	9.38
1992	3.10	7.56	8.08	8.21	13.03	8.11	3.53	7.34	[R] 19.38	[R] 9.49
1993	3.23	8.28	7.99	8.12	13.36	8.02	3.53	7.98	[R] 21.04	[R] 10.51
1994	3.23	8.20	7.66	7.79	[R] 13.75	[R] 7.71	3.53	7.89	[R] 21.88	[R] 10.64
1995	**3.11**	**7.98**	**7.70**	**7.82**	**14.19**	**7.73**	**3.53**	**7.77**	**22.35**	**10.63**
	Expenditures in Million Nominal Dollars									
1970	**0.4**	**20.2**	**13.4**	**0.2**	**(s)**	**13.6**	**—**	**34.1**	**19.9**	**54.0**
1971	0.3	21.2	10.6	0.5	(s)	11.1	—	32.6	22.6	55.1
1972	0.3	23.5	10.8	0.1	(s)	11.0	—	34.8	23.7	58.5
1973	0.3	23.3	13.3	0.2	(s)	13.4	—	37.0	27.7	64.8
1974	0.7	22.7	19.0	0.1	(s)	19.2	—	42.5	34.7	77.2
1975	**0.2**	**30.7**	**18.3**	**0.1**	**(s)**	**18.5**	**—**	**49.4**	**39.2**	**88.6**
1976	0.4	36.0	20.1	0.1	(s)	20.2	—	56.6	40.7	97.2
1977	—	39.5	22.3	0.1	(s)	22.4	—	61.9	43.5	105.4
1978	—	45.4	24.2	0.1	(s)	24.3	—	69.6	49.8	119.4
1979	—	49.9	26.3	0.1	(s)	26.4	—	76.2	51.4	127.7
1980	**3.0**	**62.8**	**32.3**	**0.2**	**(s)**	**32.6**	**—**	**98.3**	**64.1**	**162.5**
1981	3.0	75.3	15.1	0.1	(s)	15.2	—	93.5	71.9	165.4
1982	4.1	86.7	26.6	0.2	(s)	26.9	—	117.6	71.2	188.9
1983	3.6	105.4	28.9	(s)	(s)	28.9	—	137.9	80.3	218.2
1984	3.1	139.9	30.0	(s)	(s)	30.1	—	173.0	78.9	251.9
1985	**4.0**	**131.4**	**25.2**	**0.5**	**(s)**	**25.8**	**—**	**161.2**	**85.4**	**246.6**
1986	1.5	130.0	16.5	0.5	(s)	17.0	—	148.6	90.7	239.3
1987	1.9	118.6	16.7	0.4	(s)	17.2	—	137.7	92.1	229.8
1988	0.8	121.6	12.0	0.3	(s)	12.4	—	134.9	92.0	226.9
1989	1.7	129.7	6.4	0.5	0.1	6.9	—	138.3	88.0	226.3
1990	**2.0**	**108.7**	**7.2**	**0.2**	**(s)**	**7.4**	**[d] 2.1**	**[d] 120.2**	**[R] 90.3**	**[d R] 210.5**
1991	1.8	108.1	8.2	0.2	0.1	8.5	2.2	120.6	104.0	[R] 224.5
1992	1.4	126.2	8.0	0.2	0.1	8.2	2.3	138.1	[R] 98.4	[R] 236.5
1993	1.5	138.4	7.6	0.2	0.1	7.9	2.4	150.1	[R] 117.3	[R] 267.5
1994	1.3	131.5	6.0	0.2	0.1	[R] 6.2	2.3	[R] 141.4	[R] 117.3	[R] 258.7
1995	**0.2**	**126.0**	**12.3**	**0.3**	**0.1**	**12.7**	**2.6**	**141.5**	**122.6**	**264.1**

[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.

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 61. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, District of Columbia

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.11**	**1.09**	**1.12**	**1.33**	**1.03**	**2.86**	**0.46**	**0.61**	**0.71**	**6.86**	**1.40**
1971	0.47	1.13	1.14	1.34	0.96	2.93	0.67	0.77	0.86	7.43	1.65
1972	0.23	1.20	1.14	1.34	1.04	3.01	0.64	0.78	0.92	7.76	1.90
1973	0.33	1.24	1.32	1.54	1.01	3.12	0.75	0.92	1.02	8.21	2.17
1974	1.05	1.41	2.23	2.53	2.09	4.49	1.97	2.11	1.80	11.64	3.55
1975	**1.25**	**1.96**	**2.39**	**2.70**	**2.75**	**4.85**	**2.02**	**2.28**	**2.11**	**12.49**	**4.63**
1976	1.10	2.13	2.57	2.85	3.07	5.08	1.88	2.38	2.22	13.35	4.84
1977	—	2.68	2.98	3.54	3.41	5.39	2.23	2.73	2.70	14.93	5.66
1978	—	2.92	3.20	3.32	3.98	5.46	2.10	2.84	2.89	16.19	6.46
1979	—	3.12	4.66	4.04	3.78	7.02	3.31	4.69	3.48	16.67	7.12
1980	**1.19**	**4.21**	**6.55**	**8.50**	**5.13**	**9.97**	**4.43**	**6.60**	**4.45**	**18.41**	**8.62**
1981	1.39	5.05	8.28	6.89	5.91	11.16	4.92	7.87	5.11	20.77	9.85
1982	1.37	6.17	7.94	8.31	6.00	10.54	4.33	7.46	5.95	21.72	10.53
1983	1.33	7.37	7.19	7.10	6.43	10.46	4.32	6.30	6.57	22.19	10.58
1984	1.31	6.95	6.83	7.59	6.13	10.27	5.48	6.58	6.41	21.89	12.10
1985	**1.33**	**6.62**	**6.53**	**8.41**	**[R] 11.53**	**10.19**	**5.16**	**6.32**	**5.95**	**22.82**	**12.92**
1986	1.33	5.84	4.76	5.17	[R] 11.00	8.11	3.34	4.10	4.84	21.78	11.27
1987	1.30	4.94	4.82	5.92	[R] 10.48	8.36	3.50	4.11	4.46	20.19	10.76
1988	1.33	4.98	4.43	5.78	[R] 10.87	8.80	3.23	4.19	4.70	19.29	11.33
1989	1.28	5.25	5.11	5.66	[R] 9.74	9.50	3.70	5.00	5.02	18.37	11.06
1990	**1.21**	**5.59**	**6.64**	**6.32**	**[R] 10.95**	**10.66**	**3.91**	**6.15**	**5.47**	**[R] 18.55**	**[R] 11.75**
1991	1.34	5.14	5.62	8.82	[R] 11.75	10.14	3.38	5.18	4.96	[R] 19.41	[R] 11.61
1992	1.32	5.32	5.04	5.99	[R] 10.07	9.73	3.11	4.54	5.00	20.16	[R] 11.92
1993	1.27	5.71	4.93	5.08	[R] 9.88	9.62	2.92	4.63	5.27	[R] 20.88	[R] 12.32
1994	1.27	6.09	4.80	[R] 5.65	[R] 11.11	9.57	2.92	4.76	5.53	[R] 20.91	[R] 14.13
1995	**1.25**	**6.00**	**4.60**	**5.65**	**10.80**	**9.85**	**3.16**	**4.95**	**5.69**	**20.88**	**13.92**
	Expenditures in Million Nominal Dollars										
1970	**0.1**	**12.9**	**8.5**	**0.1**	**(s)**	**1.0**	**14.8**	**24.3**	**37.4**	**45.3**	**82.6**
1971	0.2	14.6	6.7	0.2	(s)	1.2	19.7	27.8	42.6	50.2	92.8
1972	0.1	16.7	6.9	0.1	(s)	1.3	14.1	22.4	39.1	55.7	94.8
1973	0.1	16.8	8.3	0.1	(s)	1.3	15.0	24.6	41.5	63.3	104.9
1974	0.6	19.1	13.3	0.1	(s)	1.8	23.0	38.2	57.8	80.8	138.6
1975	**0.3**	**24.4**	**13.0**	**0.1**	**(s)**	**2.0**	**13.4**	**28.4**	**53.1**	**100.4**	**153.4**
1976	0.4	30.7	14.4	(s)	(s)	2.1	8.3	24.7	55.9	104.1	160.0
1977	—	35.4	16.2	(s)	(s)	2.1	10.7	29.1	64.4	113.7	178.1
1978	—	36.8	17.0	(s)	(s)	2.1	8.0	27.1	63.9	131.7	195.6
1979	—	50.1	18.5	(s)	(s)	2.5	1.7	22.7	72.8	132.5	205.3
1980	**2.1**	**58.0**	**24.7**	**(s)**	**(s)**	**2.1**	**1.0**	**27.9**	**88.0**	**154.6**	**242.5**
1981	2.1	76.8	13.5	(s)	(s)	2.6	2.4	18.6	97.5	171.8	269.3
1982	2.7	99.7	20.8	(s)	(s)	3.1	3.0	26.9	129.3	193.7	323.1
1983	2.6	118.6	41.6	0.2	(s)	2.3	13.3	57.5	178.8	208.2	386.9
1984	2.1	82.2	40.5	0.1	(s)	8.6	23.1	72.3	156.6	310.6	467.2
1985	**3.0**	**80.1**	**28.5**	**2.6**	**(s)**	**1.5**	**9.3**	**41.8**	**124.9**	**337.0**	**461.9**
1986	1.2	70.6	27.4	(s)	(s)	2.1	21.0	50.5	122.2	336.8	459.0
1987	1.5	70.1	18.2	(s)	(s)	0.9	18.1	37.3	108.9	329.0	437.9
1988	0.7	75.5	14.1	0.1	(s)	1.0	4.5	19.8	96.0	328.1	424.1
1989	1.2	83.4	16.1	1.5	(s)	1.1	3.0	21.7	106.4	322.3	428.7
1990	**1.4**	**75.9**	**19.4**	**0.3**	**(s)**	**4.0**	**5.4**	**29.1**	**106.3**	**[R] 333.4**	**[R] 439.7**
1991	1.4	80.4	19.2	0.2	(s)	1.9	4.7	26.0	107.8	[R] 360.2	[R] 468.0
1992	1.1	86.3	16.2	0.1	(s)	1.5	5.3	23.1	110.5	[R] 374.1	[R] 484.6
1993	1.1	93.3	23.0	0.1	(s)	1.6	3.8	28.6	122.9	[R] 401.4	[R] 524.3
1994	1.0	90.8	25.4	0.2	(s)	3.3	3.1	32.1	123.8	[R] 594.0	[R] 717.8
1995	**0.1**	**102.9**	**21.5**	**4.1**	**(s)**	**5.2**	**2.6**	**33.5**	**136.5**	**592.3**	**728.8**

[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.

—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 62. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, District of Columbia

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.11**	**0.11**	**0.67**	**0.67**	**1.22**	**1.33**	**1.03**	**5.08**	**—**	**0.59**	**—**	**0.66**	**—**	**0.49**	**3.80**	**1.19**
1971	—	0.47	0.47	0.71	0.72	1.24	1.34	0.96	—	—	0.85	—	0.89	—	0.78	4.16	1.59
1972	—	0.23	0.23	0.74	0.77	1.23	1.34	1.04	—	—	0.84	—	0.88	—	0.68	4.41	1.74
1973	—	0.33	0.33	0.77	0.82	1.41	1.54	1.01	5.33	—	1.03	—	1.06	—	0.82	4.77	2.08
1974	—	1.05	1.05	1.17	1.40	2.32	2.53	2.09	7.22	—	2.29	—	2.29	—	1.88	7.44	4.08
1975	**—**	**1.25**	**1.25**	**1.36**	**1.80**	**2.50**	**2.70**	**2.75**	**7.48**	**—**	**1.82**	**—**	**2.08**	**—**	**1.63**	**8.42**	**4.29**
1976	—	1.10	1.10	1.60	1.82	2.62	2.85	3.07	7.05	—	2.34	—	2.54	—	1.76	7.91	4.73
1977	—	1.16	1.16	2.16	1.98	3.24	3.54	3.41	6.97	—	2.47	—	2.89	—	2.19	8.57	5.42
1978	—	1.31	1.31	2.59	2.19	3.02	3.32	3.98	7.60	—	3.20	—	3.22	—	2.66	10.07	7.02
1979	—	1.32	1.32	2.16	2.58	3.71	4.04	3.78	10.21	—	2.96	—	3.83	—	2.71	9.95	7.04
1980	**—**	**1.20**	**1.20**	**2.45**	**3.58**	**7.63**	**8.50**	**5.13**	**14.36**	**—**	**3.97**	**—**	**7.60**	**—**	**6.16**	**11.65**	**10.20**
1981	—	1.39	1.39	2.97	4.83	6.23	6.89	5.91	18.00	—	5.00	—	6.38	—	5.89	12.97	11.35
1982	—	—	—	—	4.14	7.54	8.31	6.00	17.25	—	5.03	—	7.07	—	7.07	17.25	16.06
1983	—	—	—	—	4.06	7.10	7.10	6.43	16.98	—	4.86	—	6.71	—	6.71	17.70	17.33
1984	—	—	—	—	4.54	6.78	7.59	6.13	17.63	—	5.48	—	7.13	—	7.13	17.02	16.59
1985	**—**	**—**	**—**	**—**	**4.95**	**7.51**	**8.41**	**[R] 11.53**	**17.61**	**10.19**	**5.16**	**—**	**[R] 8.55**	**—**	**[R] 8.55**	**17.86**	**17.10**
1986	—	—	—	—	4.18	4.62	5.17	[R] 11.00	15.59	8.11	—	—	6.09	—	6.09	17.34	16.15
1987	—	—	—	—	3.22	5.29	5.92	[R] 10.48	[R] 13.58	8.36	—	—	[R] 6.98	—	[R] 6.98	16.37	15.65
1988	—	—	—	—	3.16	5.16	5.78	[R] 10.87	[R] 14.62	8.80	—	—	[R] 7.11	—	[R] 7.11	15.55	15.03
1989	—	—	—	—	2.88	5.05	—	[R] 9.74	14.48	9.50	3.70	—	[R] 7.85	—	[R] 7.85	15.00	14.57
1990	**—**	**—**	**—**	**—**	**2.94**	**5.64**	**—**	**[R] 10.95**	**14.60**	**10.66**	**3.91**	**—**	**[R] 8.69**	**[d] —**	**[d R] 8.69**	**[R] 15.14**	**[d R] 14.70**
1991	—	—	—	—	3.10	7.88	8.82	[R] 11.75	[R] 16.80	10.14	3.38	—	[R] 8.52	—	[R] 8.52	[R] 15.93	[R] 15.57
1992	—	—	—	—	2.35	5.35	—	[R] 10.07	[R] 18.32	9.73	3.11	—	[R] 7.89	—	[R] 7.89	[R] 16.64	[R] 16.16
1993	—	—	—	—	2.87	4.54	—	[R] 9.88	[R] 18.96	9.62	—	—	[R] 7.07	—	[R] 7.07	17.33	16.83
1994	—	—	—	—	2.85	5.05	—	[R] 8.81	[R] 19.11	9.57	2.92	—	[R] 7.89	—	[R] 7.89	[R] 13.58	[R] 11.17
1995	**—**	**—**	**—**	**—**	**3.23**	**5.05**	**—**	**8.72**	**19.40**	**9.85**	**3.16**	**—**	**7.72**	**—**	**7.72**	**12.78**	**10.86**
	Expenditures in Million Nominal Dollars																
1970	**—**	**1.1**	**1.1**	**0.3**	**0.1**	**2.7**	**0.1**	**(s)**	**0.1**	**—**	**12.2**	**—**	**15.2**	**—**	**16.6**	**34.1**	**50.6**
1971	—	3.4	3.4	0.3	0.1	2.5	0.2	(s)	—	—	16.6	—	19.4	—	23.2	38.8	62.0
1972	—	1.7	1.7	0.5	0.1	1.6	0.1	(s)	—	—	12.1	—	13.9	—	16.1	41.6	57.6
1973	—	2.2	2.2	0.5	0.1	1.5	0.1	(s)	(s)	—	13.3	—	15.0	—	17.7	47.4	65.1
1974	—	4.2	4.2	0.7	0.2	2.2	0.8	(s)	(s)	—	17.5	—	20.7	—	25.6	66.4	92.0
1975	**—**	**8.7**	**8.7**	**0.6**	**0.2**	**2.2**	**1.5**	**(s)**	**0.6**	**—**	**7.9**	**—**	**12.4**	**—**	**21.7**	**72.7**	**94.4**
1976	—	5.8	5.8	0.7	0.2	2.1	1.7	(s)	0.7	—	6.8	—	11.5	—	18.0	75.3	93.3
1977	—	4.6	4.6	0.8	0.3	3.0	5.3	(s)	0.3	—	7.8	—	16.7	—	22.2	89.3	111.5
1978	—	2.6	2.6	0.9	0.3	2.6	4.8	(s)	0.4	—	8.0	—	16.1	—	19.6	106.0	125.7
1979	—	3.8	3.8	1.2	0.4	6.2	6.7	(s)	0.5	—	1.0	—	14.8	—	19.9	108.5	128.4
1980	**—**	**0.7**	**0.7**	**0.9**	**0.4**	**8.5**	**12.6**	**0.1**	**0.6**	**—**	**1.3**	**—**	**23.6**	**—**	**25.2**	**133.4**	**158.6**
1981	—	0.1	0.1	1.0	0.6	14.4	2.7	0.1	0.8	—	0.6	—	19.1	—	20.3	150.3	170.5
1982	—	—	—	—	0.5	8.2	(s)	0.1	0.7	—	1.3	—	10.8	—	10.8	200.0	210.8
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	**—**	**—**	**—**	**—**	**0.9**	**1.6**	**0.1**	**0.1**	**0.7**	**3.1**	**(s)**	**—**	**6.6**	**—**	**6.6**	**154.4**	**161.0**
1986	—	—	—	—	0.9	2.1	(s)	0.1	0.6	2.7	—	—	[R] 6.5	—	[R] 6.5	154.2	[R] 160.7
1987	—	—	—	—	0.7	0.4	0.1	0.1	0.6	3.5	—	—	5.3	—	5.3	151.2	156.5
1988	—	—	—	—	0.7	0.1	0.1	0.1	0.6	2.9	—	—	4.4	—	4.4	149.0	153.4
1989	—	—	—	—	0.5	0.1	—	0.1	0.6	3.7	(s)	—	5.1	—	5.1	150.0	155.1
1990	**—**	**—**	**—**	**—**	**0.6**	**0.1**	**—**	**0.1**	**0.7**	**5.0**	**(s)**	**—**	**6.4**	**[d] —**	**[d] 6.4**	**[R] 153.7**	**[d R] 160.1**
1991	—	—	—	—	0.5	0.1	(s)	0.1	0.7	3.1	(s)	—	4.4	—	4.4	[R] 165.9	[R] 170.3
1992	—	—	—	—	0.3	0.4	—	0.2	[R] 0.7	3.0	(s)	—	4.7	—	4.7	[R] 169.6	[R] 174.3
1993	—	—	—	—	0.5	0.4	—	0.1	0.8	1.8	—	—	3.7	—	3.7	176.0	179.7
1994	—	—	—	—	0.5	0.4	—	0.1	0.8	3.5	(s)	—	5.3	—	5.3	[R] 12.4	[R] 17.7
1995	**—**	**—**	**—**	**—**	**0.5**	**0.4**	**—**	**0.1**	**0.8**	**2.3**	**(s)**	**—**	**4.2**	**—**	**4.2**	**11.4**	**15.6**

[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.
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 63. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, District of Columbia

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.11**	**—**	**—**	**1.32**	**0.73**	**1.03**	**5.08**	**2.86**	**0.45**	**2.74**	**2.74**	**—**	**2.74**
1971	0.47	—	—	1.39	0.76	0.96	5.27	2.93	0.66	2.79	2.79	—	2.79
1972	0.23	—	—	1.40	0.76	1.04	5.58	3.01	0.64	2.82	2.82	—	2.82
1973	0.33	—	—	1.76	0.90	1.01	5.33	3.12	0.74	2.79	2.79	—	2.79
1974	1.05	—	—	2.78	1.56	2.09	7.22	4.49	1.92	3.98	3.98	—	3.98
1975	**1.25**	**—**	**—**	**2.81**	**—**	**2.75**	**7.48**	**4.85**	**1.81**	**4.43**	**4.43**	**—**	**4.43**
1976	1.10	—	—	3.01	—	3.07	7.05	5.08	1.89	4.51	4.51	7.53	4.51
1977	1.16	—	—	3.53	—	3.41	6.97	5.39	2.10	4.79	4.79	7.38	4.79
1978	—	—	—	3.71	2.83	3.98	7.60	5.46	2.05	4.96	4.96	10.44	4.98
1979	—	—	—	5.41	3.95	3.78	10.21	7.02	2.92	6.74	6.74	11.05	6.78
1980	**—**	**—**	**—**	**7.70**	**6.46**	**5.13**	**14.36**	**9.97**	**4.20**	**9.40**	**9.40**	**12.62**	**9.44**
1981	—	—	—	8.52	7.61	5.91	18.00	11.16	4.64	10.32	10.32	14.79	10.38
1982	—	—	—	7.93	7.18	6.00	17.25	10.54	4.13	8.59	8.59	18.57	8.70
1983	—	—	—	8.28	6.44	6.43	16.98	10.46	4.34	9.66	9.66	19.09	9.76
1984	—	—	—	8.82	6.16	6.13	17.63	10.27	4.40	9.86	9.86	19.45	9.97
1985	**—**	**—**	**—**	**8.78**	**5.80**	**[R] 11.53**	**17.61**	**10.19**	**3.75**	**9.68**	**9.68**	**20.73**	**9.85**
1986	—	—	—	7.67	4.01	[R] 11.00	15.59	8.11	2.05	7.59	7.59	20.40	7.77
1987	—	—	—	7.25	4.01	[R] 10.48	[R] 13.58	8.36	—	[R] 8.23	[R] 8.23	17.14	[R] 8.36
1988	—	—	—	7.19	3.75	[R] 10.87	[R] 14.62	8.80	2.12	8.56	8.56	16.91	8.68
1989	—	—	—	7.49	—	[R] 9.74	14.48	9.50	2.57	9.10	9.10	16.91	9.21
1990	**—**	**—**	**—**	**9.33**	**5.47**	**[R] 10.95**	**14.60**	**10.66**	**2.88**	**10.45**	**10.45**	**[R] 16.95**	**[R] 10.56**
1991	—	—	—	8.05	—	[R] 11.75	[R] 16.80	10.14	—	9.86	9.86	[R] 17.80	9.99
1992	—	—	—	7.83	—	[R] 10.07	[R] 18.32	9.73	2.27	[R] 9.49	[R] 9.49	[R] 18.26	[R] 9.63
1993	—	—	8.24	8.00	4.16	[R] 9.88	[R] 18.96	9.62	—	9.39	9.39	[R] 18.95	[R] 9.55
1994	—	—	7.96	8.03	—	[R] 9.05	[R] 19.11	9.57	—	9.44	9.44	[R] 19.70	9.62
1995	**—**	**2.05**	**8.36**	**7.08**	**3.89**	**8.64**	**19.40**	**9.85**	**—**	**9.55**	**9.55**	**18.55**	**9.70**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**—**	**3.8**	**(s)**	**(s)**	**1.6**	**84.4**	**(s)**	**89.9**	**89.9**	**—**	**89.9**
1971	(s)	—	—	4.8	(s)	(s)	1.7	86.1	(s)	92.8	92.8	—	92.8
1972	(s)	—	—	4.4	(s)	(s)	2.0	87.8	0.6	94.7	94.7	—	94.7
1973	(s)	—	—	7.3	(s)	(s)	1.7	96.6	2.4	108.0	108.0	—	108.0
1974	(s)	—	—	13.7	(s)	(s)	2.2	132.6	9.5	158.0	158.0	—	158.0
1975	**(s)**	**—**	**—**	**13.4**	**—**	**(s)**	**2.1**	**144.4**	**4.0**	**164.0**	**164.0**	**—**	**164.0**
1976	(s)	—	—	18.8	—	(s)	2.2	144.6	5.5	171.0	171.0	0.1	171.2
1977	(s)	—	—	25.2	—	(s)	2.3	145.4	6.1	179.0	179.0	0.5	179.5
1978	—	—	—	19.0	(s)	(s)	2.7	144.8	5.4	171.9	171.9	1.4	173.3
1979	—	—	—	27.4	0.1	(s)	3.7	165.0	0.9	197.1	197.1	3.4	200.6
1980	**—**	**—**	**—**	**26.3**	**12.1**	**(s)**	**4.7**	**201.2**	**1.6**	**245.8**	**245.8**	**4.4**	**250.2**
1981	—	—	—	22.3	24.4	(s)	5.6	230.7	5.3	288.3	288.3	6.2	294.5
1982	—	—	—	37.7	13.7	(s)	4.9	219.4	34.3	310.0	310.0	7.4	317.4
1983	—	—	—	30.0	3.9	(s)	5.1	216.2	9.6	264.8	264.8	6.1	270.9
1984	—	—	—	33.7	1.4	(s)	5.6	218.9	5.1	264.7	264.7	6.1	270.8
1985	**—**	**—**	**—**	**45.1**	**0.2**	**(s)**	**5.2**	**198.8**	**4.8**	**254.2**	**254.2**	**8.4**	**262.6**
1986	—	—	—	38.5	11.4	(s)	4.5	160.4	1.0	215.9	215.9	8.3	224.2
1987	—	—	—	33.1	(s)	(s)	[R] 4.5	181.5	—	[R] 219.0	[R] 219.0	6.6	[R] 225.6
1988	—	—	—	35.9	0.1	(s)	4.6	197.9	0.1	238.8	238.8	6.9	245.7
1989	—	—	—	40.9	—	(s)	4.7	204.6	0.6	250.9	250.9	6.7	257.6
1990	**—**	**—**	**—**	**44.1**	**0.2**	**(s)**	**4.9**	**216.2**	**0.1**	**265.4**	**265.4**	**[R] 7.1**	**[R] 272.6**
1991	—	—	—	34.7	—	(s)	5.0	209.2	—	248.9	248.9	[R] 7.5	[R] 256.4
1992	—	—	—	34.8	—	(s)	[R] 5.6	201.2	0.1	[R] 241.7	[R] 241.7	[R] 8.1	[R] 249.8
1993	—	—	0.1	28.7	2.4	(s)	5.9	208.0	—	245.1	245.1	[R] 8.3	[R] 253.4
1994	—	—	0.1	33.3	—	(s)	6.2	199.4	—	239.0	239.0	[R] 8.8	[R] 247.8
1995	**—**	**(s)**	**0.2**	**27.0**	**(s)**	**(s)**	**6.2**	**206.9**	**—**	**240.2**	**240.2**	**8.4**	**248.6**

[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.

(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 64. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, District of Columbia

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.39**	**—**	**0.47**	**0.46**	**—**	**0.47**	**—**	**—**	**0.43**
1971	0.52	—	0.68	0.69	—	0.68	—	—	0.64
1972	0.54	—	0.68	0.69	—	0.68	—	—	0.66
1973	0.63	—	0.77	1.02	—	0.78	—	—	0.75
1974	1.68	—	2.00	1.89	—	1.99	—	—	1.92
1975	**1.50**	**—**	**2.01**	**2.11**	**—**	**2.01**	**—**	**—**	**1.92**
1976	1.14	—	1.91	2.26	—	1.92	—	—	1.92
1977	—	—	2.23	2.60	—	2.25	—	—	2.25
1978	—	—	2.11	2.70	—	2.14	—	—	2.14
1979	—	—	3.29	3.67	—	3.30	—	—	3.30
1980	**—**	**—**	**4.49**	**5.95**	**—**	**4.59**	**—**	**—**	**4.59**
1981	—	—	4.96	7.31	—	5.13	—	—	5.13
1982	—	—	4.36	7.05	—	4.72	—	—	4.72
1983	—	—	4.31	5.85	—	4.58	—	—	4.58
1984	—	—	4.64	5.71	—	4.82	—	—	4.82
1985	**—**	**—**	**3.94**	**5.43**	**—**	**4.24**	**—**	**—**	**4.24**
1986	—	—	2.16	2.98	—	2.28	—	—	2.28
1987	—	—	2.93	3.83	—	3.04	—	—	3.04
1988	—	—	2.22	3.47	—	2.40	—	—	2.40
1989	—	—	2.71	4.08	—	2.89	—	—	2.89
1990	**—**	**—**	**3.02**	**4.29**	**—**	**3.12**	**—**	**—**	**3.12**
1991	—	—	2.22	4.56	—	2.46	—	—	2.46
1992	—	—	2.38	4.45	—	2.81	—	—	2.81
1993	—	—	2.19	3.98	—	2.31	—	—	2.31
1994	—	—	2.26	4.01	—	2.50	—	—	2.50
1995	**—**	**—**	**2.48**	**3.77**	**—**	**2.67**	**—**	**—**	**2.67**
	Expenditures in Million Nominal Dollars								
1970	**6.8**	**—**	**8.1**	**3.1**	**—**	**11.2**	**—**	**—**	**18.0**
1971	3.8	—	12.9	2.5	—	15.4	—	—	19.2
1972	2.5	—	19.8	1.1	—	20.9	—	—	23.4
1973	4.3	—	25.8	1.5	—	27.2	—	—	31.5
1974	12.6	—	44.7	3.3	—	48.0	—	—	60.6
1975	**4.2**	**—**	**26.4**	**1.1**	**—**	**27.5**	**—**	**—**	**31.7**
1976	(s)	—	31.6	0.9	—	32.4	—	—	32.4
1977	—	—	51.0	1.9	—	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	2.8	—	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	4.3	—	22.0	—	—	22.0
1985	**—**	**—**	**6.2**	**2.1**	**—**	**8.3**	**—**	**—**	**8.3**
1986	—	—	5.5	1.2	—	6.7	—	—	6.7
1987	—	—	9.8	1.9	—	11.7	—	—	11.7
1988	—	—	13.1	3.3	—	16.4	—	—	16.4
1989	—	—	21.7	5.1	—	26.8	—	—	26.8
1990	**—**	**—**	**15.2**	**1.8**	**—**	**17.0**	**—**	**—**	**17.0**
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
1995	**—**	**—**	**6.3**	**1.6**	**—**	**7.9**	**—**	**—**	**7.9**

[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 65. Energy Price and Expenditure Estimates by Source, 1970-1995, Florida

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	**—**	**0.31**	**0.31**	**0.49**	**1.08**	**0.73**	**2.61**	**2.81**	**0.33**	**1.58**	**1.53**	**—**	**—**	**1.20**	**0.33**	**5.67**	**2.35**
1971	—	0.34	0.34	0.53	1.11	0.76	2.54	2.77	0.43	1.58	1.51	—	—	1.22	0.40	5.84	2.42
1972	—	0.43	0.43	0.57	1.09	0.76	2.70	2.88	0.50	1.64	1.54	0.39	—	1.29	0.47	6.14	2.59
1973	—	0.51	0.51	0.65	1.35	0.90	3.64	3.05	0.66	1.71	1.74	0.16	—	1.43	0.57	6.59	2.83
1974	—	0.74	0.74	0.81	2.29	1.56	4.56	4.10	1.75	2.60	2.79	0.16	—	2.19	1.19	8.81	4.01
1975	**—**	**1.01**	**1.01**	**1.00**	**2.53**	**2.03**	**5.14**	**4.39**	**1.84**	**3.16**	**3.02**	**0.17**	**—**	**2.44**	**1.35**	**10.46**	**4.62**
1976	—	1.10	1.10	1.11	2.75	2.17	5.04	4.57	1.80	3.27	3.07	0.19	—	2.51	1.39	11.08	4.74
1977	—	1.27	1.27	1.24	3.13	2.55	5.70	4.70	2.09	3.37	3.37	0.19	—	2.63	1.41	11.58	4.98
1978	—	1.47	1.47	1.32	3.35	2.83	5.83	5.18	1.95	3.61	3.55	0.19	—	2.81	1.44	12.21	5.41
1979	—	1.62	1.62	1.80	4.99	3.95	6.35	7.05	2.81	4.73	4.82	0.26	—	3.78	1.98	13.55	6.63
1980	**—**	**1.80**	**1.80**	**2.19**	**6.91**	**6.46**	**7.48**	**9.80**	**3.61**	**6.94**	**6.66**	**0.35**	**—**	**5.12**	**2.40**	**16.24**	**8.84**
1981	—	2.01	2.01	2.54	8.52	7.61	8.64	10.94	4.68	8.46	7.94	0.37	—	6.06	3.03	20.48	10.74
1982	—	2.15	2.15	3.02	8.04	7.18	9.43	10.51	4.24	7.48	7.89	0.51	1.28	5.83	2.57	20.40	10.86
1983	—	2.17	2.17	3.27	7.27	6.44	10.04	9.13	4.23	7.11	7.25	0.49	1.12	5.47	2.66	20.86	10.36
1984	—	2.16	2.16	3.78	7.18	6.24	9.88	8.92	4.64	7.18	7.48	0.60	1.28	5.30	2.46	21.95	10.67
1985	**—**	**2.12**	**2.12**	**3.73**	**6.93**	**5.90**	**[R] 11.13**	**9.03**	**3.90**	**7.38**	**7.48**	**0.65**	**—**	**5.19**	**2.21**	**22.59**	**10.86**
1986	—	1.93	1.93	2.76	5.63	4.19	[R] 10.47	6.70	2.15	5.79	[R] 5.29	0.73	—	3.94	1.76	21.37	9.28
1987	—	1.82	1.82	3.21	5.96	4.07	[R] 11.15	7.11	2.90	[R] 5.30	[R] 5.81	0.69	—	4.18	1.96	20.55	[R] 9.34
1988	—	1.78	1.78	2.80	5.70	3.82	[R] 11.43	7.12	2.17	5.13	[R] 5.48	0.94	—	3.91	1.72	20.70	9.21
1989	—	1.79	1.79	3.02	6.13	4.43	[R] 10.37	7.68	2.64	5.36	[R] 5.96	0.66	—	4.23	1.90	20.45	9.70
1990	**—**	**1.85**	**1.85**	**3.21**	**7.57**	**5.64**	**[R] 11.91**	**8.85**	**2.92**	**5.56**	**6.92**	**0.64**	**[d R] 1.37**	**[d] 4.76**	**1.98**	**20.62**	**[d R] 10.39**
1991	—	1.86	1.86	2.84	7.09	4.93	[R] 12.41	8.48	2.20	5.54	[R] 6.40	0.66	[R] 1.47	4.40	1.81	20.99	[R] 10.44
1992	—	1.83	1.83	3.00	7.23	4.56	[R] 14.36	8.29	2.36	[R] 5.48	6.39	0.62	[R] 1.44	4.34	1.79	[R] 20.50	10.12
1993	—	1.78	1.78	3.41	6.89	4.23	[R] 15.12	8.42	2.16	5.33	6.17	0.63	[R] 1.43	[R] 4.30	1.73	21.09	10.35
1994	—	1.78	1.78	3.11	7.49	3.93	[R] 12.48	8.29	2.25	[R] 5.65	[R] 6.21	0.62	1.37	[R] 4.30	1.71	20.40	[R] 10.03
1995	**—**	**1.79**	**1.79**	**2.90**	**7.32**	**3.91**	**11.81**	**8.46**	**2.51**	**6.12**	**6.71**	**0.53**	**1.36**	**4.37**	**1.73**	**20.55**	**10.20**
	Expenditures in Million Nominal Dollars																
1970	**—**	**35.8**	**35.8**	**170.1**	**98.0**	**96.6**	**77.1**	**1,125.2**	**112.8**	**122.4**	**1,632.1**	**—**	**—**	**1,838.1**	**-196.0**	**971.7**	**2,613.8**
1971	—	39.6	39.6	181.8	106.4	112.1	72.1	1,182.8	170.1	127.5	1,771.0	—	—	1,992.4	-258.8	1,101.8	2,835.3
1972	—	52.5	52.5	173.9	122.9	122.5	79.9	1,361.1	240.6	123.8	2,050.8	0.3	—	2,277.5	-340.5	1,286.6	3,223.6
1973	—	77.8	77.8	207.8	179.9	141.5	114.1	1,591.9	339.7	135.7	2,502.9	8.2	—	2,796.7	-469.1	1,563.2	3,890.8
1974	—	108.2	108.2	240.4	298.8	206.3	125.5	2,115.2	824.5	192.1	3,762.5	13.7	—	4,124.7	-964.8	2,074.5	5,234.4
1975	**—**	**135.0**	**135.0**	**283.6**	**343.6**	**275.6**	**142.5**	**2,319.6**	**915.2**	**172.4**	**4,168.9**	**15.8**	**—**	**4,603.2**	**-1,114.2**	**2,532.9**	**6,021.9**
1976	—	155.5	155.5	325.1	391.9	305.2	151.5	2,493.3	1,012.0	190.7	4,544.6	17.7	—	5,043.0	-1,200.6	2,797.0	6,639.5
1977	—	203.6	203.6	383.9	529.0	390.9	186.2	2,662.4	1,091.3	216.1	5,075.8	35.8	—	5,699.2	-1,302.9	3,135.0	7,531.3
1978	—	258.3	258.3	430.0	593.2	445.1	175.1	3,081.9	1,086.2	251.4	5,632.9	32.2	—	6,353.5	-1,422.5	3,529.4	8,460.4
1979	—	327.3	327.3	621.5	846.2	692.0	202.6	4,118.5	1,696.0	328.4	7,883.7	43.0	—	8,875.5	-1,982.0	3,999.1	10,892.7
1980	**—**	**405.4**	**405.4**	**693.8**	**1,183.7**	**1,302.3**	**294.6**	**5,627.4**	**2,193.5**	**449.8**	**11,051.3**	**63.8**	**—**	**12,214.3**	**-2,439.2**	**5,029.8**	**14,804.8**
1981	—	474.4	474.4	870.1	1,484.9	1,522.2	312.5	6,428.1	2,660.4	598.5	13,006.6	58.7	—	14,409.7	-3,152.6	6,510.9	17,768.0
1982	—	515.8	515.8	977.3	1,073.5	1,358.3	303.0	6,299.2	1,720.6	492.6	11,247.2	108.2	(s)	12,848.4	-2,503.1	6,442.7	16,788.1
1983	—	692.6	692.6	1,004.3	1,184.8	1,089.0	324.3	5,677.4	1,560.0	502.1	10,337.6	78.9	(s)	12,113.4	-2,548.3	6,866.4	16,431.4
1984	—	817.6	817.6	1,153.2	1,222.6	845.9	309.8	5,693.8	1,237.6	544.2	9,854.0	157.8	(s)	11,982.7	-2,449.6	7,755.2	17,288.3
1985	**—**	**999.9**	**999.9**	**1,081.0**	**1,225.8**	**762.5**	**[R] 395.9**	**5,947.5**	**911.5**	**623.7**	**[R] 9,866.9**	**165.1**	**—**	**[R] 12,112.9**	**-2,244.7**	**8,548.0**	**[R] 18,416.1**
1986	—	887.5	887.5	787.7	1,039.5	587.3	[R] 401.7	4,614.0	767.6	529.1	[R] 7,939.1	172.9	—	[R] 9,787.2	-1,980.3	8,480.2	[R] 16,287.1
1987	—	1,066.6	1,066.6	964.7	1,142.0	604.7	[R] 358.9	5,132.4	831.7	[R] 449.8	[R] 8,519.4	138.6	—	[R] 10,689.3	-2,256.9	8,586.9	[R] 17,019.3
1988	—	1,088.2	1,088.2	825.1	1,142.6	685.3	[R] 334.8	5,310.7	735.4	449.0	[R] 8,657.8	265.0	—	[R] 10,836.2	-2,200.2	9,197.0	[R] 17,833.0
1989	—	1,128.3	1,128.3	976.6	1,261.8	835.0	[R] 306.2	5,731.5	888.0	409.9	[R] 9,432.4	148.5	—	[R] 11,685.7	-2,433.9	9,661.0	[R] 18,912.8
1990	**—**	**1,155.6**	**1,155.6**	**1,081.4**	**1,516.4**	**1,013.5**	**[R] 334.4**	**6,581.4**	**1,001.8**	**427.3**	**[R] 10,874.8**	**149.2**	**[d R] 35.9**	**[d R] 13,296.9**	**-2,516.8**	**[R] 10,097.9**	**[d R] 20,877.9**
1991	—	1,194.6	1,194.6	1,004.3	1,295.4	693.5	[R] 356.9	6,297.2	826.2	417.6	[R] 9,886.8	146.2	[R] 42.1	[R] 12,274.1	-2,424.6	[R] 10,479.4	[R] 20,328.8
1992	—	1,191.7	1,191.7	1,077.9	1,460.9	626.4	[R] 415.8	6,237.3	888.0	[R] 401.9	[R] 10,030.3	166.0	[R] 44.4	[R] 12,510.3	-2,452.6	[R] 10,281.2	[R] 20,338.9
1993	—	1,158.2	1,158.2	1,181.3	947.2	635.8	[R] 440.0	6,642.8	951.5	[R] 439.3	[R] 10,056.6	174.8	[R] 46.7	[R] 12,617.6	-2,443.6	10,994.0	[R] 21,168.1
1994	—	1,144.2	1,144.2	1,198.4	1,470.9	636.6	[R] 337.0	6,637.3	[R] 947.3	[R] 426.1	[R] 10,455.2	175.7	[R] 47.8	[R] 13,021.2	-2,418.4	[R] 11,102.8	[R] 21,705.6
1995	**—**	**1,168.7**	**1,168.7**	**1,516.6**	**1,701.5**	**621.8**	**333.7**	**7,005.7**	**750.3**	**434.1**	**10,847.1**	**162.6**	**62.5**	**13,757.5**	**-2,546.6**	**11,745.4**	**22,956.3**

[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 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.
(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 66. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Florida

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**—**	**2.42**	**1.25**	**1.63**	**3.11**	**2.35**	**—**	**2.37**	**6.10**	**4.60**
1971	—	2.44	1.38	1.60	3.01	2.30	—	2.33	6.26	4.82
1972	—	2.48	1.39	1.60	3.24	2.53	—	2.52	6.54	5.22
1973	—	2.54	1.54	1.84	4.51	3.40	—	3.12	6.95	5.75
1974	—	2.67	2.48	2.96	5.45	4.46	—	3.85	9.13	7.64
1975	**—**	**2.54**	**2.62**	**3.27**	**6.32**	**5.10**	**—**	**4.19**	**10.92**	**9.04**
1976	—	2.65	2.91	3.55	6.08	4.94	—	4.15	11.57	9.36
1977	—	3.31	3.22	4.04	7.07	5.76	—	4.89	12.09	9.99
1978	—	3.31	3.47	4.32	7.01	5.78	—	4.77	12.72	10.47
1979	—	3.51	4.56	5.86	7.78	6.68	—	5.42	14.12	12.00
1980	**3.12**	**4.49**	**6.92**	**8.92**	**10.34**	**9.24**	**—**	**7.48**	**16.74**	**14.66**
1981	3.59	4.80	8.69	11.23	11.44	10.81	—	8.35	21.17	18.35
1982	3.72	6.10	8.38	11.20	13.10	11.95	—	9.42	21.88	19.61
1983	3.35	6.25	7.25	9.99	12.88	11.88	—	9.36	22.80	20.23
1984	3.45	6.52	6.97	9.66	12.01	11.22	—	9.18	23.80	21.04
1985	**3.31**	**6.72**	**6.73**	**9.34**	**10.70**	**10.04**	**—**	**8.81**	**24.73**	**21.57**
1986	3.00	6.70	7.67	10.63	10.35	10.13	—	8.86	23.36	20.66
1987	2.96	6.83	6.75	9.36	12.01	10.88	—	9.33	22.73	20.36
1988	2.95	6.94	7.17	9.94	12.01	11.10	—	9.44	22.91	20.80
1989	3.05	7.42	6.56	9.10	10.81	10.24	—	9.14	22.67	20.84
1990	**3.10**	**7.79**	**9.59**	**13.30**	**12.55**	**12.38**	**[d] 3.53**	**[d] 9.88**	**22.78**	**[d] 19.14**
1991	2.94	8.18	8.95	12.40	13.05	12.75	3.53	10.24	23.18	19.48
1992	2.92	8.25	11.11	15.40	16.37	15.87	3.53	11.85	22.71	19.17
1993	3.10	9.12	7.05	9.77	18.07	16.63	3.53	12.47	23.41	19.87
1994	3.10	8.88	12.02	16.66	[R] 14.91	[R] 14.75	3.53	[R] 11.19	22.80	[R] 19.37
1995	**3.00**	**9.20**	**7.12**	**9.87**	**15.13**	**14.14**	**3.53**	**10.78**	**22.93**	**19.55**
	Expenditures in Million Nominal Dollars									
1970	**—**	**37.0**	**7.4**	**22.3**	**66.9**	**96.6**	**—**	**133.6**	**512.1**	**645.6**
1971	—	33.6	8.2	21.5	62.4	92.0	—	125.6	581.5	707.1
1972	—	34.1	7.6	15.6	69.0	92.2	—	126.4	678.9	805.2
1973	—	44.0	10.1	15.1	101.6	126.8	—	170.8	835.6	1,006.4
1974	—	42.2	14.5	15.3	105.6	135.4	—	177.5	1,069.4	1,246.9
1975	**—**	**41.7**	**16.7**	**13.4**	**121.0**	**151.1**	**—**	**192.8**	**1,295.3**	**1,488.1**
1976	—	47.4	20.3	24.1	125.5	169.9	—	217.3	1,422.6	1,639.9
1977	—	64.3	23.6	24.0	156.1	203.7	—	268.0	1,607.5	1,875.5
1978	—	76.5	25.8	24.0	143.0	192.7	—	269.3	1,816.2	2,085.4
1979	—	64.8	28.4	32.4	126.2	187.0	—	251.8	2,034.3	2,286.1
1980	**0.3**	**72.7**	**49.0**	**39.1**	**168.4**	**256.5**	**—**	**329.5**	**2,555.0**	**2,884.5**
1981	(s)	86.8	49.7	36.5	196.7	282.9	—	369.8	3,332.2	3,702.0
1982	0.1	89.9	35.3	14.4	182.4	232.1	—	322.1	3,368.3	3,690.5
1983	0.4	105.4	20.9	17.5	213.2	251.5	—	357.4	3,677.8	4,035.2
1984	2.1	106.7	20.6	13.5	223.9	257.9	—	366.7	4,086.5	4,453.2
1985	**3.2**	**100.9**	**22.3**	**45.7**	**231.1**	**299.1**	**—**	**403.2**	**4,566.8**	**4,970.0**
1986	2.5	99.9	20.7	33.5	241.8	296.0	—	398.3	4,596.6	4,994.9
1987	1.5	109.0	28.3	33.4	240.9	302.6	—	413.0	4,683.9	5,096.9
1988	0.1	111.5	21.8	36.9	213.6	272.3	—	383.9	5,001.0	5,384.9
1989	(s)	105.5	13.9	19.7	192.8	226.4	—	331.9	5,273.0	5,604.8
1990	**0.1**	**109.9**	**13.1**	**11.6**	**227.0**	**251.6**	**[d] 11.8**	**[d] 373.5**	**[R] 5,527.2**	**[d R] 5,900.7**
1991	(s)	115.9	12.4	13.7	243.5	269.6	12.4	397.9	[R] 5,759.4	[R] 6,157.4
1992	0.4	130.6	20.0	23.9	307.7	351.6	13.1	495.7	[R] 5,671.2	[R] 6,166.9
1993	0.4	139.7	13.1	12.1	329.3	354.5	14.1	508.7	6,137.0	6,645.8
1994	0.6	138.3	17.4	11.8	[R] 251.1	[R] 280.3	13.9	[R] 433.0	[R] 6,270.5	[R] 6,703.6
1995	**(s)**	**143.2**	**9.1**	**11.8**	**216.1**	**237.1**	**15.4**	**395.7**	**6,711.3**	**7,107.0**

[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.

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 67. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Florida

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**—**	**0.89**	**0.98**	**0.61**	**1.27**	**2.81**	**0.33**	**1.23**	**1.07**	**6.24**	**3.53**
1971	—	1.02	1.06	0.66	1.27	2.77	0.43	1.31	1.18	6.43	3.86
1972	—	1.12	1.07	0.66	1.31	2.88	0.51	1.22	1.18	6.66	4.19
1973	—	1.21	1.18	0.72	1.42	3.05	0.67	1.30	1.26	7.21	4.59
1974	—	1.54	2.08	2.19	2.43	4.10	1.79	2.32	1.98	9.60	6.55
1975	**—**	**1.58**	**2.26**	**2.38**	**2.51**	**4.39**	**1.85**	**2.52**	**2.03**	**11.44**	**7.13**
1976	—	1.62	2.52	2.53	2.76	4.57	1.76	2.59	2.07	11.90	7.04
1977	—	1.88	2.84	2.95	2.85	4.70	2.13	2.84	2.34	12.77	7.53
1978	—	1.90	3.01	3.22	3.34	5.18	1.94	3.01	2.46	13.48	8.32
1979	—	2.60	4.23	4.15	4.87	7.05	2.94	4.24	3.42	14.95	9.62
1980	**1.77**	**3.21**	**6.30**	**6.41**	**5.46**	**9.80**	**3.71**	**6.24**	**4.68**	**17.38**	**12.27**
1981	1.97	3.39	7.91	7.59	6.11	10.94	4.75	7.65	5.23	21.24	15.10
1982	2.03	4.32	7.51	7.63	6.63	10.51	4.28	7.65	5.32	20.14	15.81
1983	1.96	4.60	6.56	7.17	7.06	9.13	4.28	6.77	5.67	20.11	14.96
1984	2.00	4.73	6.64	6.80	6.75	8.92	4.83	6.67	5.63	21.77	16.13
1985	**2.04**	**4.80**	**6.22**	**6.60**	**[R] 11.80**	**9.03**	**4.08**	**[R] 6.50**	**[R] 5.75**	**22.03**	**[R] 15.78**
1986	1.98	4.11	3.86	4.50	[R] 10.66	6.70	2.27	[R] 4.31	[R] 4.19	20.45	[R] 14.19
1987	1.87	4.28	4.19	4.59	[R] 9.74	7.11	2.98	[R] 4.73	[R] 4.50	19.57	14.10
1988	1.84	4.20	3.83	4.25	[R] 10.53	7.12	2.29	[R] 4.37	[R] 4.29	19.75	[R] 14.57
1989	1.86	4.47	4.44	5.05	[R] 9.69	7.68	2.75	[R] 4.87	[R] 4.68	19.40	14.96
1990	**1.89**	**4.64**	**5.57**	**6.04**	**[R] 10.76**	**8.85**	**3.09**	**[R] 5.65**	**[R] 5.18**	**19.57**	**15.13**
1991	1.89	4.48	5.02	5.45	[R] 11.22	8.48	2.37	[R] 5.06	[R] 4.76	[R] 19.86	[R] 15.36
1992	1.93	4.53	4.81	5.17	[R] 10.64	8.29	2.49	[R] 5.03	[R] 4.74	19.33	[R] 14.99
1993	1.94	5.32	4.59	4.99	[R] 10.17	8.42	2.30	[R] 5.38	[R] 5.32	19.66	16.05
1994	1.87	4.93	4.36	[R] 4.81	[R] 9.41	8.29	2.34	[R] 5.24	[R] 5.00	18.70	15.58
1995	**1.86**	**4.98**	**4.36**	**4.66**	**9.67**	**8.46**	**2.71**	**5.03**	**5.00**	**18.80**	**15.70**
	Expenditures in Million Nominal Dollars										
1970	**—**	**24.9**	**11.7**	**0.5**	**4.8**	**20.4**	**3.1**	**40.4**	**65.3**	**345.9**	**411.3**
1971	—	27.1	12.8	0.5	4.7	21.4	3.8	43.1	70.2	399.0	469.2
1972	—	28.0	11.9	0.4	4.9	16.6	5.6	39.3	67.3	463.4	530.7
1973	—	31.4	15.7	0.3	5.6	15.6	8.2	45.4	76.8	556.3	633.1
1974	—	37.0	24.6	0.6	8.3	19.0	18.9	71.5	108.5	786.4	894.8
1975	**—**	**53.9**	**29.3**	**0.5**	**8.5**	**23.9**	**18.0**	**80.3**	**134.2**	**894.1**	**1,028.4**
1976	—	68.2	35.8	1.0	10.0	25.8	23.1	95.7	163.9	962.2	1,126.1
1977	—	82.9	42.1	1.0	11.1	28.2	34.2	116.6	199.5	1,077.7	1,277.2
1978	—	71.9	45.2	1.0	12.0	32.4	27.1	117.8	189.7	1,177.1	1,366.7
1979	—	100.2	53.5	1.3	13.9	48.3	47.5	164.5	264.8	1,346.1	1,610.9
1980	**0.3**	**103.6**	**70.7**	**1.0**	**15.7**	**69.0**	**34.4**	**190.9**	**294.8**	**1,626.2**	**1,921.0**
1981	(s)	126.4	118.5	2.8	18.6	52.6	24.4	216.8	343.2	2,241.4	2,584.6
1982	0.1	139.3	28.4	9.6	16.3	41.3	10.3	105.9	245.3	2,251.5	2,496.7
1983	0.5	147.4	82.8	26.3	20.6	61.6	26.9	218.2	366.1	2,345.3	2,711.4
1984	2.2	158.6	85.9	8.6	22.2	62.2	41.4	220.4	381.3	2,747.2	3,128.5
1985	**3.6**	**163.4**	**132.4**	**39.1**	**[R] 45.0**	**64.9**	**55.7**	**[R] 337.1**	**[R] 504.1**	**3,103.3**	**[R] 3,607.5**
1986	3.1	158.6	76.9	21.6	[R] 44.0	50.2	39.9	[R] 232.6	[R] 394.2	3,069.5	[R] 3,463.7
1987	1.6	175.8	94.1	12.2	[R] 34.5	51.0	38.0	[R] 229.8	[R] 407.2	3,110.4	[R] 3,517.6
1988	0.1	171.8	73.9	10.1	[R] 33.1	48.8	30.3	[R] 196.1	[R] 367.9	3,360.8	[R] 3,728.7
1989	(s)	170.3	71.9	10.2	[R] 30.5	49.1	34.4	[R] 196.1	[R] 366.4	3,522.4	[R] 3,888.8
1990	**0.1**	**183.0**	**105.2**	**4.3**	**[R] 34.3**	**65.3**	**46.6**	**[R] 255.7**	**[R] 438.8**	**[R] 3,723.9**	**[R] 4,162.7**
1991	(s)	193.2	87.8	0.9	[R] 36.9	41.3	32.0	[R] 198.9	[R] 392.1	[R] 3,861.6	[R] 4,253.7
1992	0.5	207.8	84.1	0.9	[R] 35.3	35.6	28.2	[R] 184.1	[R] 392.3	[R] 3,778.9	[R] 4,171.3
1993	0.5	240.3	82.3	1.5	[R] 32.7	4.2	2.1	[R] 122.9	[R] 363.7	[R] 3,996.9	[R] 4,360.6
1994	0.6	221.2	55.6	[R] 2.1	[R] 28.0	4.2	2.0	[R] 91.9	[R] 313.7	[R] 3,982.0	[R] 4,295.7
1995	**(s)**	**215.2**	**72.3**	**2.5**	**24.4**	**4.4**	**2.4**	**106.1**	**321.3**	**4,182.1**	**4,503.4**

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

Table 68. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Florida

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**—**	**—**	**0.37**	**0.67**	**0.56**	**0.61**	**1.27**	**5.08**	**2.81**	**0.37**	**1.35**	**0.69**	**—**	**0.55**	**3.56**	**0.93**
1971	—	—	—	0.42	0.71	0.60	0.66	1.27	5.27	2.77	0.50	1.48	0.79	—	0.63	3.61	1.01
1972	—	—	—	0.47	0.76	0.60	0.66	1.31	5.58	2.88	0.45	1.47	0.79	—	0.66	3.98	1.12
1973	—	—	—	0.55	0.80	0.66	0.72	1.42	5.33	3.05	0.54	1.63	0.88	—	0.74	4.31	1.23
1974	—	—	—	0.70	1.36	2.01	2.19	2.43	7.22	4.10	1.44	2.61	1.84	—	1.37	6.02	2.00
1975	**—**	**0.53**	**0.53**	**0.95**	**1.78**	**2.20**	**2.38**	**2.51**	**7.48**	**4.39**	**1.75**	**3.11**	**2.18**	**—**	**1.64**	**7.57**	**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	2.19	—	1.67	8.48	2.81
1977	—	1.37	1.37	1.07	1.97	2.69	2.95	2.85	6.97	4.70	1.99	3.57	2.40	—	1.87	8.42	2.95
1978	—	1.55	1.55	1.11	2.19	2.92	3.22	3.34	7.60	5.18	1.86	3.72	2.52	—	1.95	9.10	3.25
1979	—	1.62	1.62	2.05	2.57	3.82	4.15	4.87	10.21	7.05	2.55	5.09	3.36	—	2.79	10.11	4.05
1980	**—**	**1.77**	**1.77**	**2.61**	**3.57**	**5.75**	**6.41**	**5.46**	**14.36**	**9.80**	**3.44**	**7.97**	**4.71**	**—**	**3.88**	**13.38**	**5.48**
1981	—	1.97	1.97	2.96	4.84	6.86	7.59	6.11	18.00	—	4.59	9.52	6.19	—	4.65	17.06	6.71
1982	—	2.03	2.03	3.76	4.05	6.92	7.63	6.63	17.25	10.51	4.02	8.84	5.96	—	4.84	16.46	7.01
1983	—	1.96	1.96	3.74	4.05	6.83	7.17	7.06	16.98	9.13	3.87	8.40	5.82	—	4.78	16.45	6.99
1984	—	2.00	2.00	3.87	4.51	6.69	6.80	6.75	17.63	8.92	4.83	8.65	5.99	—	4.95	16.65	7.16
1985	**—**	**2.04**	**2.04**	**3.71**	**4.99**	**6.49**	**6.60**	**[R] 11.80**	**17.61**	**9.03**	**4.08**	**8.30**	**[R] 6.28**	**—**	**[R] 5.08**	**16.63**	**[R] 7.18**
1986	—	1.98	1.98	2.85	4.16	4.43	4.50	[R] 10.66	15.59	6.70	2.27	5.32	[R] 4.89	—	[R] 4.06	16.29	[R] 6.34
1987	—	1.87	1.87	3.01	3.20	4.52	4.59	[R] 9.74	[R] 13.58	7.11	2.98	6.18	[R] 4.76	—	[R] 3.88	14.99	[R] 6.07
1988	—	1.84	1.84	2.63	3.13	4.18	4.25	[R] 10.53	[R] 14.62	7.12	2.29	5.21	[R] 4.28	—	[R] 3.45	14.93	[R] 5.60
1989	—	1.86	1.86	2.88	2.87	4.97	5.05	[R] 9.69	14.48	7.68	2.75	5.86	[R] 4.70	—	[R] 3.68	14.84	[R] 5.97
1990	**—**	**1.89**	**1.89**	**3.29**	**2.91**	**5.94**	**6.04**	**[R] 10.76**	**14.60**	**8.85**	**3.09**	**6.62**	**[R] 5.05**	**[d] [R] 1.05**	**[d] [R] 3.73**	**14.90**	**[d] [R] 5.70**
1991	—	1.89	1.89	2.83	3.06	5.36	5.45	[R] 11.22	[R] 16.80	8.48	2.37	6.50	[R] 4.87	[R] 1.18	[R] 3.45	[R] 15.21	[R] 5.57
1992	—	1.93	1.93	2.93	2.25	5.08	5.17	[R] 10.64	[R] 18.32	8.29	2.49	6.97	4.48	[R] 1.15	3.32	[R] 14.72	5.25
1993	—	1.94	1.94	3.53	2.86	4.91	4.99	[R] 10.17	[R] 18.96	8.42	2.30	6.24	[R] 4.38	1.13	[R] 3.53	[R] 15.42	[R] 5.32
1994	—	1.87	1.87	3.12	2.82	4.73	4.81	[R] 8.01	[R] 19.11	8.29	2.34	6.30	[R] 4.36	[R] 1.10	3.29	[R] 15.04	4.98
1995	**—**	**1.86**	**1.86**	**3.06**	**3.21**	**4.59**	**4.66**	**8.12**	**19.40**	**8.46**	**2.71**	**6.64**	**4.74**	**1.13**	**3.40**	**15.11**	**4.98**
	Expenditures in Million Nominal Dollars																
1970	**—**	**—**	**—**	**35.8**	**18.0**	**14.7**	**3.9**	**4.4**	**12.9**	**3.0**	**19.1**	**9.8**	**85.8**	**—**	**121.7**	**113.7**	**235.4**
1971	—	—	—	43.1	23.2	16.2	3.8	4.1	16.7	1.8	24.8	11.1	101.5	—	144.6	121.3	265.9
1972	—	—	—	42.9	25.8	16.5	3.1	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	14.6	133.8	—	189.3	171.3	360.6
1974	—	—	—	68.4	53.2	57.7	2.2	9.9	31.7	2.1	73.4	24.0	254.2	—	322.6	218.7	541.3
1975	**—**	**0.3**	**0.3**	**85.1**	**43.3**	**60.0**	**1.6**	**11.5**	**25.7**	**2.1**	**81.0**	**26.1**	**251.2**	**—**	**336.6**	**343.4**	**680.0**
1976	—	0.6	0.6	104.0	41.2	64.7	4.6	14.1	26.9	2.2	109.4	32.9	296.0	—	400.7	412.2	812.8
1977	—	4.4	4.4	113.9	57.5	85.7	2.6	17.0	25.5	2.2	150.7	42.0	383.1	—	501.4	449.8	951.2
1978	—	9.5	9.5	114.8	72.7	95.6	3.1	17.5	29.9	2.2	122.6	48.2	391.7	—	516.0	536.1	1,052.1
1979	—	13.8	13.8	239.8	83.0	112.3	3.8	59.8	42.0	2.6	195.0	73.2	571.7	—	825.4	618.7	1,444.1
1980	**—**	**30.2**	**30.2**	**259.6**	**106.4**	**236.8**	**5.5**	**107.2**	**52.6**	**4.5**	**294.2**	**114.0**	**921.3**	**—**	**1,211.1**	**848.6**	**2,059.8**
1981	—	26.7	26.7	336.5	161.0	191.9	4.7	90.3	63.3	—	228.0	183.6	922.8	—	1,286.1	937.3	2,223.3
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	822.9	1,876.7
1983	—	30.5	30.5	304.5	153.9	180.4	1.7	79.7	57.0	13.6	106.2	123.2	715.9	—	1,050.9	843.2	1,894.1
1984	—	40.7	40.7	302.3	208.2	181.1	1.3	50.6	63.1	19.5	181.0	129.0	833.8	—	1,176.8	920.9	2,097.7
1985	**—**	**45.4**	**45.4**	**272.5**	**220.8**	**171.9**	**23.2**	**[R] 103.3**	**58.7**	**48.5**	**146.6**	**115.5**	**[R] 888.5**	**—**	**[R] 1,206.3**	**876.6**	**[R] 2,083.0**
1986	—	37.9	37.9	174.5	227.3	129.4	0.9	[R] 99.0	50.8	36.1	44.3	83.7	[R] 671.5	—	[R] 883.9	811.6	[R] 1,695.5
1987	—	46.4	46.4	199.3	160.8	133.1	1.1	[R] 76.7	[R] 50.1	37.2	33.5	95.9	[R] 588.2	—	[R] 833.9	789.9	[R] 1,623.8
1988	—	49.2	49.2	214.5	164.6	102.1	2.0	[R] 79.7	[R] 52.0	35.2	57.5	81.4	[R] 574.4	—	[R] 838.0	833.0	[R] 1,671.0
1989	—	53.2	53.2	236.3	123.5	107.1	3.3	[R] 75.2	52.8	41.6	49.9	89.3	[R] 542.7	—	[R] 832.1	863.0	[R] 1,695.1
1990	**—**	**57.0**	**57.0**	**304.1**	**131.3**	**120.8**	**1.7**	**[R] 64.7**	**54.8**	**49.4**	**63.4**	**112.6**	**[R] 598.7**	**[d] [R] 24.1**	**[d] [R] 983.9**	**[R] 844.1**	**[d] [R] 1,828.0**
1991	—	53.8	53.8	259.4	148.5	96.2	0.4	[R] 69.2	56.4	43.0	39.0	91.2	[R] 544.0	[R] 29.7	[R] 886.8	[R] 855.6	[R] 1,742.4
1992	—	64.4	64.4	273.1	103.7	107.1	0.3	[R] 66.3	[R] 62.7	42.7	64.5	101.4	[R] 548.6	[R] 31.3	[R] 917.6	[R] 828.4	[R] 1,745.9
1993	—	63.1	63.1	389.4	158.2	119.0	0.4	[R] 72.0	[R] 66.1	42.8	76.1	91.2	[R] 625.6	[R] 32.6	[R] 1,110.6	[R] 857.5	[R] 1,968.1
1994	—	60.7	60.7	445.3	136.5	104.1	0.2	[R] 49.4	[R] 69.6	44.9	68.3	92.0	[R] 565.0	[R] 33.9	[R] 1,105.0	[R] 847.6	[R] 1,952.6
1995	**—**	**61.8**	**61.8**	**437.8**	**141.1**	**149.8**	**0.2**	**88.5**	**69.4**	**51.0**	**86.0**	**91.4**	**677.3**	**47.1**	**1,224.0**	**849.5**	**2,073.5**

[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=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 69. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Florida

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**—**	**—**	**2.17**	**1.44**	**0.73**	**1.27**	**5.08**	**2.81**	**0.29**	**2.19**	**2.19**	**—**	**2.19**
1971	—	—	2.21	1.51	0.76	1.27	5.27	2.77	0.38	2.19	2.19	—	2.19
1972	—	—	2.19	1.56	0.76	1.31	5.58	2.88	0.45	2.27	2.27	—	2.27
1973	—	—	2.36	1.85	0.90	1.42	5.33	3.05	0.60	2.46	2.46	—	2.46
1974	—	—	3.23	2.58	1.56	2.43	7.22	4.10	1.58	3.47	3.47	—	3.47
1975	**0.53**	**—**	**3.45**	**2.89**	**2.03**	**2.51**	**7.48**	**4.39**	**1.60**	**3.79**	**3.79**	**—**	**3.79**
1976	1.19	—	3.59	3.18	2.17	2.76	7.05	4.57	1.61	3.95	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	—	4.12
1978	—	—	4.29	3.76	2.83	3.34	7.60	5.18	1.70	4.52	4.52	—	4.52
1979	—	—	5.73	5.54	3.95	4.87	10.21	7.05	2.60	5.98	5.98	—	5.98
1980	**—**	**—**	**9.02**	**7.72**	**6.46**	**5.46**	**14.36**	**9.80**	**3.14**	**8.39**	**8.39**	**—**	**8.39**
1981	—	—	10.84	9.16	7.61	6.11	18.00	10.94	4.11	9.75	9.75	—	9.75
1982	—	—	10.92	8.27	7.18	6.63	17.25	10.51	3.87	9.36	9.36	—	9.36
1983	—	—	10.44	7.50	6.44	7.06	16.98	9.13	4.02	8.34	8.34	—	8.34
1984	—	—	10.27	7.40	6.24	6.75	17.63	8.92	4.46	8.25	8.25	21.19	8.25
1985	**—**	**—**	**9.99**	**7.24**	**5.90**	**R 11.80**	**17.61**	**9.03**	**3.76**	**8.19**	**8.19**	**22.04**	**8.19**
1986	—	—	8.41	6.24	4.19	R 10.66	15.59	6.70	2.00	6.12	6.12	19.81	6.12
1987	—	—	7.55	6.66	4.07	R 9.74	R 13.58	7.11	2.82	6.42	6.42	19.74	R 6.43
1988	—	—	7.41	6.25	3.82	R 10.53	R 14.62	7.12	1.94	6.28	6.28	19.83	6.28
1989	—	—	8.28	6.64	4.43	R 9.69	14.48	7.68	2.33	6.79	6.79	19.67	6.79
1990	**—**	**2.50**	**9.32**	**8.21**	**5.64**	**R 10.76**	**14.60**	**8.85**	**2.56**	**R 7.94**	**R 7.94**	**R 20.02**	**7.94**
1991	—	4.31	8.71	7.75	4.93	R 11.22	R 16.80	8.48	1.95	7.64	7.64	R 20.08	7.64
1992	—	4.04	8.54	7.91	4.56	R 10.64	R 18.32	8.29	2.12	R 7.45	R 7.45	R 19.97	R 7.45
1993	—	4.05	8.24	8.20	4.23	R 10.17	R 18.96	8.42	1.96	7.44	7.44	R 20.39	7.44
1994	—	3.88	7.96	8.28	3.93	R 8.34	R 19.11	8.29	2.18	7.40	7.40	R 19.71	7.40
1995	**—**	**3.61**	**8.36**	**8.27**	**3.91**	**8.66**	**19.40**	**8.46**	**2.54**	**7.62**	**7.62**	**19.62**	**7.62**
	Expenditures in Million Nominal Dollars												
1970	**—**	**—**	**34.4**	**63.0**	**96.6**	**0.9**	**20.6**	**1,101.8**	**4.2**	**1,321.5**	**1,321.5**	**—**	**1,321.5**
1971	—	—	29.0	65.6	112.1	1.0	21.8	1,159.6	4.0	1,393.2	1,393.2	—	1,393.2
1972	—	—	23.2	74.4	121.9	1.0	24.7	1,342.8	5.0	1,593.0	1,593.0	—	1,593.0
1973	—	—	24.2	116.2	141.0	1.1	23.6	1,574.7	10.0	1,890.6	1,890.6	—	1,890.6
1974	—	—	34.6	161.3	205.8	1.7	30.6	2,094.1	23.3	2,551.4	2,551.4	—	2,551.4
1975	**(s)**	**—**	**33.4**	**171.1**	**275.3**	**1.6**	**28.2**	**2,293.5**	**22.3**	**2,825.4**	**2,825.4**	**—**	**2,825.4**
1976	(s)	—	30.5	197.6	305.2	1.8	29.6	2,465.3	30.7	3,060.6	3,060.6	—	3,060.6
1977	(s)	—	29.5	296.6	390.9	2.0	34.0	2,632.0	42.3	3,427.5	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	—	3,956.1
1979	—	—	36.8	511.5	692.0	2.7	56.0	4,067.6	185.1	5,551.6	5,551.6	—	5,551.6
1980	**—**	**—**	**61.0**	**719.9**	**1,302.3**	**3.2**	**70.1**	**5,553.9**	**229.2**	**7,939.6**	**7,939.6**	**—**	**7,939.6**
1981	—	—	62.3	1,030.6	1,522.2	7.0	84.3	6,375.5	176.2	9,258.1	9,258.1	—	9,258.1
1982	—	—	48.5	854.7	1,358.3	8.6	73.6	6,241.7	138.8	8,724.2	8,724.2	—	8,724.2
1983	—	—	46.5	863.9	1,089.0	10.8	75.9	5,602.2	102.5	7,790.8	7,790.8	—	7,790.8
1984	—	—	36.5	902.3	845.9	13.1	84.1	5,612.1	114.4	7,608.4	7,608.4	0.5	7,608.9
1985	**—**	**—**	**42.4**	**857.8**	**762.5**	**R 16.6**	**78.2**	**5,834.1**	**162.9**	**R 7,754.5**	**R 7,754.5**	**1.3**	**R 7,755.8**
1986	—	—	43.4	792.2	587.3	R 17.0	67.7	4,527.7	95.1	R 6,130.5	R 6,130.5	2.5	R 6,132.9
1987	—	—	29.6	862.6	604.7	R 6.9	R 66.7	5,044.1	163.6	R 6,778.3	R 6,778.3	2.7	R 6,781.0
1988	—	—	33.0	923.5	685.3	R 8.4	69.2	5,226.7	100.1	R 7,046.2	R 7,046.2	2.2	R 7,048.4
1989	—	—	40.8	1,008.4	835.0	R 7.6	R 70.4	5,640.8	118.5	R 7,721.4	R 7,721.4	2.6	R 7,724.0
1990	**—**	**(s)**	**38.0**	**1,221.9**	**1,013.5**	**R 8.4**	**73.0**	**6,466.7**	**162.4**	**R 8,983.9**	**R 8,983.9**	**2.7**	**R 8,986.6**
1991	—	(s)	31.3	1,050.3	693.5	R 7.2	75.1	6,212.9	102.2	R 8,172.6	R 8,172.6	2.8	R 8,175.4
1992	—	(s)	25.6	1,212.7	626.4	R 6.4	R 83.5	6,159.0	138.4	R 8,252.1	R 8,252.1	2.7	R 8,254.8
1993	—	0.1	21.9	698.2	635.8	R 6.0	R 88.0	6,595.7	145.3	R 8,190.9	R 8,191.0	2.6	R 8,193.6
1994	—	0.3	21.1	1,263.7	636.6	R 8.5	R 92.7	6,588.2	R 140.0	R 8,750.8	R 8,751.1	2.6	R 8,753.7
1995	**—**	**0.3**	**25.3**	**1,438.3**	**621.8**	**4.7**	**92.5**	**6,950.3**	**136.8**	**9,269.6**	**9,269.9**	**2.5**	**9,272.4**

[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.
(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 70. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Florida

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	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	0.39	—	0.47
1973	0.51	0.45	0.68	0.95	—	0.69	0.16	—	0.57
1974	0.74	0.59	1.80	1.85	—	1.80	0.16	—	1.19
1975	**1.01**	**0.72**	**1.85**	**2.21**	**—**	**1.88**	**0.17**	**—**	**1.35**
1976	1.10	0.83	1.81	2.33	—	1.85	0.19	—	1.39
1977	1.27	0.88	2.12	2.59	—	2.15	0.19	—	1.41
1978	1.47	1.03	1.98	2.66	—	2.02	0.19	—	1.44
1979	1.62	1.27	2.88	4.84	—	3.00	0.26	—	1.98
1980	**1.80**	**1.53**	**3.72**	**5.76**	**—**	**3.80**	**0.35**	**—**	**2.40**
1981	2.01	1.84	4.74	7.19	—	4.81	0.37	—	3.03
1982	2.15	2.19	4.30	7.27	—	4.34	0.51	1.28	2.57
1983	2.18	2.53	4.27	6.30	—	4.31	0.49	1.12	2.66
1984	2.17	3.32	4.62	6.01	—	4.66	0.60	1.28	2.46
1985	**2.12**	**3.25**	**3.87**	**5.71**	**—**	**3.96**	**0.65**	**—**	**2.21**
1986	1.93	2.08	2.15	3.41	—	2.18	0.73	—	1.76
1987	1.82	2.71	2.91	3.93	—	2.94	0.69	—	1.96
1988	1.78	2.10	2.20	3.54	—	2.23	0.94	—	1.72
1989	1.79	2.46	2.69	4.27	—	2.77	0.66	—	1.90
1990	**1.85**	**2.53**	**2.99**	**5.09**	**—**	**3.08**	**0.64**	**—**	**1.98**
1991	1.86	2.14	2.23	4.63	—	2.31	0.66	—	1.81
1992	1.82	2.28	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
1995	**1.79**	**2.24**	**2.48**	**3.98**	**—**	**2.53**	**0.53**	**—**	**1.73**
	Expenditures in Million Nominal Dollars								
1970	**35.8**	**72.4**	**86.5**	**1.3**	**—**	**87.8**	**—**	**—**	**196.0**
1971	39.6	78.0	137.5	3.7	—	141.2	—	—	258.8
1972	52.5	68.8	205.8	13.1	—	218.9	0.3	—	340.5
1973	77.8	76.9	289.7	16.5	—	306.2	8.2	—	469.1
1974	108.2	92.8	708.8	41.2	—	750.1	13.7	—	964.8
1975	**134.7**	**102.9**	**794.0**	**66.8**	**—**	**860.8**	**15.8**	**—**	**1,114.2**
1976	154.9	105.5	848.9	73.5	—	922.4	17.7	—	1,200.6
1977	199.2	122.8	864.0	81.0	—	945.0	35.8	—	1,302.9
1978	248.8	166.8	896.4	78.2	—	974.6	32.2	—	1,422.5
1979	313.5	216.6	1,268.4	140.5	—	1,408.9	43.0	—	1,982.0
1980	**374.6**	**257.9**	**1,635.7**	**107.3**	**—**	**1,743.0**	**63.8**	**—**	**2,439.2**
1981	447.6	320.3	2,231.7	94.2	—	2,326.0	58.7	—	3,152.6
1982	493.6	405.8	1,459.2	36.2	—	1,495.5	108.2	(s)	2,503.1
1983	661.2	447.0	1,324.3	36.9	—	1,361.2	78.9	(s)	2,548.3
1984	772.6	585.6	900.8	32.7	—	933.5	157.8	(s)	2,449.6
1985	**947.7**	**544.2**	**546.2**	**41.5**	**—**	**587.7**	**165.1**	**—**	**2,244.7**
1986	844.1	354.8	588.3	20.3	—	608.6	172.9	—	1,980.3
1987	1,017.1	480.6	596.7	23.9	—	620.6	138.6	—	2,256.9
1988	1,038.9	327.3	547.5	21.4	—	568.9	265.0	—	2,200.2
1989	1,075.1	464.5	685.2	60.6	—	745.8	148.5	—	2,433.9
1990	**1,098.4**	**484.4**	**729.4**	**55.4**	**—**	**784.9**	**149.2**	**—**	**2,516.8**
1991	1,140.8	435.8	653.0	48.8	—	701.8	146.2	—	2,424.6
1992	1,126.4	466.3	656.9	37.0	—	693.9	166.0	—	2,452.6
1993	1,094.2	411.9	728.1	34.6	—	762.7	174.8	—	2,443.6
1994	1,082.2	393.3	737.0	30.1	—	767.2	175.7	—	2,418.4
1995	**1,106.9**	**720.1**	**525.1**	**32.0**	**—**	**557.1**	**162.6**	**—**	**2,546.6**

[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 71. Energy Price and Expenditure Estimates by Source, 1970-1995, 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**	**1.06**	**0.73**	**2.01**	**2.80**	**0.38**	**1.70**	**1.94**	**—**	**—**	**1.24**	**0.35**	**4.58**	**1.86**
1971	—	0.44	0.44	0.66	1.18	0.76	2.07	2.90	0.51	1.74	2.02	—	—	1.32	0.41	4.82	1.99
1972	—	0.45	0.45	0.73	1.17	0.76	2.03	2.89	0.46	1.80	1.99	—	—	1.33	0.44	5.17	2.05
1973	—	0.44	0.44	0.79	1.40	0.90	2.73	3.08	0.56	1.83	2.14	—	—	1.45	0.48	5.51	2.21
1974	—	0.80	0.80	0.87	2.33	1.56	3.36	4.39	1.68	2.84	3.27	0.11	—	2.12	0.89	6.91	3.14
1975	**—**	**0.95**	**0.95**	**1.02**	**2.71**	**2.03**	**3.58**	**4.73**	**1.70**	**2.97**	**3.65**	**0.13**	**—**	**2.28**	**0.91**	**8.93**	**3.68**
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	2.55	4.21	5.21	2.05	3.09	4.00	0.28	—	2.67	1.16	10.11	4.37
1978	—	1.26	1.26	1.97	3.38	2.83	4.39	5.27	1.91	3.32	4.15	0.33	—	2.81	1.24	11.05	4.66
1979	—	1.38	1.38	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	**—**	**1.50**	**1.50**	**3.06**	**7.00**	**6.46**	**6.40**	**9.91**	**3.27**	**6.89**	**8.02**	**0.45**	**—**	**4.55**	**1.38**	**12.75**	**7.34**
1981	—	1.71	1.71	3.83	8.31	7.61	7.18	11.04	4.15	8.88	9.44	0.39	—	5.24	1.58	14.01	8.50
1982	—	1.86	1.86	4.50	7.73	7.18	7.48	10.42	3.79	7.95	8.93	0.43	—	5.25	1.70	16.42	8.81
1983	—	1.89	1.89	5.08	6.93	6.27	8.17	8.91	4.15	7.33	7.84	0.52	—	4.87	1.73	16.44	8.32
1984	—	1.92	1.92	5.24	6.76	6.01	8.89	8.59	4.86	7.66	7.67	0.60	—	4.81	1.82	17.06	8.42
1985	**—**	**1.87**	**1.87**	**5.25**	**6.64**	**5.66**	**[R] 9.60**	**8.76**	**4.13**	**8.05**	**[R] 7.56**	**0.72**	**—**	**4.63**	**1.73**	**17.09**	**8.48**
1986	—	1.81	1.81	4.95	5.53	3.51	[R] 8.93	6.29	2.23	6.14	[R] 5.74	0.84	—	3.90	1.71	16.91	[R] 7.45
1987	—	1.79	1.79	4.78	5.77	3.77	[R] 8.87	6.66	2.90	[R] 5.63	[R] 5.97	0.94	—	3.86	1.63	17.44	[R] 7.58
1988	—	1.75	1.75	4.72	5.42	3.54	[R] 8.48	6.51	2.29	5.35	5.75	1.01	—	3.81	1.61	18.29	7.57
1989	—	1.75	1.75	4.77	5.91	4.12	[R] 9.23	7.12	2.61	5.85	6.39	1.00	—	3.92	1.53	18.70	8.12
1990	**—**	**1.79**	**1.79**	**4.80**	**7.29**	**5.45**	**[R] 10.33**	**8.24**	**2.52**	**5.63**	**7.37**	**0.87**	**[d R] 1.58**	**[d] 4.23**	**1.53**	**19.25**	**[d R] 8.68**
1991	—	1.80	1.80	4.65	6.87	4.61	[R] 10.77	7.95	2.11	5.80	7.15	0.73	1.59	4.13	1.46	[R] 19.29	8.53
1992	—	1.80	1.80	4.69	6.56	4.39	[R] 9.10	7.66	2.55	[R] 5.79	6.79	0.59	1.60	4.01	1.39	19.60	[R] 8.41
1993	—	1.78	1.78	5.18	6.44	4.13	[R] 8.92	7.55	2.16	5.57	[R] 6.68	0.54	[R] 1.59	4.10	1.40	19.71	8.51
1994	—	1.70	1.70	5.22	6.45	3.80	[R] 10.14	7.55	2.38	[R] 5.61	[R] 6.68	0.58	1.58	[R] 4.03	1.34	19.30	[R] 8.44
1995	**—**	**1.68**	**1.68**	**4.53**	**6.39**	**3.80**	**10.18**	**7.78**	**2.50**	**5.88**	**6.83**	**0.55**	**1.61**	**3.97**	**1.32**	**19.44**	**8.43**
	Expenditures in Million Nominal Dollars																
1970	**—**	**75.7**	**75.7**	**195.4**	**79.1**	**42.8**	**56.5**	**795.3**	**24.5**	**72.4**	**1,070.5**	**—**	**—**	**1,341.6**	**-88.1**	**491.7**	**1,745.3**
1971	—	96.3	96.3	229.3	100.6	50.3	59.2	880.3	33.5	85.5	1,209.4	—	—	1,534.9	-118.5	552.6	1,969.1
1972	—	118.4	118.4	243.2	112.1	50.1	61.5	945.4	38.4	94.7	1,302.3	—	—	1,663.9	-141.7	638.2	2,160.4
1973	—	120.5	120.5	279.3	166.1	72.1	84.9	1,068.5	49.8	101.3	1,542.7	—	—	1,942.5	-160.4	748.7	2,530.8
1974	—	228.0	228.0	290.4	271.8	104.7	95.3	1,500.0	149.0	150.5	2,271.3	0.1	—	2,789.6	-327.4	932.3	3,394.5
1975	**—**	**295.9**	**295.9**	**336.1**	**254.0**	**147.4**	**108.2**	**1,628.9**	**115.5**	**142.2**	**2,396.2**	**4.3**	**—**	**3,032.5**	**-372.6**	**1,265.9**	**3,925.8**
1976	—	342.5	342.5	347.9	325.5	162.2	130.1	1,761.8	154.0	182.6	2,716.1	6.1	—	3,412.6	-441.3	1,378.7	4,350.0
1977	—	460.6	460.6	442.1	392.8	203.6	142.3	1,924.1	187.9	210.6	3,061.4	11.2	—	3,975.2	-577.8	1,635.7	5,033.2
1978	—	547.9	547.9	556.8	375.2	243.5	139.8	2,007.4	146.9	254.8	3,167.7	15.5	—	4,287.9	-636.1	1,852.4	5,504.1
1979	—	650.3	650.3	766.7	514.9	382.5	128.9	2,577.9	210.9	331.3	4,146.3	22.3	—	5,585.7	-705.7	1,935.5	6,815.4
1980	**—**	**784.3**	**784.3**	**970.9**	**792.6**	**598.1**	**175.0**	**3,409.4**	**185.0**	**478.0**	**5,638.0**	**41.7**	**—**	**7,434.9**	**-837.7**	**2,227.3**	**8,824.5**
1981	—	942.1	942.1	1,197.7	929.3	636.1	175.9	3,803.0	141.6	538.7	6,224.6	30.9	—	8,395.3	-966.8	2,489.9	9,918.5
1982	—	994.6	994.6	1,313.9	823.6	609.9	170.5	3,616.7	114.4	442.4	5,777.5	31.5	—	8,117.5	-997.2	2,927.5	10,047.8
1983	—	1,102.4	1,102.4	1,475.5	875.6	582.7	186.9	3,181.6	107.6	469.4	5,403.8	44.5	—	8,026.2	-1,104.3	3,022.4	9,944.3
1984	—	1,307.8	1,307.8	1,583.3	928.8	567.3	195.8	3,223.9	151.5	521.3	5,588.7	35.7	—	8,515.6	-1,281.6	3,490.3	10,724.3
1985	**—**	**1,359.4**	**1,359.4**	**1,467.5**	**918.3**	**518.0**	**[R] 234.5**	**3,356.1**	**285.0**	**484.4**	**[R] 5,796.4**	**79.4**	**—**	**[R] 8,702.6**	**-1,379.9**	**3,690.2**	**[R] 11,012.9**
1986	—	1,249.4	1,249.4	1,370.2	790.1	351.4	[R] 205.4	2,543.8	46.8	420.4	[R] 4,358.0	66.0	—	[R] 7,043.5	-1,256.5	3,916.7	[R] 9,703.6
1987	—	1,267.9	1,267.9	1,437.2	874.2	419.2	[R] 204.9	2,796.6	53.7	[R] 398.4	[R] 4,747.0	154.6	—	[R] 7,606.7	-1,347.1	4,236.8	[R] 10,496.3
1988	—	1,220.7	1,220.7	1,508.1	881.8	405.8	[R] 205.1	2,859.1	40.8	[R] 383.5	[R] 4,776.1	164.6	—	[R] 7,669.4	-1,305.3	4,608.9	[R] 10,973.0
1989	—	1,182.3	1,182.3	1,489.8	966.8	405.7	[R] 245.8	3,122.4	38.9	374.2	[R] 5,153.8	267.5	—	[R] 8,093.4	-1,372.2	4,885.1	[R] 11,606.3
1990	**—**	**1,282.3**	**1,282.3**	**1,466.3**	**1,210.2**	**567.9**	**[R] 220.0**	**3,580.3**	**51.4**	**422.7**	**[R] 6,052.5**	**230.0**	**[d R] 58.0**	**[d R] 9,089.1**	**-1,425.9**	**[R] 5,254.1**	**[d R] 12,917.4**
1991	—	1,161.0	1,161.0	1,471.1	1,077.4	375.5	[R] 259.5	3,493.8	32.8	450.7	[R] 5,689.7	205.1	[R] 69.8	[R] 8,596.7	-1,280.3	[R] 5,318.0	[R] 12,634.4
1992	—	1,107.8	1,107.8	1,575.5	1,037.8	307.3	[R] 235.3	3,376.8	98.4	[R] 443.5	[R] 5,499.1	176.5	[R] 70.3	[R] 8,429.3	-1,212.4	[R] 5,528.6	[R] 12,745.4
1993	—	1,175.2	1,175.2	1,788.2	1,172.2	354.0	[R] 242.3	3,690.5	66.5	[R] 445.9	[R] 5,971.4	156.8	[R] 75.1	[R] 9,166.7	-1,274.5	[R] 5,947.4	[R] 13,839.6
1994	—	1,175.9	1,175.9	[R] 1,757.8	1,182.4	364.4	[R] 273.6	3,708.1	62.8	[R] 450.5	[R] 6,042.0	180.1	[R] 74.4	[R] 9,230.2	-1,278.0	[R] 5,872.6	[R] 13,824.8
1995	**—**	**1,220.0**	**1,220.0**	**1,650.4**	**1,307.8**	**397.5**	**264.1**	**3,991.5**	**53.5**	**468.7**	**6,483.1**	**178.5**	**85.2**	**9,617.2**	**-1,341.5**	**6,328.5**	**14,604.2**

[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 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 72. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Georgia

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.00**	**1.02**	**1.24**	**1.48**	**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	—	1.39	5.89	2.76
1973	0.97	1.27	1.62	1.88	3.69	3.40	—	1.62	6.18	3.12
1974	1.33	1.36	2.46	2.97	3.87	3.68	—	1.75	7.39	3.74
1975	**3.23**	**1.46**	**2.61**	**3.35**	**4.40**	**4.20**	**—**	**1.89**	**9.01**	**4.35**
1976	1.52	1.65	2.89	3.40	4.67	4.38	—	2.13	9.26	4.62
1977	2.28	1.91	3.28	3.98	4.78	4.57	—	2.34	10.77	5.25
1978	2.92	2.27	3.49	4.25	4.79	4.64	—	2.61	11.85	5.95
1979	2.89	2.77	4.62	5.77	5.29	5.20	—	3.02	12.61	6.59
1980	**3.12**	**3.57**	**6.92**	**8.77**	**7.64**	**7.53**	**—**	**4.17**	**13.85**	**7.88**
1981	3.59	4.23	8.62	11.05	8.26	8.33	—	4.73	15.10	8.77
1982	3.72	5.18	8.35	11.03	8.73	8.77	—	5.58	17.86	10.56
1983	3.35	5.95	6.49	9.83	9.10	8.88	—	6.33	18.36	11.10
1984	3.45	6.25	6.97	9.51	9.83	9.56	—	6.66	18.62	11.51
1985	**3.31**	**6.42**	**7.51**	**10.25**	**9.23**	**9.11**	**—**	**6.87**	**18.91**	**12.10**
1986	3.00	6.46	5.43	7.41	9.26	8.63	—	6.78	19.67	12.58
1987	2.96	6.18	5.45	7.44	9.23	8.68	—	6.51	19.80	12.28
1988	2.95	6.07	5.54	7.56	8.36	8.04	—	6.31	20.58	12.38
1989	3.05	6.09	5.34	7.29	10.21	9.61	—	6.59	21.18	12.98
1990	**3.10**	**6.64**	**6.70**	**9.15**	**10.17**	**9.77**	**[d] 3.53**	**[d] 6.88**	**[R] 21.87**	**[d] 13.44**
1991	2.94	6.52	6.25	8.53	10.57	10.18	3.53	6.83	21.98	13.26
1992	2.92	6.28	6.01	8.20	8.07	7.94	3.53	6.35	[R] 22.66	12.95
1993	3.10	6.62	6.07	8.28	8.09	7.93	3.53	6.63	[R] 22.84	13.32
1994	3.10	7.11	3.84	5.25	[R] 11.62	[R] 11.13	3.53	[R] 7.42	22.62	[R] 13.79
1995	**3.00**	**6.02**	**4.36**	**5.95**	**11.63**	**10.97**	**3.53**	**6.44**	**23.01**	**13.51**
	Expenditures in Million Nominal Dollars									
1970	**1.1**	**91.6**	**1.8**	**1.0**	**36.9**	**39.7**	**—**	**132.3**	**220.7**	**353.0**
1971	0.6	100.1	2.4	1.3	38.4	42.1	—	142.8	244.4	387.3
1972	0.5	107.2	2.9	0.9	37.7	41.5	—	149.2	277.2	426.4
1973	0.6	112.3	3.5	0.8	57.0	61.3	—	174.3	324.4	498.7
1974	0.6	106.7	4.8	0.8	52.3	57.9	—	165.2	380.8	546.0
1975	**1.4**	**130.5**	**4.5**	**0.7**	**63.7**	**68.9**	**—**	**200.7**	**505.9**	**706.7**
1976	0.3	146.4	8.5	0.7	74.9	84.0	—	230.7	534.2	764.9
1977	0.7	193.3	8.1	1.5	77.6	87.2	—	281.3	684.1	965.3
1978	0.5	224.5	6.4	1.1	70.7	78.3	—	303.3	777.2	1,080.5
1979	0.6	261.9	8.2	2.5	44.4	55.1	—	317.7	790.2	1,107.9
1980	**0.6**	**332.0**	**23.3**	**4.5**	**99.7**	**127.6**	**—**	**460.2**	**946.6**	**1,406.8**
1981	1.0	399.2	9.2	2.1	99.7	111.0	—	511.2	1,041.2	1,552.4
1982	0.4	463.1	7.9	3.9	87.7	99.5	—	563.1	1,227.7	1,790.8
1983	0.1	558.2	8.5	5.7	108.6	122.9	—	681.1	1,298.6	1,979.8
1984	2.2	610.7	9.4	3.3	127.5	140.1	—	753.0	1,434.2	2,187.2
1985	**1.1**	**555.0**	**15.5**	**15.0**	**131.3**	**161.8**	**—**	**717.9**	**1,516.4**	**2,234.3**
1986	0.2	591.3	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	672.5	8.3	8.8	113.6	130.8	—	804.0	1,939.0	2,743.0
1989	0.3	648.0	8.3	7.3	153.9	169.6	—	817.9	2,049.0	2,866.9
1990	**0.6**	**615.6**	**9.8**	**5.8**	**125.3**	**140.8**	**[d] 19.9**	**[d] 776.9**	**[R] 2,233.3**	**[d R] 3,010.2**
1991	0.2	647.6	6.5	5.5	139.5	151.5	21.0	820.3	2,264.0	3,084.3
1992	1.0	696.9	6.2	5.1	117.5	128.8	22.1	848.8	[R] 2,360.6	[R] 3,209.3
1993	0.6	786.5	8.3	6.4	122.3	137.1	24.0	948.1	[R] 2,639.6	[R] 3,587.7
1994	0.8	771.8	2.5	2.4	[R] 178.1	[R] 183.0	23.6	[R] 979.1	2,527.0	[R] 3,506.1
1995	**1.6**	**708.7**	**4.0**	**4.2**	**168.6**	**176.9**	**26.1**	**913.3**	**2,811.1**	**3,724.4**

[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.

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, 1970-1995, Georgia

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.50**	**0.72**	**0.97**	**0.63**	**1.58**	**2.80**	**0.32**	**1.44**	**0.84**	**5.85**	**2.60**
1971	0.47	0.82	1.05	0.68	1.65	2.90	0.54	1.49	0.95	6.10	2.76
1972	0.56	0.86	1.05	0.68	1.69	2.89	0.50	1.47	0.98	6.49	2.96
1973	0.55	0.91	1.24	0.79	1.78	3.08	0.56	1.63	1.04	6.91	3.22
1974	1.25	0.99	2.06	1.77	2.90	4.39	1.57	2.63	1.30	8.53	4.11
1975	**1.31**	**1.07**	**2.25**	**2.22**	**2.83**	**4.73**	**1.73**	**2.85**	**1.36**	**10.79**	**4.98**
1976	1.21	1.35	2.51	2.38	3.17	4.90	1.72	2.96	1.71	11.24	5.57
1977	1.33	1.71	2.89	2.93	3.68	5.21	2.06	3.40	2.01	11.89	5.85
1978	1.52	2.02	3.02	3.25	4.04	5.27	1.94	3.67	2.26	13.06	6.02
1979	1.52	2.43	4.28	3.95	4.26	7.05	2.82	4.81	2.73	13.82	6.51
1980	**1.60**	**3.12**	**6.31**	**6.06**	**5.27**	**9.91**	**3.44**	**7.00**	**3.47**	**14.64**	**7.69**
1981	1.76	3.88	7.85	6.97	6.13	11.04	4.24	8.10	4.55	16.10	8.97
1982	1.82	4.60	7.48	7.36	6.49	10.42	3.70	7.90	5.13	18.20	10.43
1983	1.70	5.28	6.44	6.90	7.16	8.91	4.41	6.45	5.58	18.00	10.25
1984	1.78	5.51	6.51	6.80	7.54	8.59	4.73	6.44	5.71	19.99	11.41
1985	**1.80**	**5.57**	**6.10**	**6.60**	**[R] 10.13**	**8.76**	**4.20**	**[R] 6.65**	**[R] 5.79**	**19.94**	**[R] 12.21**
1986	1.76	5.46	3.79	4.50	[R] 8.51	6.29	2.46	[R] 4.21	[R] 5.15	18.17	[R] 11.34
1987	1.73	5.26	4.11	4.59	[R] 8.36	6.66	2.90	[R] 4.59	[R] 5.08	19.81	[R] 12.07
1988	1.75	5.32	3.72	4.21	[R] 8.65	6.51	2.37	[R] 4.44	[R] 5.10	20.90	[R] 12.79
1989	1.73	5.33	4.36	5.05	[R] 7.95	7.12	2.72	[R] 5.40	[R] 5.33	21.33	13.82
1990	**1.78**	**5.61**	**5.47**	**6.04**	**[R] 10.56**	**8.24**	**3.04**	**[R] 6.82**	**[R] 5.83**	**[R] 21.57**	**[R] 14.61**
1991	1.79	5.52	4.93	5.45	[R] 11.01	7.95	2.26	[R] 6.94	[R] 5.73	21.68	[R] 14.82
1992	1.80	5.41	4.72	5.17	[R] 10.44	7.66	2.40	[R] 6.63	[R] 5.58	22.10	[R] 14.78
1993	1.80	5.68	4.51	4.99	[R] 9.98	7.55	2.47	[R] 6.08	[R] 5.71	21.93	[R] 14.84
1994	1.82	6.00	4.27	[R] 4.81	[R] 9.23	7.55	2.54	[R] 5.86	[R] 5.95	21.64	[R] 15.08
1995	**1.77**	**5.07**	**4.27**	**4.66**	**9.49**	**7.78**	**2.76**	**5.55**	**5.10**	**21.60**	**14.72**
	Expenditures in Million Nominal Dollars										
1970	**1.0**	**28.6**	**4.0**	**0.1**	**4.4**	**5.1**	**0.2**	**13.9**	**43.5**	**163.1**	**206.7**
1971	0.6	35.6	5.3	0.2	4.6	5.6	0.4	16.1	52.3	183.5	235.7
1972	0.5	39.9	6.4	0.1	4.8	5.5	0.4	17.2	57.6	215.7	273.3
1973	0.6	44.2	7.7	0.1	4.9	6.2	0.4	19.3	64.2	252.2	316.4
1974	1.1	45.0	11.5	0.2	6.9	8.2	1.1	27.9	74.0	310.7	384.7
1975	**1.0**	**54.2**	**11.2**	**0.1**	**7.2**	**9.2**	**0.9**	**28.6**	**83.8**	**413.2**	**497.0**
1976	0.5	64.1	21.0	0.1	9.0	9.8	0.9	40.8	105.4	473.2	578.6
1977	0.8	97.0	20.2	0.4	10.5	10.8	1.3	43.2	141.0	530.1	671.1
1978	0.5	125.1	15.8	0.3	10.5	11.0	1.0	38.7	164.2	508.8	673.0
1979	0.6	157.6	21.6	0.6	6.3	15.0	1.7	45.2	203.5	535.0	738.5
1980	**0.6**	**189.1**	**11.6**	**0.4**	**12.1**	**18.9**	**0.2**	**43.2**	**232.9**	**597.5**	**830.4**
1981	0.9	227.4	56.1	0.7	13.1	23.8	0.2	93.9	322.1	705.0	1,027.1
1982	0.4	259.5	45.4	6.0	11.5	23.1	0.1	86.1	346.0	836.9	1,182.9
1983	0.1	304.9	81.1	1.1	15.1	18.8	14.4	130.4	435.4	844.9	1,280.3
1984	2.1	316.2	84.1	0.6	17.3	16.7	21.1	139.7	458.0	1,064.4	1,522.3
1985	**1.1**	**295.1**	**54.9**	**1.7**	**[R] 25.5**	**14.2**	**12.4**	**[R] 108.7**	**[R] 404.9**	**1,157.5**	**[R] 1,562.4**
1986	0.2	282.6	21.9	1.9	[R] 19.4	11.9	16.1	[R] 71.1	[R] 354.0	1,131.9	[R] 1,485.9
1987	1.0	294.8	24.0	0.9	[R] 20.0	14.3	18.2	[R] 77.3	[R] 373.1	1,312.1	[R] 1,685.2
1988	0.8	305.0	26.1	0.5	[R] 20.8	15.5	11.4	[R] 74.3	[R] 380.0	1,475.7	[R] 1,855.8
1989	0.4	290.4	24.7	2.1	[R] 21.1	15.1	4.4	[R] 67.5	[R] 358.2	1,620.2	[R] 1,978.4
1990	**0.6**	**285.0**	**40.5**	**2.2**	**[R] 23.0**	**22.4**	**1.3**	**[R] 89.3**	**[R] 375.0**	**[R] 1,746.4**	**[R] 2,121.3**
1991	0.2	289.4	24.7	1.6	[R] 25.6	13.8	0.3	[R] 66.1	[R] 355.7	[R] 1,782.7	[R] 2,138.4
1992	1.1	298.9	28.5	1.1	[R] 26.8	16.7	0.1	[R] 73.2	[R] 373.3	1,855.6	[R] 2,228.8
1993	0.6	335.4	29.8	1.8	[R] 26.7	2.6	0.1	[R] 60.9	[R] 396.9	[R] 1,959.2	[R] 2,356.1
1994	0.8	334.0	25.8	[R] 4.1	[R] 25.0	6.8	0.1	[R] 61.7	[R] 396.6	[R] 2,006.1	[R] 2,402.7
1995	**1.7**	**294.0**	**35.0**	**0.9**	**24.3**	**2.5**	**0.2**	**63.0**	**358.6**	**2,123.4**	**2,482.0**

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

Table 74. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Georgia

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.50**	**0.50**	**0.40**	**0.76**	**0.58**	**0.63**	**1.58**	**5.08**	**2.80**	**0.40**	**2.53**	**0.81**	**—**	**0.58**	**2.91**	**0.86**
1971	—	0.47	0.47	0.50	0.78	0.62	0.68	1.65	5.27	2.90	0.51	1.95	0.91	—	0.69	3.13	0.98
1972	—	0.56	0.56	0.52	0.84	0.62	0.68	1.69	5.58	2.89	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	0.56	2.17	1.02	—	0.78	3.67	1.13
1974	—	1.25	1.25	0.68	1.75	1.62	1.77	2.90	7.22	4.39	1.76	2.85	2.09	—	1.32	5.12	1.82
1975	**—**	**1.31**	**1.31**	**0.82**	**1.74**	**2.05**	**2.22**	**2.83**	**7.48**	**4.73**	**1.69**	**3.33**	**2.23**	**—**	**1.43**	**7.33**	**2.30**
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	2.93	3.68	6.97	5.21	2.07	3.63	2.64	—	2.09	7.85	3.03
1978	—	1.52	1.52	1.71	2.16	2.96	3.25	4.04	7.60	5.27	1.91	3.80	2.82	—	2.29	8.96	3.52
1979	—	1.52	1.52	2.16	2.64	3.64	3.95	4.26	10.21	7.05	2.43	5.29	3.58	—	2.80	9.41	3.91
1980	**—**	**1.60**	**1.60**	**2.75**	**3.72**	**5.44**	**6.06**	**5.27**	**14.36**	**9.91**	**3.44**	**8.56**	**5.36**	**—**	**3.81**	**10.43**	**4.97**
1981	—	1.76	1.76	3.59	4.99	6.30	6.97	6.13	18.00	11.04	4.70	10.05	7.16	—	4.65	11.45	5.94
1982	—	1.82	1.82	4.05	4.07	6.69	7.36	6.49	17.25	10.42	4.21	9.73	6.56	—	4.69	13.57	6.43
1983	—	1.70	1.70	4.40	4.09	6.70	6.90	7.16	16.98	8.91	4.10	9.33	6.34	—	4.76	13.28	6.43
1984	—	1.78	1.78	4.46	4.50	6.56	6.80	7.54	17.63	8.59	4.73	9.54	6.61	—	4.91	13.34	6.61
1985	**—**	**1.80**	**1.80**	**4.41**	**4.97**	**6.36**	**6.60**	**[R] 10.13**	**17.61**	**8.76**	**4.20**	**9.22**	**[R] 6.14**	**—**	**[R] 4.89**	**13.09**	**6.46**
1986	—	1.76	1.76	3.80	4.19	4.34	4.50	[R] 8.51	15.59	6.29	2.46	6.42	[R] 5.31	—	[R] 4.06	12.95	6.06
1987	—	1.73	1.73	3.57	3.21	4.43	4.59	[R] 8.36	[R] 13.58	6.66	2.90	7.16	[R] 5.12	—	[R] 3.83	13.01	[R] 5.86
1988	—	1.75	1.75	3.52	3.15	4.06	4.21	[R] 8.65	[R] 14.62	6.51	2.37	6.11	[R] 4.81	—	3.67	13.68	[R] 5.87
1989	—	1.73	1.73	3.64	2.85	4.87	5.05	[R] 7.95	14.48	7.12	2.72	7.32	[R] 5.28	—	3.88	13.72	[R] 6.08
1990	**—**	**1.78**	**1.78**	**3.50**	**2.86**	**5.83**	**6.04**	**[R] 10.56**	**14.60**	**8.24**	**3.04**	**7.50**	**[R] 5.50**	**[d] [R] 1.23**	**[d] [R] 3.69**	**14.16**	**[d] [R] 5.76**
1991	—	1.79	1.79	3.25	3.18	5.26	5.45	[R] 11.01	[R] 16.80	7.95	2.26	6.08	[R] 5.58	[R] 1.28	[R] 3.57	[R] 14.02	5.62
1992	—	1.80	1.80	3.41	2.38	4.99	5.17	[R] 10.44	[R] 18.32	7.66	2.40	6.31	5.23	1.28	3.59	[R] 13.94	5.68
1993	—	1.80	1.80	3.99	2.63	4.81	4.99	[R] 9.98	[R] 18.96	7.55	2.47	5.67	[R] 5.05	1.26	[R] 3.79	[R] 13.89	5.88
1994	—	1.82	1.82	3.79	2.68	4.64	4.81	[R] 7.86	[R] 19.11	7.55	2.54	5.59	[R] 4.88	1.26	[R] 3.62	13.39	5.64
1995	**—**	**1.77**	**1.77**	**3.46**	**3.04**	**4.50**	**4.66**	**7.97**	**19.40**	**7.78**	**2.76**	**5.96**	**5.09**	**1.30**	**3.52**	**13.24**	**5.54**
	Expenditures in Million Nominal Dollars																
1970	**—**	**6.0**	**6.0**	**58.0**	**19.7**	**13.5**	**1.1**	**14.5**	**14.6**	**1.8**	**21.0**	**12.4**	**98.6**	**—**	**162.5**	**107.9**	**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	17.3	1.2	18.3	20.4	1.5	25.2	19.6	128.7	—	216.7	145.3	362.0
1973	—	5.4	5.4	106.3	27.4	20.5	1.0	22.3	22.5	1.3	33.7	23.4	152.1	—	263.9	172.1	436.0
1974	—	8.9	8.9	112.8	53.3	38.6	2.3	34.9	29.2	1.7	97.4	31.0	288.5	—	410.2	240.7	650.9
1975	**—**	**13.3**	**13.3**	**122.1**	**48.4**	**42.2**	**2.5**	**36.2**	**27.7**	**1.5**	**66.2**	**32.3**	**257.1**	**—**	**392.5**	**346.8**	**739.3**
1976	—	15.9	15.9	132.8	54.1	68.6	4.0	44.8	29.0	1.2	72.1	63.1	336.9	—	485.6	371.3	856.9
1977	—	20.1	20.1	143.7	67.0	77.3	5.4	52.3	26.7	1.2	101.8	75.6	407.3	—	571.2	421.5	992.7
1978	—	23.2	23.2	197.0	89.0	72.3	5.8	54.4	31.3	0.8	76.2	88.2	418.0	—	638.2	566.3	1,204.5
1979	—	20.3	20.3	338.7	90.1	78.6	8.3	76.0	43.9	1.3	114.1	132.0	544.4	—	903.4	610.2	1,513.6
1980	**—**	**26.5**	**26.5**	**440.0**	**118.2**	**126.4**	**15.4**	**61.7**	**55.0**	**1.4**	**115.4**	**212.9**	**706.5**	**—**	**1,173.0**	**682.6**	**1,855.6**
1981	—	43.7	43.7	561.2	124.4	103.3	8.7	58.4	66.2	1.2	67.5	253.9	683.6	—	1,288.6	743.0	2,031.6
1982	—	47.4	47.4	585.0	106.1	88.5	4.5	66.5	57.8	0.9	63.5	194.2	582.0	—	1,214.4	861.7	2,076.1
1983	—	59.0	59.0	605.5	142.0	114.7	0.9	57.0	59.6	0.9	61.6	190.2	626.9	—	1,291.5	877.9	2,169.4
1984	—	67.2	67.2	653.7	168.2	113.5	0.4	42.5	66.0	23.7	91.1	207.0	712.3	—	1,433.2	990.2	2,423.4
1985	**—**	**69.5**	**69.5**	**613.4**	**151.2**	**132.8**	**2.4**	**[R] 70.0**	**61.4**	**57.5**	**249.9**	**182.0**	**[R] 907.2**	**—**	**[R] 1,590.1**	**1,013.9**	**[R] 2,604.0**
1986	—	77.8	77.8	484.3	156.7	98.9	1.6	[R] 60.6	53.2	38.3	19.5	135.9	[R] 564.7	—	[R] 1,126.8	1,049.8	[R] 2,176.6
1987	—	84.1	84.1	501.3	127.4	92.1	1.5	[R] 56.0	[R] 52.4	42.6	22.7	151.4	[R] 546.0	—	[R] 1,131.3	1,097.7	[R] 2,229.1
1988	—	91.6	91.6	526.1	126.4	80.2	2.6	[R] 66.4	54.3	39.5	21.4	129.2	[R] 520.0	—	[R] 1,137.8	1,189.8	[R] 2,327.6
1989	—	88.0	88.0	549.2	93.9	112.1	1.8	[R] 67.3	55.2	48.5	24.2	151.1	[R] 554.2	—	[R] 1,191.4	1,211.1	[R] 2,402.4
1990	**—**	**99.5**	**99.5**	**559.8**	**121.2**	**137.2**	**0.8**	**[R] 67.7**	**57.3**	**55.4**	**33.1**	**170.2**	**[R] 643.0**	**[d] [R] 38.1**	**[d] [R] 1,340.3**	**[R] 1,269.2**	**[d] [R] 2,609.5**
1991	—	93.4	93.4	531.8	109.6	104.0	0.9	[R] 89.9	59.0	49.0	18.0	208.6	[R] 638.9	[R] 48.7	[R] 1,312.8	[R] 1,265.8	[R] 2,578.6
1992	—	79.9	79.9	576.4	77.3	80.2	0.3	[R] 86.8	[R] 65.6	49.2	40.7	223.0	[R] 623.0	[R] 48.2	[R] 1,327.4	[R] 1,307.0	[R] 2,634.5
1993	—	76.9	76.9	656.4	93.0	106.9	0.6	[R] 89.1	[R] 69.1	28.2	33.4	200.5	[R] 620.8	[R] 51.0	[R] 1,405.1	[R] 1,343.5	[R] 2,748.6
1994	—	87.4	87.4	[R] 648.6	93.3	93.1	0.4	[R] 63.2	[R] 72.8	30.8	36.1	200.0	[R] 589.8	[R] 50.9	[R] 1,376.7	1,333.5	[R] 2,710.2
1995	**—**	**86.0**	**86.0**	**625.9**	**111.5**	**122.9**	**0.9**	**66.9**	**72.6**	**33.9**	**32.7**	**200.8**	**642.2**	**59.0**	**1,413.2**	**1,387.8**	**2,801.0**

[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 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 75. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Georgia

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.50**	**—**	**2.17**	**1.32**	**0.73**	**1.58**	**5.08**	**2.80**	**0.28**	**2.33**	**2.33**	**—**	**2.33**
1971	0.47	—	2.21	1.50	0.76	1.65	5.27	2.90	0.48	2.41	2.41	—	2.41
1972	0.56	—	2.19	1.50	0.76	1.69	5.58	2.89	0.47	2.42	2.42	—	2.42
1973	0.55	—	2.36	1.75	0.90	1.78	5.33	3.08	0.51	2.55	2.55	—	2.55
1974	1.25	—	3.23	2.68	1.56	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**	**7.48**	**4.73**	**1.52**	**4.11**	**4.11**	**—**	**4.11**
1976	1.21	—	3.59	3.13	2.17	3.17	7.05	4.90	1.56	4.26	4.26	—	4.26
1977	1.33	—	3.97	3.52	2.55	3.68	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	1.52	4.66	4.66	—	4.66
1979	—	—	5.73	5.20	3.95	4.26	10.21	7.05	2.49	6.11	6.11	9.23	6.11
1980	**—**	**—**	**9.02**	**7.48**	**6.46**	**5.27**	**14.36**	**9.91**	**2.91**	**8.73**	**8.73**	**10.06**	**8.73**
1981	—	—	10.84	8.75	7.61	6.13	18.00	11.04	3.67	9.94	9.94	12.10	9.94
1982	—	—	10.92	7.92	7.18	6.49	17.25	10.42	3.35	9.36	9.36	12.87	9.36
1983	—	—	10.44	7.05	6.27	7.16	16.98	8.91	4.14	8.14	8.14	12.30	8.14
1984	—	—	10.27	6.84	6.01	7.54	17.63	8.59	5.28	7.87	7.87	13.58	7.87
1985	**—**	**—**	**9.99**	**6.74**	**5.66**	**[R] 10.13**	**17.61**	**8.76**	**3.38**	**7.90**	**7.90**	**12.92**	**7.90**
1986	—	—	8.41	5.88	3.51	[R] 8.51	15.59	6.29	1.67	5.79	5.79	13.59	5.79
1987	—	—	7.55	6.09	3.77	[R] 8.36	[R] 13.58	6.66	2.81	[R] 6.09	[R] 6.09	21.39	6.09
1988	—	—	7.41	5.74	3.54	[R] 8.65	[R] 14.62	6.51	1.95	5.89	5.89	21.42	5.90
1989	—	—	8.28	6.18	4.12	[R] 7.95	14.48	7.12	2.34	6.50	6.50	22.70	6.51
1990	**—**	**—**	**9.32**	**7.67**	**5.45**	**[R] 10.56**	**14.60**	**8.24**	**1.85**	**7.66**	**7.66**	**[R] 23.76**	**7.67**
1991	—	—	8.71	7.21	4.61	[R] 11.01	[R] 16.80	7.95	1.94	7.37	7.37	[R] 25.03	7.37
1992	—	—	8.54	6.85	4.39	[R] 10.44	[R] 18.32	7.66	2.65	7.05	7.05	[R] 25.50	7.06
1993	—	3.45	8.24	6.80	4.13	[R] 9.98	[R] 18.96	7.55	1.90	6.94	6.94	[R] 24.91	6.94
1994	—	3.95	7.96	6.81	3.80	[R] 8.18	[R] 19.11	7.55	2.19	6.89	6.89	[R] 25.54	6.90
1995	**—**	**3.76**	**8.36**	**6.85**	**3.80**	**8.50**	**19.40**	**7.78**	**2.17**	**7.05**	**7.05**	**25.20**	**7.06**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**6.6**	**59.6**	**42.8**	**0.6**	**16.9**	**788.3**	**0.3**	**915.2**	**915.2**	**—**	**915.2**
1971	(s)	—	7.1	74.8	50.3	0.7	18.9	873.1	0.4	1,025.4	1,025.4	—	1,025.4
1972	(s)	—	5.8	81.6	50.1	0.7	21.5	938.4	0.7	1,098.7	1,098.7	—	1,098.7
1973	(s)	—	5.8	118.0	72.1	0.8	20.2	1,060.9	1.9	1,279.8	1,279.8	—	1,279.8
1974	(s)	—	7.5	177.7	104.7	1.2	26.3	1,490.1	5.5	1,812.9	1,812.9	—	1,812.9
1975	**(s)**	**—**	**6.9**	**181.7**	**147.4**	**1.1**	**23.4**	**1,618.2**	**4.1**	**1,982.8**	**1,982.9**	**—**	**1,982.9**
1976	(s)	—	7.0	198.1	162.2	1.4	24.5	1,750.9	5.5	2,149.6	2,149.6	—	2,149.6
1977	(s)	—	7.9	248.1	203.6	1.9	26.1	1,912.2	4.3	2,404.0	2,404.0	—	2,404.0
1978	—	—	8.6	259.4	243.5	4.2	30.6	1,995.6	4.3	2,546.1	2,546.1	—	2,546.1
1979	—	—	10.9	401.5	382.5	2.1	42.9	2,561.5	54.0	3,455.4	3,455.4	0.1	3,455.5
1980	**—**	**—**	**17.6**	**616.2**	**598.1**	**1.5**	**53.8**	**3,389.1**	**54.8**	**4,731.1**	**4,731.1**	**0.5**	**4,731.6**
1981	—	—	18.0	743.9	636.1	4.7	64.7	3,778.0	61.2	5,306.6	5,306.6	0.7	5,307.3
1982	—	—	13.5	670.7	609.9	4.8	56.5	3,592.7	48.8	4,996.8	4,996.8	1.1	4,998.0
1983	—	—	11.6	663.5	582.7	6.2	58.3	3,161.8	29.8	4,513.9	4,513.9	1.0	4,515.0
1984	—	—	11.4	716.2	567.3	8.7	64.5	3,183.6	38.2	4,589.9	4,589.9	1.6	4,591.4
1985	**—**	**—**	**10.7**	**707.4**	**518.0**	**[R] 7.7**	**60.0**	**3,284.4**	**21.5**	**[R] 4,609.8**	**[R] 4,609.8**	**2.4**	**[R] 4,612.2**
1986	—	—	10.8	654.4	351.4	[R] 5.8	52.0	2,493.6	7.1	[R] 3,575.0	[R] 3,575.0	2.7	[R] 3,577.8
1987	—	—	8.3	743.7	419.2	[R] 4.0	[R] 51.2	2,739.7	8.8	[R] 3,974.9	[R] 3,974.9	3.7	[R] 3,978.6
1988	—	—	8.5	761.0	405.8	[R] 4.3	53.1	2,804.1	5.5	[R] 4,042.2	[R] 4,042.2	4.3	[R] 4,046.6
1989	—	—	8.8	813.3	405.7	[R] 3.4	54.0	3,058.8	9.8	[R] 4,353.7	[R] 4,353.7	4.8	[R] 4,358.5
1990	**—**	**—**	**9.2**	**1,015.9**	**567.9**	**[R] 4.1**	**56.0**	**3,502.5**	**15.4**	**[R] 5,171.0**	**[R] 5,171.0**	**5.3**	**[R] 5,176.3**
1991	—	—	8.0	936.8	375.5	[R] 4.5	57.6	3,431.1	14.2	[R] 4,827.6	[R] 4,827.6	5.4	[R] 4,833.0
1992	—	—	7.2	917.4	307.3	[R] 4.2	[R] 64.1	3,310.9	56.3	[R] 4,667.4	[R] 4,667.4	5.4	[R] 4,672.8
1993	—	(s)	7.0	1,018.9	354.0	[R] 4.2	67.5	3,659.7	30.7	[R] 5,142.0	[R] 5,142.1	[R] 5.1	[R] 5,147.1
1994	—	(s)	6.4	1,054.1	364.4	[R] 7.4	[R] 71.2	3,670.5	[R] 25.8	5,199.8	5,199.8	6.0	5,205.8
1995	**—**	**(s)**	**6.6**	**1,136.9**	**397.5**	**4.3**	**71.0**	**3,955.1**	**19.2**	**5,590.6**	**5,590.6**	**6.2**	**5,596.8**

[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 76. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Georgia

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.38**	**0.29**	**0.31**	**0.39**	**—**	**0.31**	**—**	**—**	**0.35**
1971	0.44	0.31	0.53	0.71	—	0.57	—	—	0.41
1972	0.45	0.35	0.49	0.66	—	0.53	—	—	0.44
1973	0.44	0.47	0.56	1.09	—	0.76	—	—	0.48
1974	0.79	0.58	1.57	2.06	—	1.76	0.11	—	0.89
1975	**0.93**	**0.71**	**1.74**	**2.30**	**—**	**1.85**	**0.13**	**—**	**0.91**
1976	0.98	0.99	1.76	2.48	—	1.91	0.13	—	1.01
1977	1.10	1.30	2.05	2.78	—	2.24	0.28	—	1.16
1978	1.25	1.70	1.95	2.84	—	2.11	0.33	—	1.24
1979	1.38	2.58	2.79	3.93	—	2.88	0.40	—	1.33
1980	**1.50**	**2.56**	**3.47**	**6.22**	**—**	**4.48**	**0.45**	**—**	**1.38**
1981	1.71	3.44	4.23	7.78	—	5.72	0.39	—	1.58
1982	1.86	4.06	3.74	7.27	—	6.31	0.43	—	1.70
1983	1.90	4.18	4.51	6.23	—	5.81	0.52	—	1.73
1984	1.93	4.44	5.44	5.81	—	5.75	0.60	—	1.82
1985	**1.88**	**4.31**	**3.59**	**5.65**	**—**	**5.22**	**0.72**	**—**	**1.73**
1986	1.81	2.00	1.82	3.46	—	2.32	0.84	—	1.71
1987	1.79	3.72	3.09	3.91	—	3.42	0.94	—	1.63
1988	1.75	2.73	2.24	3.39	—	2.95	1.01	—	1.61
1989	1.75	3.16	2.77	4.52	—	4.37	1.00	—	1.53
1990	**1.79**	**2.97**	**2.18**	**5.44**	**—**	**4.26**	**0.87**	**—**	**1.53**
1991	1.80	2.76	2.22	4.74	—	4.49	0.73	—	1.46
1992	1.80	2.82	3.05	4.66	—	4.22	0.59	—	1.39
1993	1.78	3.24	2.15	4.24	—	3.50	0.54	—	1.40
1994	1.69	3.21	2.26	3.96	—	3.65	0.58	—	1.34
1995	**1.67**	**2.72**	**2.15**	**3.98**	**—**	**3.56**	**0.55**	**—**	**1.32**
	Expenditures in Million Nominal Dollars								
1970	**67.7**	**17.3**	**3.0**	**0.1**	**—**	**3.1**	**—**	**—**	**88.1**
1971	89.7	20.4	6.2	2.1	—	8.3	—	—	118.5
1972	111.8	13.8	12.2	3.9	—	16.1	—	—	141.7
1973	113.9	16.5	13.8	16.3	—	30.1	—	—	160.4
1974	217.4	25.8	45.0	39.2	—	84.1	0.1	—	327.4
1975	**280.1**	**29.3**	**44.3**	**14.4**	**—**	**58.7**	**4.3**	**—**	**372.6**
1976	325.8	4.7	75.4	29.4	—	104.8	6.1	—	441.3
1977	438.9	8.1	80.5	39.1	—	119.6	11.2	—	577.8
1978	523.8	10.2	65.4	21.2	—	86.6	15.5	—	636.1
1979	628.7	8.6	41.1	5.0	—	46.1	22.3	—	705.7
1980	**756.7**	**9.7**	**14.6**	**15.1**	**—**	**29.7**	**41.7**	**—**	**837.7**
1981	896.5	9.8	12.7	16.9	—	29.5	30.9	—	966.8
1982	946.3	6.3	2.1	11.0	—	13.1	31.5	—	997.2
1983	1,043.2	7.0	1.8	7.8	—	9.6	44.5	—	1,104.3
1984	1,236.3	2.8	1.1	5.7	—	6.8	35.7	—	1,281.6
1985	**1,287.7**	**3.9**	**1.3**	**7.7**	**—**	**9.0**	**79.4**	**—**	**1,379.9**
1986	1,171.2	11.9	4.1	3.4	—	7.5	66.0	—	1,256.5
1987	1,181.8	3.1	4.0	3.5	—	7.5	154.6	—	1,347.1
1988	1,127.6	4.4	2.5	6.2	—	8.7	164.6	—	1,305.3
1989	1,093.6	2.2	0.5	8.4	—	8.9	267.5	—	1,372.2
1990	**1,181.5**	**5.9**	**1.6**	**6.9**	**—**	**8.5**	**230.0**	**—**	**1,425.9**
1991	1,067.1	2.4	0.3	5.3	—	5.6	205.1	—	1,280.3
1992	1,025.8	3.4	1.3	5.4	—	6.7	176.5	—	1,212.4
1993	1,097.1	10.0	2.3	8.3	—	10.6	156.8	—	1,274.5
1994	1,086.8	3.4	0.9	6.8	—	7.7	180.1	—	1,278.0
1995	**1,130.7**	**21.8**	**1.5**	**8.9**	**—**	**10.4**	**178.5**	**—**	**1,341.5**

[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 77. Energy Price and Expenditure Estimates by Source, 1970-1995, Hawaii

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	**—**	**—**	**—**	**—**	**1.04**	**0.73**	**2.53**	**3.32**	**0.40**	**1.14**	**1.09**	**—**	**0.65**	**1.09**	**0.41**	**6.98**	**1.73**
1971	—	—	—	—	1.12	0.77	2.99	3.38	0.50	R 1.43	1.14	—	0.69	1.14	0.49	7.32	1.82
1972	—	—	—	—	1.06	0.76	3.18	3.35	0.56	R 1.47	1.16	—	0.72	1.16	0.55	7.46	1.90
1973	—	—	—	—	1.26	0.91	4.70	3.61	0.68	R 1.45	1.35	—	0.77	1.35	0.67	8.17	2.19
1974	—	—	—	—	2.05	1.57	5.06	4.78	0.97	R 2.32	2.01	—	0.84	2.01	0.89	9.43	3.16
1975	**—**	**—**	**—**	**—**	**2.30**	**2.04**	**3.77**	**5.44**	**1.59**	**R 2.57**	**2.53**	**—**	**0.92**	**R 2.52**	**1.58**	**12.80**	**3.95**
1976	—	—	—	—	2.49	2.32	4.43	5.65	1.56	R 2.46	2.70	—	0.98	R 2.69	1.56	13.26	4.27
1977	—	—	—	—	2.86	2.62	5.45	5.88	1.85	R 2.70	2.98	—	1.04	2.98	1.87	14.62	4.61
1978	—	—	—	—	3.07	2.86	5.93	6.22	2.09	R 2.82	3.24	—	—	3.24	2.16	16.45	5.06
1979	—	—	—	—	4.38	3.79	6.88	7.79	2.62	R 3.75	4.23	—	—	4.23	2.69	17.79	R 6.12
1980	**—**	**—**	**—**	**13.06**	**6.58**	**6.21**	**6.32**	**10.81**	**3.80**	**R 5.45**	**R 6.16**	**—**	**—**	**6.25**	**3.97**	**22.01**	**8.71**
1981	—	—	—	15.76	8.13	7.56	6.23	12.47	6.24	R 7.22	R 7.98	—	1.24	R 8.07	6.64	33.69	R 11.89
1982	—	2.07	2.07	15.02	8.60	7.37	6.43	12.28	6.02	R 6.23	R 7.87	—	1.28	R 7.93	6.33	35.55	R 12.38
1983	—	2.11	2.11	15.10	7.82	6.90	7.35	11.72	5.48	R 5.76	R 7.33	—	1.12	R 7.40	5.59	31.60	R 11.51
1984	—	2.16	2.16	16.91	7.52	6.55	11.59	11.60	5.38	R 6.00	R 7.12	—	1.28	R 7.20	5.46	31.34	R 11.06
1985	**—**	**2.15**	**2.15**	**14.20**	**7.86**	**6.21**	**R 13.88**	**11.14**	**4.81**	**R 5.67**	**R 6.76**	**—**	**0.79**	**R 6.82**	**4.94**	**29.81**	**R 10.23**
1986	—	2.09	2.09	11.96	6.29	4.36	R 13.08	9.63	2.83	R 5.58	R 5.02	—	—	R 5.10	2.98	23.66	R 8.43
1987	—	1.95	1.95	11.89	6.05	4.30	R 12.85	9.47	3.41	R 4.88	R 5.18	—	—	R 5.24	3.54	24.49	R 8.57
1988	—	1.81	1.81	11.52	6.13	4.04	R 12.69	9.55	2.80	R 4.81	R 4.81	—	—	R 4.87	2.95	22.53	R 7.78
1989	—	1.76	1.76	11.41	6.79	4.59	R 15.02	10.42	3.20	R 5.07	R 5.35	—	(d)	R 5.40	3.32	23.76	R 8.55
1990	**—**	**1.82**	**1.82**	**12.24**	**7.97**	**5.99**	**R 15.66**	**11.71**	**4.01**	**R 5.32**	**R 6.47**	**—**	**e R 1.07**	**e R 6.48**	**4.33**	**R 26.56**	**e R 9.90**
1991	—	1.80	1.80	14.16	7.87	5.17	R 15.53	10.40	3.21	R 5.31	R 5.91	—	R 1.21	R 5.95	3.44	27.14	R 9.82
1992	—	1.70	1.70	13.33	7.24	4.90	R 14.81	10.95	2.82	R 4.96	R 5.61	—	R 1.07	R 5.65	3.26	R 27.79	R 9.65
1993	—	1.74	1.74	13.05	7.36	4.79	R 10.86	11.09	2.99	R 4.68	R 5.96	—	R 1.04	R 5.99	3.49	R 31.37	R 10.99
1994	—	2.00	2.00	12.68	R 7.14	4.31	R 11.56	11.27	2.68	R 4.96	R 5.79	—	R 0.95	5.81	R 3.03	R 31.44	10.70
1995	**—**	**1.92**	**1.92**	**13.30**	**7.11**	**4.44**	**11.40**	**11.40**	**2.98**	**5.07**	**5.97**	**—**	**0.99**	**5.95**	**3.28**	**33.24**	**11.19**
	Expenditures in Million Nominal Dollars																
1970	**—**	**—**	**—**	**—**	**9.9**	**58.4**	**8.5**	**99.2**	**24.7**	**R 6.4**	**207.0**	**—**	**0.2**	**207.2**	**-17.4**	**87.4**	**277.2**
1971	—	—	—	—	11.0	70.1	10.2	104.4	32.9	R 6.8	R 235.4	—	0.1	235.5	-23.1	101.4	R 313.9
1972	—	—	—	—	10.8	69.7	9.7	109.1	38.8	R 7.2	245.3	—	0.1	R 245.5	-29.5	113.1	329.0
1973	—	—	—	—	13.2	84.2	15.1	125.3	48.1	R 7.2	R 293.1	—	0.2	R 293.3	-37.1	131.7	R 387.9
1974	—	—	—	—	22.8	130.9	16.7	164.1	65.6	R 10.5	R 410.6	—	0.3	R 410.9	-50.8	159.7	R 519.8
1975	**—**	**—**	**—**	**—**	**25.6**	**170.3**	**10.3**	**193.5**	**108.5**	**R 14.1**	**R 522.3**	**—**	**0.2**	**R 522.6**	**-92.4**	**225.3**	**R 655.5**
1976	—	—	—	—	33.6	185.6	15.5	208.7	111.5	R 15.9	R 570.7	—	0.3	R 571.0	-96.9	243.4	R 717.5
1977	—	—	—	—	47.2	218.9	16.6	228.9	142.4	R 16.8	R 670.7	—	0.3	R 671.0	-121.5	277.4	R 826.9
1978	—	—	—	—	63.5	239.1	14.9	249.4	160.2	R 17.2	R 744.3	—	—	R 744.3	-143.4	323.6	R 924.4
1979	—	—	—	—	166.2	325.4	37.1	307.2	194.8	R 19.5	R 1,050.1	—	—	R 1,050.1	-181.5	363.7	R 1,232.4
1980	**—**	**—**	**—**	**39.4**	**228.7**	**492.4**	**31.1**	**410.7**	**308.6**	**R 28.7**	**R 1,500.1**	**—**	**—**	**R 1,539.5**	**-275.8**	**456.9**	**R 1,720.5**
1981	—	—	—	43.8	285.0	424.4	26.1	470.9	505.3	R 29.5	R 1,741.1	—	0.2	R 1,785.1	-463.5	739.2	R 2,060.8
1982	—	2.4	2.4	41.6	227.3	307.0	41.4	468.6	490.0	R 24.0	R 1,558.4	—	0.4	R 1,602.8	-421.7	762.1	R 1,943.2
1983	—	2.2	2.2	41.2	105.8	430.8	44.7	445.6	413.6	R 27.3	R 1,467.9	—	0.3	R 1,511.7	-382.4	686.1	R 1,815.4
1984	—	2.0	2.0	41.2	118.0	475.6	5.0	458.8	428.6	R 26.7	R 1,512.7	—	0.4	R 1,556.4	-382.4	682.6	R 1,856.5
1985	**—**	**2.4**	**2.4**	**38.1**	**211.1**	**462.1**	**R 6.6**	**444.3**	**395.4**	**R 30.2**	**R 1,549.6**	**—**	**0.2**	**R 1,590.4**	**-342.5**	**654.7**	**R 1,902.6**
1986	—	0.8	0.8	32.0	167.1	248.5	R 5.9	398.5	250.6	R 30.7	R 1,101.3	—	—	R 1,134.1	-215.9	538.6	R 1,456.7
1987	—	3.1	3.1	33.1	142.5	277.1	R 7.3	406.1	287.8	R 31.5	R 1,152.2	—	—	R 1,188.4	-269.6	570.6	R 1,489.5
1988	—	2.2	2.2	32.4	210.8	271.7	R 8.1	425.8	293.7	R 30.9	R 1,241.0	—	—	R 1,275.7	-240.5	565.5	R 1,600.7
1989	—	1.4	1.4	33.2	224.6	341.8	R 10.1	478.8	339.8	R 29.8	R 1,424.8	—	(d)	R 1,459.4	-282.8	629.6	R 1,806.1
1990	**—**	**1.3**	**1.3**	**36.5**	**316.5**	**425.3**	**R 9.9**	**530.3**	**425.7**	**R 32.7**	**R 1,740.3**	**—**	**e R 2.1**	**e R 1,780.2**	**-371.8**	**R 732.9**	**e R 2,141.2**
1991	—	1.7	1.7	41.2	331.8	323.4	R 10.9	490.0	299.3	R 32.3	R 1,487.7	—	R 2.1	R 1,532.6	-271.5	768.9	R 2,030.0
1992	—	2.0	2.0	38.5	235.4	276.6	R 31.8	510.1	281.2	R 31.9	R 1,367.1	—	R 1.9	R 1,409.5	-242.9	R 802.4	R 1,969.0
1993	—	3.1	3.1	37.2	207.0	241.2	R 19.6	527.5	225.7	R 30.4	R 1,251.4	—	R 1.7	R 1,293.4	-230.3	R 903.5	R 1,966.5
1994	—	3.7	3.7	37.0	R 210.6	231.5	R 41.4	553.5	R 210.8	R 31.4	R 1,279.1	—	R 1.7	R 1,321.5	R -195.1	R 937.3	R 2,063.6
1995	**—**	**5.0**	**5.0**	**38.7**	**207.6**	**250.5**	**35.8**	**563.9**	**227.0**	**33.3**	**1,318.2**	**—**	**2.8**	**1,364.6**	**-217.7**	**1,017.7**	**2,164.7**

[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] There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
[d] Utilities used biomass fuels at no charge or received a fee for accepting them.
[e] 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 78. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Hawaii

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	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	8.65	7.40
1972	—	—	1.35	—	4.71	4.70	—	4.70	8.76	7.71
1973	—	—	1.57	—	7.38	7.36	—	7.36	9.59	9.02
1974	—	—	2.49	—	7.72	7.71	—	7.71	11.09	10.28
1975	**—**	**—**	**2.80**	**—**	**6.20**	**6.19**	**—**	**6.19**	**14.59**	**13.13**
1976	—	—	3.11	—	6.48	6.48	—	6.48	15.05	12.99
1977	—	—	3.21	—	7.14	7.13	—	7.13	16.40	14.12
1978	—	—	3.27	—	7.27	7.26	—	7.26	18.31	15.75
1979	—	—	4.48	—	9.59	9.57	—	9.57	19.78	16.69
1980	**—**	**13.50**	**6.92**	**—**	**11.63**	**11.61**	**—**	**12.48**	**23.64**	**20.08**
1981	—	16.24	7.90	—	12.35	12.33	—	14.10	35.57	29.28
1982	—	15.88	—	—	13.28	13.28	—	14.48	38.60	31.60
1983	—	16.10	7.98	—	13.83	13.81	—	14.75	34.88	28.73
1984	—	16.91	7.61	—	13.63	13.55	—	16.12	34.57	31.18
1985	**—**	**16.74**	**7.57**	**—**	**15.04**	**15.01**	**—**	**16.13**	**33.29**	**30.90**
1986	—	14.82	5.86	—	14.16	14.06	—	14.55	27.17	25.56
1987	—	14.89	5.83	—	14.02	13.93	—	14.49	27.63	25.90
1988	—	14.55	5.77	—	13.84	13.67	—	14.16	25.89	24.35
1989	—	14.50	6.49	—	17.07	17.02	—	15.65	27.19	25.71
1990	**—**	**15.37**	**7.69**	**—**	**17.94**	**17.90**	R —	d R **16.47**	R **30.07**	d R **26.19**
1991	—	21.23	7.48	14.47	18.36	18.31	R —	R 19.93	30.83	R 27.10
1992	—	16.80	6.91	13.35	17.06	17.05	R —	R 16.98	R 31.95	R 26.66
1993	—	16.49	7.26	14.03	R 16.87	R 16.64	R —	R 16.54	R 35.99	R 30.96
1994	—	16.01	6.82	13.18	R 21.85	R 21.55	R —	R 17.97	R 36.49	R 31.44
1995	**—**	**16.75**	**6.79**	**13.13**	**24.02**	**23.60**	**—**	**19.13**	**39.05**	**33.56**
	Expenditures in Million Nominal Dollars									
1970	**—**	**—**	**(s)**	**—**	**7.0**	**7.0**	**—**	**7.0**	**36.0**	**43.0**
1971	—	—	(s)	—	8.8	8.8	—	8.8	41.0	49.9
1972	—	—	(s)	—	8.5	8.5	—	8.5	45.2	53.7
1973	—	—	(s)	—	13.7	13.7	—	13.7	52.3	66.0
1974	—	—	(s)	—	13.8	13.8	—	13.8	62.6	76.5
1975	**—**	**—**	**(s)**	**—**	**7.4**	**7.4**	**—**	**7.4**	**82.8**	**90.1**
1976	—	—	(s)	—	12.1	12.1	—	12.1	89.2	101.3
1977	—	—	(s)	—	13.9	13.9	—	13.9	98.5	112.3
1978	—	—	(s)	—	13.3	13.3	—	13.3	111.2	124.5
1979	—	—	0.1	—	26.2	26.2	—	26.2	124.6	150.8
1980	**—**	**18.4**	**(s)**	**—**	**18.4**	**18.4**	**—**	**36.8**	**148.5**	**185.3**
1981	—	20.1	(s)	—	18.3	18.3	—	38.4	233.5	271.9
1982	—	18.8	—	—	18.4	18.4	—	37.2	242.6	279.7
1983	—	18.5	(s)	—	22.6	22.6	—	41.1	220.7	261.8
1984	—	18.2	(s)	—	4.5	4.5	—	22.7	216.7	239.4
1985	**—**	**11.3**	**(s)**	**—**	**5.5**	**5.5**	**—**	**16.8**	**213.4**	**230.2**
1986	—	9.3	(s)	—	4.9	4.9	—	14.3	181.9	196.1
1987	—	9.4	(s)	—	6.1	6.2	—	15.6	195.4	211.0
1988	—	8.8	0.1	—	6.8	6.8	—	15.7	190.0	205.7
1989	—	8.8	(s)	—	8.8	8.8	—	17.6	208.0	225.6
1990	**—**	**9.3**	**(s)**	**—**	**8.3**	**8.3**	R —	d R **17.6**	R **238.4**	d R **256.0**
1991	—	12.5	(s)	(s)	8.7	8.7	R —	R 21.2	252.0	R 273.2
1992	—	9.9	(s)	(s)	25.5	25.5	R —	R 35.5	R 265.8	R 301.3
1993	—	9.8	0.1	(s)	5.3	R 5.4	R —	R 15.2	R 303.2	R 318.3
1994	—	9.7	(s)	(s)	R 7.1	R 7.2	R —	R 16.9	R 318.4	R 335.3
1995	**—**	**10.1**	**0.1**	**(s)**	**7.5**	**7.6**	**—**	**17.6**	**347.3**	**364.9**

[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.
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 79. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Hawaii

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**—**	**—**	**1.12**	**0.85**	**0.91**	**3.32**	**0.42**	**1.55**	**1.55**	**9.92**	**5.65**
1971	—	—	1.18	0.87	0.96	3.38	0.49	1.49	1.49	10.53	6.69
1972	—	—	1.18	0.88	0.97	3.35	0.55	1.54	1.54	10.64	7.19
1973	—	—	1.41	1.18	1.05	3.61	0.68	1.83	1.83	11.30	7.92
1974	—	—	2.37	2.50	1.89	4.78	0.89	2.66	2.66	12.88	9.81
1975	**—**	**—**	**2.60**	**2.50**	**1.91**	**5.44**	**1.59**	**3.37**	**3.37**	**16.50**	**12.66**
1976	—	—	2.90	2.42	2.08	5.65	1.55	3.21	3.21	17.18	12.53
1977	—	—	3.00	3.07	2.46	5.88	1.89	3.45	3.45	18.60	13.17
1978	—	—	3.04	3.12	2.34	6.22	2.12	3.61	3.61	20.57	14.79
1979	—	—	4.38	4.31	4.11	7.79	2.72	4.94	4.94	22.18	16.03
1980	**—**	**12.70**	**6.60**	**—**	**3.81**	**10.81**	**3.86**	**6.60**	**8.75**	**26.40**	**17.85**
1981	—	15.37	7.54	—	2.88	12.47	6.50	7.52	10.99	37.83	26.73
1982	—	14.37	7.49	—	4.56	12.28	6.18	7.41	10.95	39.53	28.26
1983	—	14.37	6.22	6.77	4.97	11.72	5.50	7.08	11.25	35.75	26.92
1984	—	16.92	5.96	7.14	4.93	11.60	5.27	7.00	12.51	35.75	28.54
1985	**—**	**13.34**	**5.89**	**7.02**	**[R] 10.02**	**11.14**	**4.60**	**[R] 7.02**	**[R] 10.93**	**34.41**	**[R] 25.69**
1986	—	11.08	3.49	4.36	[R] 9.42	9.63	2.81	[R] 4.37	[R] 7.95	27.29	19.93
1987	—	11.01	4.12	5.01	[R] 8.86	9.47	3.33	[R] 4.51	[R] 7.00	27.52	18.10
1988	—	10.69	3.79	4.62	[R] 8.92	9.55	2.71	3.13	4.10	25.60	10.37
1989	—	10.59	4.75	5.65	[R] 8.41	10.42	3.09	3.67	4.75	26.97	12.12
1990	**—**	**11.45**	**5.57**	**6.45**	**[R] 9.40**	**11.71**	**3.83**	**4.76**	**6.21**	**[R] 29.77**	**[R] 15.91**
1991	—	12.37	5.19	6.09	[R] 9.66	10.40	3.11	5.55	[R] 8.05	30.23	20.44
1992	—	12.43	4.91	6.10	[R] 9.63	10.95	2.84	[R] 3.76	[R] 5.42	[R] 30.81	[R] 15.75
1993	—	12.15	5.14	6.37	[R] 9.58	11.09	2.92	[R] 5.19	8.91	[R] 34.21	[R] 25.66
1994	—	11.80	4.72	[R] 5.93	[R] 10.50	11.27	2.66	3.57	6.43	[R] 34.19	[R] 22.29
1995	**—**	**12.40**	**5.01**	**6.09**	**10.63**	**11.40**	**2.93**	**4.94**	**8.95**	**35.65**	**27.33**
	Expenditures in Million Nominal Dollars										
1970	**—**	**—**	**1.1**	**0.4**	**0.3**	**2.3**	**0.1**	**4.2**	**4.2**	**26.1**	**30.3**
1971	—	—	1.0	0.2	0.3	1.4	0.1	3.1	3.1	29.4	32.5
1972	—	—	0.9	0.2	0.3	1.5	0.1	2.9	2.9	33.3	36.2
1973	—	—	1.1	0.2	0.3	1.8	0.1	3.5	3.5	39.2	42.8
1974	—	—	1.3	0.5	0.6	1.6	0.1	4.1	4.1	46.2	50.3
1975	**—**	**—**	**1.3**	**0.6**	**0.4**	**2.8**	**0.2**	**5.3**	**5.3**	**62.5**	**67.7**
1976	—	—	1.6	1.3	0.7	2.8	0.2	6.5	6.5	69.6	76.1
1977	—	—	2.1	2.1	0.8	3.0	0.4	8.4	8.4	81.1	89.5
1978	—	—	2.2	1.9	0.8	3.3	0.4	8.5	8.5	94.3	102.9
1979	—	—	6.7	0.1	2.0	4.1	0.3	13.2	13.2	106.9	120.1
1980	**—**	**21.0**	**15.3**	**—**	**1.1**	**3.1**	**0.6**	**20.0**	**41.0**	**131.7**	**172.7**
1981	—	23.7	7.8	—	0.8	3.9	2.2	14.7	38.4	187.3	225.7
1982	—	22.8	2.4	—	1.1	3.8	4.1	11.4	34.2	189.9	224.1
1983	—	22.8	3.6	(s)	1.4	3.0	0.3	8.4	31.2	175.7	206.9
1984	—	23.0	3.9	0.1	0.3	2.6	0.8	7.6	30.7	195.0	225.7
1985	**—**	**26.8**	**4.7**	**0.1**	**0.6**	**2.8**	**0.6**	**8.7**	**35.5**	**189.3**	**224.8**
1986	—	22.7	3.7	0.1	0.6	2.3	1.2	7.8	30.5	170.5	[R] 201.0
1987	—	23.7	11.6	0.1	0.7	2.2	1.1	15.6	39.4	182.4	221.7
1988	—	23.6	13.3	(s)	[R] 0.8	2.7	30.0	46.8	70.4	181.0	251.4
1989	—	24.4	13.7	(s)	[R] 0.8	2.8	28.6	[R] 45.9	70.2	198.0	268.2
1990	**—**	**27.2**	**16.5**	**(s)**	**[R] 0.8**	**3.6**	**20.1**	**41.0**	**68.2**	**[R] 228.8**	**[R] 297.0**
1991	—	28.7	18.5	(s)	0.8	2.7	0.4	[R] 22.4	[R] 51.1	[R] 243.0	294.0
1992	—	28.6	12.5	(s)	[R] 2.5	2.6	19.0	[R] 36.6	[R] 65.2	[R] 254.1	[R] 319.3
1993	—	27.4	8.4	(s)	0.5	0.6	0.6	10.2	[R] 37.6	[R] 282.4	[R] 320.0
1994	—	27.3	6.9	(s)	0.6	0.6	7.3	15.5	42.8	[R] 303.4	[R] 346.2
1995	**—**	**28.6**	**7.4**	**(s)**	**0.6**	**0.7**	**1.2**	**9.8**	**38.4**	**337.9**	**376.4**

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

Table 80. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Hawaii

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.74**	**0.85**	**0.91**	**5.08**	**3.32**	**0.42**	**0.51**	**0.60**	**—**	**0.60**	**4.59**	**1.55**
1971	—	—	—	—	0.81	0.76	0.87	0.96	5.27	3.38	0.68	0.61	0.81	—	0.81	4.90	1.97
1972	—	—	—	—	0.81	0.77	0.88	0.97	5.58	3.35	0.67	0.58	[R]0.81	—	[R]0.81	5.04	[R]1.99
1973	—	—	—	—	0.83	1.02	1.18	1.05	5.33	3.61	0.90	[R]0.60	[R]0.99	—	[R]0.99	5.59	[R]2.37
1974	—	—	—	—	1.67	2.17	2.50	1.89	7.22	4.78	1.70	[R]0.81	[R]1.86	—	[R]1.86	6.60	[R]3.42
1975	**—**	**—**	**—**	**—**	**1.77**	**2.22**	**2.50**	**1.91**	**7.48**	**5.44**	**1.92**	**[R]1.40**	**2.05**	**—**	**2.05**	**9.84**	**[R]4.78**
1976	—	—	—	—	1.57	2.08	2.42	2.08	7.05	5.65	1.99	[R]1.54	2.04	—	2.04	10.09	[R]5.04
1977	—	—	—	—	1.72	2.68	3.07	2.46	6.97	5.88	2.08	[R]1.81	2.29	—	2.29	11.37	[R]5.64
1978	—	—	—	—	1.89	2.67	3.12	2.34	7.60	6.22	2.20	[R]1.61	[R]2.39	—	[R]2.39	13.10	[R]6.54
1979	—	—	—	—	2.43	3.81	4.31	4.11	10.21	7.79	2.93	[R]1.82	[R]3.46	—	[R]3.46	14.18	[R]6.99
1980	**—**	**—**	**—**	**—**	**3.61**	**5.49**	**6.38**	**3.81**	**14.36**	**10.81**	**3.82**	**[R]2.45**	**[R]4.42**	**—**	**[R]4.42**	**18.63**	**[R]8.62**
1981	—	—	—	—	4.58	6.42	—	2.88	18.00	12.47	4.53	[R]2.91	[R]5.14	—	[R]5.14	30.55	[R]13.53
1982	—	2.07	2.07	—	3.97	8.62	—	4.56	17.25	12.28	5.17	[R]2.20	[R]5.93	—	[R]5.77	31.85	[R]12.87
1983	—	2.11	2.11	—	4.16	6.43	6.77	4.97	16.98	11.72	5.19	[R]1.77	[R]4.89	—	[R]4.66	27.67	[R]15.11
1984	—	2.16	2.16	—	4.31	6.25	7.14	4.93	17.63	11.60	5.27	[R]1.92	[R]5.10	—	[R]4.88	26.94	[R]14.52
1985	**—**	**2.15**	**2.15**	**—**	**4.47**	**6.14**	**7.02**	**[R]10.02**	**17.61**	**11.14**	**4.60**	**[R]2.05**	**[R]4.86**	**—**	**[R]4.68**	**25.08**	**[R]12.44**
1986	—	2.09	2.09	—	4.49	3.82	4.36	[R]9.42	15.59	9.63	2.81	1.53	[R]3.31	—	[R]3.28	18.96	[R]8.74
1987	—	1.95	1.95	—	4.24	4.39	5.01	[R]8.86	[R]13.58	9.47	3.33	1.50	[R]3.82	—	[R]3.66	20.08	[R]9.25
1988	—	1.81	1.81	—	3.95	4.04	4.62	[R]8.92	[R]14.62	9.55	2.71	1.45	[R]3.32	—	[R]3.22	18.20	[R]8.38
1989	—	1.76	1.76	—	3.18	4.94	5.65	[R]8.41	14.48	10.42	3.09	1.74	[R]3.80	—	[R]3.69	19.42	[R]10.69
1990	**—**	**1.82**	**1.82**	**—**	**3.15**	**5.64**	**6.45**	**[R]9.40**	**14.60**	**11.71**	**3.83**	**2.02**	**[R]4.45**	**[d]1.10**	**[d R]4.04**	**[R]22.19**	**[d R]10.84**
1991	—	1.80	1.80	—	3.29	5.32	6.09	[R]9.66	[R]16.80	10.40	3.11	[R]2.15	[R]4.03	1.21	[R]3.68	22.60	[R]10.92
1992	—	1.70	1.70	—	2.81	5.34	6.10	[R]9.63	[R]18.32	10.95	2.84	[R]1.98	[R]3.95	1.07	[R]3.53	[R]22.96	[R]11.37
1993	—	1.74	1.74	—	2.94	5.57	6.37	[R]9.58	[R]18.96	11.09	2.92	[R]1.58	[R]4.67	1.04	[R]4.06	[R]26.22	[R]12.93
1994	—	2.00	2.00	—	3.11	5.19	5.93	[R]10.54	[R]19.11	11.27	2.66	[R]1.83	[R]5.28	0.95	[R]4.58	[R]25.84	[R]12.67
1995	**—**	**1.92**	**1.92**	**—**	**3.20**	**5.33**	**6.09**	**9.99**	**19.40**	**11.40**	**2.93**	**1.99**	**5.16**	**0.99**	**4.24**	**27.17**	**12.48**
	Expenditures in Million Nominal Dollars																
1970	**—**	**—**	**—**	**—**	**1.4**	**2.8**	**0.3**	**1.2**	**0.1**	**0.9**	**3.5**	**[R]0.6**	**10.7**	**—**	**10.7**	**25.3**	**36.0**
1971	—	—	—	—	1.5	2.7	0.2	1.0	0.6	1.1	5.3	0.7	[R]13.1	—	[R]13.1	31.0	[R]44.1
1972	—	—	—	—	1.8	2.8	0.1	0.8	0.7	1.3	6.3	[R]0.7	[R]14.5	—	[R]14.5	34.7	[R]49.2
1973	—	—	—	—	1.8	4.0	0.1	1.0	0.7	1.2	7.0	[R]0.8	[R]16.6	—	[R]16.6	40.1	[R]56.7
1974	—	—	—	—	2.8	6.8	0.6	2.1	0.9	1.7	13.2	[R]1.0	[R]29.1	—	[R]29.1	50.8	[R]79.9
1975	**—**	**—**	**—**	**—**	**4.4**	**7.3**	**0.4**	**2.4**	**1.3**	**1.5**	**11.7**	**[R]1.9**	**[R]31.0**	**—**	**[R]31.0**	**80.1**	**[R]111.1**
1976	—	—	—	—	4.2	6.4	0.5	2.6	1.4	1.6	9.4	[R]2.6	[R]28.7	—	[R]28.7	84.6	[R]113.3
1977	—	—	—	—	3.8	9.6	0.8	1.7	0.8	1.6	12.2	[R]3.1	[R]33.6	—	[R]33.6	97.9	[R]131.5
1978	—	—	—	—	3.7	13.2	0.7	0.5	1.0	1.9	9.9	[R]3.2	[R]34.1	—	[R]34.1	118.1	[R]152.2
1979	—	—	—	—	4.3	34.5	0.8	8.8	1.4	2.0	10.6	[R]3.3	[R]65.7	—	[R]65.7	132.2	[R]197.9
1980	**—**	**—**	**—**	**—**	**6.8**	**43.0**	**0.3**	**11.3**	**1.7**	**2.8**	**29.4**	**[R]4.3**	**[R]99.6**	**—**	**[R]99.6**	**176.7**	**[R]276.3**
1981	—	—	—	—	5.7	51.3	—	6.5	2.1	3.4	35.8	[R]4.0	[R]108.7	—	[R]108.7	318.4	[R]427.1
1982	—	2.4	2.4	—	4.5	64.7	—	21.3	1.8	3.3	58.5	[R]3.4	[R]157.5	—	[R]159.9	329.7	[R]489.6
1983	—	2.2	2.2	—	7.2	12.3	(s)	19.8	1.9	2.4	9.9	[R]3.0	[R]56.4	—	[R]58.6	289.7	[R]348.3
1984	—	2.0	2.0	—	5.9	13.4	(s)	0.1	2.1	3.2	33.3	[R]3.4	[R]61.3	—	[R]63.3	270.9	[R]334.2
1985	**—**	**2.4**	**2.4**	**—**	**9.1**	**16.7**	**(s)**	**0.2**	**1.9**	**6.1**	**36.0**	**[R]4.0**	**[R]74.1**	**—**	**[R]76.6**	**252.0**	**[R]328.5**
1986	—	0.8	0.8	—	8.1	11.5	(s)	0.2	1.7	5.1	30.3	[R]2.7	[R]59.7	—	[R]60.5	186.3	[R]246.8
1987	—	3.1	3.1	—	11.2	19.4	(s)	0.3	[R]1.6	5.3	24.4	[R]3.0	[R]65.1	—	[R]68.2	192.9	[R]261.0
1988	—	2.2	2.2	—	9.2	17.7	(s)	0.3	1.7	5.5	25.9	[R]3.1	[R]63.4	—	[R]65.7	194.5	[R]260.1
1989	—	1.4	1.4	—	6.3	14.7	(s)	0.3	1.7	7.0	18.2	[R]3.3	[R]51.6	—	[R]53.0	223.6	[R]276.5
1990	**—**	**1.3**	**1.3**	**—**	**8.0**	**26.5**	**(s)**	**0.4**	**1.8**	**8.2**	**29.1**	**[R]3.3**	**[R]77.3**	**[d R]2.1**	**[d R]80.7**	**[R]265.7**	**[d R]346.4**
1991	—	1.7	1.7	—	8.4	21.3	(s)	0.9	1.8	8.2	23.9	[R]3.6	[R]68.2	[R]2.1	[R]71.9	274.0	[R]345.9
1992	—	2.0	2.0	—	8.0	18.6	(s)	[R]2.5	[R]2.0	8.7	16.8	[R]3.6	[R]60.3	1.9	[R]64.2	[R]282.5	[R]346.7
1993	—	3.1	3.1	—	8.7	14.4	(s)	[R]13.4	2.2	14.0	12.9	[R]3.1	[R]68.8	1.7	[R]73.6	[R]317.9	[R]391.5
1994	—	3.7	3.7	—	8.4	10.4	(s)	[R]33.1	2.3	14.5	13.1	[R]3.6	[R]85.5	1.7	[R]90.9	[R]315.5	[R]406.5
1995	**—**	**5.0**	**5.0**	**—**	**9.3**	**12.4**	**(s)**	**27.5**	**2.3**	**14.7**	**14.8**	**4.0**	**84.9**	**2.8**	**92.6**	**332.5**	**425.2**

[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 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.
(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 81. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Hawaii

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**—**	**—**	**2.17**	**1.37**	**0.73**	**0.91**	**5.08**	**3.32**	**0.37**	**1.34**	**1.34**	**—**	**1.34**
1971	—	—	2.21	1.46	0.77	0.96	5.27	3.38	0.43	1.35	1.35	—	1.35
1972	—	—	2.19	1.47	0.76	0.97	5.58	3.35	0.49	1.39	1.39	—	1.39
1973	—	—	2.36	1.60	0.91	1.05	5.33	3.61	0.60	1.58	1.58	—	1.58
1974	—	—	3.23	2.35	1.57	1.89	7.22	4.78	0.78	2.43	2.43	—	2.43
1975	**—**	**—**	**3.45**	**2.63**	**2.04**	**1.91**	**7.48**	**5.44**	**1.37**	**2.96**	**2.96**	**—**	**2.96**
1976	—	—	3.59	2.85	2.32	2.08	7.05	5.65	1.41	3.24	3.24	—	3.24
1977	—	—	3.97	3.13	2.62	2.46	6.97	5.88	1.70	3.49	3.49	—	3.49
1978	—	—	4.29	3.42	2.86	2.34	7.60	6.22	1.89	3.77	3.77	—	3.77
1979	—	—	5.73	4.79	3.79	4.11	10.21	7.79	2.40	4.88	4.88	—	4.88
1980	**—**	**—**	**9.02**	**7.39**	**6.21**	**3.81**	**14.36**	**10.81**	**3.27**	**7.40**	**7.40**	**—**	**7.40**
1981	—	—	10.84	8.66	7.56	2.88	18.00	12.47	5.68	9.16	9.16	—	9.16
1982	—	—	10.92	8.51	7.37	4.56	17.25	12.28	5.68	9.29	9.29	—	9.29
1983	—	—	10.44	8.75	6.90	4.97	16.98	11.72	5.19	8.47	8.47	—	8.47
1984	—	—	10.27	8.66	6.55	4.93	17.63	11.60	5.20	8.18	8.18	—	8.18
1985	**—**	**—**	**9.99**	**8.53**	**6.21**	**[R] 10.02**	**17.61**	**11.14**	**4.65**	**7.81**	**7.81**	**—**	**7.81**
1986	—	—	8.41	7.31	4.36	[R] 9.42	15.59	9.63	2.62	6.41	6.41	—	6.41
1987	—	—	7.55	8.21	4.30	[R] 8.86	[R] 13.58	9.47	3.18	6.36	6.36	—	6.36
1988	—	—	7.41	7.95	4.04	[R] 8.92	[R] 14.62	9.55	2.49	6.22	6.22	—	6.22
1989	—	—	8.28	8.73	4.59	[R] 8.41	14.48	10.42	2.81	6.70	6.70	—	6.70
1990	**—**	**—**	**9.32**	**9.69**	**5.99**	**[R] 9.40**	**14.60**	**11.71**	**3.51**	**7.93**	**7.93**	**—**	**7.93**
1991	—	—	8.71	10.11	5.17	[R] 9.66	[R] 16.80	10.40	2.85	7.38	7.38	—	7.38
1992	—	—	8.54	9.63	4.90	[R] 9.63	[R] 18.32	10.95	2.56	7.01	7.01	—	7.01
1993	—	—	8.24	10.21	4.79	[R] 9.58	[R] 18.96	11.09	2.72	7.39	7.39	—	7.39
1994	—	—	7.96	10.15	4.31	[R] 9.65	[R] 19.11	11.27	2.59	7.20	7.20	—	7.20
1995	**—**	**—**	**8.36**	**10.27**	**4.44**	**9.89**	**19.40**	**11.40**	**3.00**	**7.35**	**7.35**	**—**	**7.35**
	Expenditures in Million Nominal Dollars												
1970	**—**	**—**	**1.5**	**5.7**	**58.4**	**0.1**	**2.1**	**96.0**	**4.1**	**167.9**	**167.9**	**—**	**167.9**
1971	—	—	1.6	7.0	70.1	0.1	1.9	101.9	4.9	187.5	187.5	—	187.5
1972	—	—	1.6	6.2	69.7	0.1	2.2	106.3	3.9	190.0	190.0	—	190.0
1973	—	—	1.6	6.9	84.2	0.1	2.1	122.3	5.2	222.4	222.4	—	222.4
1974	—	—	2.0	12.7	130.9	0.2	2.7	160.9	3.8	313.1	313.1	—	313.1
1975	**—**	**—**	**2.0**	**12.7**	**170.3**	**0.2**	**3.4**	**189.2**	**8.7**	**386.6**	**386.6**	**—**	**386.6**
1976	—	—	2.3	20.7	185.6	0.2	3.5	204.4	10.1	426.8	426.8	—	426.8
1977	—	—	2.9	28.3	218.9	0.2	3.1	224.3	15.8	493.5	493.5	—	493.5
1978	—	—	3.0	35.8	239.1	0.3	3.7	244.2	18.8	544.9	544.9	—	544.9
1979	—	—	4.4	108.4	325.4	0.1	5.2	301.1	18.8	763.5	763.5	—	763.5
1980	**—**	**—**	**9.1**	**143.5**	**492.4**	**0.4**	**6.5**	**404.9**	**29.7**	**1,086.3**	**1,086.3**	**—**	**1,086.3**
1981	—	—	10.0	185.8	424.4	0.6	7.8	463.6	43.9	1,136.1	1,136.1	—	1,136.1
1982	—	—	7.5	128.4	307.0	0.7	6.8	461.5	37.8	949.8	949.8	—	949.8
1983	—	—	8.2	63.6	430.8	0.8	7.0	440.3	47.7	998.4	998.4	—	998.4
1984	—	—	7.5	70.1	475.6	0.1	7.8	453.0	43.2	1,057.3	1,057.3	—	1,057.3
1985	**—**	**—**	**7.8**	**161.7**	**462.1**	**0.2**	**7.2**	**435.4**	**44.6**	**1,119.0**	**1,119.0**	**—**	**1,119.0**
1986	—	—	11.8	129.4	248.5	0.2	6.3	391.0	25.7	812.9	812.9	—	812.9
1987	—	—	9.5	82.7	277.1	0.2	[R] 6.2	398.5	21.6	[R] 795.8	[R] 795.8	—	[R] 795.8
1988	—	—	10.5	151.3	271.7	0.3	6.4	417.6	25.6	883.5	883.5	—	883.5
1989	—	—	12.0	166.8	341.8	0.3	6.5	468.9	39.5	1,035.7	1,035.7	—	1,035.7
1990	**—**	**—**	**12.8**	**218.5**	**425.3**	**0.4**	**6.7**	**518.5**	**59.5**	**1,241.8**	**1,241.8**	**—**	**1,241.8**
1991	—	—	11.5	248.7	323.4	0.5	6.9	479.1	46.7	1,116.9	1,116.9	—	1,116.9
1992	—	—	10.5	145.7	276.6	1.2	[R] 7.7	498.8	61.0	[R] 1,001.7	[R] 1,001.7	—	[R] 1,001.7
1993	—	—	8.3	120.0	241.2	0.3	8.1	512.8	46.0	936.7	936.7	—	936.7
1994	—	—	8.4	139.7	231.5	0.5	8.6	538.4	48.6	975.7	975.7	—	975.7
1995	**—**	**—**	**9.2**	**129.9**	**250.5**	**0.3**	**8.6**	**548.6**	**51.3**	**998.3**	**998.3**	**—**	**998.3**

[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.
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 82. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Hawaii

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**—**	**—**	**0.40**	**0.43**	**—**	**0.40**	**—**	**0.65**	**0.41**
1971	—	—	0.48	0.53	—	0.48	—	0.69	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	—	—	0.88	1.01	—	0.89	—	0.84	0.89
1975	**—**	**—**	**1.57**	**1.71**	**—**	**1.58**	**—**	**0.92**	**1.58**
1976	—	—	1.55	1.88	—	1.56	—	0.98	1.56
1977	—	—	1.85	2.25	—	1.87	—	1.04	1.87
1978	—	—	2.11	2.72	—	2.16	—	—	2.16
1979	—	—	2.63	3.54	—	2.69	—	—	2.69
1980	**—**	**—**	**3.87**	**5.19**	**—**	**3.97**	**—**	**—**	**3.97**
1981	—	—	6.51	8.80	—	6.66	—	1.24	6.64
1982	—	—	6.20	9.03	—	6.35	—	1.28	6.33
1983	—	—	5.53	7.00	—	5.61	—	1.12	5.59
1984	—	—	5.41	6.39	—	5.48	—	1.28	5.46
1985	**—**	**—**	**4.86**	**6.40**	**—**	**4.95**	**—**	**0.79**	**4.94**
1986	—	—	2.86	4.69	—	2.98	—	—	2.98
1987	—	—	3.44	4.63	—	3.54	—	—	3.54
1988	—	—	2.87	3.82	—	2.95	—	—	2.95
1989	—	—	3.29	3.61	—	3.32	—	([b])	3.32
1990	**—**	**—**	**4.15**	**5.79**	**—**	**4.33**	**—**	**([b])**	**4.33**
1991	—	—	3.31	4.34	—	3.44	—	—	3.44
1992	—	—	2.92	5.15	—	3.26	—	—	3.26
1993	—	—	3.09	5.27	—	3.49	—	—	3.49
1994	—	—	2.71	[R] 4.37	—	[R] 3.03	—	—	[R] 3.03
1995	**—**	**—**	**2.98**	**4.55**	**—**	**3.28**	**—**	**—**	**3.28**
	Expenditures in Million Nominal Dollars								
1970	**—**	**—**	**17.0**	**0.2**	**—**	**17.2**	**—**	**0.2**	**17.4**
1971	—	—	22.6	0.3	—	22.9	—	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	**—**	**—**	**87.9**	**4.3**	**—**	**92.2**	**—**	**0.2**	**92.4**
1976	—	—	91.7	4.9	—	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	—	—	165.1	16.4	—	181.5	—	—	181.5
1980	**—**	**—**	**248.9**	**26.8**	**—**	**275.8**	**—**	**—**	**275.8**
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**	**342.5**
1986	—	—	193.4	22.5	—	215.9	—	—	215.9
1987	—	—	240.7	28.9	—	269.6	—	—	269.6
1988	—	—	212.2	28.3	—	240.5	—	—	240.5
1989	—	—	253.5	29.3	—	282.8	—	([b])	282.8
1990	**—**	**—**	**316.8**	**55.0**	**—**	**371.8**	**—**	**([b])**	**371.8**
1991	—	—	228.3	43.2	—	271.5	—	—	271.5
1992	—	—	184.3	58.6	—	242.9	—	—	242.9
1993	—	—	166.2	64.2	—	230.3	—	—	230.3
1994	—	—	141.7	[R] 53.5	—	[R] 195.1	—	—	[R] 195.1
1995	**—**	**—**	**159.7**	**57.9**	**—**	**217.7**	**—**	**—**	**217.7**

[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.
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 83. Energy Price and Expenditure Estimates by Source, 1970-1995, Idaho

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	**—**	**0.59**	**0.59**	**0.66**	**1.01**	**0.76**	**2.41**	**2.81**	**0.34**	**1.15**	**1.92**	**—**	**—**	**1.50**	**0.35**	**2.95**	**1.77**
1971	—	0.59	0.59	0.73	1.05	0.80	2.41	2.80	0.55	1.34	1.97	—	—	1.51	0.47	3.09	1.80
1972	—	0.60	0.60	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	0.81	1.33	0.94	4.52	3.20	0.73	1.46	2.36	—	—	1.79	1.07	3.26	2.06
1974	—	0.86	0.86	0.97	2.43	1.62	2.93	4.30	2.11	2.59	3.29	—	—	2.49	1.15	3.41	2.67
1975	**—**	**0.98**	**0.98**	**1.43**	**2.55**	**2.12**	**3.81**	**4.81**	**2.01**	**2.73**	**3.64**	**—**	**—**	**2.80**	**1.89**	**4.11**	**3.03**
1976	—	1.22	1.22	1.76	2.72	2.32	3.85	4.98	1.67	2.66	3.80	—	—	3.11	1.62	4.65	3.41
1977	—	1.27	1.27	2.15	2.88	2.71	4.66	5.24	2.10	2.74	4.02	—	—	3.42	1.95	5.23	3.78
1978	—	1.50	1.50	2.45	3.06	2.92	4.80	5.50	2.40	3.01	4.24	—	—	3.70	2.58	5.42	4.01
1979	—	1.83	1.83	2.75	4.57	4.08	4.82	7.26	2.63	4.12	5.68	—	—	4.69	2.81	6.12	4.97
1980	**—**	**1.78**	**1.78**	**3.87**	**6.54**	**6.59**	**6.39**	**9.79**	**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	11.29	4.93	7.86	9.74	—	—	7.61	4.58	7.91	7.69
1982	—	2.05	2.05	5.04	7.65	7.38	7.79	10.80	5.20	7.39	9.36	—	—	7.67	5.80	8.98	8.03
1983	—	2.11	2.11	5.51	7.67	7.42	8.49	9.46	5.13	6.85	8.60	—	—	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	8.56	—	—	7.33	6.13	10.09	8.08
1985	**—**	**1.70**	**1.70**	**5.07**	**7.68**	**6.68**	**[R] 9.67**	**9.31**	**3.67**	**7.47**	**8.52**	**—**	**—**	**[R] 7.25**	**5.60**	**10.66**	**8.17**
1986	—	2.01	2.01	4.22	5.56	4.40	[R] 8.12	7.07	2.38	6.94	[R] 6.44	—	—	5.68	4.25	10.94	7.09
1987	—	1.97	1.97	5.86	5.81	4.39	[R] 9.29	7.26	2.57	[R] 6.12	[R] 6.56	—	—	[R] 6.13	2.78	10.81	7.38
1988	—	1.78	1.78	4.49	5.76	4.24	[R] 9.26	7.61	1.93	6.68	[R] 6.77	—	—	5.92	4.07	10.84	7.25
1989	—	1.82	1.82	3.57	6.66	4.93	[R] 10.12	8.21	1.66	4.88	7.32	—	—	[R] 6.07	4.45	11.10	[R] 7.41
1990	**—**	**1.76**	**1.76**	**3.43**	**7.84**	**6.07**	**[R] 10.29**	**9.15**	**2.51**	**4.18**	**8.13**	**—**	**[d R] 1.67**	**[d R] 6.37**	**5.38**	**[R] 11.14**	**[d R] 7.58**
1991	—	1.87	1.87	3.62	7.08	5.50	[R] 10.54	9.13	2.31	5.33	[R] 7.96	—	[R] 1.69	[R] 6.20	5.04	11.27	[R] 7.41
1992	—	1.89	1.89	3.62	7.21	5.44	[R] 10.28	9.52	1.78	[R] 4.61	8.14	—	1.69	6.36	4.83	[R] 11.33	7.62
1993	—	1.79	1.79	3.77	7.57	5.42	[R] 10.32	9.42	2.93	4.59	[R] 8.19	—	1.66	[R] 6.40	4.99	[R] 11.72	[R] 7.65
1994	—	1.87	1.87	4.25	7.34	5.01	[R] 8.82	9.63	2.24	4.40	[R] 8.09	—	[R] 1.66	6.51	4.47	11.74	[R] 7.78
1995	**—**	**1.76**	**1.76**	**4.20**	**7.61**	**5.15**	**8.76**	**9.18**	**2.31**	**4.62**	**7.94**	**—**	**1.65**	**6.38**	**4.82**	**11.98**	**7.66**
	Expenditures in Million Nominal Dollars																
1970	**—**	**4.7**	**4.7**	**29.5**	**32.9**	**3.9**	**9.6**	**142.8**	**0.6**	**12.4**	**202.2**	**—**	**—**	**236.4**	**(s)**	**105.8**	**342.2**
1971	—	7.2	7.2	34.8	34.9	4.3	10.6	147.2	1.0	13.2	211.3	—	—	253.3	(s)	115.7	369.0
1972	—	6.4	6.4	43.7	37.3	4.2	13.2	156.0	0.8	15.5	227.0	—	—	277.0	(s)	127.1	404.2
1973	—	6.1	6.1	44.1	50.2	4.8	20.2	185.6	1.1	16.1	278.0	—	—	328.2	(s)	133.3	461.4
1974	—	9.8	9.8	49.4	99.9	8.7	13.5	241.3	7.8	24.1	395.3	—	—	454.5	-0.1	150.3	604.7
1975	**—**	**13.1**	**13.1**	**84.6**	**112.3**	**11.0**	**16.7**	**285.0**	**8.6**	**22.5**	**456.2**	**—**	**—**	**553.9**	**-0.1**	**175.4**	**729.2**
1976	—	18.4	18.4	78.9	118.5	12.4	18.2	314.9	8.1	23.0	495.1	—	—	592.4	-0.2	210.0	802.2
1977	—	15.4	15.4	93.1	136.9	14.5	20.7	337.2	9.1	24.1	542.6	—	—	651.1	-1.4	241.0	890.7
1978	—	17.1	17.1	102.8	152.7	16.2	23.7	373.6	13.7	28.4	608.2	—	—	728.2	-0.2	239.7	967.7
1979	—	21.7	21.7	143.1	206.6	25.4	20.3	463.2	20.2	34.1	769.7	—	—	934.5	-1.5	292.1	1,225.2
1980	**—**	**17.1**	**17.1**	**182.6**	**215.6**	**44.9**	**23.3**	**570.0**	**17.1**	**42.5**	**913.5**	**—**	**—**	**1,113.1**	**-0.2**	**345.9**	**1,458.8**
1981	—	18.9	18.9	179.9	215.6	51.4	26.3	624.0	1.7	41.9	960.9	—	—	1,159.6	-0.1	447.4	1,607.0
1982	—	21.3	21.3	199.2	199.7	42.0	29.0	582.7	7.0	38.0	898.6	—	—	1,119.0	(s)	493.8	1,612.8
1983	—	19.9	19.9	187.1	234.0	38.7	32.7	516.3	3.3	40.0	865.0	—	—	1,072.0	-0.1	497.5	1,569.4
1984	—	19.2	19.2	188.9	264.8	41.1	20.3	516.5	1.7	37.4	881.6	—	—	1,089.8	-0.1	554.4	1,644.1
1985	**—**	**15.1**	**15.1**	**192.9**	**249.7**	**40.7**	**[R] 27.1**	**521.6**	**2.0**	**42.1**	**[R] 883.2**	**—**	**—**	**[R] 1,091.2**	**-0.2**	**596.4**	**[R] 1,687.4**
1986	—	17.3	17.3	138.4	191.3	26.8	[R] 21.7	404.5	0.3	35.2	[R] 679.8	—	—	[R] 835.5	(s)	589.5	[R] 1,424.9
1987	—	17.4	17.4	200.0	216.2	27.7	[R] 21.1	408.1	1.0	[R] 29.8	[R] 704.0	—	—	[R] 921.4	(s)	593.8	[R] 1,515.2
1988	—	17.3	17.3	167.7	218.4	27.3	[R] 25.3	448.7	0.7	27.1	[R] 747.4	—	—	[R] 932.5	(s)	635.1	[R] 1,567.5
1989	—	17.7	17.7	149.1	266.2	33.4	[R] 31.3	487.3	0.5	33.7	[R] 852.3	—	—	[R] 1,019.2	-0.1	675.0	[R] 1,694.2
1990	**—**	**17.7**	**17.7**	**142.4**	**327.6**	**38.1**	**[R] 22.7**	**547.2**	**0.7**	**41.3**	**[R] 977.7**	**—**	**[d R] 15.2**	**[d] 1,153.1**	**(s)**	**[R] 684.5**	**[d R] 1,837.5**
1991	—	22.9	22.9	173.8	351.0	28.9	[R] 31.0	556.4	0.6	42.1	[R] 1,010.1	—	[R] 17.1	[R] 1,223.9	(s)	[R] 693.8	[R] 1,917.7
1992	—	18.1	18.1	170.1	301.9	29.1	[R] 24.9	597.7	0.2	[R] 50.2	[R] 1,004.1	—	[R] 17.3	[R] 1,209.7	(s)	[R] 734.7	[R] 1,944.3
1993	—	17.5	17.5	205.2	341.6	32.1	[R] 25.4	631.5	0.7	53.6	[R] 1,084.8	—	[R] 17.4	[R] 1,325.0	(s)	[R] 748.6	[R] 2,073.5
1994	—	18.1	18.1	230.2	345.9	33.1	[R] 20.7	654.5	0.3	[R] 59.1	[R] 1,113.6	—	[R] 17.4	[R] 1,379.2	(s)	[R] 796.0	[R] 2,175.2
1995	**—**	**15.7**	**15.7**	**248.1**	**370.5**	**44.3**	**24.1**	**652.0**	**0.1**	**68.8**	**1,159.8**	**—**	**20.1**	**1,443.6**	**(s)**	**802.2**	**2,245.8**

[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 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.
(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 84. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Idaho

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**0.99**	**1.31**	**1.40**	**—**	**2.83**	**1.91**	**—**	**1.54**	**4.81**	**2.58**
1971	0.97	1.41	1.48	—	2.78	1.97	—	1.58	4.93	2.64
1972	1.06	1.42	1.49	—	2.93	2.09	—	1.65	4.94	2.68
1973	0.80	1.44	1.71	—	5.84	3.26	—	2.11	4.91	3.06
1974	1.39	1.73	2.63	—	3.13	2.81	—	2.15	5.03	3.21
1975	**1.78**	**2.07**	**2.82**	**—**	**4.17**	**3.25**	**—**	**2.45**	**5.27**	**3.43**
1976	1.92	2.12	3.03	—	4.31	3.46	—	2.58	5.79	3.81
1977	1.36	2.70	3.26	—	5.26	3.88	—	3.03	6.25	4.33
1978	2.50	3.23	3.14	—	5.38	3.81	—	3.45	6.51	4.83
1979	2.30	3.56	4.48	—	6.70	4.94	—	4.02	7.22	5.64
1980	**2.56**	**4.73**	**6.60**	**—**	**7.85**	**6.97**	**—**	**5.28**	**8.54**	**7.14**
1981	2.85	5.21	7.96	—	10.67	8.78	—	6.18	9.21	8.02
1982	3.11	6.46	7.96	—	9.28	8.52	—	6.82	9.88	8.77
1983	2.04	7.05	7.67	12.23	9.88	8.34	—	7.30	9.91	8.84
1984	2.05	6.60	7.39	12.16	9.22	7.79	—	6.78	11.96	9.91
1985	**1.97**	**6.57**	**7.29**	**12.00**	**9.55**	**7.84**	**—**	**6.91**	**12.60**	**10.30**
1986	1.91	5.89	5.59	9.20	9.70	6.51	—	6.04	13.14	10.28
1987	1.54	5.41	5.21	8.58	10.64	6.40	—	5.71	13.45	10.39
1988	1.26	5.38	5.21	8.58	10.38	6.51	—	5.61	13.88	10.44
1989	1.56	4.92	5.89	9.70	12.49	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] 5.88**	**[R] 14.28**	**[d] 10.31**
1991	1.49	5.02	7.20	11.86	12.24	8.45	4.75	5.97	[R] 14.32	[R] 10.13
1992	1.57	5.08	6.49	10.69	11.55	7.73	4.75	5.71	[R] 14.44	10.18
1993	1.29	5.18	6.53	10.75	11.50	7.76	4.75	5.74	14.64	10.12
1994	1.38	5.10	5.97	9.84	[R] 10.09	[R] 7.08	4.75	[R] 5.47	[R] 14.92	[R] 10.24
1995	**1.37**	**5.43**	**6.35**	**10.46**	**10.03**	**7.56**	**4.75**	**5.82**	**15.61**	**10.60**
	Expenditures in Million Nominal Dollars									
1970	**1.5**	**10.7**	**6.8**	**—**	**7.6**	**14.4**	**—**	**26.6**	**38.6**	**65.3**
1971	2.4	12.6	7.2	—	8.3	15.5	—	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	26.4	—	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**	**30.7**	**16.0**	**—**	**11.0**	**27.0**	**—**	**60.4**	**69.5**	**129.9**
1976	3.0	28.0	16.7	—	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	26.6	19.8	—	14.3	34.1	—	64.5	100.0	164.5
1979	2.4	32.6	23.4	—	9.1	32.5	—	67.5	124.3	191.8
1980	**2.3**	**36.8**	**18.7**	**—**	**9.1**	**27.8**	**—**	**66.8**	**143.8**	**210.6**
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	34.6	—	86.5	233.0	319.5
1985	**0.7**	**53.5**	**27.0**	**0.1**	**11.3**	**38.3**	**—**	**92.5**	**248.5**	**341.1**
1986	0.6	43.8	20.6	0.3	10.2	31.1	—	75.4	243.5	319.0
1987	0.3	38.5	17.4	0.3	9.8	27.5	—	66.4	239.0	305.3
1988	0.8	42.2	18.7	0.4	12.3	31.4	—	74.3	258.0	332.3
1989	1.0	44.4	19.1	0.1	18.4	37.6	—	83.0	275.0	358.0
1990	**0.7**	**43.3**	**22.7**	**0.4**	**13.5**	**36.6**	**[d] 4.1**	**[d] 84.7**	**[R] 274.1**	**[d] 358.8**
1991	0.8	53.1	29.5	0.1	16.5	46.1	4.3	104.3	[R] 291.6	[R] 395.9
1992	0.6	50.5	21.5	0.1	12.4	34.1	4.5	89.8	[R] 282.7	[R] 372.5
1993	0.4	67.6	23.5	0.1	13.6	37.2	4.3	109.5	[R] 311.9	[R] 421.4
1994	0.4	65.0	18.2	0.1	[R] 11.3	[R] 29.6	4.3	[R] 99.3	[R] 316.8	[R] 416.1
1995	**0.4**	**72.7**	**18.9**	**0.9**	**13.6**	**33.3**	**4.7**	**111.2**	**329.9**	**441.0**

[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.

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 85. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Idaho

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.50**	**0.96**	**1.21**	**0.82**	**1.55**	**2.81**	**—**	**1.35**	**0.95**	**4.10**	**2.12**
1971	0.50	0.95	1.28	0.84	1.62	2.80	—	1.41	0.92	4.27	1.98
1972	0.53	0.97	1.28	0.85	1.67	2.81	—	1.38	0.98	4.31	2.03
1973	0.53	1.01	1.51	1.14	1.72	3.20	—	1.60	1.05	4.27	2.17
1974	0.78	1.16	2.47	2.45	2.57	4.30	—	2.70	1.46	4.30	2.61
1975	**0.87**	**1.47**	**2.62**	**2.59**	**3.25**	**4.81**	**—**	**3.01**	**1.66**	**4.88**	**2.91**
1976	1.14	1.95	2.84	2.74	3.21	4.98	—	3.17	2.07	5.46	3.60
1977	1.26	2.28	3.06	2.77	3.83	5.24	—	3.42	2.33	6.02	4.09
1978	1.34	2.92	2.97	3.17	4.12	5.50	—	3.49	2.72	6.12	4.45
1979	1.79	3.30	4.35	4.41	3.92	7.26	—	4.86	3.40	6.64	5.20
1980	**1.70**	**4.36**	**6.41**	**—**	**5.72**	**9.79**	**4.63**	**5.65**	**4.53**	**8.33**	**6.49**
1981	1.86	4.67	7.63	—	7.01	11.29	5.43	8.77	5.12	8.72	7.48
1982	1.99	5.71	7.61	8.18	7.10	10.80	6.62	8.14	6.21	10.94	9.00
1983	2.11	5.95	6.62	7.72	7.66	9.46	5.24	7.18	5.91	11.30	9.05
1984	2.13	5.46	6.51	8.64	7.85	9.34	4.15	7.51	5.76	11.81	8.81
1985	**1.69**	**5.42**	**6.22**	**8.54**	**[R] 9.76**	**9.31**	**3.67**	**[R] 7.01**	**5.61**	**12.10**	**9.11**
1986	2.01	4.68	4.00	5.30	[R] 7.10	7.07	2.38	[R] 5.06	4.64	12.58	9.09
1987	1.98	4.44	4.51	6.11	[R] 8.38	7.26	2.57	[R] 5.26	4.61	12.25	9.02
1988	1.82	4.43	4.30	5.76	[R] 8.39	7.61	1.93	[R] 5.84	[R] 4.70	12.06	8.67
1989	1.84	4.09	5.08	6.98	[R] 7.96	8.21	1.66	[R] 6.48	[R] 4.62	12.58	8.87
1990	**1.77**	**4.07**	**5.69**	**8.35**	**[R] 8.71**	**9.15**	**2.51**	**[R] 6.64**	**[R] 4.53**	**[R] 12.52**	**[R] 9.18**
1991	1.88	4.28	5.19	7.49	[R] 9.12	9.13	2.31	[R] 6.95	4.91	12.54	8.97
1992	1.90	4.27	5.22	7.41	[R] 9.26	9.52	1.78	[R] 6.96	4.96	[R] 12.62	[R] 9.39
1993	1.80	4.48	5.29	7.87	[R] 9.23	9.42	2.93	[R] 5.76	4.59	[R] 13.04	[R] 9.29
1994	1.89	4.83	4.91	[R] 7.19	[R] 8.69	9.63	2.24	[R] 5.43	4.83	[R] 12.84	[R] 9.58
1995	**1.77**	**4.73**	**5.25**	**7.54**	**8.42**	**9.18**	**2.31**	**5.73**	**4.83**	**13.23**	**9.62**
	Expenditures in Million Nominal Dollars										
1970	**1.4**	**5.9**	**2.1**	**0.5**	**0.7**	**1.0**	**—**	**4.3**	**11.7**	**29.2**	**40.9**
1971	2.3	8.3	2.2	0.6	0.9	1.0	—	4.6	15.2	33.0	48.2
1972	1.5	11.0	2.2	0.9	1.0	1.0	—	5.1	17.6	35.6	53.3
1973	1.7	10.0	2.7	1.3	0.9	1.2	—	6.2	17.9	38.5	56.4
1974	2.2	9.7	4.4	1.8	1.3	1.8	—	9.5	21.4	43.0	64.4
1975	**2.4**	**18.8**	**5.2**	**1.2**	**1.5**	**2.3**	**—**	**10.2**	**31.5**	**58.8**	**90.3**
1976	3.3	18.0	5.5	1.7	1.6	2.4	—	11.2	32.5	70.1	102.6
1977	3.9	20.3	6.0	1.6	1.7	2.6	—	11.9	36.2	85.1	121.2
1978	3.9	16.9	6.6	1.7	1.9	2.8	—	13.0	33.8	78.9	112.7
1979	3.5	23.9	8.0	0.4	0.9	3.7	—	13.0	40.4	98.2	138.6
1980	**2.8**	**26.4**	**8.1**	**—**	**1.2**	**5.1**	**14.2**	**28.6**	**57.8**	**113.0**	**170.8**
1981	2.2	27.1	5.4	—	1.3	7.8	1.0	15.5	44.8	144.8	189.5
1982	2.0	35.1	20.8	0.4	1.5	7.4	0.7	30.8	67.9	173.1	241.0
1983	2.5	35.9	15.3	0.2	1.9	5.9	0.6	24.0	62.4	166.7	229.1
1984	2.6	48.5	15.4	0.2	1.3	13.0	0.3	30.1	81.2	169.4	250.6
1985	**1.2**	**51.2**	**13.3**	**0.2**	**2.0**	**6.6**	**0.6**	**[R] 22.6**	**[R] 75.0**	**189.6**	**264.5**
1986	1.1	40.9	6.6	(s)	1.3	5.0	(s)	[R] 13.1	55.0	190.4	245.4
1987	0.7	34.4	11.1	0.1	[R] 1.4	5.4	0.2	18.0	53.1	192.7	[R] 245.9
1988	2.0	37.3	10.8	(s)	[R] 1.8	15.1	0.1	[R] 27.8	[R] 67.1	202.0	[R] 269.1
1989	2.1	37.9	10.3	(s)	[R] 2.1	15.4	0.3	[R] 28.0	[R] 68.0	213.0	[R] 281.0
1990	**1.6**	**35.7**	**11.3**	**0.1**	**[R] 1.8**	**7.1**	**0.3**	**[R] 20.5**	**57.7**	**[R] 222.6**	**[R] 280.3**
1991	1.9	42.4	13.1	(s)	[R] 2.2	16.5	(s)	[R] 31.8	[R] 76.1	221.0	[R] 297.1
1992	1.4	39.3	12.6	(s)	[R] 1.8	15.6	0.2	[R] 30.2	[R] 70.9	[R] 246.3	[R] 317.2
1993	1.1	49.6	10.4	(s)	[R] 1.9	1.9	0.6	[R] 14.8	[R] 65.6	[R] 233.6	[R] 299.2
1994	1.1	50.5	12.6	0.1	[R] 1.7	1.9	0.1	[R] 16.4	[R] 68.1	[R] 263.4	[R] 331.5
1995	**1.0**	**50.5**	**13.9**	**0.1**	**2.0**	**1.8**	**0.1**	**17.9**	**69.4**	**252.0**	**321.4**

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

Table 86. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Idaho

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.50**	**0.50**	**0.42**	**0.60**	**0.77**	**0.82**	**1.55**	**5.08**	**2.81**	**0.34**	**4.14**	**0.96**	**—**	**0.69**	**1.84**	**0.96**
1971	—	0.50	0.50	0.46	0.82	0.79	0.84	1.62	5.27	2.80	0.55	—	1.09	—	0.77	1.87	1.03
1972	—	0.53	0.53	0.51	0.83	0.80	0.85	1.67	5.58	2.81	0.54	—	1.02	—	0.75	1.92	1.03
1973	—	0.53	0.53	0.56	0.87	1.06	1.14	1.72	5.33	3.20	0.73	—	1.35	—	0.93	2.01	1.17
1974	—	0.78	0.78	0.68	1.76	2.29	2.45	2.57	7.22	4.30	2.11	—	2.42	—	1.52	2.20	1.68
1975	**—**	**0.87**	**0.87**	**1.11**	**1.88**	**2.40**	**2.59**	**3.25**	**7.48**	**4.81**	**2.01**	**—**	**2.60**	**—**	**1.81**	**2.70**	**1.97**
1976	—	1.14	1.14	1.46	1.71	2.56	2.74	3.21	7.05	4.98	1.67	—	2.56	—	2.01	3.18	2.24
1977	—	1.26	1.26	1.78	1.80	2.61	2.77	3.83	6.97	5.24	2.10	—	2.73	—	2.28	3.63	2.55
1978	—	1.34	1.34	2.13	1.96	2.92	3.17	4.12	7.60	5.50	2.40	—	2.98	—	2.52	3.81	2.74
1979	—	1.79	1.79	2.42	2.49	4.29	4.41	3.92	10.21	7.26	2.50	—	4.11	—	3.05	4.43	3.29
1980	**—**	**1.70**	**1.70**	**3.58**	**3.64**	**6.02**	**—**	**5.72**	**14.36**	**9.79**	**3.76**	**—**	**6.02**	**—**	**4.30**	**5.44**	**4.53**
1981	—	1.86	1.86	3.73	4.34	7.39	7.78	7.01	18.00	11.29	4.37	—	7.34	—	4.74	6.29	5.16
1982	—	1.99	1.99	4.48	4.28	7.11	8.18	7.10	17.25	10.80	5.08	—	6.96	—	4.90	6.64	5.39
1983	—	2.11	2.11	4.89	4.19	6.91	7.72	7.66	16.98	9.46	5.11	—	6.67	—	5.21	7.23	5.82
1984	—	2.13	2.13	4.49	4.73	6.55	8.64	7.85	17.63	9.34	4.15	—	6.76	—	5.08	7.19	5.74
1985	**—**	**1.69**	**1.69**	**4.32**	**4.78**	**6.46**	**8.54**	**[R] 9.76**	**17.61**	**9.31**	**3.67**	**—**	**[R] 6.79**	**—**	**4.87**	**7.69**	**[R] 5.73**
1986	—	2.01	2.01	3.23	4.40	4.01	5.30	[R] 7.10	15.59	7.07	2.38	—	[R] 4.78	—	[R] 3.72	7.70	[R] 4.96
1987	—	1.98	1.98	6.59	3.43	4.63	6.11	[R] 8.38	[R] 13.58	7.26	2.57	—	[R] 4.99	—	[R] 5.11	7.56	5.85
1988	—	1.82	1.82	4.18	3.39	4.36	5.76	[R] 8.39	[R] 14.62	7.61	1.93	—	[R] 4.89	—	[R] 4.10	7.53	[R] 5.19
1989	—	1.84	1.84	2.84	2.79	5.28	6.98	[R] 7.96	14.48	8.21	1.66	—	[R] 5.21	—	[R] 3.75	7.67	[R] 4.93
1990	**—**	**1.77**	**1.77**	**2.65**	**2.64**	**6.32**	**8.35**	**[R] 8.71**	**14.60**	**9.15**	**2.51**	**—**	**[R] 5.49**	**[d R] 1.35**	**[d R] 3.51**	**[R] 7.68**	**[d R] 4.61**
1991	—	1.88	1.88	2.85	3.28	5.67	7.49	[R] 9.12	[R] 16.80	9.13	2.31	16.33	[R] 5.65	[R] 1.39	[R] 3.69	[R] 7.69	[R] 4.60
1992	—	1.90	1.90	2.88	2.93	5.61	7.41	[R] 9.26	[R] 18.32	9.52	1.78	24.75	5.27	[R] 1.37	[R] 3.48	[R] 7.98	4.65
1993	—	1.80	1.80	2.91	2.83	5.96	7.87	[R] 9.23	[R] 18.96	9.42	2.93	19.10	[R] 5.28	[R] 1.36	[R] 3.42	8.24	[R] 4.61
1994	—	1.89	1.89	3.71	2.75	5.44	7.19	[R] 7.38	[R] 19.11	9.63	2.24	24.75	[R] 4.89	1.37	[R] 3.67	[R] 8.27	[R] 4.81
1995	**—**	**1.77**	**1.77**	**3.56**	**3.15**	**5.71**	**7.54**	**7.31**	**19.40**	**9.18**	**2.31**	**23.89**	**5.10**	**1.37**	**3.68**	**8.23**	**4.76**
	Expenditures in Million Nominal Dollars																
1970	**—**	**1.8**	**1.8**	**12.8**	**4.5**	**14.3**	**0.5**	**1.2**	**1.0**	**9.2**	**0.6**	**0.4**	**31.8**	**—**	**46.5**	**37.9**	**84.4**
1971	—	2.6	2.6	13.8	5.6	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	16.2	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	18.9	6.4	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	—	115.6	49.9	165.4
1975	**—**	**8.0**	**8.0**	**35.0**	**11.0**	**55.0**	**0.9**	**3.9**	**2.0**	**20.2**	**8.6**	**—**	**101.7**	**—**	**144.7**	**47.1**	**191.8**
1976	—	12.1	12.1	32.7	9.8	59.9	1.3	4.5	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	18.2	9.1	—	109.3	—	156.2	61.0	217.2
1978	—	9.4	9.4	59.3	12.4	72.7	1.7	7.0	2.2	16.9	13.7	—	126.6	—	195.2	60.8	256.0
1979	—	15.8	15.8	85.1	13.8	76.3	2.7	9.8	3.1	17.3	5.1	—	128.0	—	228.9	69.6	298.6
1980	**—**	**12.0**	**12.0**	**119.2**	**19.2**	**77.5**	**—**	**12.6**	**3.8**	**32.9**	**3.0**	**—**	**149.0**	**—**	**280.3**	**89.1**	**369.3**
1981	—	14.9	14.9	115.3	15.5	94.6	0.7	12.6	4.6	24.0	0.7	—	152.6	—	282.9	140.9	423.8
1982	—	17.5	17.5	116.6	15.4	59.6	1.1	14.7	4.0	22.2	6.3	—	123.2	—	257.3	135.4	392.7
1983	—	16.1	16.1	103.1	18.4	84.8	0.1	14.6	4.1	14.8	2.7	—	139.6	—	258.8	154.6	413.4
1984	—	15.2	15.2	89.8	14.9	82.1	0.2	8.1	4.6	21.7	1.3	—	132.9	—	237.9	152.0	390.0
1985	**—**	**13.2**	**13.2**	**88.1**	**20.0**	**65.9**	**0.1**	**[R] 11.7**	**4.3**	**25.0**	**1.4**	**—**	**[R] 128.4**	**—**	**[R] 229.8**	**158.3**	**[R] 388.1**
1986	—	15.6	15.6	53.7	15.9	49.9	(s)	[R] 8.6	3.7	18.1	0.3	—	[R] 96.4	—	[R] 165.7	155.6	[R] 321.3
1987	—	16.5	16.5	127.0	11.4	64.5	(s)	[R] 8.9	[R] 3.6	16.5	0.9	—	[R] 105.8	—	[R] 249.3	162.1	[R] 411.4
1988	—	14.5	14.5	88.2	9.0	62.4	(s)	[R] 9.9	3.8	16.3	0.6	—	[R] 102.1	—	[R] 204.9	175.0	[R] 379.9
1989	—	14.7	14.7	66.9	15.4	82.3	(s)	[R] 9.6	3.8	18.7	0.2	—	[R] 130.0	—	[R] 211.6	187.0	[R] 398.6
1990	**—**	**15.4**	**15.4**	**63.4**	**22.4**	**100.4**	**0.1**	**[R] 5.9**	**4.0**	**16.8**	**0.4**	**—**	**[R] 150.1**	**[d R] 11.1**	**[d R] 240.1**	**[R] 187.8**	**[d R] 427.9**
1991	—	20.2	20.2	78.4	21.5	123.7	0.1	[R] 11.1	4.1	21.1	0.6	1.6	[R] 183.8	[R] 12.8	[R] 295.2	[R] 181.2	[R] 476.4
1992	—	16.1	16.1	80.3	28.5	80.3	(s)	[R] 9.5	[R] 4.6	19.4	0.1	2.6	[R] 145.1	[R] 12.8	254.3	[R] 205.7	[R] 459.9
1993	—	15.9	15.9	88.0	28.8	79.4	(s)	[R] 8.7	4.8	16.7	0.1	2.2	[R] 140.8	[R] 13.1	[R] 257.8	[R] 203.1	[R] 460.9
1994	—	16.5	16.5	114.7	32.9	80.0	0.1	[R] 6.3	5.1	19.2	0.2	2.9	[R] 146.4	[R] 13.1	[R] 290.7	[R] 215.8	[R] 506.6
1995	**—**	**14.4**	**14.4**	**124.9**	**42.0**	**87.2**	**0.1**	**7.7**	**5.0**	**19.3**	**(s)**	**2.8**	**164.2**	**15.3**	**318.7**	**220.3**	**539.0**

[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 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.
(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 87. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Idaho

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.50**	**—**	**2.17**	**1.31**	**0.76**	**1.55**	**5.08**	**2.81**	**0.39**	**2.47**	**2.47**	**—**	**2.47**
1971	0.50	—	2.21	1.36	0.80	1.62	5.27	2.80	—	2.46	2.46	—	2.46
1972	0.53	—	2.19	1.40	0.79	1.67	5.58	2.81	—	2.49	2.49	—	2.49
1973	0.53	—	2.36	1.62	0.94	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**	**2.68**	**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	7.05	4.98	—	4.47	4.47	—	4.47
1977	1.26	—	3.97	3.13	2.71	3.83	6.97	5.24	—	4.68	4.68	—	4.68
1978	—	—	4.29	3.24	2.92	4.12	7.60	5.50	—	4.92	4.92	—	4.92
1979	—	—	5.73	4.86	4.08	3.92	10.21	7.26	2.67	6.28	6.28	—	6.28
1980	**—**	**—**	**9.02**	**6.95**	**6.59**	**5.72**	**14.36**	**9.79**	**—**	**8.98**	**8.98**	**—**	**8.98**
1981	—	—	10.84	8.15	7.67	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	7.42	7.66	16.98	9.46	—	9.25	9.25	—	9.25
1984	—	—	10.27	8.85	6.95	7.85	17.63	9.34	—	9.13	9.13	—	9.13
1985	**—**	**—**	**9.99**	**8.70**	**6.68**	**[R] 9.76**	**17.61**	**9.31**	**—**	**[R] 9.06**	**[R] 9.06**	**—**	**[R] 9.06**
1986	—	—	8.41	6.86	4.40	[R] 7.10	15.59	7.07	—	[R] 6.91	[R] 6.91	—	[R] 6.91
1987	—	—	7.55	7.06	4.39	[R] 8.38	[R] 13.58	7.26	—	[R] 7.06	[R] 7.06	—	[R] 7.06
1988	—	—	7.41	7.23	4.24	[R] 8.39	[R] 14.62	7.61	—	7.33	7.33	—	7.33
1989	—	—	8.28	8.08	4.93	[R] 7.96	14.48	8.21	—	7.97	7.97	—	7.97
1990	**—**	**—**	**9.32**	**9.27**	**6.07**	**[R] 8.71**	**14.60**	**9.15**	**—**	**9.01**	**9.01**	**—**	**9.01**
1991	—	—	8.71	8.74	5.50	[R] 9.12	[R] 16.80	9.13	—	8.87	8.87	—	8.87
1992	—	—	8.54	8.59	5.44	[R] 9.26	[R] 18.32	9.52	—	[R] 9.12	[R] 9.12	—	[R] 9.12
1993	—	—	8.24	8.70	5.42	[R] 9.23	[R] 18.96	9.42	—	9.06	9.06	—	9.06
1994	—	2.21	7.96	8.77	5.01	[R] 7.93	[R] 19.11	9.63	—	9.17	9.17	—	9.17
1995	**—**	**3.26**	**8.36**	**9.02**	**5.15**	**7.75**	**19.40**	**9.18**	**—**	**8.89**	**8.89**	**—**	**8.89**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**1.7**	**9.7**	**3.9**	**0.1**	**3.7**	**132.6**	**(s)**	**151.6**	**151.6**	**—**	**151.6**
1971	(s)	—	1.6	10.8	4.3	0.1	3.9	134.1	—	154.8	154.8	—	154.8
1972	(s)	—	1.7	12.7	4.2	0.1	4.4	147.0	—	170.1	170.1	—	170.1
1973	(s)	—	1.9	17.4	4.8	0.1	4.6	168.6	—	197.4	197.4	—	197.4
1974	(s)	—	2.5	33.8	8.7	0.2	5.9	224.2	—	275.3	275.3	—	275.3
1975	**(s)**	**—**	**2.1**	**36.0**	**11.0**	**0.3**	**5.4**	**262.5**	**—**	**317.3**	**317.3**	**—**	**317.3**
1976	(s)	—	2.4	36.4	12.4	0.3	5.6	298.3	—	355.4	355.4	—	355.4
1977	(s)	—	2.7	49.7	14.5	0.4	5.8	316.5	—	389.5	389.5	—	389.5
1978	—	—	3.5	53.6	16.2	0.5	6.8	353.9	—	434.5	434.5	—	434.5
1979	—	—	4.5	98.9	25.4	0.4	9.6	442.3	15.1	596.2	596.2	—	596.2
1980	**—**	**—**	**7.4**	**111.3**	**44.9**	**0.5**	**12.0**	**532.0**	**—**	**708.1**	**708.1**	**—**	**708.1**
1981	—	—	6.6	96.0	51.4	1.1	14.5	592.2	—	761.8	761.8	—	761.8
1982	—	—	4.6	106.6	42.0	1.9	12.6	553.1	—	720.9	720.9	—	720.9
1983	—	—	3.9	107.6	38.7	2.0	13.0	495.6	—	660.8	660.8	—	660.8
1984	—	—	2.9	141.5	41.1	2.4	14.4	481.8	—	684.1	684.1	—	684.1
1985	**—**	**—**	**4.0**	**143.5**	**40.7**	**[R] 2.1**	**13.4**	**490.1**	**—**	**[R] 693.8**	**[R] 693.8**	**—**	**[R] 693.8**
1986	—	—	3.7	114.1	26.8	[R] 1.7	11.6	381.3	—	539.2	539.2	—	539.2
1987	—	—	2.9	123.1	27.7	[R] 1.1	[R] 11.4	386.3	—	[R] 552.6	[R] 552.6	—	[R] 552.6
1988	—	—	1.9	126.5	27.3	1.2	11.9	417.3	—	[R] 586.2	[R] 586.2	—	[R] 586.2
1989	—	—	2.3	154.3	33.4	[R] 1.2	12.1	453.2	—	[R] 656.6	[R] 656.6	—	[R] 656.6
1990	**—**	**—**	**1.9**	**193.1**	**38.1**	**1.5**	**12.5**	**523.3**	**—**	**[R] 770.4**	**[R] 770.4**	**—**	**[R] 770.4**
1991	—	—	1.7	184.7	28.9	[R] 1.3	12.9	518.8	—	748.3	748.3	—	748.3
1992	—	—	(s)	187.4	29.1	1.2	[R] 14.3	562.7	—	[R] 794.8	[R] 794.8	—	[R] 794.8
1993	—	—	2.6	228.2	32.1	1.1	15.1	612.9	—	892.0	892.0	—	892.0
1994	—	(s)	2.2	235.0	33.1	1.4	[R] 15.9	633.4	—	921.1	921.1	—	921.1
1995	**—**	**0.1**	**2.0**	**250.5**	**44.3**	**0.8**	**15.9**	**630.8**	**—**	**944.3**	**944.4**	**—**	**944.4**

[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.

(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 88. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Idaho

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	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**	**—**	**—**	**1.89**
1976	—	1.51	—	2.44	—	2.44	—	—	1.62
1977	—	1.94	—	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**	**—**	**6.39**	**—**	**6.39**	**—**	**—**	**3.87**
1981	—	4.21	—	7.33	—	7.33	—	—	4.58
1982	—	5.34	—	6.83	—	6.83	—	—	5.80
1983	—	6.26	—	6.21	—	6.21	—	—	6.25
1984	—	6.12	—	6.14	—	6.14	—	—	6.13
1985	**—**	**5.44**	**—**	**6.07**	**—**	**6.07**	**—**	**—**	**5.60**
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	**—**	**—**	**—**	**5.38**	**—**	**5.38**	**—**	**—**	**5.38**
1991	—	—	—	5.04	—	5.04	—	—	5.04
1992	—	—	—	4.83	—	4.83	—	—	4.83
1993	—	—	—	4.99	—	4.99	—	—	4.99
1994	—	—	—	4.47	—	4.47	—	—	4.47
1995	**—**	**—**	**—**	**4.82**	**—**	**4.82**	**—**	**—**	**4.82**
	Expenditures in Million Nominal Dollars								
1970	**—**	**—**	**—**	**(s)**	**—**	**(s)**	**—**	**—**	**(s)**
1971	—	—	—	(s)	—	(s)	—	—	(s)
1972	—	—	—	(s)	—	(s)	—	—	(s)
1973	—	—	—	(s)	—	(s)	—	—	(s)
1974	—	(s)	—	0.1	—	0.1	—	—	0.1
1975	**—**	**(s)**	**—**	**0.1**	**—**	**0.1**	**—**	**—**	**0.1**
1976	—	0.2	—	(s)	—	(s)	—	—	0.2
1977	—	1.4	—	(s)	—	(s)	—	—	1.4
1978	—	0.1	—	0.1	—	0.1	—	—	0.2
1979	—	1.4	—	(s)	—	(s)	—	—	1.5
1980	**—**	**0.2**	**—**	**(s)**	**—**	**(s)**	**—**	**—**	**0.2**
1981	—	0.1	—	(s)	—	(s)	—	—	0.1
1982	—	(s)	—	(s)	—	(s)	—	—	(s)
1983	—	0.1	—	(s)	—	(s)	—	—	0.1
1984	—	(s)	—	(s)	—	(s)	—	—	0.1
1985	**—**	**0.1**	**—**	**(s)**	**—**	**(s)**	**—**	**—**	**0.2**
1986	—	(s)	—	(s)	—	(s)	—	—	(s)
1987	—	(s)	—	(s)	—	(s)	—	—	(s)
1988	—	—	—	(s)	—	(s)	—	—	(s)
1989	—	—	—	0.1	—	0.1	—	—	0.1
1990	**—**	**—**	**—**	**(s)**	**—**	**(s)**	**—**	**—**	**(s)**
1991	—	—	—	(s)	—	(s)	—	—	(s)
1992	—	—	—	(s)	—	(s)	—	—	(s)
1993	—	—	—	(s)	—	(s)	—	—	(s)
1994	—	—	—	(s)	—	(s)	—	—	(s)
1995	**—**	**—**	**—**	**(s)**	**—**	**(s)**	**—**	**—**	**(s)**

[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 89. Energy Price and Expenditure Estimates by Source, 1970-1995, Illinois

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	**0.42**	**0.35**	**0.36**	**0.72**	**1.11**	**0.74**	**1.39**	**3.05**	**0.60**	**[R] 1.36**	**1.86**	**0.15**	**0.65**	**1.08**	**0.32**	**5.98**	**[R] 1.68**
1971	0.50	0.38	0.40	0.76	1.15	0.78	1.43	3.00	0.64	[R] 1.51	[R] 1.90	0.16	—	1.12	0.36	6.29	1.77
1972	0.56	0.43	0.44	0.85	1.18	0.82	1.46	2.91	0.68	[R] 1.55	1.85	0.15	—	1.14	0.39	6.64	1.84
1973	0.60	0.44	0.46	0.91	1.54	0.96	1.89	3.25	0.76	[R] 1.59	[R] 2.12	0.16	—	1.26	0.40	6.89	2.07
1974	1.23	0.60	0.66	1.05	2.47	1.62	2.62	4.48	1.61	[R] 2.49	[R] 3.14	0.17	—	1.75	0.55	8.07	[R] 2.74
1975	**1.49**	**0.82**	**0.89**	**1.38**	**2.58**	**2.09**	**2.68**	**4.73**	**1.68**	**[R] 2.76**	**[R] 3.38**	**0.18**	**—**	**2.00**	**0.69**	**9.35**	**[R] 3.14**
1976	1.44	0.91	0.96	1.65	2.77	2.36	2.95	4.93	2.04	[R] 2.83	[R] 3.60	0.19	—	2.17	0.77	10.02	[R] 3.39
1977	1.58	1.08	1.11	1.99	3.17	2.67	3.50	5.23	2.39	[R] 2.93	3.91	0.21	—	2.44	0.92	10.71	[R] 3.78
1978	1.85	1.30	1.34	2.30	3.31	2.87	3.46	5.32	2.46	[R] 3.14	4.02	0.25	—	2.62	1.10	12.07	4.15
1979	1.83	1.47	1.49	2.77	4.93	3.92	3.83	7.27	3.54	[R] 4.19	[R] 5.40	0.30	—	[R] 3.38	1.39	13.02	[R] 5.16
1980	**1.93**	**1.63**	**1.64**	**3.33**	**6.88**	**6.38**	**5.16**	**9.81**	**4.92**	**[R] 6.56**	**[R] 7.64**	**0.33**	**—**	**4.32**	**1.60**	**15.33**	**[R] 6.68**
1981	2.09	1.86	1.87	3.77	8.16	7.55	5.62	10.64	6.18	[R] 8.36	[R] 8.82	0.42	—	[R] 4.85	1.78	17.70	[R] 7.64
1982	2.23	1.98	1.99	4.43	7.97	7.23	5.79	10.32	6.00	[R] 7.89	[R] 8.71	0.51	—	[R] 4.99	1.81	20.07	[R] 8.17
1983	2.11	2.02	2.02	4.97	7.47	6.63	6.49	9.08	5.51	[R] 7.41	[R] 7.98	0.56	—	[R] 4.86	1.81	22.45	[R] 8.45
1984	2.09	1.96	1.97	4.84	7.72	6.42	6.27	8.82	5.64	[R] 7.75	[R] 8.06	0.56	—	[R] 4.66	1.63	21.10	[R] 8.11
1985	**2.08**	**2.12**	**2.12**	**5.00**	**7.64**	**6.00**	**[R] 9.14**	**9.03**	**5.22**	**[R] 7.35**	**[R] 8.41**	**0.64**	**—**	**[R] 4.83**	**1.67**	**21.07**	**[R] 8.42**
1986	2.05	2.06	2.06	4.59	5.73	4.22	[R] 7.61	6.78	4.10	[R] 6.06	[R] 6.44	0.64	—	[R] 4.03	1.61	22.37	[R] 7.69
1987	1.92	1.93	1.93	4.36	6.07	4.21	[R] 7.17	7.23	3.27	[R] 5.90	[R] 6.67	0.64	—	[R] 3.97	1.42	22.86	[R] 7.87
1988	2.02	1.82	1.84	4.10	6.00	3.84	[R] 7.27	7.27	2.63	[R] 5.62	[R] 6.66	0.66	—	[R] 3.76	1.23	21.49	[R] 7.50
1989	1.92	1.75	1.77	4.41	6.44	4.32	[R] 7.65	8.00	2.87	[R] 5.64	[R] 7.14	0.60	—	[R] 3.84	1.13	22.07	[R] 7.91
1990	**1.84**	**1.70**	**1.72**	**4.57**	**7.99**	**5.84**	**[R] 9.55**	**9.35**	**3.00**	**[R] 5.92**	**[R] 8.36**	**0.57**	**[d R] 3.06**	**[d R] 4.32**	**1.12**	**22.02**	**[d R] 8.58**
1991	1.99	1.67	1.70	4.40	7.40	4.75	[R] 8.55	9.13	2.71	[R] 5.72	[R] 7.89	0.49	[R] 3.06	[R] 4.00	1.06	22.41	[R] 8.43
1992	2.00	1.67	1.70	4.50	7.29	4.44	[R] 8.11	8.79	2.80	[R] 5.64	[R] 7.63	0.52	[R] 3.06	[R] 4.01	1.04	22.61	[R] 8.30
1993	1.95	1.65	1.67	4.97	7.40	4.12	[R] 8.89	8.57	2.69	[R] 5.74	[R] 7.63	0.52	[R] 2.77	4.07	1.07	22.76	[R] 8.54
1994	1.90	1.57	1.59	4.88	7.17	3.82	[R] 7.49	8.95	2.65	[R] 5.69	[R] 7.65	0.53	[R] 2.72	4.09	1.07	21.79	[R] 8.50
1995	**1.97**	**1.59**	**1.62**	**4.10**	**7.23**	**3.86**	**7.75**	**9.42**	**2.71**	**5.84**	**7.96**	**0.51**	**2.58**	**3.94**	**1.04**	**22.61**	**8.48**
	Expenditures in Million Nominal Dollars																
1970	**41.6**	**287.8**	**329.4**	**831.7**	**287.9**	**95.2**	**148.4**	**1,715.3**	**89.2**	**[R] 260.4**	**[R] 2,596.4**	**4.1**	**(s)**	**[R] 3,761.7**	**-254.5**	**1,417.5**	**[R] 4,924.6**
1971	46.2	288.9	335.1	930.1	330.4	106.2	152.6	1,708.8	70.5	[R] 270.4	[R] 2,638.9	7.5	—	[R] 3,911.6	-300.3	1,562.3	[R] 5,173.6
1972	48.2	325.6	373.8	1,021.8	369.9	129.8	178.1	1,740.5	96.0	[R] 298.6	[R] 2,813.0	20.6	—	[R] 4,229.2	-353.2	1,776.3	[R] 5,652.3
1973	49.9	354.5	404.4	1,041.4	469.8	157.4	238.2	2,031.2	105.0	[R] 336.8	[R] 3,338.4	34.7	—	[R] 4,818.9	-401.2	1,988.8	[R] 6,406.5
1974	105.7	475.0	580.7	1,199.0	750.8	231.4	336.4	2,726.0	223.7	[R] 479.0	[R] 4,747.3	38.2	—	[R] 6,565.2	-546.3	2,308.9	[R] 8,327.8
1975	**120.7**	**629.8**	**750.5**	**1,512.9**	**770.9**	**292.9**	**329.8**	**2,945.6**	**223.0**	**[R] 498.2**	**[R] 5,060.3**	**45.2**	**—**	**[R] 7,368.9**	**-689.6**	**2,644.9**	**[R] 9,324.1**
1976	104.7	720.7	825.5	1,944.0	920.1	340.9	414.9	3,180.0	233.2	[R] 507.6	[R] 5,596.7	56.5	—	[R] 8,422.7	-825.6	2,934.0	[R] 10,531.1
1977	101.4	857.1	958.5	2,325.2	1,044.3	410.3	481.5	3,429.5	308.8	[R] 559.6	[R] 6,234.1	65.6	—	[R] 9,583.3	-1,021.0	3,307.2	[R] 11,869.6
1978	114.4	1,011.9	1,126.3	2,701.5	1,132.5	441.7	460.3	3,650.2	362.4	[R] 640.8	[R] 6,687.9	88.8	—	[R] 10,604.6	-1,291.5	3,916.3	[R] 13,229.4
1979	103.1	1,159.8	1,262.9	3,122.5	1,388.4	540.5	704.3	4,546.5	573.7	[R] 815.0	[R] 8,568.4	88.4	—	[R] 13,042.2	-1,585.5	4,241.9	[R] 15,698.6
1980	**93.7**	**1,294.5**	**1,388.1**	**3,601.8**	**1,464.6**	**710.2**	**702.6**	**5,622.7**	**764.2**	**[R] 1,125.5**	**[R] 10,389.7**	**99.4**	**—**	**[R] 15,479.1**	**-1,794.2**	**4,948.6**	**[R] 18,633.4**
1981	97.1	1,392.2	1,489.3	3,970.1	1,639.0	723.0	689.9	5,999.4	727.1	[R] 1,209.8	[R] 10,988.2	135.3	—	[R] 16,582.9	-1,912.2	5,689.0	[R] 20,359.6
1982	105.5	1,447.5	1,553.0	4,355.7	1,511.7	680.5	550.2	5,703.9	510.5	[R] 983.2	[R] 9,940.1	157.4	—	[R] 16,006.2	-1,853.1	6,248.4	[R] 20,401.5
1983	114.9	1,600.0	1,714.9	4,720.4	1,512.2	598.1	625.7	5,103.4	393.5	[R] 996.1	[R] 9,228.9	171.2	—	[R] 15,835.4	-1,933.4	7,370.4	[R] 21,272.3
1984	140.2	1,503.2	1,643.4	5,059.4	1,635.6	96.4	576.3	4,867.9	276.2	[R] 1,103.1	[R] 8,555.4	213.8	—	[R] 15,472.0	-1,784.0	7,058.4	[R] 20,746.4
1985	**131.6**	**1,588.3**	**1,720.0**	**4,873.0**	**1,431.3**	**92.2**	**[R] 874.5**	**5,272.2**	**157.5**	**[R] 1,092.9**	**[R] 8,920.6**	**270.5**	**—**	**[R] 15,784.1**	**-1,856.1**	**7,063.0**	**[R] 20,991.0**
1986	122.9	1,531.1	1,654.0	4,234.0	1,171.4	48.4	[R] 880.3	3,869.4	181.9	[R] 911.4	[R] 7,062.7	294.6	—	[R] 13,245.2	-1,849.5	7,689.4	[R] 19,085.1
1987	129.3	1,378.8	1,508.1	3,771.4	1,205.7	46.8	[R] 1,073.6	4,186.1	126.4	[R] 898.9	[R] 7,537.5	347.5	—	[R] 13,164.6	-1,678.7	8,095.9	[R] 19,581.8
1988	141.7	1,228.7	1,370.3	3,933.5	1,175.6	85.3	[R] 1,176.0	4,436.3	82.2	[R] 842.3	[R] 7,797.8	488.7	—	[R] 13,590.3	-1,638.8	7,995.8	[R] 19,947.3
1989	131.2	1,130.1	1,261.3	4,376.3	1,297.3	109.3	[R] 336.8	4,852.9	60.6	[R] 926.9	[R] 7,583.7	484.5	—	[R] 13,705.7	-1,550.4	8,157.9	[R] 20,313.2
1990	**116.4**	**1,166.8**	**1,283.1**	**4,271.0**	**1,979.9**	**130.1**	**[R] 417.8**	**5,913.3**	**59.1**	**[R] 1,031.4**	**[R] 9,531.5**	**436.4**	**[d R] 42.9**	**[d R] 15,564.9**	**-1,548.3**	**[R] 8,307.0**	**[d R] 22,323.6**
1991	119.4	1,166.2	1,285.6	4,307.8	1,557.0	172.6	[R] 440.3	5,004.9	53.1	[R] 1,051.0	[R] 8,278.9	381.5	[R] 45.2	[R] 14,298.9	-1,486.4	[R] 8,856.9	[R] 21,669.4
1992	124.4	[R] 1,055.6	1,180.0	4,433.0	1,543.6	185.8	[R] 361.7	4,907.5	39.0	[R] 1,113.5	[R] 8,151.2	409.9	[R] 47.1	[R] 14,221.1	-1,410.0	[R] 8,597.7	[R] 21,408.8
1993	113.0	1,246.9	1,359.9	5,100.5	1,653.3	213.6	[R] 681.3	4,931.4	35.5	[R] 1,035.3	[R] 8,550.3	437.8	[R] 27.4	[R] 15,475.9	-1,637.6	[R] 9,065.3	[R] 22,903.5
1994	103.6	1,197.1	1,300.7	[R] 4,965.8	1,416.7	208.1	[R] 651.0	5,235.3	41.3	[R] 1,080.7	[R] 8,633.1	409.3	[R] 27.2	[R] 15,336.1	-1,593.0	[R] 8,953.5	[R] 22,696.5
1995	**120.5**	**1,204.6**	**1,325.0**	**4,396.7**	**1,579.3**	**226.7**	**708.4**	**5,502.1**	**21.9**	**1,084.3**	**9,122.7**	**422.4**	**30.7**	**15,297.6**	**-1,611.0**	**9,656.8**	**23,343.4**

[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.

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 90. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Illinois

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.03**	**1.02**	**1.21**	**1.65**	**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	1.66	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	10.43	2.81
1975	**2.11**	**1.57**	**2.57**	**3.18**	**3.72**	**2.95**	**—**	**1.83**	**11.41**	**3.06**
1976	2.21	1.85	2.81	3.35	4.18	3.22	—	2.12	12.18	3.34
1977	2.29	2.15	3.22	3.89	4.81	3.69	—	2.43	12.88	3.76
1978	2.38	2.46	3.35	4.08	4.50	3.68	—	2.69	14.38	4.21
1979	2.29	2.93	4.96	5.82	6.37	5.37	—	3.23	15.50	5.03
1980	**2.15**	**3.53**	**6.91**	**8.71**	**7.07**	**7.02**	**—**	**3.77**	**17.78**	**6.05**
1981	2.44	3.97	8.28	10.69	7.39	7.92	—	4.20	20.66	6.83
1982	2.77	4.63	8.00	10.63	7.78	8.06	—	4.84	23.06	7.80
1983	2.56	5.25	7.53	9.54	8.27	8.03	—	5.40	26.92	9.25
1984	2.47	5.16	7.58	9.32	7.70	7.76	—	5.27	25.67	8.62
1985	**2.34**	**5.34**	**7.38**	**9.07**	**7.82**	**7.76**	**—**	**5.47**	**26.42**	**9.05**
1986	2.05	4.96	5.47	6.72	6.55	6.00	—	5.01	27.74	9.15
1987	2.27	4.74	6.04	7.43	6.94	6.54	—	4.82	29.82	9.79
1988	2.08	4.52	5.87	7.22	6.77	6.35	—	4.60	28.54	9.12
1989	2.20	4.81	6.12	7.53	8.16	7.32	—	4.91	29.21	9.06
1990	**2.26**	**4.95**	**7.36**	**9.05**	**7.90**	**7.74**	**[d] 3.56**	**[d] 5.02**	**29.07**	**[d] 9.21**
1991	2.19	4.86	7.10	8.73	7.02	7.10	3.56	4.91	28.92	9.23
1992	2.16	5.00	6.71	8.25	7.61	7.35	3.56	5.04	30.17	9.11
1993	2.26	5.41	6.47	7.95	7.54	7.30	3.56	5.44	[R] 30.13	9.80
1994	2.27	5.39	6.01	7.38	[R] 8.45	[R] 7.81	3.56	[R] 5.44	[R] 29.26	[R] 9.84
1995	**2.30**	**4.57**	**6.01**	**7.39**	**8.45**	**7.82**	**3.56**	**4.67**	**30.40**	**9.51**
	Expenditures in Million Nominal Dollars									
1970	**18.2**	**459.4**	**84.1**	**12.5**	**65.7**	**162.2**	**—**	**639.8**	**612.9**	**1,252.7**
1971	21.4	496.0	91.7	11.6	64.8	168.0	—	685.4	678.9	1,364.2
1972	15.0	553.7	96.4	16.2	76.0	188.6	—	757.3	761.8	1,519.1
1973	8.9	540.5	119.6	19.7	119.6	258.9	—	808.2	853.0	1,661.2
1974	14.0	623.4	180.3	23.6	120.0	323.8	—	961.2	956.1	1,917.3
1975	**12.7**	**772.0**	**185.3**	**22.1**	**126.3**	**333.7**	**—**	**1,118.4**	**1,026.4**	**2,144.7**
1976	16.1	964.1	241.2	10.8	152.5	404.5	—	1,384.7	1,093.7	2,478.3
1977	14.2	1,150.7	268.2	10.2	165.0	443.5	—	1,608.4	1,237.7	2,846.1
1978	15.4	1,302.9	296.3	17.1	151.1	464.5	—	1,782.7	1,427.5	3,210.2
1979	5.9	1,489.7	241.6	13.8	120.7	376.1	—	1,871.8	1,549.1	3,420.8
1980	**3.1**	**1,728.1**	**141.3**	**7.9**	**105.2**	**254.4**	**—**	**1,985.7**	**1,815.6**	**3,801.3**
1981	4.9	1,890.9	126.3	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	2,249.8	4,684.3
1983	9.3	2,354.3	84.5	9.9	141.9	236.3	—	2,599.9	2,823.3	5,423.2
1984	8.7	2,574.9	91.9	17.3	91.6	200.7	—	2,784.3	2,665.4	5,449.7
1985	**4.9**	**2,480.4**	**97.1**	**29.2**	**99.1**	**225.4**	**—**	**2,710.7**	**2,702.2**	**5,412.9**
1986	4.3	2,214.8	70.0	7.7	72.2	149.8	—	2,368.9	2,930.9	5,299.9
1987	5.2	1,961.9	67.1	6.3	83.3	156.7	—	2,123.7	3,254.9	5,378.6
1988	4.4	2,126.8	72.6	8.9	75.4	156.9	—	2,288.0	3,309.0	5,597.1
1989	5.4	2,459.9	56.4	8.9	105.4	170.6	—	2,635.9	3,227.0	5,862.9
1990	**4.7**	**2,237.3**	**51.5**	**5.2**	**91.8**	**148.5**	**[d] 36.2**	**[d] 2,426.8**	**[R] 3,260.4**	**[d R] 5,687.1**
1991	4.5	2,311.5	50.8	5.8	96.3	152.8	38.2	2,507.0	[R] 3,549.1	[R] 6,056.0
1992	4.9	2,419.6	39.1	2.8	101.0	142.9	40.2	2,607.5	[R] 3,331.9	[R] 5,939.4
1993	4.7	2,734.1	27.9	3.6	105.5	137.1	20.4	2,896.2	[R] 3,621.7	[R] 6,517.9
1994	4.6	2,605.8	28.2	3.0	[R] 115.8	[R] 147.0	20.0	[R] 2,777.4	[R] 3,564.3	[R] 6,341.7
1995	**4.1**	**2,333.7**	**28.8**	**3.5**	**118.5**	**150.8**	**22.2**	**2,510.8**	**3,981.8**	**6,492.5**

[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 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 91. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Illinois

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.46**	**0.73**	**1.04**	**0.82**	**1.11**	**3.05**	**0.60**	**0.85**	**0.73**	**6.61**	**1.90**
1971	0.44	0.76	1.10	0.85	1.19	3.00	0.63	0.96	0.77	6.96	2.05
1972	0.53	0.82	1.10	0.85	1.19	2.91	0.65	0.96	0.83	7.40	2.22
1973	0.55	0.87	1.44	1.15	1.30	3.25	0.68	1.13	0.91	7.60	2.46
1974	0.85	0.99	2.38	2.34	2.28	4.48	1.25	1.88	1.18	8.95	2.97
1975	**1.19**	**1.28**	**2.39**	**2.51**	**2.29**	**4.73**	**1.36**	**2.01**	**1.43**	**10.38**	**3.62**
1976	1.28	1.60	2.60	2.66	2.52	4.93	2.01	2.49	1.76	11.15	3.94
1977	1.40	1.93	2.99	3.02	3.06	5.23	2.46	2.93	2.10	11.79	4.47
1978	1.59	2.23	3.09	3.21	3.11	5.32	2.48	3.00	2.35	13.21	5.06
1979	1.60	2.74	4.65	4.17	3.54	7.27	3.87	4.39	2.99	14.28	6.04
1980	**1.71**	**3.27**	**6.49**	**5.93**	**4.93**	**9.81**	**5.51**	**6.41**	**3.68**	**16.70**	**7.37**
1981	1.84	3.67	7.87	6.96	5.38	10.64	7.33	7.99	4.28	19.37	8.69
1982	1.92	4.34	7.53	7.57	5.44	10.32	7.06	7.76	4.73	21.71	9.85
1983	1.80	4.77	6.25	7.23	6.11	9.08	6.21	6.46	4.95	23.30	10.58
1984	1.73	4.67	6.38	7.32	6.06	8.82	4.85	6.34	4.83	22.51	9.94
1985	**1.71**	**4.84**	**6.10**	**6.78**	[R] **9.34**	**9.03**	**4.14**	[R] **6.48**	[R] **4.99**	**22.36**	**10.24**
1986	1.60	4.47	3.80	4.74	[R] 7.72	6.78	2.38	[R] 4.21	4.39	23.72	10.72
1987	1.44	4.33	4.34	5.16	[R] 7.20	7.23	2.93	[R] 4.66	4.30	22.95	10.99
1988	1.35	4.12	3.85	4.71	[R] 7.31	7.27	2.39	[R] 4.42	[R] 4.10	21.38	10.08
1989	1.37	4.45	4.37	4.88	[R] 7.44	8.00	2.43	[R] 5.27	4.44	22.24	[R] 11.06
1990	**1.39**	**4.54**	**5.37**	**6.31**	[R] **10.14**	**9.35**	**2.29**	[R] **6.51**	**4.62**	**22.18**	**11.17**
1991	1.41	4.47	4.99	6.04	[R] 9.10	9.13	2.63	[R] 6.23	4.54	22.68	11.65
1992	1.28	4.57	4.87	6.27	[R] 8.32	8.79	2.80	[R] 5.89	[R] 4.60	23.06	[R] 11.55
1993	1.28	4.99	4.60	6.02	[R] 9.19	8.57	2.86	[R] 5.50	[R] 4.97	22.93	[R] 11.93
1994	1.28	5.01	4.49	[R] 5.93	[R] 8.24	8.95	2.69	[R] 5.23	[R] 4.97	21.86	11.75
1995	**1.27**	**4.33**	**4.55**	**5.88**	**8.26**	**9.42**	**2.78**	**5.37**	**4.36**	**22.54**	**11.72**
	Expenditures in Million Nominal Dollars										
1970	**15.2**	**144.9**	**22.9**	**0.2**	**6.4**	**8.5**	**28.8**	**66.8**	**226.9**	**506.9**	**733.8**
1971	12.9	163.9	24.7	0.2	6.9	8.5	19.7	60.0	236.7	558.8	795.5
1972	10.6	189.2	25.9	0.3	7.7	8.3	21.7	63.9	263.7	624.8	888.5
1973	8.1	194.3	32.6	0.5	8.0	10.4	22.4	73.8	276.3	693.9	970.1
1974	13.0	219.5	52.4	0.7	13.4	14.1	42.8	123.4	356.0	811.8	1,167.8
1975	**13.4**	**283.2**	**54.4**	**0.7**	**13.7**	**16.8**	**42.4**	**128.0**	**424.6**	**994.7**	**1,419.3**
1976	17.3	404.5	70.3	0.3	16.2	18.5	51.6	156.9	578.7	1,114.5	1,693.1
1977	16.1	483.8	78.7	0.3	18.5	20.4	61.1	179.0	678.8	1,234.1	1,912.9
1978	19.1	571.3	86.2	0.5	18.4	22.0	62.0	189.2	779.6	1,455.0	2,234.6
1979	7.6	665.7	71.4	0.4	11.8	31.4	100.8	215.9	889.2	1,570.5	2,459.8
1980	**4.5**	**761.8**	**79.4**	**0.5**	**12.9**	**51.9**	**91.1**	**236.0**	**1,002.3**	**1,799.9**	**2,802.2**
1981	6.7	836.2	186.1	0.6	14.0	59.9	57.5	318.0	1,160.9	2,171.3	3,332.2
1982	9.6	971.1	137.3	0.3	13.9	58.4	45.8	255.7	1,236.4	2,448.8	3,685.2
1983	12.0	1,017.1	172.0	0.8	18.5	28.1	40.9	260.3	1,289.4	2,683.3	3,972.7
1984	11.3	1,128.2	189.6	0.6	12.7	20.9	21.3	245.1	1,384.6	2,621.7	4,006.3
1985	**6.7**	**1,073.9**	**141.3**	**3.7**	[R] **20.9**	**26.1**	**8.9**	[R] **200.8**	[R] **1,281.4**	**2,488.3**	[R] **3,769.6**
1986	6.2	934.7	43.9	2.6	[R] 15.0	20.5	13.3	[R] 95.4	[R] 1,036.4	2,723.6	[R] 3,759.9
1987	6.1	838.7	41.6	1.2	[R] 15.2	21.0	16.8	[R] 95.8	[R] 940.6	2,809.3	[R] 3,749.9
1988	5.3	901.9	43.8	1.6	[R] 14.4	20.9	8.7	[R] 89.3	[R] 996.5	2,755.0	[R] 3,751.6
1989	6.2	892.6	35.9	1.7	[R] 16.9	19.7	3.5	[R] 77.7	[R] 976.5	2,890.1	[R] 3,866.6
1990	**5.4**	**929.2**	**48.4**	**0.9**	[R] **20.8**	**27.4**	**3.0**	[R] **100.5**	[R] **1,035.1**	[R] **2,955.1**	[R] **3,990.3**
1991	5.3	883.9	49.2	1.4	[R] 22.0	19.1	0.6	[R] 92.3	[R] 981.6	[R] 3,159.6	[R] 4,141.1
1992	5.4	915.9	51.1	1.2	[R] 19.5	17.3	0.8	[R] 89.9	[R] 1,011.1	[R] 3,061.1	[R] 4,072.2
1993	4.9	1,036.1	53.5	1.1	[R] 22.7	5.9	1.0	[R] 84.2	[R] 1,125.2	[R] 3,285.0	[R] 4,410.2
1994	4.8	[R] 1,011.5	57.9	1.7	[R] 19.9	7.6	1.1	[R] 88.2	[R] 1,104.5	[R] 3,258.8	[R] 4,363.3
1995	**4.1**	**900.8**	**53.6**	**2.7**	**20.5**	**6.8**	**0.8**	**84.3**	**989.3**	**3,482.5**	**4,471.8**

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

Table 92. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Illinois

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.46**	**0.44**	**0.49**	**0.64**	**0.76**	**0.82**	**1.11**	**5.08**	**3.05**	**0.59**	R **1.22**	R **1.14**	**—**	**0.74**	**3.56**	R **0.94**
1971	0.50	0.44	0.46	0.55	0.81	0.78	0.85	1.19	5.27	3.00	0.71	R 1.26	R 1.30	—	0.81	3.76	1.04
1972	0.56	0.53	0.54	0.62	0.85	0.78	0.85	1.19	5.58	2.91	0.71	R 1.22	R 1.22	—	0.84	4.05	1.12
1973	0.60	0.55	0.57	0.67	0.85	1.06	1.15	1.30	5.33	3.25	0.90	R 1.30	R 1.37	—	0.94	4.22	1.24
1974	1.23	0.85	1.03	0.79	1.73	2.16	2.34	2.28	7.22	4.48	2.12	R 1.81	R 2.35	—	R 1.47	5.21	R 1.82
1975	**1.49**	**1.19**	**1.33**	**1.19**	**1.99**	**2.33**	**2.51**	**2.29**	**7.48**	**4.73**	**2.14**	R **2.27**	R **2.50**	**—**	R **1.77**	**6.43**	R **2.22**
1976	1.44	1.28	1.36	1.43	1.95	2.47	2.66	2.52	7.05	4.93	2.08	R 2.46	R 2.63	—	1.94	7.04	R 2.44
1977	1.58	1.40	1.48	1.80	1.98	2.78	3.02	3.06	6.97	5.23	2.28	R 2.72	R 2.89	—	2.23	7.72	R 2.80
1978	1.85	1.59	1.71	2.09	2.24	2.94	3.21	3.11	7.60	5.32	2.31	R 2.75	R 2.99	—	2.44	8.99	R 3.17
1979	1.83	1.60	1.70	2.56	2.57	3.85	4.17	3.54	10.21	7.27	2.94	R 3.88	R 3.74	—	R 3.02	9.68	R 3.75
1980	**1.93**	**1.71**	**1.79**	**3.10**	**3.83**	**5.37**	**5.93**	**4.93**	**14.36**	**9.81**	**3.78**	R **6.35**	R **5.51**	**—**	R **4.02**	**11.82**	R **4.91**
1981	2.09	1.84	1.94	3.54	4.59	6.37	6.96	5.38	18.00	10.64	4.58	R 7.81	R 6.52	—	R 4.59	13.49	R 5.69
1982	2.23	1.92	2.05	4.17	4.64	6.86	7.57	5.44	17.25	10.32	4.35	R 6.81	R 6.44	—	R 4.76	15.34	R 6.13
1983	2.11	1.80	1.94	4.64	4.47	6.73	7.23	6.11	16.98	9.08	4.46	R 6.27	R 6.42	—	R 4.86	17.20	R 6.55
1984	2.09	1.73	1.90	4.43	4.74	6.64	7.32	6.06	17.63	8.82	4.85	R 6.58	R 6.65	—	R 4.77	15.48	R 6.23
1985	**2.08**	**1.71**	**1.88**	**4.57**	**4.91**	**6.16**	**6.78**	R **9.34**	**17.61**	**9.03**	**4.14**	R **6.24**	R **7.35**	**—**	R **5.11**	**15.35**	R **6.62**
1986	2.05	1.60	1.78	4.06	4.57	4.30	4.74	R 7.72	15.59	6.78	2.38	R 4.69	R 5.92	—	R 4.40	16.46	R 6.14
1987	1.92	1.44	1.64	3.77	3.34	4.69	5.16	R 7.20	R 13.58	7.23	2.93	R 5.23	R 5.92	—	R 4.32	16.54	R 6.00
1988	2.02	1.35	1.63	3.36	3.51	4.27	4.71	R 7.31	R 14.62	7.27	2.39	R 4.41	R 5.84	—	4.09	15.14	R 5.61
1989	1.92	1.37	1.61	3.65	2.92	4.43	4.88	R 7.44	14.48	8.00	2.43	R 5.14	R 5.23	—	R 3.74	15.75	R 5.67
1990	**1.84**	**1.39**	**1.58**	**4.01**	**3.20**	**5.72**	**6.31**	R **10.14**	**14.60**	**9.35**	**2.29**	R **5.48**	R **6.00**	d R **1.73**	d R **4.20**	R **15.82**	d R **6.08**
1991	1.99	1.41	1.63	3.70	3.38	5.48	6.04	R 9.10	R 16.80	9.13	2.63	R 4.85	R 5.80	R 1.74	R 4.01	16.09	R 5.89
1992	2.00	1.28	1.59	3.68	3.02	5.69	6.27	R 8.32	R 18.32	8.79	2.80	R 4.85	R 5.57	R 1.70	R 3.96	16.04	R 5.89
1993	1.95	1.28	1.54	4.35	3.31	5.46	6.02	R 9.19	R 18.96	8.57	2.86	R 4.31	R 6.07	R 1.68	R 4.42	15.97	R 6.21
1994	1.90	1.28	1.51	4.30	3.36	5.39	5.93	R 7.22	R 19.11	8.95	2.69	R 4.27	R 5.64	R 1.64	R 4.27	15.19	R 5.97
1995	**1.97**	**1.27**	**1.57**	**3.50**	**3.37**	**5.34**	**5.88**	**7.58**	**19.40**	**9.42**	**2.78**	**4.51**	**5.89**	**1.60**	**4.07**	**15.45**	**5.83**
	Expenditures in Million Nominal Dollars																
1970	**41.6**	**73.9**	**115.5**	**179.9**	**53.8**	**47.4**	**10.2**	**74.2**	**62.1**	**96.4**	**46.8**	R **80.4**	R **471.3**	**—**	R **766.7**	**294.3**	R **1,061.0**
1971	46.2	54.2	100.4	221.2	61.4	52.6	9.5	78.3	62.9	101.2	23.3	R 82.0	R 471.4	—	R 793.1	321.1	R 1,114.2
1972	48.2	63.6	111.8	247.2	61.4	53.0	12.3	92.0	71.3	61.7	41.3	R 89.8	R 482.8	—	R 841.8	385.8	R 1,227.7
1973	49.9	55.6	105.5	282.3	70.0	67.3	17.0	108.2	69.5	90.5	48.0	R 104.8	R 575.2	—	R 963.1	438.0	R 1,401.1
1974	105.7	83.8	189.5	322.5	123.4	127.7	23.9	198.6	90.3	121.9	123.9	R 145.5	R 955.2	—	R 1,467.2	536.5	R 2,003.7
1975	**120.7**	**109.5**	**230.2**	**418.0**	**135.0**	**150.9**	**19.2**	**185.6**	**75.7**	**106.5**	**117.0**	R **178.2**	R **968.2**	**—**	R **1,616.3**	**618.3**	R **2,234.6**
1976	104.7	104.8	209.6	532.4	128.0	178.6	13.0	240.9	79.2	118.8	90.3	R 206.0	R 1,054.8	—	R 1,796.7	719.6	R 2,516.4
1977	101.4	111.0	212.3	664.1	145.2	195.1	16.2	291.1	82.8	110.9	99.1	R 239.1	R 1,179.4	—	R 2,055.8	828.4	R 2,884.2
1978	114.4	115.1	229.5	763.9	172.3	219.9	19.5	282.6	96.9	88.4	90.8	R 259.1	R 1,229.5	—	R 2,223.0	1,026.4	R 3,249.3
1979	103.1	116.0	219.1	880.5	183.9	194.4	11.5	568.4	136.2	108.6	152.9	R 363.6	R 1,719.4	—	R 2,819.0	1,112.3	R 3,931.3
1980	**93.7**	**135.1**	**228.7**	**1,049.4**	**205.7**	**240.0**	**14.4**	**581.2**	**170.6**	**180.7**	**214.4**	R **588.5**	R **2,195.6**	**—**	R **3,473.7**	**1,322.1**	R **4,795.8**
1981	97.1	128.4	225.5	1,187.4	185.5	254.8	19.8	559.7	205.1	168.2	226.6	R 616.3	R 2,236.1	—	R 3,649.0	1,503.5	R 5,152.5
1982	105.5	126.8	232.2	1,165.5	149.7	306.7	4.2	414.6	179.2	124.0	145.3	R 479.2	R 1,802.9	—	R 3,200.6	1,533.8	R 4,734.4
1983	114.9	127.1	241.9	1,283.9	159.2	259.1	17.9	452.7	184.7	98.0	124.3	R 468.5	R 1,764.3	—	R 3,290.1	1,847.9	R 5,138.1
1984	140.2	133.0	273.2	1,326.4	180.1	276.5	12.4	456.7	204.5	89.7	74.9	R 519.7	R 1,814.5	—	R 3,414.1	1,752.1	R 5,166.2
1985	**131.6**	**135.2**	**266.9**	**1,287.4**	**244.5**	**227.9**	**3.5**	R **740.2**	**190.4**	**82.5**	**44.3**	R **463.8**	R **1,997.0**	**—**	R **3,551.3**	**1,849.8**	R **5,401.0**
1986	122.9	141.2	264.1	1,055.7	187.4	230.9	2.8	R 782.5	164.8	56.0	28.8	R 409.8	R 1,863.0	—	R 3,182.7	2,009.9	R 5,192.7
1987	129.3	131.1	260.4	959.0	140.1	261.4	3.3	R 967.0	R 162.3	59.5	35.2	R 454.2	R 2,082.9	—	R 3,302.3	2,008.4	R 5,310.7
1988	141.7	137.2	278.9	885.8	130.4	194.4	2.0	R 1,077.3	168.4	57.2	30.6	R 393.9	R 2,054.2	—	R 3,218.9	1,908.8	R 5,127.8
1989	131.2	119.8	251.0	1,000.6	156.0	178.0	2.7	R 207.2	171.2	59.6	23.6	R 446.0	R 1,244.3	—	R 2,495.9	2,016.8	R 4,512.7
1990	**116.4**	**121.6**	**237.9**	**1,079.6**	**176.9**	**253.7**	**1.7**	R **293.0**	**177.6**	**61.7**	**18.0**	R **524.2**	R **1,506.8**	d R **6.7**	d R **2,831.0**	R **2,067.8**	d R **4,898.8**
1991	119.4	136.4	255.8	1,084.8	177.5	244.7	1.6	R 311.7	R 182.8	64.4	8.5	R 532.9	R 1,524.2	R 7.0	R 2,871.8	R 2,123.5	R 4,995.2
1992	124.4	109.2	233.6	1,076.7	186.1	281.2	1.7	R 231.6	R 203.2	56.0	4.1	R 553.9	R 1,517.7	R 6.8	R 2,834.8	2,180.5	R 5,015.3
1993	113.0	116.4	229.3	1,290.4	138.7	225.1	2.2	R 543.8	R 214.2	71.6	6.4	R 500.3	R 1,702.2	R 7.0	R 3,229.0	R 2,135.3	R 5,364.3
1994	103.6	121.7	225.3	1,277.8	174.0	239.9	2.6	R 497.5	R 225.7	71.3	6.4	R 491.1	R 1,708.5	R 7.3	R 3,218.9	R 2,109.6	R 5,328.6
1995	**120.5**	**106.0**	**226.5**	**1,095.3**	**166.7**	**263.0**	**4.3**	**559.5**	**225.1**	**74.2**	**3.3**	**497.6**	**1,793.6**	**7.9**	**3,123.3**	**2,171.8**	**5,295.1**

[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=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 93. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Illinois

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.46**	**—**	**2.17**	**1.39**	**0.74**	**1.11**	**5.08**	**3.05**	**0.57**	**2.47**	**2.47**	**4.08**	**2.47**
1971	0.44	—	2.21	1.43	0.78	1.19	5.27	3.00	0.59	2.42	2.42	4.40	2.42
1972	0.53	—	2.19	1.45	0.78	1.19	5.58	2.91	0.62	2.35	2.35	4.68	2.35
1973	0.55	—	2.36	1.79	0.92	1.30	5.33	3.25	0.65	2.64	2.64	5.01	2.64
1974	0.85	—	3.23	2.69	1.59	2.28	7.22	4.48	1.18	3.77	3.76	5.76	3.77
1975	**1.19**	**—**	**3.45**	**2.84**	**2.08**	**2.29**	**7.48**	**4.73**	**1.61**	**4.06**	**4.06**	**6.11**	**4.07**
1976	1.28	—	3.59	3.00	2.35	2.52	7.05	4.93	1.92	4.27	4.27	6.68	4.27
1977	1.40	—	3.97	3.45	2.66	3.06	6.97	5.23	2.34	4.57	4.57	7.20	4.58
1978	—	—	4.29	3.62	2.87	3.11	7.60	5.32	2.35	4.72	4.72	8.17	4.73
1979	—	—	5.73	5.39	3.92	3.54	10.21	7.27	3.64	6.48	6.48	9.40	6.48
1980	**—**	**—**	**9.02**	**7.45**	**6.38**	**4.93**	**14.36**	**9.81**	**5.32**	**8.99**	**8.99**	**11.82**	**9.00**
1981	—	—	10.84	8.81	7.55	5.38	18.00	10.64	7.32	10.05	10.05	13.88	10.06
1982	—	—	10.92	8.52	7.22	5.44	17.25	10.32	6.88	9.74	9.74	16.00	9.75
1983	—	—	10.44	8.00	6.63	6.11	16.98	9.08	5.85	8.70	8.70	18.26	8.71
1984	—	—	10.27	8.42	6.42	6.06	17.63	8.82	6.02	8.80	8.80	19.14	8.81
1985	**—**	**—**	**9.99**	**8.52**	**6.00**	**[R] 9.34**	**17.61**	**9.03**	**5.88**	**[R] 8.99**	**[R] 8.99**	**19.14**	**9.00**
1986	—	—	8.41	6.60	4.22	[R] 7.72	15.59	6.78	4.86	6.81	6.81	20.87	6.84
1987	—	—	7.55	6.89	4.21	[R] 7.20	[R] 13.58	7.23	3.32	[R] 7.20	[R] 7.20	20.31	[R] 7.22
1988	—	—	7.41	6.91	3.84	[R] 7.31	[R] 14.62	7.27	2.59	7.18	7.18	18.70	7.20
1989	—	—	8.28	7.20	4.32	[R] 7.44	14.48	8.00	2.90	7.81	7.81	19.82	7.83
1990	**—**	**4.40**	**9.32**	**8.73**	**5.84**	**[R] 10.14**	**14.60**	**9.35**	**3.11**	**9.18**	**9.18**	**[R] 19.63**	**9.19**
1991	—	3.35	8.71	8.21	4.75	[R] 9.10	[R] 16.80	9.13	2.39	8.82	8.82	[R] 20.05	[R] 8.84
1992	—	3.73	8.54	8.08	4.44	[R] 8.32	[R] 18.32	8.79	2.50	[R] 8.51	[R] 8.51	[R] 20.32	[R] 8.53
1993	—	3.96	8.24	8.16	4.12	[R] 9.19	[R] 18.96	8.57	2.39	8.31	8.31	[R] 20.60	8.32
1994	—	3.15	7.96	8.16	3.82	[R] 9.22	[R] 19.11	8.95	2.56	[R] 8.58	[R] 8.58	[R] 18.97	8.59
1995	**—**	**2.83**	**8.36**	**8.17**	**3.86**	**9.57**	**19.40**	**9.42**	**2.73**	**8.88**	**8.88**	**19.94**	**8.90**
	Expenditures in Million Nominal Dollars												
1970	**0.2**	**—**	**2.9**	**123.2**	**95.2**	**2.2**	**38.2**	**1,610.4**	**1.5**	**1,873.5**	**1,873.7**	**3.3**	**1,877.0**
1971	0.1	—	2.6	144.2	106.2	2.6	40.1	1,599.0	1.3	1,896.0	1,896.1	3.5	1,899.6
1972	0.1	—	1.9	175.4	116.6	2.4	45.4	1,670.5	0.9	2,013.1	2,013.2	3.9	2,017.0
1973	0.1	—	1.6	233.8	147.1	2.4	53.7	1,930.3	1.1	2,370.0	2,370.1	3.9	2,374.0
1974	0.1	—	1.9	346.1	219.9	4.4	69.7	2,590.1	2.4	3,234.5	3,234.6	4.4	3,239.0
1975	**(s)**	**—**	**1.4**	**338.4**	**285.7**	**4.1**	**65.9**	**2,822.2**	**2.2**	**3,519.9**	**3,519.9**	**5.5**	**3,525.5**
1976	(s)	—	1.3	382.6	333.0	5.3	68.9	3,042.8	3.1	3,837.0	3,837.0	6.3	3,843.3
1977	(s)	—	1.8	445.6	400.7	6.9	64.0	3,298.3	2.1	4,219.3	4,219.3	7.0	4,226.3
1978	—	—	0.4	472.8	429.9	8.3	74.9	3,539.7	1.9	4,527.8	4,527.8	7.5	4,535.3
1979	—	—	0.4	826.9	527.4	3.4	105.3	4,406.5	6.8	5,876.7	5,876.7	10.0	5,886.7
1980	**—**	**—**	**6.0**	**978.7**	**704.0**	**3.2**	**131.8**	**5,390.1**	**9.4**	**7,223.2**	**7,223.2**	**10.9**	**7,234.1**
1981	—	—	14.9	1,046.8	721.6	7.2	158.5	5,771.2	0.3	7,720.6	7,720.6	14.1	7,734.7
1982	—	—	11.9	920.7	678.3	9.5	138.5	5,521.5	1.1	7,281.5	7,281.5	16.0	7,297.5
1983	—	—	12.3	976.5	598.1	12.6	142.8	4,977.3	2.9	6,722.5	6,722.5	15.9	6,738.4
1984	—	—	10.4	1,062.2	96.4	15.3	158.1	4,757.3	5.2	6,105.0	6,105.0	19.2	6,124.2
1985	**—**	**—**	**10.7**	**949.7**	**92.2**	**[R] 14.2**	**147.1**	**5,163.7**	**6.9**	**[R] 6,384.6**	**[R] 6,384.6**	**22.7**	**[R] 6,407.3**
1986	—	—	8.9	816.9	48.4	[R] 10.6	127.4	3,792.9	2.6	[R] 4,807.7	[R] 4,807.7	24.9	[R] 4,832.6
1987	—	—	6.1	825.1	46.8	[R] 8.1	[R] 125.4	4,105.6	2.1	[R] 5,119.3	[R] 5,119.3	23.3	[R] 5,142.5
1988	—	—	7.0	852.6	85.3	[R] 9.0	130.2	4,358.2	5.7	[R] 5,448.0	[R] 5,448.0	22.9	[R] 5,470.9
1989	—	—	8.0	1,015.4	109.3	[R] 7.3	132.3	4,773.6	1.0	[R] 6,047.0	[R] 6,047.0	23.9	[R] 6,070.9
1990	**—**	**(s)**	**7.7**	**1,611.3**	**130.1**	**[R] 12.2**	**137.3**	**5,824.2**	**1.0**	**[R] 7,723.7**	**[R] 7,723.7**	**23.7**	**[R] 7,747.4**
1991	—	(s)	7.7	1,198.8	172.6	[R] 10.2	141.3	4,921.4	0.2	[R] 6,452.2	[R] 6,452.2	[R] 24.8	[R] 6,477.0
1992	—	(s)	7.6	1,162.7	185.8	[R] 9.7	[R] 157.1	4,834.3	0.5	[R] 6,357.6	[R] 6,357.7	24.3	[R] 6,381.9
1993	—	(s)	9.6	1,335.3	213.6	[R] 9.3	[R] 165.5	4,853.9	0.6	[R] 6,587.8	[R] 6,587.8	23.3	[R] 6,611.1
1994	—	0.1	8.2	1,076.4	208.1	[R] 17.8	[R] 174.4	5,156.4	0.8	[R] 6,642.1	[R] 6,642.2	20.8	[R] 6,662.9
1995	**—**	**0.1**	**9.1**	**1,221.7**	**226.7**	**9.9**	**174.0**	**5,421.1**	**0.6**	**7,063.1**	**7,063.2**	**20.7**	**7,083.9**

[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 94. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Illinois

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.30**	**0.35**	**0.60**	**0.67**	**—**	**0.63**	**0.15**	**0.65**	**0.32**
1971	0.34	0.38	0.61	0.67	—	0.63	0.16	—	0.36
1972	0.39	0.42	0.65	0.95	—	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	1.98	—	1.53	0.17	—	0.55
1975	**0.75**	**1.13**	**1.35**	**2.21**	**—**	**1.63**	**0.18**	**—**	**0.69**
1976	0.85	1.37	2.04	2.44	—	2.18	0.19	—	0.77
1977	1.02	1.79	2.45	2.82	—	2.55	0.21	—	0.92
1978	1.25	2.73	2.53	2.88	—	2.61	0.25	—	1.10
1979	1.45	2.69	3.82	3.95	—	3.84	0.30	—	1.39
1980	**1.62**	**3.19**	**5.60**	**6.38**	**—**	**5.64**	**0.33**	**—**	**1.60**
1981	1.86	4.13	7.35	7.84	—	7.37	0.42	—	1.78
1982	1.98	4.58	7.06	7.49	—	7.09	0.51	—	1.81
1983	2.04	5.29	6.18	6.33	—	6.19	0.56	—	1.81
1984	1.99	4.87	6.19	6.43	—	6.21	0.56	—	1.63
1985	**2.18**	**5.19**	**6.03**	**6.05**	**—**	**6.03**	**0.64**	**—**	**1.67**
1986	2.12	4.62	5.24	3.64	—	5.09	0.64	—	1.61
1987	2.00	3.66	3.56	4.22	—	3.63	0.64	—	1.42
1988	1.91	3.27	2.95	3.77	—	3.12	0.66	—	1.23
1989	1.81	3.26	3.36	4.39	—	3.59	0.60	—	1.13
1990	**1.75**	**2.67**	**3.63**	**5.26**	**—**	**3.99**	**0.57**	**—**	**1.12**
1991	1.71	2.10	2.73	4.72	—	3.03	0.49	—	1.06
1992	1.74	2.20	2.81	4.44	—	3.06	0.52	1.11	1.04
1993	1.70	2.44	2.66	4.19	—	2.97	0.52	—	1.07
1994	1.61	2.00	2.64	3.92	—	2.93	0.53	—	1.07
1995	**1.63**	**1.68**	**2.70**	**3.87**	**0.62**	**2.60**	**0.51**	**0.87**	**1.04**
	Expenditures in Million Nominal Dollars								
1970	**180.2**	**47.7**	**12.2**	**10.3**	**—**	**22.5**	**4.1**	**(s)**	**254.5**
1971	200.3	49.1	26.2	17.2	—	43.4	7.5	—	300.3
1972	236.3	31.7	32.0	32.5	—	64.6	20.6	—	353.2
1973	281.8	24.3	33.5	26.9	—	60.4	34.7	—	401.2
1974	364.2	33.6	54.5	55.8	—	110.3	38.2	—	546.3
1975	**494.2**	**39.8**	**61.4**	**49.1**	**—**	**110.5**	**45.2**	**—**	**689.6**
1976	582.5	43.0	88.1	55.4	—	143.5	56.5	—	825.6
1977	715.8	26.6	146.5	66.4	—	212.9	65.6	—	1,021.0
1978	862.3	63.4	207.7	69.2	—	276.9	88.8	—	1,291.5
1979	1,030.3	86.5	313.1	67.2	—	380.3	88.4	—	1,585.5
1980	**1,151.8**	**62.5**	**449.3**	**31.3**	**—**	**480.6**	**99.4**	**—**	**1,794.2**
1981	1,252.2	55.7	442.7	26.5	—	469.2	135.3	—	1,912.2
1982	1,303.7	48.8	318.3	25.0	—	343.2	157.4	—	1,853.1
1983	1,451.7	65.1	225.4	20.1	—	245.5	171.2	—	1,933.4
1984	1,350.1	30.0	174.7	15.5	—	190.2	213.8	—	1,784.0
1985	**1,441.6**	**31.3**	**97.4**	**15.4**	**—**	**112.7**	**270.5**	**—**	**1,856.1**
1986	1,379.4	28.8	137.1	9.7	—	146.8	294.6	—	1,849.5
1987	1,236.5	11.9	72.3	10.4	—	82.8	347.5	—	1,678.7
1988	1,081.7	19.0	37.2	12.1	—	49.3	488.7	—	1,638.8
1989	998.7	23.1	32.5	11.6	—	44.1	484.5	—	1,550.4
1990	**1,035.1**	**24.8**	**37.0**	**15.0**	**—**	**52.1**	**436.4**	**—**	**1,548.3**
1991	1,020.0	27.6	43.7	13.6	—	57.3	381.5	—	1,486.4
1992	936.2	20.8	33.7	9.5	—	43.1	409.9	0.1	1,410.0
1993	1,121.0	39.8	27.6	11.4	—	39.0	437.8	—	1,637.6
1994	1,066.0	70.5	33.0	14.2	—	47.2	409.3	—	1,593.0
1995	**1,090.3**	**66.8**	**17.2**	**12.2**	**1.4**	**30.8**	**422.4**	**0.6**	**1,611.0**

[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 95. Energy Price and Expenditure Estimates by Source, 1970-1995, Indiana

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	**0.44**	**0.32**	**0.36**	**0.68**	**1.03**	**0.74**	**1.86**	**2.98**	**0.57**	**[R] 1.32**	**[R] 2.02**	**—**	**—**	**0.93**	**0.26**	**5.15**	**1.43**
1971	0.55	0.32	0.39	0.72	1.07	0.78	1.84	3.01	0.63	[R] 1.34	[R] 1.97	—	—	0.98	0.29	5.20	1.51
1972	0.59	0.38	0.45	0.78	1.11	0.78	1.93	2.84	0.63	[R] 1.41	[R] 1.92	—	—	1.00	0.32	5.57	1.53
1973	0.69	0.39	0.49	0.83	1.43	0.92	3.02	3.14	0.75	[R] 1.41	[R] 2.20	—	—	1.12	0.34	5.68	1.73
1974	1.38	0.56	0.86	0.93	2.46	1.59	3.00	4.47	1.74	[R] 2.29	[R] 3.25	—	—	1.67	0.50	6.23	[R] 2.42
1975	**1.76**	**0.73**	**1.09**	**1.16**	**2.49**	**2.08**	**3.34**	**4.75**	**1.81**	**[R] 2.67**	**[R] 3.52**	**—**	**—**	**[R] 1.91**	**0.62**	**7.08**	**2.82**
1976	1.52	0.76	0.99	1.39	2.63	2.35	3.43	4.92	1.87	[R] 2.77	[R] 3.60	—	—	1.99	0.70	7.75	3.03
1977	1.69	0.89	1.14	1.76	3.08	2.66	3.93	5.21	2.18	[R] 2.89	[R] 3.90	—	—	2.24	0.85	9.08	[R] 3.46
1978	2.02	1.18	1.42	1.95	3.21	2.87	4.29	5.38	2.34	[R] 2.94	[R] 4.06	—	—	2.48	1.17	10.46	[R] 3.76
1979	1.88	1.22	1.41	2.41	4.77	3.91	4.94	7.25	2.92	[R] 3.83	[R] 5.51	—	—	2.93	1.20	11.19	[R] 4.43
1980	**2.13**	**1.31**	**1.53**	**2.88**	**6.85**	**6.38**	**6.08**	**10.00**	**3.63**	**[R] 5.86**	**[R] 7.80**	**—**	**—**	**3.67**	**1.30**	**12.32**	**[R] 5.65**
1981	2.50	1.51	1.79	3.30	8.13	7.55	6.16	11.05	4.50	[R] 7.84	[R] 9.20	—	—	4.26	1.52	13.53	[R] 6.40
1982	2.59	1.60	1.81	3.98	7.90	7.22	7.27	10.46	4.16	[R] 6.79	[R] 8.80	—	—	[R] 4.36	1.64	15.58	[R] 6.88
1983	2.45	1.55	1.75	4.86	7.66	6.42	7.83	9.12	4.65	[R] 6.52	[R] 8.09	—	—	[R] 4.18	1.59	15.47	[R] 6.84
1984	2.30	1.60	1.75	4.88	7.69	6.14	7.77	8.74	4.60	[R] 6.77	[R] 7.79	—	—	[R] 4.13	1.62	16.67	[R] 6.81
1985	**2.24**	**1.64**	**1.77**	**4.71**	**7.68**	**5.81**	**[R] 8.93**	**8.85**	**4.40**	**[R] 6.72**	**[R] 7.81**	**—**	**—**	**[R] 4.11**	**1.66**	**16.95**	**[R] 6.92**
1986	2.05	1.58	1.67	4.59	5.78	3.80	[R] 8.03	6.48	2.62	[R] 5.18	[R] 5.72	—	—	[R] 3.49	1.59	17.74	[R] 6.26
1987	1.92	1.46	1.55	4.08	6.11	3.96	[R] 7.63	6.90	2.64	[R] 4.75	[R] 5.94	—	—	3.42	1.47	16.91	[R] 6.08
1988	2.02	1.44	1.57	4.31	5.75	3.74	[R] 7.63	6.94	2.10	[R] 4.72	[R] 5.90	—	—	[R] 3.36	1.44	16.53	[R] 6.05
1989	1.92	1.37	1.49	4.52	6.41	4.33	[R] 9.01	7.60	2.34	[R] 4.83	[R] 6.48	—	—	3.54	1.37	15.92	[R] 6.31
1990	**1.84**	**1.37**	**1.46**	**4.26**	**7.56**	**5.62**	**[R] 9.93**	**8.74**	**2.66**	**[R] 4.73**	**[R] 7.39**	**—**	**[d R] 2.94**	**[d] 3.72**	**1.38**	**15.75**	**[d] 6.70**
1991	1.99	1.36	1.46	4.25	7.09	4.76	[R] 9.67	8.60	2.37	[R] 5.13	[R] 7.20	—	2.95	3.66	1.36	[R] 15.65	[R] 6.71
1992	2.00	1.32	1.42	4.18	6.79	4.41	[R] 9.15	8.28	2.46	[R] 5.12	[R] 6.92	—	[R] 2.99	3.57	1.32	15.59	[R] 6.60
1993	1.95	1.28	1.37	4.52	6.78	4.10	[R] 9.37	8.11	2.20	[R] 4.88	[R] 6.77	—	[R] 2.70	3.61	1.28	[R] 15.20	[R] 6.63
1994	1.90	1.28	1.35	5.13	6.87	3.82	[R] 8.74	8.21	2.25	[R] 4.89	6.76	—	[R] 2.67	3.76	1.29	15.42	7.01
1995	**1.97**	**1.27**	**1.36**	**4.11**	**6.94**	**3.85**	**9.03**	**8.52**	**2.54**	**5.43**	**7.12**	**—**	**2.63**	**3.63**	**1.27**	**15.39**	**6.84**
	Expenditures in Million Nominal Dollars																
1970	**151.8**	**212.7**	**364.5**	**359.0**	**176.3**	**10.6**	**62.9**	**921.2**	**14.2**	**[R] 127.4**	**[R] 1,312.6**	**—**	**—**	**[R] 2,036.1**	**-136.5**	**657.3**	**[R] 2,556.8**
1971	168.7	202.0	370.7	396.9	191.9	11.7	63.0	951.6	34.9	[R] 145.4	[R] 1,398.5	—	—	[R] 2,166.1	-155.9	707.2	[R] 2,717.4
1972	215.9	260.3	476.2	437.0	221.5	12.2	75.5	947.5	35.5	[R] 148.1	[R] 1,440.4	—	—	[R] 2,353.5	-177.4	821.3	[R] 2,997.4
1973	260.6	279.4	540.0	432.7	291.4	14.7	119.9	1,091.4	46.0	[R] 170.1	[R] 1,733.6	—	—	[R] 2,706.4	-207.3	918.5	[R] 3,417.6
1974	523.1	370.5	893.6	478.6	474.4	22.9	124.6	1,509.8	135.1	[R] 262.9	[R] 2,529.8	—	—	[R] 3,902.0	-288.4	1,020.6	[R] 4,634.2
1975	**651.7**	**503.5**	**1,155.2**	**532.0**	**473.9**	**30.4**	**150.9**	**1,614.2**	**120.0**	**[R] 247.3**	**[R] 2,636.7**	**—**	**—**	**[R] 4,323.8**	**-372.6**	**1,252.3**	**[R] 5,203.5**
1976	503.6	553.7	1,057.3	574.2	546.7	34.4	183.4	1,738.8	176.7	[R] 239.2	[R] 2,919.3	—	—	[R] 4,550.8	-443.8	1,483.6	[R] 5,590.7
1977	595.4	670.9	1,266.3	683.8	665.7	39.7	235.5	1,846.7	220.8	[R] 267.5	[R] 3,275.9	—	—	[R] 5,226.0	-555.3	1,844.2	[R] 6,515.0
1978	627.5	900.3	1,527.8	836.6	690.3	40.0	219.7	1,996.7	245.7	[R] 321.0	[R] 3,513.3	—	—	[R] 5,877.7	-753.8	2,121.4	[R] 7,245.2
1979	635.2	1,016.9	1,652.0	1,161.4	1,002.2	56.6	168.8	2,490.9	262.4	[R] 385.8	[R] 4,366.7	—	—	[R] 7,180.2	-834.6	2,338.7	[R] 8,684.4
1980	**684.0**	**1,091.9**	**1,775.9**	**1,343.1**	**1,227.3**	**76.5**	**174.3**	**3,162.9**	**261.7**	**[R] 474.3**	**[R] 5,377.0**	**—**	**—**	**[R] 8,496.0**	**-951.4**	**2,524.5**	**[R] 10,069.0**
1981	823.4	1,240.3	2,063.7	1,559.5	1,369.2	120.2	161.5	3,551.3	170.7	[R] 745.3	[R] 6,118.2	—	—	[R] 9,741.4	-1,077.3	2,752.3	[R] 11,416.4
1982	575.4	1,252.5	1,827.9	1,816.7	1,328.1	176.9	177.1	3,103.4	90.6	[R] 562.4	[R] 5,438.4	—	—	[R] 9,083.1	-1,098.3	3,078.3	[R] 11,063.0
1983	598.3	1,337.4	1,935.6	2,019.6	1,235.3	158.6	193.0	2,751.5	69.2	[R] 576.6	[R] 4,984.4	—	—	[R] 8,939.7	-1,174.4	3,218.6	[R] 10,983.8
1984	582.9	1,533.0	2,115.9	2,150.1	1,395.3	536.5	147.8	2,665.2	44.8	[R] 618.2	[R] 5,407.8	—	—	[R] 9,673.8	-1,350.6	3,346.7	[R] 11,669.9
1985	**560.1**	**1,548.0**	**2,108.1**	**1,995.4**	**1,376.7**	**507.4**	**[R] 157.5**	**2,694.3**	**57.9**	**[R] 576.7**	**[R] 5,370.4**	**—**	**—**	**[R] 9,474.0**	**-1,359.6**	**3,647.8**	**[R] 11,762.3**
1986	429.4	1,452.5	1,881.9	1,776.1	1,070.0	400.2	[R] 177.4	2,043.5	44.8	[R] 448.1	[R] 4,183.9	—	—	[R] 7,841.9	-1,270.9	3,846.6	[R] 10,417.7
1987	454.8	1,357.7	1,812.4	1,639.6	1,125.7	428.4	[R] 168.3	2,289.7	43.7	[R] 457.8	[R] 4,513.6	—	—	[R] 7,965.7	-1,194.4	3,848.9	[R] 10,620.2
1988	561.8	1,427.8	1,989.6	1,920.7	963.1	350.1	[R] 186.5	2,340.0	29.9	[R] 444.6	[R] 4,314.1	—	—	[R] 8,224.4	-1,261.8	3,993.9	[R] 10,956.6
1989	502.0	1,409.0	1,911.0	2,043.8	1,237.0	429.8	[R] 263.7	2,460.7	35.7	[R] 432.1	[R] 4,858.9	—	—	[R] 8,813.6	-1,254.3	3,912.8	[R] 11,472.2
1990	**437.9**	**1,545.6**	**1,983.5**	**1,875.6**	**1,440.5**	**569.3**	**[R] 335.2**	**2,827.0**	**47.7**	**[R] 511.4**	**[R] 5,731.2**	**—**	**[d R] 22.3**	**[d R] 9,612.6**	**-1,404.9**	**[R] 3,926.9**	**[d R] 12,134.6**
1991	438.9	1,519.2	1,958.1	1,903.3	1,338.5	463.5	[R] 327.1	2,769.6	31.0	[R] 532.2	[R] 5,461.8	—	23.4	[R] 9,346.6	-1,391.5	[R] 4,062.9	[R] 12,018.0
1992	384.2	1,460.2	1,844.5	1,976.6	1,264.6	399.7	[R] 231.4	2,697.2	40.9	[R] 509.6	[R] 5,143.4	—	[R] 24.2	[R] 8,988.6	-1,336.4	[R] 4,042.3	[R] 11,694.6
1993	344.6	1,460.4	1,805.1	2,280.5	1,306.7	380.3	[R] 260.1	2,789.3	28.5	[R] 581.8	[R] 5,346.7	—	[R] 14.5	[R] 9,446.8	-1,330.6	[R] 4,194.9	[R] 12,311.1
1994	246.4	1,502.3	1,748.7	2,597.0	1,433.6	374.5	[R] 223.3	2,841.3	28.3	[R] 607.1	[R] 5,508.1	—	[R] 14.4	[R] 9,868.3	-1,388.7	[R] 4,355.9	[R] 12,835.5
1995	**310.2**	**1,507.9**	**1,818.2**	**2,145.3**	**1,427.2**	**378.8**	**220.0**	**3,138.5**	**17.4**	**552.6**	**5,734.5**	**—**	**15.9**	**9,713.9**	**-1,380.8**	**4,515.8**	**12,848.9**

[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 96. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Indiana

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.10**	**1.00**	**1.21**	**1.59**	**2.10**	**1.52**	**—**	**1.18**	**6.56**	**2.02**
1971	1.03	1.07	1.29	1.52	2.05	1.53	—	1.23	6.58	2.09
1972	1.18	1.13	1.30	1.39	2.18	1.57	—	1.28	7.03	2.22
1973	1.17	1.20	1.66	1.76	3.83	2.32	—	1.60	7.22	2.64
1974	2.29	1.28	2.58	2.83	3.30	2.82	—	1.81	7.81	2.94
1975	**2.52**	**1.47**	**2.57**	**3.11**	**3.92**	**3.02**	**—**	**2.00**	**8.55**	**3.20**
1976	2.52	1.71	2.81	3.25	4.17	3.23	—	2.28	9.54	3.65
1977	2.45	2.04	3.22	3.82	4.66	3.67	—	2.64	10.71	4.28
1978	2.57	2.19	3.50	4.01	4.68	3.85	—	2.77	12.04	4.58
1979	2.31	2.67	5.24	5.72	6.34	5.52	—	3.43	12.99	5.43
1980	**2.43**	**3.19**	**7.18**	**8.55**	**7.37**	**7.31**	**—**	**4.10**	**13.86**	**6.42**
1981	2.75	3.63	8.54	10.50	7.94	8.51	—	4.57	15.36	7.23
1982	2.80	4.32	8.24	10.44	8.85	8.53	—	5.05	17.76	8.15
1983	2.75	5.46	7.62	9.37	9.01	8.36	—	5.84	17.92	9.15
1984	2.92	5.65	7.81	9.15	8.84	8.31	—	5.98	19.52	9.64
1985	**2.77**	**5.50**	**7.50**	**8.79**	**8.76**	**8.04**	**—**	**5.81**	**20.37**	**9.82**
1986	2.83	5.47	5.66	6.64	7.64	6.40	—	5.55	21.14	10.02
1987	2.57	4.91	5.71	6.69	7.32	6.38	—	5.10	21.38	9.88
1988	2.54	5.08	5.71	6.69	7.46	6.49	—	5.25	20.95	9.72
1989	2.46	5.41	6.30	7.38	9.78	8.06	—	5.78	20.31	9.87
1990	**2.62**	**5.28**	**7.52**	**8.81**	**10.09**	**8.95**	**[d] 3.56**	**[d] 5.67**	**[R] 20.14**	**[d] 9.58**
1991	2.62	5.38	6.95	8.15	8.97	8.02	3.56	5.65	[R] 19.73	9.61
1992	2.58	5.37	6.14	7.20	9.46	7.87	3.56	5.59	20.11	9.42
1993	2.53	5.69	6.13	7.19	9.01	7.62	3.56	5.88	19.55	9.76
1994	2.52	6.16	6.15	7.20	[R] 9.88	[R] 8.17	3.56	[R] 6.34	19.86	[R] 10.29
1995	**2.43**	**5.31**	**6.18**	**7.24**	**10.07**	**8.43**	**3.56**	**5.64**	**19.75**	**9.91**
	Expenditures in Million Nominal Dollars									
1970	**6.3**	**160.3**	**56.3**	**16.6**	**50.2**	**123.1**	**—**	**289.6**	**301.8**	**591.5**
1971	5.6	175.8	64.2	15.5	49.3	128.9	—	310.3	322.6	632.9
1972	7.7	192.6	69.7	15.2	59.4	144.3	—	344.6	368.0	712.6
1973	4.5	185.3	90.1	13.2	100.8	204.1	—	393.9	403.0	796.9
1974	9.7	202.4	131.7	14.5	82.7	228.9	—	441.0	440.6	881.6
1975	**17.6**	**237.0**	**129.4**	**12.6**	**97.1**	**239.1**	**—**	**493.7**	**477.5**	**971.1**
1976	12.4	259.0	159.4	20.7	106.5	286.6	—	558.0	542.6	1,100.6
1977	7.9	306.6	183.8	22.9	117.4	324.0	—	638.5	659.7	1,298.2
1978	3.6	365.2	204.1	26.5	111.1	341.7	—	710.5	750.5	1,461.0
1979	2.8	458.5	236.3	17.3	90.7	344.3	—	805.6	811.8	1,617.4
1980	**4.1**	**516.3**	**225.8**	**23.8**	**90.8**	**340.4**	**—**	**860.9**	**910.8**	**1,771.6**
1981	6.9	573.5	204.1	32.0	95.3	331.4	—	911.9	1,001.6	1,913.5
1982	12.7	702.6	202.7	20.3	91.9	314.9	—	1,030.1	1,170.1	2,200.3
1983	15.0	797.8	107.4	21.6	111.2	240.1	—	1,052.9	1,218.8	2,271.7
1984	14.8	862.3	118.7	27.9	87.3	233.8	—	1,110.9	1,344.7	2,455.6
1985	**11.3**	**810.4**	**111.8**	**23.2**	**73.9**	**208.9**	**—**	**1,030.6**	**1,376.4**	**2,406.9**
1986	12.2	772.9	95.1	14.8	72.4	182.3	—	967.4	1,479.4	2,446.8
1987	11.1	688.3	91.8	15.3	79.6	186.8	—	886.1	1,544.4	2,430.6
1988	12.7	792.6	92.9	19.7	92.3	204.8	—	1,010.2	1,607.0	2,617.2
1989	10.0	857.6	84.9	22.3	147.1	254.3	—	1,121.9	1,544.0	2,665.9
1990	**11.4**	**755.8**	**75.3**	**13.9**	**127.9**	**217.0**	**[d] 18.1**	**[d] 1,002.3**	**[R] 1,519.3**	**[d R] 2,521.6**
1991	9.0	799.6	78.4	14.6	113.1	206.2	19.0	1,033.7	[R] 1,630.5	[R] 2,664.2
1992	8.4	829.1	67.8	7.6	117.3	192.8	20.0	1,050.3	1,567.0	2,617.3
1993	6.8	944.3	75.4	10.3	122.4	208.1	10.3	1,169.6	[R] 1,666.4	[R] 2,836.0
1994	7.2	982.6	65.4	11.2	[R] 132.8	[R] 209.4	10.1	[R] 1,209.3	[R] 1,697.3	[R] 2,906.6
1995	**5.5**	**864.9**	**57.4**	**8.8**	**137.4**	**203.7**	**11.2**	**1,085.3**	**1,790.1**	**2,875.4**

[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.

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 97. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Indiana

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.52**	**0.83**	**1.04**	**0.81**	**1.28**	**2.98**	**0.70**	**1.09**	**0.86**	**6.58**	**1.78**
1971	0.43	0.88	1.10	0.83	1.36	3.01	0.73	1.09	0.90	6.61	1.83
1972	0.58	0.92	1.10	0.83	1.37	2.84	0.74	1.09	0.94	7.11	1.95
1973	0.59	0.99	1.44	1.13	1.43	3.14	0.75	1.28	1.05	7.35	2.24
1974	0.98	1.06	2.38	2.36	2.54	4.47	1.62	2.20	1.39	7.83	2.62
1975	**1.36**	**1.26**	**2.39**	**2.41**	**2.63**	**4.75**	**1.74**	**2.27**	**1.56**	**8.53**	**3.03**
1976	1.16	1.51	2.60	2.46	2.76	4.92	2.08	2.45	1.82	9.38	3.46
1977	1.28	1.86	2.99	2.89	3.40	5.21	2.54	2.93	2.24	10.51	4.18
1978	1.46	2.03	3.18	3.03	3.96	5.38	2.52	3.04	2.39	11.88	4.50
1979	1.47	2.48	4.82	4.05	3.93	7.25	3.47	4.23	2.99	12.72	5.34
1980	**1.58**	**2.99**	**6.66**	**6.14**	**5.10**	**10.00**	**4.35**	**5.51**	**3.69**	**13.36**	**6.18**
1981	1.68	3.41	8.03	7.03	4.65	11.05	5.94	7.58	3.82	14.29	6.97
1982	1.50	4.11	7.68	7.20	6.10	10.46	5.69	7.60	4.32	15.69	7.64
1983	1.43	5.14	6.36	7.01	6.65	9.12	5.12	6.32	5.13	15.10	7.79
1984	1.51	5.19	6.46	7.24	6.61	8.74	4.55	6.35	5.18	17.01	8.36
1985	**1.60**	**5.00**	**6.06**	**6.82**	**[R] 9.09**	**8.85**	**4.40**	**[R] 6.35**	**[R] 5.04**	**17.51**	**8.72**
1986	1.53	4.90	3.62	4.41	[R] 8.32	6.48	2.61	[R] 4.45	[R] 4.52	18.42	9.07
1987	1.38	4.41	4.19	4.94	[R] 7.93	6.90	2.61	[R] 4.97	[R] 4.23	18.34	9.06
1988	1.47	4.53	3.73	4.43	[R] 7.81	6.94	2.08	[R] 4.73	[R] 4.27	18.72	[R] 9.44
1989	1.46	4.70	4.44	5.22	[R] 8.20	7.60	2.31	[R] 5.33	[R] 4.54	18.18	[R] 9.45
1990	**1.44**	**4.52**	**5.31**	**6.54**	**[R] 9.83**	**8.74**	**2.64**	**[R] 6.92**	**[R] 4.56**	**[R] 17.95**	**9.70**
1991	1.44	4.55	4.91	5.57	[R] 10.09	8.60	2.38	[R] 6.14	[R] 4.55	17.64	[R] 9.75
1992	1.38	4.52	4.62	5.44	[R] 8.85	8.28	2.47	[R] 5.86	[R] 4.50	17.81	9.58
1993	1.35	4.93	4.44	5.33	[R] 9.71	8.11	2.16	[R] 5.73	[R] 4.86	[R] 17.35	[R] 9.60
1994	1.39	5.26	4.21	[R] 5.17	[R] 8.14	8.21	2.21	[R] 5.31	[R] 5.06	17.60	[R] 9.97
1995	**1.44**	**4.33**	**4.20**	**5.33**	**8.17**	**8.52**	**2.49**	**5.45**	**4.33**	**17.61**	**9.54**
	Expenditures in Million Nominal Dollars										
1970	**5.5**	**64.5**	**16.9**	**0.8**	**5.4**	**3.9**	**3.7**	**30.7**	**100.8**	**146.4**	**247.2**
1971	4.4	68.7	19.0	0.8	5.8	3.5	7.0	36.1	109.2	157.7	266.9
1972	7.0	79.0	20.6	0.9	6.6	3.4	6.9	38.4	124.4	185.2	309.7
1973	4.2	75.7	27.1	0.8	6.6	3.6	7.8	45.9	125.8	205.2	331.0
1974	7.7	80.2	42.2	1.2	11.2	3.5	18.0	76.1	163.9	218.6	382.5
1975	**17.6**	**87.7**	**41.9**	**1.0**	**11.5**	**3.0**	**18.0**	**75.3**	**180.7**	**264.0**	**444.7**
1976	10.6	101.1	51.2	1.5	12.4	3.2	32.8	101.2	212.8	305.8	518.6
1977	7.7	116.3	59.4	1.7	15.1	7.0	42.1	125.3	249.3	359.8	609.0
1978	3.8	140.8	64.6	1.9	16.6	4.1	40.6	127.8	272.4	387.3	659.7
1979	3.3	182.5	75.6	1.2	9.9	5.3	48.1	140.1	325.9	441.0	767.0
1980	**5.0**	**206.9**	**77.0**	**1.1**	**11.1**	**11.7**	**66.5**	**167.4**	**379.3**	**475.1**	**854.4**
1981	7.8	240.8	53.3	0.4	9.9	12.9	2.9	79.3	327.9	528.2	856.1
1982	12.6	300.1	64.5	0.7	11.2	11.7	3.2	91.3	403.9	604.3	1,008.2
1983	14.4	338.2	114.6	14.8	14.5	17.2	34.6	195.6	548.2	587.4	1,135.6
1984	14.2	375.5	125.6	10.0	11.5	15.6	20.5	183.4	573.1	691.5	1,264.6
1985	**12.1**	**350.9**	**93.1**	**5.2**	**[R] 13.5**	**16.3**	**10.7**	**[R] 138.9**	**[R] 501.9**	**732.3**	**[R] 1,234.3**
1986	12.1	320.3	38.8	3.4	[R] 13.9	16.6	4.0	[R] 76.7	[R] 409.1	813.0	[R] 1,222.1
1987	11.0	288.8	34.1	1.4	[R] 15.2	16.8	4.6	[R] 72.1	[R] 371.9	841.8	[R] 1,213.7
1988	13.7	329.9	29.1	2.0	[R] 17.1	16.5	3.1	[R] 67.8	[R] 411.3	1,004.0	[R] 1,415.3
1989	11.0	351.9	29.9	1.2	[R] 21.8	17.1	5.1	[R] 75.1	[R] 438.0	984.0	[R] 1,422.0
1990	**11.6**	**309.2**	**33.1**	**1.3**	**[R] 22.0**	**25.6**	**1.0**	**[R] 83.0**	**[R] 403.8**	**[R] 987.3**	**[R] 1,391.1**
1991	9.1	315.2	33.7	1.4	[R] 22.5	16.0	3.1	[R] 76.5	[R] 400.8	[R] 1,024.0	[R] 1,424.9
1992	8.2	332.3	38.1	1.8	[R] 19.4	14.5	0.3	[R] 74.0	[R] 414.6	1,014.1	[R] 1,428.7
1993	6.7	389.5	41.8	1.5	[R] 23.3	12.3	0.5	[R] 79.4	[R] 475.6	[R] 1,037.4	[R] 1,512.9
1994	7.2	404.1	37.7	2.0	[R] 19.3	11.2	0.6	[R] 70.7	[R] 482.1	1,080.0	[R] 1,562.0
1995	**5.9**	**362.3**	**29.2**	**2.1**	**19.7**	**7.8**	**0.5**	**59.3**	**427.6**	**1,120.8**	**1,548.4**

[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.
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 98. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Indiana

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**0.44**	**0.52**	**0.47**	**0.47**	**0.76**	**0.74**	**0.81**	**1.28**	**5.08**	**2.98**	**0.50**	**[R] 0.82**	**[R] 1.06**	**—**	**0.58**	**3.52**	**0.75**
1971	0.55	0.43	0.52	0.51	0.86	0.77	0.83	1.36	5.27	3.01	0.59	[R] 0.86	[R] 1.02	—	0.63	3.59	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	[R] 0.85	[R] 1.03	—	0.67	3.88	[R] 0.88
1973	0.69	0.59	0.66	0.59	0.88	1.04	1.13	1.43	5.33	3.14	0.75	[R] 0.91	[R] 1.16	—	0.75	3.99	0.98
1974	1.38	0.98	1.30	0.70	1.81	2.18	2.36	2.54	7.22	4.47	1.83	[R] 1.49	[R] 2.18	—	1.33	4.54	[R] 1.58
1975	**1.76**	**1.36**	**1.68**	**0.91**	**2.05**	**2.24**	**2.41**	**2.63**	**7.48**	**4.75**	**1.86**	**[R] 2.01**	**[R] 2.32**	**—**	**1.64**	**5.67**	**2.01**
1976	1.52	1.16	1.44	1.09	2.00	2.28	2.46	2.76	7.05	4.92	1.80	[R] 2.06	[R] 2.30	—	1.59	6.24	[R] 2.09
1977	1.69	1.28	1.59	1.49	2.05	2.66	2.89	3.40	6.97	5.21	2.05	[R] 2.36	[R] 2.59	—	1.85	7.69	[R] 2.49
1978	2.02	1.46	1.84	1.71	2.14	2.77	3.03	3.96	7.60	5.38	2.22	[R] 2.35	[R] 2.73	—	2.06	9.11	2.82
1979	1.88	1.47	1.75	2.19	2.56	3.74	4.05	3.93	10.21	7.25	2.76	[R] 3.17	[R] 3.41	—	2.26	9.71	[R] 3.05
1980	**2.13**	**1.58**	**1.99**	**2.63**	**3.72**	**5.57**	**6.14**	**5.10**	**14.36**	**10.00**	**3.43**	**[R] 4.86**	**[R] 4.80**	**—**	**2.76**	**11.00**	**3.67**
1981	2.50	1.68	2.29	3.06	5.55	6.44	7.03	4.65	18.00	11.05	4.45	[R] 7.18	[R] 6.42	—	3.34	12.08	[R] 4.26
1982	2.59	1.50	2.24	3.70	4.35	6.52	7.20	6.10	17.25	10.46	4.11	[R] 6.14	[R] 6.03	—	3.49	14.00	[R] 4.74
1983	2.45	1.43	2.13	4.34	4.42	6.64	7.01	6.65	16.98	9.12	4.22	[R] 5.49	[R] 6.06	—	[R] 3.50	13.97	[R] 4.85
1984	2.30	1.51	2.06	4.23	4.65	6.53	7.24	6.61	17.63	8.74	4.55	[R] 5.49	[R] 6.26	—	[R] 3.46	14.37	[R] 4.71
1985	**2.24**	**1.60**	**2.04**	**4.04**	**4.81**	**6.15**	**6.82**	**[R] 9.09**	**17.61**	**8.85**	**4.40**	**[R] 5.21**	**[R] 6.19**	**—**	**[R] 3.38**	**14.54**	**[R] 4.85**
1986	2.05	1.53	1.87	3.79	3.94	3.97	4.41	[R] 8.32	15.59	6.48	2.61	[R] 3.35	[R] 4.59	—	[R] 3.00	15.13	[R] 4.68
1987	1.92	1.38	1.75	3.38	3.30	4.45	4.94	[R] 7.93	[R] 13.58	6.90	2.61	[R] 3.79	[R] 4.45	—	2.78	13.35	4.23
1988	2.02	1.47	1.87	3.69	3.33	3.99	4.43	[R] 7.81	[R] 14.62	6.94	2.08	[R] 3.22	[R] 4.30	—	[R] 2.84	12.43	[R] 4.11
1989	1.92	1.46	1.79	3.83	3.03	4.70	5.22	[R] 8.20	14.48	7.60	2.31	[R] 3.77	[R] 4.62	—	2.93	11.98	[R] 4.18
1990	**1.84**	**1.44**	**1.72**	**3.57**	**3.14**	**5.89**	**6.54**	**[R] 9.83**	**14.60**	**8.74**	**2.64**	**[R] 4.39**	**[R] 5.17**	**[d] [R] 1.68**	**[d] 3.04**	**11.94**	**[d] [R] 4.29**
1991	1.99	1.44	1.82	3.48	3.14	5.02	5.57	[R] 10.09	[R] 16.80	8.60	2.38	[R] 4.53	[R] 5.27	1.69	[R] 3.12	11.83	4.38
1992	2.00	1.38	1.79	3.35	2.62	4.91	5.44	[R] 8.85	[R] 18.32	8.28	2.47	[R] 4.45	[R] 4.80	[R] 1.68	3.01	11.73	[R] 4.35
1993	1.95	1.35	1.73	3.66	3.07	4.81	5.33	[R] 9.71	[R] 18.96	8.11	2.16	[R] 4.00	[R] 4.72	[R] 1.68	[R] 3.13	11.38	[R] 4.43
1994	1.90	1.39	1.68	4.54	3.06	4.66	5.17	[R] 7.14	[R] 19.11	8.21	2.21	[R] 4.04	[R] 4.50	[R] 1.68	[R] 3.54	11.64	[R] 4.92
1995	**1.97**	**1.44**	**1.76**	**3.37**	**3.26**	**4.81**	**5.33**	**7.49**	**19.40**	**8.52**	**2.49**	**4.28**	**4.99**	**1.62**	**3.09**	**11.54**	**4.54**
	Expenditures in Million Nominal Dollars																
1970	**151.8**	**76.9**	**228.6**	**123.9**	**30.7**	**43.8**	**0.5**	**6.9**	**30.0**	**35.0**	**8.2**	**[R] 25.6**	**[R] 180.7**	**—**	**[R] 533.3**	**209.0**	**[R] 742.3**
1971	168.7	51.6	220.4	140.2	45.3	46.5	0.5	7.3	32.6	26.6	24.8	[R] 27.0	[R] 210.5	—	[R] 571.1	227.0	[R] 798.1
1972	215.9	80.7	296.6	157.7	40.9	47.0	0.3	8.8	36.9	24.2	24.6	[R] 28.3	[R] 211.1	—	[R] 665.4	268.0	[R] 933.4
1973	260.6	73.7	334.3	167.0	50.5	64.0	0.4	11.8	43.2	24.3	34.1	[R] 34.2	[R] 262.5	—	[R] 763.8	310.4	[R] 1,074.2
1974	523.1	101.2	624.3	188.2	99.0	121.0	0.8	29.5	56.2	36.2	89.5	[R] 54.8	[R] 487.0	—	[R] 1,299.5	361.4	[R] 1,660.9
1975	**651.7**	**125.1**	**776.8**	**198.3**	**82.5**	**121.5**	**0.8**	**41.0**	**38.2**	**31.5**	**84.2**	**[R] 73.8**	**[R] 473.5**	**—**	**[R] 1,448.6**	**510.8**	**[R] 1,959.4**
1976	503.6	110.7	614.3	210.7	71.1	133.7	1.3	63.0	40.0	29.7	124.7	[R] 63.8	[R] 527.3	—	[R] 1,352.2	635.3	[R] 1,987.4
1977	595.4	136.4	731.9	259.5	83.6	154.8	1.2	101.0	46.3	22.9	148.2	[R] 77.2	[R] 635.3	—	[R] 1,626.6	824.8	[R] 2,451.4
1978	627.5	209.7	837.1	325.4	119.9	163.1	1.5	89.4	54.2	30.5	150.0	[R] 75.8	[R] 684.2	—	[R] 1,846.7	983.6	[R] 2,830.3
1979	635.2	214.0	849.2	514.3	130.5	164.6	4.9	66.3	76.2	39.9	192.2	[R] 100.2	[R] 774.7	—	[R] 2,138.2	1,085.9	[R] 3,224.1
1980	**684.0**	**161.6**	**845.6**	**615.0**	**127.5**	**162.6**	**4.7**	**70.8**	**95.5**	**39.5**	**190.3**	**[R] 149.6**	**[R] 840.5**	**—**	**[R] 2,301.1**	**1,138.6**	**[R] 3,439.6**
1981	823.4	197.0	1,020.3	729.2	213.7	217.6	6.5	53.3	114.8	47.0	161.3	[R] 295.3	[R] 1,109.5	—	[R] 2,859.0	1,222.5	[R] 4,081.5
1982	575.4	159.7	735.1	804.4	156.0	202.6	9.4	70.6	100.3	33.6	86.6	[R] 205.3	[R] 864.3	—	[R] 2,403.8	1,303.9	[R] 3,707.7
1983	598.3	158.4	756.6	871.4	169.6	165.9	9.2	63.4	103.4	24.3	31.9	[R] 184.8	[R] 752.6	—	[R] 2,380.6	1,412.4	[R] 3,793.0
1984	582.9	170.2	753.0	906.4	185.1	176.4	9.5	43.8	114.5	44.3	19.1	[R] 186.0	[R] 778.7	—	[R] 2,438.1	1,310.5	[R] 3,748.6
1985	**560.1**	**183.9**	**744.0**	**829.5**	**170.2**	**160.8**	**5.1**	**[R] 65.2**	**106.5**	**41.9**	**46.2**	**[R] 179.4**	**[R] 775.3**	**—**	**[R] 2,348.8**	**1,539.1**	**[R] 3,887.9**
1986	429.4	170.7	600.2	677.9	158.5	123.8	5.0	[R] 86.6	92.2	28.3	39.9	[R] 96.3	[R] 630.7	—	[R] 1,908.7	1,554.2	[R] 3,462.9
1987	454.8	155.0	609.8	658.8	166.4	147.1	4.1	[R] 69.7	[R] 90.8	30.3	36.9	[R] 106.4	[R] 651.8	—	[R] 1,920.4	1,462.6	[R] 3,383.0
1988	561.8	158.4	720.2	789.2	153.5	98.8	2.9	[R] 72.9	94.3	29.3	24.5	[R] 94.8	[R] 570.9	—	[R] 2,080.3	1,382.9	[R] 3,463.2
1989	502.0	155.7	657.8	823.2	128.4	131.8	2.3	[R] 90.2	95.8	30.2	27.0	[R] 107.6	[R] 613.4	—	[R] 2,094.4	1,384.8	[R] 3,479.2
1990	**437.9**	**151.6**	**589.5**	**793.3**	**178.1**	**156.2**	**2.0**	**[R] 179.9**	**99.4**	**28.5**	**43.2**	**[R] 135.6**	**[R] 823.0**	**[d] [R] 4.2**	**[d] [R] 2,209.9**	**[R] 1,419.5**	**[d] [R] 3,629.4**
1991	438.9	145.4	584.3	764.3	146.8	155.7	1.5	[R] 185.7	102.3	32.0	26.6	[R] 186.0	[R] 836.7	4.4	[R] 2,189.7	[R] 1,407.5	[R] 3,597.2
1992	384.2	134.6	518.8	795.7	108.0	156.7	1.7	[R] 89.5	[R] 113.7	27.8	37.5	[R] 192.8	[R] 727.7	[R] 4.1	[R] 2,046.3	[R] 1,460.3	[R] 3,506.6
1993	344.6	141.6	486.3	930.8	193.6	133.0	1.4	[R] 110.0	[R] 119.9	31.5	22.8	[R] 171.2	[R] 783.2	[R] 4.2	[R] 2,204.5	[R] 1,490.1	[R] 3,694.6
1994	246.4	133.0	379.4	1,185.5	207.8	139.6	2.6	[R] 63.5	[R] 126.3	36.1	24.1	[R] 171.5	[R] 771.4	[R] 4.3	[R] 2,340.7	[R] 1,577.6	[R] 3,918.3
1995	**310.2**	**144.9**	**455.1**	**896.6**	**153.1**	**143.8**	**1.4**	**59.3**	**126.0**	**38.0**	**12.8**	**175.3**	**709.7**	**4.7**	**2,066.1**	**1,603.9**	**3,669.9**

[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 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 99. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Indiana

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.52**	**—**	**2.17**	**1.23**	**0.74**	**1.28**	**5.08**	**2.98**	**0.65**	**2.67**	**2.66**	**—**	**2.66**
1971	0.43	—	2.21	1.23	0.78	1.36	5.27	3.01	0.67	2.69	2.69	—	2.69
1972	0.58	—	2.19	1.28	0.78	1.37	5.58	2.84	0.65	2.54	2.53	—	2.53
1973	0.59	—	2.36	1.61	0.92	1.43	5.33	3.14	0.67	2.83	2.83	—	2.83
1974	0.98	—	3.23	2.65	1.59	2.54	7.22	4.47	1.44	4.09	4.09	—	4.09
1975	**1.36**	**—**	**3.45**	**2.69**	**2.08**	**2.63**	**7.48**	**4.75**	**1.53**	**4.35**	**4.35**	**—**	**4.35**
1976	1.16	—	3.59	2.81	2.35	2.76	7.05	4.92	1.90	4.50	4.50	—	4.50
1977	1.28	—	3.97	3.36	2.66	3.40	6.97	5.21	2.26	4.81	4.81	—	4.81
1978	—	—	4.29	3.37	2.87	3.96	7.60	5.38	2.24	5.00	5.00	—	5.00
1979	—	—	5.73	5.02	3.92	3.93	10.21	7.25	3.10	6.67	6.67	—	6.67
1980	**—**	**—**	**9.02**	**7.17**	**6.38**	**5.10**	**14.36**	**10.00**	**3.87**	**9.25**	**9.25**	**—**	**9.25**
1981	—	—	10.84	8.63	7.55	4.65	18.00	11.05	5.43	10.41	10.41	—	10.41
1982	—	—	10.92	8.30	7.22	6.10	17.25	10.46	5.14	9.81	9.81	—	9.81
1983	—	—	10.44	8.17	6.42	6.65	16.98	9.12	4.82	8.80	8.80	—	8.80
1984	—	—	10.27	8.18	6.14	6.61	17.63	8.74	5.00	8.23	8.23	—	8.23
1985	**—**	**—**	**9.99**	**8.28**	**5.81**	**[R] 9.09**	**17.61**	**8.85**	**4.85**	**8.27**	**8.27**	**—**	**8.27**
1986	—	—	8.41	6.46	3.80	[R] 8.32	15.59	6.48	3.25	6.03	6.03	—	6.03
1987	—	—	7.55	6.76	3.96	[R] 7.93	[R] 13.58	6.90	3.22	6.35	6.35	—	6.35
1988	—	—	7.41	6.31	3.74	[R] 7.81	[R] 14.62	6.94	2.37	6.31	6.31	—	6.31
1989	—	—	8.28	6.89	4.33	[R] 8.20	14.48	7.60	2.66	6.89	6.89	—	6.89
1990	**—**	**2.64**	**9.32**	**8.00**	**5.62**	**[R] 9.83**	**14.60**	**8.74**	**2.80**	**8.03**	**8.03**	**[R] 23.68**	**[R] 8.04**
1991	—	4.64	8.71	7.71	4.76	[R] 10.09	[R] 16.80	8.60	2.29	7.76	7.76	[R] 23.19	7.76
1992	—	4.20	8.54	7.46	4.41	[R] 8.85	[R] 18.32	8.28	2.41	[R] 7.51	[R] 7.51	[R] 24.01	[R] 7.51
1993	—	5.16	8.24	7.42	4.10	[R] 9.71	[R] 18.96	8.11	2.42	7.35	7.35	[R] 26.37	[R] 7.36
1994	—	5.05	7.96	7.54	3.82	[R] 9.11	[R] 19.11	8.21	[R] 2.59	7.39	7.39	[R] 26.44	7.39
1995	**—**	**7.05**	**8.36**	**7.54**	**3.85**	**9.46**	**19.40**	**8.52**	**2.72**	**7.60**	**7.60**	**26.71**	**7.60**
	Expenditures in Million Nominal Dollars												
1970	**0.4**	**—**	**4.0**	**58.1**	**10.6**	**0.5**	**18.8**	**882.2**	**1.3**	**975.5**	**975.9**	**—**	**975.9**
1971	0.2	—	3.9	61.0	11.7	0.6	19.4	921.6	1.0	1,019.3	1,019.6	—	1,019.6
1972	0.3	—	3.2	82.7	12.2	0.6	22.0	919.9	0.7	1,041.4	1,041.7	—	1,041.7
1973	0.2	—	3.3	109.2	14.7	0.7	23.4	1,063.5	0.5	1,215.4	1,215.5	—	1,215.5
1974	0.2	—	4.9	176.8	22.9	1.2	30.4	1,470.2	2.6	1,709.1	1,709.3	—	1,709.3
1975	**0.1**	**—**	**3.8**	**175.3**	**30.4**	**1.2**	**34.6**	**1,579.7**	**3.2**	**1,828.1**	**1,828.2**	**—**	**1,828.2**
1976	(s)	—	4.6	197.5	34.4	1.5	36.2	1,705.9	3.7	1,984.0	1,984.0	—	1,984.0
1977	(s)	—	5.3	259.2	39.4	2.0	29.3	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	2,294.2	2,294.2	—	2,294.2
1979	—	—	7.4	514.3	55.9	1.9	48.1	2,445.7	2.5	3,075.9	3,075.9	—	3,075.9
1980	**—**	**—**	**11.8**	**736.5**	**76.5**	**1.6**	**60.3**	**3,111.7**	**4.9**	**4,003.3**	**4,003.3**	**—**	**4,003.3**
1981	—	—	10.3	861.4	120.2	3.0	72.5	3,491.4	6.5	4,565.3	4,565.3	—	4,565.3
1982	—	—	7.1	837.4	176.9	3.3	63.3	3,058.1	0.8	4,146.9	4,146.9	—	4,146.9
1983	—	—	7.9	834.9	158.6	3.9	65.3	2,710.0	2.8	3,783.5	3,783.5	—	3,783.5
1984	—	—	13.0	963.8	536.5	5.2	72.3	2,605.2	5.1	4,201.1	4,201.1	—	4,201.1
1985	**—**	**—**	**19.8**	**996.8**	**507.4**	**[R] 4.8**	**67.3**	**2,636.0**	**0.9**	**[R] 4,233.1**	**[R] 4,233.1**	**—**	**[R] 4,233.1**
1986	—	—	18.4	805.0	400.2	[R] 4.4	58.2	1,998.6	1.0	[R] 3,285.8	[R] 3,285.8	—	[R] 3,285.8
1987	—	—	14.4	844.2	428.4	[R] 3.8	[R] 57.3	2,242.6	2.3	[R] 3,592.9	[R] 3,592.9	—	[R] 3,592.9
1988	—	—	16.2	734.3	350.1	[R] 4.3	59.5	2,294.2	2.3	[R] 3,460.8	[R] 3,460.8	—	[R] 3,460.8
1989	—	—	12.0	981.3	429.8	[R] 4.6	60.5	2,413.4	3.5	[R] 3,905.1	[R] 3,905.1	—	[R] 3,905.1
1990	**—**	**0.1**	**14.2**	**1,163.3**	**569.3**	**[R] 5.5**	**62.7**	**2,772.9**	**3.5**	**[R] 4,591.5**	**[R] 4,591.6**	**0.9**	**[R] 4,592.5**
1991	—	0.2	13.3	1,060.6	463.5	[R] 5.8	64.6	2,721.6	1.3	[R] 4,330.6	[R] 4,330.9	0.8	[R] 4,331.7
1992	—	0.3	10.9	995.2	399.7	[R] 5.2	[R] 71.8	2,654.9	3.1	[R] 4,140.8	[R] 4,141.1	0.9	[R] 4,142.0
1993	—	0.3	8.4	1,046.9	380.3	[R] 4.5	[R] 75.7	2,745.5	5.2	[R] 4,266.3	[R] 4,266.5	1.0	[R] 4,267.6
1994	—	0.3	6.0	1,181.5	374.5	[R] 7.7	[R] 79.7	2,794.0	3.7	[R] 4,447.2	[R] 4,447.5	1.0	[R] 4,448.5
1995	**—**	**0.7**	**6.1**	**1,188.8**	**378.8**	**3.6**	**79.5**	**3,092.7**	**4.1**	**4,753.5**	**4,754.2**	**1.0**	**4,755.2**

[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.
(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 100. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Indiana

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.25**	**0.35**	**0.75**	**0.77**	**0.24**	**0.58**	**—**	**—**	**0.26**
1971	0.28	0.38	0.78	0.81	0.26	0.68	—	—	0.29
1972	0.31	0.42	0.78	0.80	0.27	0.70	—	—	0.32
1973	0.34	0.47	0.74	1.01	0.29	0.59	—	—	0.34
1974	0.46	0.56	1.61	1.74	0.29	1.38	—	—	0.50
1975	**0.59**	**0.82**	**1.74**	**2.12**	**—**	**1.83**	**—**	**—**	**0.62**
1976	0.68	1.09	2.11	2.01	—	2.08	—	—	0.70
1977	0.81	1.33	2.52	2.37	—	2.48	—	—	0.85
1978	1.11	1.66	2.57	2.66	—	2.59	—	—	1.17
1979	1.17	2.19	3.44	3.84	—	3.58	—	—	1.20
1980	**1.27**	**2.51**	**—**	**5.99**	**—**	**5.99**	**—**	**—**	**1.30**
1981	1.48	3.00	—	7.59	—	7.59	—	—	1.52
1982	1.60	3.55	—	6.88	—	6.88	—	—	1.64
1983	1.57	4.24	—	6.06	—	6.06	—	—	1.59
1984	1.61	4.13	—	6.05	—	6.05	—	—	1.62
1985	**1.64**	**4.15**	**—**	**5.87**	**—**	**5.87**	**—**	**—**	**1.66**
1986	1.58	4.54	—	3.89	0.80	2.55	—	—	1.59
1987	1.47	2.82	—	4.12	0.99	2.71	—	—	1.47
1988	1.43	2.59	—	3.63	0.93	2.37	—	—	1.44
1989	1.36	2.70	—	4.22	0.74	2.30	—	—	1.37
1990	**1.36**	**2.58**	**—**	**5.12**	**0.71**	**2.03**	**—**	**—**	**1.38**
1991	1.34	2.38	—	4.94	0.81	2.86	—	—	1.36
1992	1.31	2.48	—	4.43	0.69	2.41	—	—	1.32
1993	1.27	2.74	—	4.21	—	4.21	—	—	1.28
1994	1.27	2.66	—	3.90	—	3.90	—	—	1.29
1995	**1.26**	**2.44**	**—**	**4.01**	**0.69**	**3.35**	**—**	**—**	**1.27**
	Expenditures in Million Nominal Dollars								
1970	**123.7**	**10.3**	**1.0**	**1.2**	**0.4**	**2.5**	**—**	**—**	**136.5**
1971	140.1	12.2	2.1	1.2	0.3	3.6	—	—	155.9
1972	164.7	7.7	3.3	1.5	0.3	5.0	—	—	177.4
1973	196.8	4.8	3.7	1.0	1.1	5.8	—	—	207.3
1974	251.8	7.8	25.0	2.7	1.1	28.8	—	—	288.4
1975	**343.1**	**9.0**	**14.7**	**5.9**	**—**	**20.6**	**—**	**—**	**372.6**
1976	420.0	3.4	15.5	4.9	—	20.4	—	—	443.8
1977	518.8	1.4	26.2	8.9	—	35.1	—	—	555.3
1978	683.2	5.2	52.5	12.9	—	65.4	—	—	753.8
1979	796.8	6.1	19.6	12.1	—	31.7	—	—	834.6
1980	**921.2**	**4.8**	**—**	**25.4**	**—**	**25.4**	**—**	**—**	**951.4**
1981	1,028.5	15.9	—	32.8	—	32.8	—	—	1,077.3
1982	1,067.6	9.6	—	21.0	—	21.0	—	—	1,098.3
1983	1,149.6	12.2	—	12.6	—	12.6	—	—	1,174.4
1984	1,333.8	6.0	—	10.8	—	10.8	—	—	1,350.6
1985	**1,340.7**	**4.7**	**—**	**14.2**	**—**	**14.2**	**—**	**—**	**1,359.6**
1986	1,257.4	5.0	—	7.3	1.2	8.5	—	—	1,270.9
1987	1,180.5	3.7	—	8.5	1.7	10.1	—	—	1,194.4
1988	1,243.0	9.0	—	8.0	1.8	9.8	—	—	1,261.8
1989	1,232.3	11.0	—	9.1	2.0	11.1	—	—	1,254.3
1990	**1,371.0**	**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	1,309.0	19.3	—	6.8	1.3	8.1	—	—	1,336.4
1993	1,305.3	15.7	—	9.6	—	9.6	—	—	1,330.6
1994	1,354.8	24.5	—	9.3	—	9.3	—	—	1,388.7
1995	**1,351.6**	**20.8**	**—**	**8.0**	**0.3**	**8.3**	**—**	**—**	**1,380.8**

[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 101. Energy Price and Expenditure Estimates by Source, 1970-1995, Iowa

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	**—**	**0.36**	**0.36**	**0.57**	**1.01**	**0.75**	**1.59**	**2.83**	**0.61**	**1.58**	**2.11**	**—**	**0.65**	**1.19**	**0.30**	**6.39**	**1.80**
1971	—	0.40	0.40	0.61	1.06	0.78	1.57	2.90	0.72	1.53	2.16	—	0.69	1.27	0.36	6.57	1.90
1972	—	0.41	0.41	0.70	1.08	0.78	1.67	2.98	0.76	1.63	2.22	—	0.72	1.32	0.40	6.79	2.00
1973	—	0.48	0.48	0.73	1.36	0.93	2.55	3.08	0.83	1.81	2.48	—	0.77	1.46	0.45	6.92	2.14
1974	—	0.69	0.69	0.80	2.31	1.60	2.99	4.10	1.72	2.85	3.39	0.19	0.84	1.89	0.57	7.64	2.70
1975	**—**	**0.95**	**0.95**	**1.00**	**2.45**	**2.09**	**3.00**	**4.59**	**1.88**	**3.18**	**3.74**	**0.25**	**0.92**	**2.16**	**0.75**	**9.11**	**3.12**
1976	—	0.98	0.98	1.23	2.68	2.26	3.18	4.83	1.81	3.18	3.88	0.25	0.98	2.37	0.83	9.87	3.41
1977	—	1.08	1.08	1.59	3.04	2.69	3.74	5.18	2.04	3.33	4.23	0.27	1.04	2.68	0.96	10.80	3.89
1978	—	1.24	1.24	1.93	3.13	2.90	3.96	5.42	1.98	3.51	4.41	0.34	1.12	2.96	1.19	11.34	4.31
1979	—	1.29	1.29	2.29	4.46	4.03	4.49	7.24	2.42	4.55	5.70	0.32	—	3.56	1.16	12.55	5.08
1980	**—**	**1.42**	**1.42**	**2.79**	**6.41**	**6.47**	**5.57**	**9.97**	**3.19**	**7.31**	**8.19**	**0.39**	**1.74**	**4.60**	**1.32**	**13.97**	**6.72**
1981	—	1.54	1.54	3.42	7.50	7.60	5.88	11.07	3.81	8.93	9.36	0.53	1.24	5.12	1.44	15.92	7.79
1982	—	1.62	1.62	4.19	7.32	7.19	6.09	10.62	3.66	8.00	8.86	0.54	1.28	5.25	1.50	17.36	8.09
1983	—	1.64	1.64	4.76	6.94	6.73	6.81	9.49	3.73	8.20	8.34	0.68	1.12	5.08	1.56	18.43	8.29
1984	—	1.56	1.56	4.71	6.96	6.55	6.44	9.34	4.99	8.33	8.30	0.79	1.28	4.98	1.48	18.87	8.12
1985	**—**	**1.52**	**1.52**	**4.60**	**6.53**	**6.28**	**[R] 7.54**	**9.47**	**4.07**	**7.98**	**[R] 8.27**	**0.94**	**0.79**	**4.91**	**1.46**	**19.02**	**[R] 8.09**
1986	—	1.41	1.41	4.22	5.50	4.36	[R] 7.44	7.13	2.86	6.52	[R] 6.57	0.75	0.32	[R] 4.10	1.31	19.25	[R] 7.30
1987	—	1.31	1.31	3.63	5.93	4.27	[R] 6.00	7.36	2.48	[R] 6.45	[R] 6.72	0.71	0.95	[R] 3.87	1.21	18.30	[R] 7.07
1988	—	1.28	1.28	3.80	5.64	4.12	[R] 5.94	7.37	2.38	6.02	[R] 6.59	0.68	0.87	[R] 3.81	1.19	17.59	[R] 6.90
1989	—	1.25	1.25	3.57	6.46	4.57	[R] 6.95	8.40	2.25	6.36	[R] 7.52	0.67	1.47	4.01	1.18	17.30	7.16
1990	**—**	**1.16**	**1.16**	**3.81**	**7.65**	**6.11**	**[R] 5.97**	**9.38**	**2.36**	**6.82**	**[R] 8.37**	**0.66**	**[d R] 3.05**	**[d R] 4.27**	**1.10**	**17.37**	**[d] 7.68**
1991	—	1.15	1.15	3.65	6.98	5.21	[R] 7.62	9.11	2.24	7.32	[R] 8.20	0.66	[R] 3.06	4.07	1.07	17.41	[R] 7.48
1992	—	1.14	1.14	4.24	6.69	4.78	[R] 7.64	8.72	2.21	[R] 7.89	[R] 7.89	0.56	[R] 3.10	4.25	1.06	17.53	7.62
1993	—	1.07	1.07	4.49	6.58	4.52	[R] 8.61	8.42	2.18	8.17	[R] 7.85	0.60	[R] 2.99	[R] 4.36	1.00	[R] 17.49	[R] 7.74
1994	—	1.06	1.06	4.51	6.59	4.26	[R] 7.14	8.71	2.10	[R] 7.39	[R] 7.69	0.66	[R] 2.88	[R] 4.32	0.97	17.36	[R] 7.67
1995	**—**	**1.06**	**1.06**	**3.99**	**6.61**	**4.22**	**7.39**	**8.69**	**2.38**	**8.13**	**7.76**	**0.74**	**2.90**	**4.19**	**0.98**	**17.68**	**7.56**
	Expenditures in Million Nominal Dollars																
1970	**—**	**47.5**	**47.5**	**190.2**	**80.7**	**3.0**	**66.2**	**530.1**	**1.5**	**49.0**	**730.5**	**—**	**0.3**	**968.4**	**-50.4**	**337.5**	**1,255.5**
1971	—	49.6	49.6	201.0	87.7	2.9	66.1	569.1	1.9	49.9	777.5	—	0.3	1,028.5	-59.0	368.3	1,337.7
1972	—	59.9	59.9	230.0	93.9	3.2	78.8	601.2	2.4	53.8	833.3	—	0.3	1,123.5	-70.0	412.6	1,466.1
1973	—	71.1	71.1	257.7	122.8	3.7	121.4	680.8	3.0	56.3	988.0	—	0.4	1,317.2	-80.5	451.0	1,687.7
1974	—	88.5	88.5	283.1	199.6	6.7	149.3	836.7	7.6	86.6	1,286.4	2.9	0.3	1,661.1	-100.6	508.2	2,068.7
1975	**—**	**125.4**	**125.4**	**332.4**	**207.6**	**9.8**	**152.2**	**942.1**	**7.2**	**84.6**	**1,403.5**	**6.3**	**0.4**	**1,868.0**	**-132.5**	**624.4**	**2,359.9**
1976	—	165.2	165.2	375.8	235.2	12.3	219.2	1,033.7	10.6	127.5	1,638.5	7.0	0.4	2,186.9	-162.4	709.9	2,734.4
1977	—	200.1	200.1	437.4	283.1	15.2	245.8	1,122.0	14.0	147.9	1,827.9	8.4	0.2	2,474.0	-194.8	824.0	3,103.2
1978	—	250.1	250.1	451.2	308.6	18.4	228.0	1,165.3	11.5	170.3	1,902.1	4.5	0.1	2,608.0	-232.1	926.5	3,302.4
1979	—	283.8	283.8	644.0	538.6	23.6	242.5	1,465.1	18.5	250.3	2,538.6	9.9	—	3,476.3	-258.0	1,045.3	4,263.6
1980	**—**	**333.3**	**333.3**	**719.9**	**594.5**	**29.6**	**228.5**	**1,853.2**	**8.3**	**315.3**	**3,029.5**	**10.9**	**0.5**	**4,094.1**	**-313.1**	**1,184.5**	**4,965.5**
1981	—	388.0	388.0	831.7	633.8	30.6	212.0	1,993.7	2.4	283.4	3,155.9	12.9	0.2	4,388.6	-352.6	1,433.5	5,469.5
1982	—	394.5	394.5	963.8	692.1	25.6	263.0	1,843.2	7.7	227.3	3,058.9	13.5	0.3	4,431.1	-356.0	1,561.9	5,637.0
1983	—	415.2	415.2	1,025.3	569.6	22.3	295.9	1,615.3	4.9	198.9	2,706.8	17.0	0.5	4,164.9	-387.6	1,745.1	5,522.4
1984	—	392.7	392.7	1,071.6	622.8	22.5	170.1	1,580.8	4.4	220.5	2,621.1	23.0	0.6	4,108.9	-367.3	1,653.2	5,394.8
1985	**—**	**407.9**	**407.9**	**1,003.4**	**588.8**	**20.9**	**[R] 231.0**	**1,565.7**	**4.7**	**213.6**	**[R] 2,624.6**	**19.6**	**0.5**	**[R] 4,056.0**	**-366.7**	**1,666.6**	**[R] 5,355.9**
1986	—	370.6	370.6	851.8	510.9	14.5	[R] 237.5	1,174.7	9.1	150.1	[R] 2,096.9	24.4	0.2	[R] 3,343.9	-335.2	1,731.1	[R] 4,739.9
1987	—	375.2	375.2	713.4	544.8	18.7	[R] 133.9	1,222.9	1.8	[R] 139.7	[R] 2,061.8	19.3	0.7	[R] 3,170.4	-326.2	1,687.4	[R] 4,531.6
1988	—	390.6	390.6	874.1	524.2	16.5	[R] 143.4	1,260.5	3.9	146.7	[R] 2,095.2	23.0	0.5	[R] 3,383.4	-354.1	1,731.0	[R] 4,760.4
1989	—	397.8	397.8	777.2	562.6	19.3	[R] 183.7	1,435.8	2.6	131.2	[R] 2,335.2	22.6	0.4	[R] 3,533.1	-350.2	1,695.0	[R] 4,877.9
1990	**—**	**386.2**	**386.2**	**803.0**	**678.4**	**30.7**	**[R] 137.6**	**1,552.2**	**1.9**	**136.4**	**[R] 2,537.2**	**21.3**	**[d R] 9.2**	**[d R] 3,756.9**	**-340.8**	**[R] 1,744.6**	**[d R] 5,160.7**
1991	—	397.9	397.9	833.2	594.0	26.1	[R] 199.8	1,552.9	1.4	134.6	[R] 2,508.7	29.2	9.7	[R] 3,778.7	-353.3	1,829.0	[R] 5,254.4
1992	—	373.1	373.1	953.1	638.3	21.6	[R] 248.7	1,453.5	1.5	[R] 139.4	[R] 2,502.9	20.4	[R] 10.0	[R] 3,859.5	-330.5	[R] 1,807.2	[R] 5,336.2
1993	—	364.3	364.3	1,084.0	650.0	18.3	[R] 486.2	1,445.5	2.3	[R] 143.7	[R] 2,745.9	20.9	[R] 8.6	[R] 4,223.7	-328.9	[R] 1,915.5	[R] 5,810.3
1994	—	368.0	368.0	1,081.2	711.1	21.5	[R] 406.7	1,550.5	2.4	[R] 158.0	[R] 2,850.1	28.9	[R] 8.7	[R] 4,336.8	-330.2	[R] 1,957.5	[R] 5,964.1
1995	**—**	**389.4**	**389.4**	**1,008.5**	**726.5**	**25.0**	**455.2**	**1,571.3**	**1.4**	**153.9**	**2,933.4**	**29.2**	**9.5**	**4,369.9**	**-347.6**	**2,069.2**	**6,091.5**

[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 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 102. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Iowa

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.27**	**0.96**	**1.22**	**1.57**	**1.85**	**1.63**	**—**	**1.16**	**7.75**	**2.06**
1971	1.22	1.02	1.28	1.62	1.77	1.62	—	1.20	7.93	2.20
1972	1.48	1.10	1.28	1.62	1.96	1.74	—	1.30	8.26	2.33
1973	1.16	1.15	1.59	1.86	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	**3.69**	**1.42**	**2.56**	**2.99**	**3.55**	**3.25**	**—**	**1.94**	**10.46**	**3.44**
1976	2.67	1.60	2.76	3.26	3.98	3.62	—	2.20	11.40	3.88
1977	2.26	1.93	3.20	3.73	4.52	4.09	—	2.57	12.54	4.52
1978	3.23	2.25	3.30	3.96	4.50	4.06	—	2.81	12.99	5.02
1979	3.27	2.68	4.43	5.46	6.22	5.31	—	3.44	14.27	5.54
1980	**3.31**	**3.18**	**6.79**	**8.10**	**6.86**	**6.84**	**—**	**4.09**	**16.13**	**6.87**
1981	3.51	3.88	8.06	9.91	6.47	7.36	—	4.74	18.42	8.06
1982	3.84	4.66	7.90	9.91	7.20	7.68	—	5.38	19.87	8.76
1983	3.67	5.45	7.41	9.02	7.66	7.61	—	5.90	21.07	9.99
1984	3.07	5.48	7.37	9.09	7.01	7.23	—	5.75	21.90	9.81
1985	**3.41**	**5.33**	**5.94**	**7.33**	**5.62**	**5.81**	**—**	**5.38**	**22.53**	**9.65**
1986	3.12	5.07	5.32	6.57	5.51	5.46	—	5.11	22.56	9.65
1987	2.89	4.71	5.33	6.57	5.00	5.17	—	4.75	22.91	9.97
1988	2.51	4.76	4.80	5.92	5.31	5.14	—	4.76	22.23	9.51
1989	2.60	4.65	4.86	5.99	8.68	7.39	—	5.14	22.19	9.65
1990	**2.41**	**4.96**	**5.73**	**7.07**	**7.19**	**6.73**	**[d] 3.56**	**[d] 5.15**	**22.89**	**[d] 9.80**
1991	2.32	4.77	5.32	6.57	6.39	6.08	3.56	4.92	[R] 22.76	9.46
1992	2.25	5.21	5.38	6.63	6.92	6.51	3.56	5.38	[R] 23.51	[R] 9.87
1993	2.41	5.46	4.34	5.35	6.64	6.06	3.56	5.52	[R] 23.50	9.96
1994	2.35	5.36	4.91	6.05	[R] 6.90	[R] 6.33	3.56	[R] 5.50	[R] 23.72	[R] 10.14
1995	**2.31**	**5.06**	**4.94**	**6.10**	**6.94**	**6.43**	**3.56**	**5.27**	**24.14**	**10.11**
	Expenditures in Million Nominal Dollars									
1970	**1.6**	**92.9**	**15.8**	**2.9**	**47.6**	**66.4**	**—**	**160.9**	**171.3**	**332.2**
1971	1.0	94.7	14.9	2.3	45.8	62.9	—	158.7	185.4	344.1
1972	0.8	106.7	17.2	3.2	55.8	76.1	—	183.6	205.0	388.6
1973	0.6	106.8	20.5	3.9	93.5	117.8	—	225.3	221.0	446.3
1974	2.1	112.2	27.9	3.4	87.9	119.1	—	233.4	245.9	479.3
1975	**3.3**	**134.7**	**26.9**	**2.3**	**89.5**	**118.8**	**—**	**256.7**	**297.5**	**554.3**
1976	1.1	144.6	29.6	2.3	105.2	137.1	—	282.7	327.6	610.3
1977	1.2	168.2	36.0	2.8	110.7	149.6	—	319.0	378.9	697.9
1978	5.5	182.1	41.6	3.0	100.3	144.9	—	332.5	427.0	759.5
1979	7.8	257.5	85.9	7.6	115.4	208.9	—	474.2	472.4	946.6
1980	**2.1**	**271.2**	**94.5**	**2.2**	**98.0**	**194.6**	**—**	**467.9**	**552.6**	**1,020.5**
1981	5.1	299.9	94.4	13.2	84.9	192.5	—	497.5	619.2	1,116.7
1982	5.1	397.9	97.1	16.8	98.0	211.9	—	614.9	691.4	1,306.3
1983	5.3	427.1	43.8	2.8	124.1	170.6	—	603.0	795.6	1,398.5
1984	4.9	443.2	47.0	6.9	74.3	128.2	—	576.2	737.6	1,313.8
1985	**7.1**	**424.1**	**49.7**	**4.8**	**60.6**	**115.1**	**—**	**546.3**	**757.4**	**1,303.6**
1986	5.9	379.8	43.0	2.8	65.5	111.3	—	497.1	770.4	1,267.5
1987	7.1	309.9	37.8	2.1	46.1	86.1	—	403.1	785.1	1,188.2
1988	7.2	364.6	31.2	2.6	59.6	93.4	—	465.3	810.0	1,275.3
1989	3.7	363.8	30.2	1.4	107.8	139.3	—	506.9	787.0	1,293.9
1990	**5.0**	**356.2**	**26.6**	**1.0**	**71.5**	**99.1**	**[d] 7.8**	**[d] 468.1**	**[R] 821.2**	**[d R] 1,289.3**
1991	4.4	379.0	27.5	1.3	77.6	106.3	8.3	498.0	[R] 866.4	[R] 1,364.4
1992	1.2	391.6	24.4	0.8	85.3	110.4	8.7	512.0	[R] 825.3	[R] 1,337.2
1993	1.5	457.2	20.7	1.0	94.7	116.4	7.2	582.3	[R] 890.1	[R] 1,472.4
1994	0.8	422.6	27.8	0.6	[R] 98.5	[R] 127.0	7.1	[R] 557.5	[R] 895.1	[R] 1,452.6
1995	**1.8**	**418.6**	**24.3**	**0.8**	**99.6**	**124.8**	**7.8**	**553.0**	**958.7**	**1,511.7**

[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 103. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Iowa

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.41**	**0.68**	**1.05**	**0.81**	**1.16**	**2.83**	**0.66**	**1.30**	**0.77**	**7.68**	**1.80**
1971	0.45	0.73	1.10	0.84	1.25	2.90	0.74	1.38	0.82	7.89	1.92
1972	0.47	0.82	1.10	0.84	1.24	2.98	0.76	1.37	0.91	8.18	2.06
1973	0.52	0.89	1.40	1.13	1.37	3.08	0.80	1.56	0.99	8.34	2.18
1974	0.82	0.93	2.29	2.20	2.50	4.10	1.69	2.56	1.17	9.08	2.47
1975	**1.24**	**1.05**	**2.40**	**2.30**	**2.46**	**4.59**	**1.69**	**2.71**	**1.29**	**10.55**	**2.94**
1976	1.30	1.28	2.57	2.55	2.68	4.83	1.65	3.23	1.63	11.47	3.44
1977	1.32	1.64	2.99	2.78	3.28	5.18	1.99	3.82	2.09	12.31	4.06
1978	1.43	1.98	3.07	3.03	3.62	5.42	1.82	4.04	2.44	13.10	4.80
1979	1.49	2.38	4.33	4.02	3.58	7.24	2.32	5.06	2.96	14.53	5.23
1980	**1.59**	**2.84**	**6.44**	**5.52**	**4.88**	**9.97**	**3.80**	**6.57**	**3.38**	**15.93**	**6.33**
1981	1.76	3.50	7.74	6.17	5.55	11.07	4.64	7.85	4.03	18.34	8.12
1982	1.84	4.28	7.52	6.16	5.58	10.62	4.03	7.59	4.64	19.76	8.74
1983	1.69	4.97	6.37	6.82	6.30	9.49	4.08	6.70	5.15	20.98	9.66
1984	1.70	4.98	6.37	7.10	6.06	9.34	5.05	6.61	5.10	21.91	9.40
1985	**1.66**	**4.80**	**6.03**	**6.76**	**[R] 8.58**	**9.47**	**4.07**	**[R] 6.97**	**[R] 4.95**	**21.88**	**9.32**
1986	1.57	4.41	3.69	4.36	[R] 8.58	7.13	2.86	[R] 5.63	[R] 4.40	21.81	[R] 9.41
1987	1.52	3.84	4.21	4.84	[R] 6.71	7.36	2.49	[R] 5.30	[R] 3.85	19.95	[R] 8.88
1988	1.42	4.00	3.80	4.48	[R] 6.48	7.37	2.38	[R] 5.26	[R] 3.95	19.06	8.40
1989	1.35	3.86	4.44	5.07	[R] 5.42	8.40	2.25	[R] 5.45	[R] 3.93	18.63	[R] 8.47
1990	**1.34**	**4.00**	**5.44**	**6.25**	**[R] 5.05**	**9.38**	**2.36**	**[R] 5.76**	**4.00**	**[R] 18.30**	**[R] 8.62**
1991	1.31	3.96	4.83	5.56	[R] 8.68	9.11	2.24	[R] 7.45	[R] 4.35	18.24	[R] 8.68
1992	1.32	4.25	4.66	5.53	[R] 8.08	8.72	2.21	[R] 7.05	[R] 4.63	[R] 18.63	[R] 9.14
1993	1.39	4.51	4.50	5.38	[R] 9.28	8.42	2.18	[R] 7.64	[R] 4.87	[R] 18.42	[R] 9.32
1994	1.42	4.47	4.29	[R] 5.23	[R] 8.14	8.71	2.10	[R] 6.38	[R] 4.62	18.38	[R] 9.52
1995	**1.40**	**4.12**	**4.30**	**5.23**	**8.17**	**8.69**	**—**	**6.29**	**4.25**	**18.74**	**9.27**
	Expenditures in Million Nominal Dollars										
1970	**1.0**	**39.4**	**5.5**	**0.1**	**5.3**	**4.0**	**0.3**	**15.1**	**55.5**	**95.8**	**151.3**
1971	0.7	43.4	5.1	(s)	5.7	4.2	0.3	15.4	59.5	105.2	164.8
1972	0.5	51.3	5.9	0.1	6.2	4.5	0.3	17.0	68.8	116.5	185.3
1973	0.5	56.9	7.2	0.1	6.6	4.9	0.6	19.4	76.9	125.2	202.1
1974	1.2	60.1	10.5	0.1	11.1	6.6	1.8	30.2	91.5	139.1	230.6
1975	**2.0**	**71.1**	**10.1**	**0.1**	**11.0**	**7.8**	**1.2**	**30.2**	**103.3**	**184.3**	**287.6**
1976	1.0	83.8	11.1	0.1	12.5	21.1	1.7	46.4	131.2	207.1	338.2
1977	1.4	99.7	13.5	0.1	14.2	32.1	2.5	62.4	163.5	229.7	393.2
1978	4.6	97.6	15.5	0.1	14.2	33.9	1.8	65.5	167.6	255.6	423.2
1979	6.6	139.2	33.6	0.2	11.7	48.2	3.5	97.3	243.1	290.2	533.2
1980	**1.9**	**144.0**	**28.2**	**0.2**	**12.3**	**18.3**	**1.9**	**60.8**	**206.7**	**299.0**	**505.7**
1981	4.7	164.1	28.1	0.5	12.8	22.2	0.8	64.4	233.2	424.2	657.4
1982	4.4	222.3	28.3	1.3	13.4	21.3	0.7	65.0	291.6	461.8	753.4
1983	4.5	236.3	45.4	0.2	18.0	12.0	0.1	75.7	316.5	514.0	830.5
1984	5.0	242.9	49.0	0.2	11.3	10.0	0.1	70.6	318.5	469.9	788.3
1985	**6.4**	**231.3**	**39.5**	**0.3**	**[R] 16.3**	**11.8**	**(s)**	**[R] 67.9**	**[R] 305.7**	**470.8**	**[R] 776.5**
1986	5.5	194.7	14.6	(s)	[R] 18.0	10.2	0.7	[R] 43.6	[R] 243.8	487.4	[R] 731.2
1987	6.9	147.3	18.6	0.2	[R] 10.9	10.3	0.3	[R] 40.2	[R] 194.4	457.3	[R] 651.7
1988	7.2	181.2	15.2	0.1	[R] 12.8	13.1	0.3	[R] 41.6	[R] 230.0	464.0	[R] 694.0
1989	3.5	180.0	12.7	0.2	[R] 11.9	10.3	0.5	[R] 35.5	[R] 218.9	464.0	[R] 682.9
1990	**5.1**	**177.1**	**15.7**	**1.3**	**[R] 8.9**	**6.9**	**0.5**	**[R] 33.3**	**[R] 215.5**	**[R] 470.2**	**[R] 685.7**
1991	4.6	186.0	15.8	0.1	[R] 18.6	34.8	0.1	[R] 69.4	[R] 260.0	494.0	[R] 754.0
1992	1.3	196.8	13.3	0.1	[R] 17.6	29.6	0.5	[R] 61.0	[R] 259.2	[R] 494.7	[R] 753.9
1993	1.4	227.5	9.3	0.2	[R] 23.4	28.2	0.1	[R] 61.1	[R] 290.1	[R] 536.5	[R] 826.6
1994	0.9	216.1	9.8	0.4	[R] 20.5	1.6	(s)	[R] 32.2	[R] 249.2	[R] 548.9	[R] 798.1
1995	**2.0**	**208.3**	**11.2**	**0.1**	**20.7**	**1.6**	**—**	**33.6**	**244.0**	**568.5**	**812.5**

[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.
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 104. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Iowa

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.41**	**0.41**	**0.36**	**0.72**	**0.75**	**0.81**	**1.16**	**5.08**	**2.83**	**0.57**	**2.15**	**1.48**	**—**	**0.83**	**3.87**	**1.04**
1971	—	0.45	0.45	0.39	0.83	0.78	0.84	1.25	5.27	2.90	0.68	1.72	1.45	—	0.84	4.02	1.09
1972	—	0.47	0.47	0.46	0.86	0.78	0.84	1.24	5.58	2.98	0.68	1.71	1.49	—	0.88	4.20	1.16
1973	—	0.52	0.52	0.51	0.87	1.05	1.13	1.37	5.33	3.08	0.86	1.89	1.69	—	0.96	4.37	1.24
1974	—	0.82	0.82	0.59	1.78	2.05	2.20	2.50	7.22	4.10	1.75	2.72	2.63	—	1.38	5.02	1.69
1975	**—**	**1.24**	**1.24**	**0.77**	**2.06**	**2.15**	**2.30**	**2.46**	**7.48**	**4.59**	**1.92**	**3.21**	**2.85**	**—**	**1.61**	**6.31**	**2.01**
1976	—	1.30	1.30	1.00	1.97	2.37	2.55	2.68	7.05	4.83	2.12	3.32	2.90	—	1.85	6.97	2.28
1977	—	1.32	1.32	1.35	2.03	2.58	2.78	3.28	6.97	5.18	2.11	3.59	3.20	—	2.18	7.86	2.72
1978	—	1.43	1.43	1.66	2.14	2.78	3.03	3.62	7.60	5.42	2.21	3.76	3.35	—	2.45	8.31	3.09
1979	—	1.49	1.49	1.95	2.55	3.80	4.02	3.58	10.21	7.24	2.55	5.07	4.06	—	2.87	9.36	3.48
1980	**—**	**1.59**	**1.59**	**2.51**	**3.77**	**5.28**	**5.52**	**4.88**	**14.36**	**9.97**	**2.88**	**7.65**	**6.27**	**—**	**3.96**	**10.47**	**4.69**
1981	—	1.76	1.76	3.10	5.50	5.86	6.17	5.55	18.00	11.07	3.23	9.49	7.27	—	4.47	11.72	5.37
1982	—	1.84	1.84	3.71	4.42	5.82	6.16	5.58	17.25	10.62	3.59	8.79	6.54	—	4.64	12.85	5.71
1983	—	1.69	1.69	4.05	4.72	6.67	6.82	6.30	16.98	9.49	3.68	8.30	6.75	—	4.69	13.42	5.96
1984	—	1.70	1.70	3.95	4.92	6.61	7.10	6.06	17.63	9.34	5.05	8.46	6.96	—	4.64	13.71	5.93
1985	**—**	**1.66**	**1.66**	**3.87**	**5.03**	**6.28**	**6.76**	**[R] 8.58**	**17.61**	**9.47**	**4.07**	**8.17**	**[R] 7.27**	**—**	**[R] 4.80**	**13.50**	**[R] 6.00**
1986	—	1.57	1.57	3.36	3.89	4.06	4.36	[R] 8.58	15.59	7.13	2.86	6.44	[R] 5.53	—	[R] 3.93	14.16	[R] 5.41
1987	—	1.52	1.52	2.80	3.55	4.50	4.84	[R] 6.71	[R] 13.58	7.36	2.49	7.20	[R] 5.36	—	[R] 3.38	12.71	[R] 4.79
1988	—	1.42	1.42	3.09	3.46	4.16	4.48	[R] 6.48	[R] 14.62	7.37	2.38	6.21	[R] 4.97	—	[R] 3.38	12.15	[R] 4.69
1989	—	1.35	1.35	2.51	3.00	4.72	5.07	[R] 5.42	14.48	8.40	2.25	6.91	[R] 5.25	—	[R] 3.01	11.81	[R] 4.38
1990	**—**	**1.34**	**1.34**	**2.85**	**3.12**	**5.81**	**6.25**	**[R] 5.05**	**14.60**	**9.38**	**2.36**	**7.29**	**[R] 5.79**	**[d R] 1.69**	**[d R] 3.29**	**[R] 11.66**	**[d R] 4.64**
1991	—	1.31	1.31	2.63	3.15	5.17	5.56	[R] 8.68	[R] 16.80	9.11	2.24	8.98	[R] 6.30	[R] 1.69	[R] 3.28	[R] 11.75	[R] 4.59
1992	—	1.32	1.32	3.54	2.49	5.14	5.53	[R] 8.08	[R] 18.32	8.72	2.21	10.19	[R] 6.21	[R] 1.68	[R] 3.89	[R] 11.77	[R] 5.09
1993	—	1.39	1.39	3.75	2.89	5.00	5.38	[R] 9.28	[R] 18.96	8.42	2.18	9.31	[R] 7.05	[R] 1.67	[R] 4.52	11.50	[R] 5.54
1994	—	1.42	1.42	3.96	2.87	4.86	5.23	[R] 7.14	[R] 19.11	8.71	2.10	10.07	[R] 6.00	[R] 1.59	[R] 4.22	[R] 11.38	[R] 5.25
1995	**—**	**1.40**	**1.40**	**3.21**	**3.22**	**4.87**	**5.23**	**7.49**	**19.40**	**8.69**	**2.38**	**10.25**	**6.36**	**1.53**	**3.98**	**11.53**	**5.08**
	Expenditures in Million Nominal Dollars																
1970	**—**	**17.8**	**17.8**	**36.3**	**13.9**	**25.8**	**0.7**	**13.0**	**6.8**	**80.0**	**0.9**	**7.1**	**148.2**	**—**	**202.4**	**70.5**	**272.8**
1971	—	14.4	14.4	40.1	17.1	26.2	0.5	14.3	6.0	67.1	0.9	8.3	140.5	—	195.0	77.6	272.7
1972	—	16.1	16.1	49.0	16.9	25.0	0.7	16.5	6.8	68.0	0.7	9.1	143.8	—	208.8	91.1	300.0
1973	—	18.1	18.1	68.2	15.0	34.5	1.0	21.0	7.9	79.1	1.6	10.8	171.0	—	257.2	104.8	362.0
1974	—	23.5	23.5	79.9	30.3	60.7	1.7	49.7	10.3	82.4	4.5	15.8	255.3	—	358.7	123.2	481.9
1975	**—**	**35.1**	**35.1**	**94.6**	**31.4**	**58.6**	**0.9**	**51.2**	**7.0**	**91.5**	**3.4**	**16.8**	**260.8**	**—**	**390.5**	**142.6**	**533.1**
1976	—	42.4	42.4	123.4	31.8	63.4	1.2	101.1	7.3	70.8	5.1	57.2	338.0	—	503.8	175.2	678.9
1977	—	41.9	41.9	151.6	34.3	71.6	1.0	120.3	8.1	65.9	7.2	75.3	383.8	—	577.4	215.4	792.8
1978	—	42.6	42.6	157.7	40.4	86.7	1.1	112.6	9.5	54.4	5.3	85.8	395.7	—	596.0	243.9	839.9
1979	—	53.7	53.7	230.4	53.4	149.3	4.7	114.8	13.3	66.2	10.4	129.1	541.2	—	825.3	282.7	1,108.1
1980	**—**	**51.6**	**51.6**	**288.2**	**42.5**	**144.4**	**3.7**	**117.6**	**16.7**	**136.7**	**5.0**	**196.2**	**662.9**	**—**	**1,002.7**	**332.9**	**1,335.6**
1981	—	56.5	56.5	357.5	72.0	147.1	4.4	112.2	20.1	168.8	1.2	109.7	635.5	—	1,049.6	390.0	1,439.6
1982	—	57.4	57.4	334.5	56.2	155.6	4.0	149.5	17.6	120.6	6.3	77.6	587.5	—	979.4	408.8	1,388.2
1983	—	53.4	53.4	349.4	50.2	148.2	1.2	151.0	18.1	46.3	4.3	71.5	490.8	—	893.5	435.5	1,329.0
1984	—	54.9	54.9	373.8	60.1	158.6	1.7	81.3	20.0	85.4	3.9	72.5	483.5	—	912.2	445.8	1,358.0
1985	**—**	**59.1**	**59.1**	**340.2**	**67.6**	**175.3**	**1.3**	**[R] 151.3**	**18.6**	**84.8**	**4.6**	**66.2**	**[R] 569.6**	**—**	**[R] 968.9**	**438.4**	**[R] 1,407.3**
1986	—	55.6	55.6	272.6	52.6	138.2	1.0	[R] 149.6	16.1	56.5	8.4	27.2	[R] 449.6	—	[R] 777.8	473.2	[R] 1,251.1
1987	—	64.8	64.8	249.1	42.1	129.9	1.3	[R] 75.7	[R] 15.9	57.5	1.4	30.7	[R] 354.5	—	[R] 668.4	445.1	[R] 1,113.4
1988	—	59.4	59.4	317.3	50.8	124.5	0.6	[R] 69.9	16.5	54.6	3.6	25.8	[R] 346.2	—	[R] 722.8	457.0	[R] 1,179.8
1989	—	72.7	72.7	226.9	34.1	112.9	0.7	[R] 63.0	16.8	57.5	2.1	27.9	[R] 315.0	—	[R] 614.6	444.0	[R] 1,058.6
1990	**—**	**71.3**	**71.3**	**259.0**	**31.8**	**140.1**	**0.7**	**[R] 56.5**	**17.4**	**52.5**	**1.4**	**32.3**	**[R] 332.6**	**[d R] 1.1**	**[d R] 664.0**	**[R] 453.3**	**[d R] 1,117.3**
1991	—	77.9	77.9	258.2	32.6	138.8	0.5	[R] 102.1	17.9	55.5	1.2	30.0	[R] 378.5	1.1	[R] 715.8	[R] 468.6	[R] 1,184.4
1992	—	69.9	69.9	357.7	23.2	186.4	0.6	[R] 144.5	[R] 19.9	48.2	1.0	37.5	[R] 461.2	[R] 1.1	[R] 889.8	[R] 487.2	[R] 1,377.0
1993	—	70.0	70.0	385.9	25.9	179.3	1.0	[R] 366.3	21.0	35.3	2.2	34.6	[R] 665.6	[R] 1.1	[R] 1,122.6	[R] 488.9	[R] 1,611.5
1994	—	78.2	78.2	433.8	37.4	189.1	0.8	[R] 282.7	[R] 22.1	50.7	2.4	33.8	[R] 618.9	[R] 1.2	[R] 1,132.2	[R] 513.5	[R] 1,645.6
1995	**—**	**80.9**	**80.9**	**371.7**	**35.0**	**172.7**	**1.2**	**332.8**	**22.0**	**47.4**	**1.4**	**31.8**	**644.3**	**1.3**	**1,098.3**	**541.9**	**1,640.2**

[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 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 105. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Iowa

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.41**	**—**	**2.17**	**1.27**	**0.75**	**1.16**	**5.08**	**2.83**	**0.66**	**2.60**	**2.60**	**—**	**2.60**
1971	0.45	—	2.21	1.29	0.78	1.25	5.27	2.90	0.73	2.65	2.65	—	2.65
1972	0.47	—	2.19	1.31	0.78	1.24	5.58	2.98	—	2.71	2.71	—	2.71
1973	0.52	—	2.36	1.55	0.93	1.37	5.33	3.08	—	2.82	2.82	—	2.82
1974	0.82	—	3.23	2.51	1.60	2.50	7.22	4.10	—	3.82	3.82	—	3.82
1975	**1.24**	**—**	**3.45**	**2.65**	**2.09**	**2.46**	**7.48**	**4.59**	**—**	**4.24**	**4.24**	**—**	**4.24**
1976	1.30	—	3.59	2.87	2.26	2.68	7.05	4.83	1.66	4.46	4.46	—	4.46
1977	1.32	—	3.97	3.31	2.69	3.28	6.97	5.18	1.95	4.80	4.80	—	4.80
1978	—	—	4.29	3.38	2.90	3.62	7.60	5.42	1.84	5.02	5.02	—	5.02
1979	—	—	5.73	5.05	4.03	3.58	10.21	7.24	—	6.75	6.75	—	6.75
1980	**—**	**—**	**9.02**	**6.97**	**6.47**	**4.88**	**14.36**	**9.97**	**—**	**9.34**	**9.34**	**—**	**9.34**
1981	—	—	10.84	8.28	7.60	5.55	18.00	11.07	4.50	10.53	10.53	—	10.53
1982	—	—	10.92	7.96	7.19	5.58	17.25	10.62	—	10.02	10.02	—	10.02
1983	—	—	10.44	7.10	6.73	6.30	16.98	9.49	3.86	9.04	9.04	—	9.04
1984	—	—	10.27	7.18	6.55	6.06	17.63	9.34	4.42	8.90	8.90	—	8.90
1985	**—**	**—**	**9.99**	**6.85**	**6.28**	**[R] 8.58**	**17.61**	**9.47**	**—**	**8.95**	**8.95**	**—**	**8.95**
1986	—	—	8.41	6.76	4.36	[R] 8.58	15.59	7.13	—	7.13	7.13	—	7.13
1987	—	—	7.55	7.01	4.27	[R] 6.71	[R] 13.58	7.36	2.33	[R] 7.31	[R] 7.31	—	[R] 7.31
1988	—	—	7.41	6.77	4.12	[R] 6.48	[R] 14.62	7.37	—	7.27	7.27	—	7.27
1989	—	—	8.28	7.55	4.57	[R] 5.42	14.48	8.40	2.08	8.20	8.20	—	8.20
1990	**—**	**6.43**	**9.32**	**8.74**	**6.11**	**[R] 5.05**	**14.60**	**9.38**	**1.82**	**9.22**	**9.22**	**—**	**9.22**
1991	—	3.09	8.71	8.32	5.21	[R] 8.68	[R] 16.80	9.11	—	8.94	8.94	—	8.94
1992	—	3.97	8.54	8.05	4.78	[R] 8.08	[R] 18.32	8.72	—	[R] 8.61	[R] 8.61	—	[R] 8.61
1993	—	3.83	8.24	7.89	4.52	[R] 9.28	[R] 18.96	8.42	—	8.36	8.36	—	8.36
1994	—	3.48	7.96	8.00	4.26	[R] 9.11	[R] 19.11	8.71	—	8.57	8.57	—	8.57
1995	**—**	**2.97**	**8.36**	**7.79**	**4.22**	**9.46**	**19.40**	**8.69**	**—**	**8.48**	**8.48**	**—**	**8.48**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**2.8**	**32.2**	**3.0**	**0.3**	**14.8**	**446.0**	**0.1**	**499.1**	**499.2**	**—**	**499.2**
1971	(s)	—	2.9	39.6	2.9	0.3	12.7	497.8	(s)	556.2	556.2	—	556.2
1972	(s)	—	2.6	43.0	3.2	0.3	14.4	528.8	—	592.3	592.3	—	592.3
1973	(s)	—	1.2	58.8	3.7	0.3	16.4	596.8	—	677.2	677.2	—	677.2
1974	(s)	—	3.8	96.9	6.7	0.5	21.2	747.7	—	876.9	876.9	—	876.9
1975	**(s)**	**—**	**3.3**	**105.7**	**9.8**	**0.5**	**22.7**	**842.8**	**—**	**984.9**	**984.9**	**—**	**984.9**
1976	(s)	—	3.7	124.6	12.3	0.5	23.8	941.9	0.2	1,106.8	1,106.8	—	1,106.8
1977	(s)	—	4.1	153.3	15.2	0.6	22.1	1,023.9	0.2	1,219.3	1,219.3	—	1,219.3
1978	—	—	4.6	152.9	18.4	0.9	25.8	1,077.0	0.1	1,279.8	1,279.8	—	1,279.8
1979	—	—	5.5	259.2	23.6	0.5	36.3	1,350.7	—	1,675.7	1,675.7	—	1,675.7
1980	**—**	**—**	**8.4**	**321.6**	**29.6**	**0.6**	**45.4**	**1,698.2**	**—**	**2,103.8**	**2,103.8**	**—**	**2,103.8**
1981	—	—	8.8	356.6	30.6	2.1	54.6	1,802.8	0.2	2,255.7	2,255.7	—	2,255.7
1982	—	—	6.1	406.2	25.6	2.1	47.7	1,701.3	—	2,189.1	2,189.1	—	2,189.1
1983	—	—	5.8	327.2	22.3	2.8	49.2	1,557.0	0.1	1,964.3	1,964.3	—	1,964.3
1984	—	—	4.6	364.4	22.5	3.1	54.5	1,485.4	0.2	1,934.7	1,934.7	—	1,934.7
1985	**—**	**—**	**4.2**	**320.9**	**20.9**	**[R] 2.8**	**50.7**	**1,469.1**	**—**	**[R] 1,868.5**	**[R] 1,868.5**	**—**	**[R] 1,868.5**
1986	—	—	6.4	312.8	14.5	[R] 4.4	43.9	1,108.0	—	[R] 1,490.1	[R] 1,490.1	—	[R] 1,490.1
1987	—	—	4.2	355.8	18.7	[R] 1.2	[R] 43.2	1,155.2	0.1	[R] 1,578.4	[R] 1,578.4	—	[R] 1,578.4
1988	—	—	5.4	350.6	16.5	[R] 1.1	44.9	1,192.8	—	1,611.3	1,611.3	—	1,611.3
1989	—	—	4.6	403.9	19.3	1.0	45.6	1,368.0	(s)	1,842.5	1,842.5	—	1,842.5
1990	**—**	**(s)**	**4.7**	**492.3**	**30.7**	**[R] 0.8**	**47.3**	**1,492.7**	**(s)**	**2,068.4**	**2,068.4**	**—**	**2,068.4**
1991	—	(s)	3.6	409.1	26.1	1.5	48.7	1,462.6	—	1,951.6	[R] 1,951.7	—	[R] 1,951.7
1992	—	(s)	3.2	412.1	21.6	1.3	[R] 54.1	1,375.7	—	[R] 1,868.0	[R] 1,868.0	—	[R] 1,868.0
1993	—	(s)	2.9	437.7	18.3	[R] 1.8	57.0	1,382.0	—	[R] 1,899.8	[R] 1,899.8	—	[R] 1,899.8
1994	—	(s)	2.8	480.2	21.5	[R] 5.0	[R] 60.1	1,498.2	—	[R] 2,067.8	2,067.8	—	2,067.8
1995	**—**	**(s)**	**3.0**	**514.7**	**25.0**	**2.0**	**60.0**	**1,522.3**	**—**	**2,127.1**	**2,127.1**	**—**	**2,127.1**

[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.

(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 106. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Iowa

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.32**	**0.27**	**0.70**	**0.75**	**—**	**0.74**	**—**	**0.65**	**0.30**
1971	0.37	0.32	0.78	0.84	—	0.83	—	0.69	0.36
1972	0.39	0.38	0.81	0.87	—	0.85	—	0.72	0.40
1973	0.46	0.41	0.79	1.16	—	1.02	—	0.77	0.45
1974	0.64	0.50	1.67	1.70	—	1.69	0.19	0.84	0.57
1975	**0.85**	**0.68**	**1.93**	**2.11**	**—**	**2.05**	**0.25**	**0.92**	**0.75**
1976	0.89	0.92	1.57	2.35	—	2.00	0.25	0.98	0.83
1977	1.02	1.30	1.95	2.67	—	2.38	0.27	1.04	0.96
1978	1.18	1.65	1.82	2.69	—	2.39	0.34	1.12	1.19
1979	1.22	2.00	2.24	3.68	1.32	3.02	0.32	—	1.16
1980	**1.39**	**2.41**	**3.78**	**6.06**	**—**	**5.41**	**0.39**	**1.74**	**1.32**
1981	1.49	2.97	4.63	7.39	—	7.29	0.53	1.24	1.44
1982	1.57	3.57	4.06	6.22	—	5.86	0.54	1.28	1.50
1983	1.62	3.75	4.20	6.18	—	5.96	0.68	1.12	1.56
1984	1.53	3.69	4.50	6.10	—	5.97	0.79	1.28	1.48
1985	**1.48**	**3.61**	**3.99**	**5.93**	**—**	**5.88**	**0.94**	**0.79**	**1.46**
1986	1.37	3.42	—	3.63	—	3.63	0.75	0.32	1.31
1987	1.25	2.15	—	4.06	—	4.06	0.71	0.95	1.21
1988	1.24	2.03	—	3.72	—	3.72	0.68	0.87	1.19
1989	1.22	2.67	—	4.45	—	4.45	0.67	1.47	1.18
1990	**1.12**	**3.05**	**—**	**5.18**	**—**	**5.18**	**0.66**	**1.60**	**1.10**
1991	1.10	2.69	—	4.38	—	4.38	0.66	1.67	1.07
1992	1.10	3.07	—	4.24	—	4.24	0.56	1.58	1.06
1993	1.01	3.10	—	4.08	—	4.08	0.60	1.50	1.00
1994	0.99	3.16	—	3.92	—	3.92	0.66	1.52	0.97
1995	**0.99**	**2.71**	**—**	**4.09**	**—**	**4.09**	**0.74**	**1.50**	**0.98**
	Expenditures in Million Nominal Dollars								
1970	**27.0**	**21.5**	**0.2**	**1.4**	**—**	**1.6**	**—**	**0.3**	**50.4**
1971	33.5	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	1.8	—	2.5	—	0.4	80.5
1974	61.7	30.8	1.3	3.6	—	4.9	2.9	0.3	100.6
1975	**85.0**	**32.0**	**2.6**	**6.2**	**—**	**8.8**	**6.3**	**0.4**	**132.5**
1976	120.9	24.0	3.6	6.5	—	10.2	7.0	0.4	162.4
1977	155.5	17.9	4.2	8.6	—	12.8	8.4	0.2	194.8
1978	197.4	13.8	4.3	12.0	—	16.3	4.5	0.1	232.1
1979	215.8	16.8	4.6	10.6	0.2	15.5	9.9	—	258.0
1980	**277.7**	**16.6**	**1.5**	**5.9**	**—**	**7.4**	**10.9**	**0.5**	**313.1**
1981	321.8	10.0	0.2	7.5	—	7.7	12.9	0.2	352.6
1982	327.7	9.1	0.6	4.8	—	5.5	13.5	0.3	356.0
1983	352.1	12.5	0.4	5.0	—	5.4	17.0	0.5	387.6
1984	327.9	11.7	0.3	3.9	—	4.1	23.0	0.6	367.3
1985	**335.3**	**7.7**	**0.1**	**3.5**	**—**	**3.6**	**19.6**	**0.5**	**366.7**
1986	303.6	4.7	—	2.2	—	2.2	24.4	0.2	335.2
1987	296.4	7.1	—	2.7	—	2.7	19.3	0.7	326.2
1988	316.7	11.1	—	2.7	—	2.7	23.0	0.5	354.1
1989	317.9	6.5	—	2.9	—	2.9	22.6	0.4	350.2
1990	**304.8**	**10.7**	**—**	**3.7**	**—**	**3.7**	**21.3**	**0.3**	**340.8**
1991	311.1	9.9	—	2.8	—	2.8	29.2	0.3	353.3
1992	300.7	7.0	—	2.2	—	2.2	20.4	0.2	330.5
1993	291.4	13.4	—	2.9	—	2.9	20.9	0.3	328.9
1994	288.1	8.6	—	4.2	—	4.2	28.9	0.4	330.2
1995	**304.7**	**9.8**	**—**	**3.5**	**—**	**3.5**	**29.2**	**0.3**	**347.6**

[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 107. Energy Price and Expenditure Estimates by Source, 1970-1995, Kansas

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	**—**	**0.34**	**0.34**	**0.39**	**0.99**	**0.75**	**1.27**	**2.64**	**0.47**	**[R] 1.31**	**[R] 1.96**	**—**	**—**	**0.98**	**0.30**	**5.74**	**1.54**
1971	—	0.34	0.34	0.41	1.01	0.78	1.26	2.65	0.62	[R] 1.38	[R] 1.97	—	—	0.99	0.33	5.82	[R] 1.55
1972	—	0.36	0.36	0.46	1.02	0.78	1.30	2.58	0.57	[R] 1.45	[R] 1.93	—	—	1.01	0.38	5.88	1.57
1973	—	0.33	0.33	0.44	1.27	0.93	2.18	3.03	0.69	[R] 1.47	[R] 2.27	—	—	1.16	0.32	5.98	[R] 1.82
1974	—	0.41	0.41	0.52	2.24	1.60	2.57	4.19	1.54	[R] 2.27	[R] 3.23	—	—	1.60	0.43	6.59	2.42
1975	**—**	**0.68**	**0.68**	**0.67**	**2.43**	**2.09**	**2.65**	**4.50**	**1.60**	**[R] 2.60**	**[R] 3.40**	**—**	**—**	**1.89**	**0.72**	**7.72**	**2.86**
1976	—	0.75	0.75	1.01	2.54	2.26	2.83	4.75	1.61	[R] 2.67	[R] 3.59	—	—	2.13	0.87	8.59	[R] 3.14
1977	—	0.76	0.76	1.22	2.89	2.69	3.36	5.01	1.96	[R] 2.86	[R] 3.85	—	—	2.32	1.04	10.12	[R] 3.51
1978	—	0.91	0.91	1.35	3.06	2.90	3.34	5.11	1.77	[R] 2.91	[R] 3.89	—	—	2.35	1.13	11.01	[R] 3.66
1979	—	1.02	1.02	1.68	4.39	4.03	4.01	6.91	2.13	[R] 3.73	[R] 5.19	—	—	[R] 3.00	1.26	11.71	[R] 4.34
1980	**—**	**1.08**	**1.08**	**2.14**	**6.52**	**6.47**	**4.41**	**9.27**	**3.24**	**[R] 5.30**	**[R] 7.35**	**—**	**—**	**[R] 3.87**	**1.38**	**13.75**	**[R] 5.92**
1981	—	1.20	1.20	2.77	7.64	7.60	5.51	10.11	4.28	[R] 7.60	[R] 8.57	—	—	[R] 4.51	1.51	15.55	[R] 7.01
1982	—	1.36	1.36	3.19	7.47	7.19	5.11	10.09	3.80	[R] 6.91	[R] 8.23	—	—	[R] 4.68	1.64	17.67	[R] 7.36
1983	—	1.43	1.43	3.91	6.81	6.60	5.64	8.99	4.04	[R] 6.97	[R] 7.59	—	—	[R] 4.68	1.72	19.63	[R] 7.76
1984	—	1.51	1.51	3.99	6.84	6.45	5.17	9.12	4.21	[R] 7.08	[R] 7.29	—	—	[R] 4.65	1.71	19.32	[R] 7.46
1985	**—**	**1.41**	**1.41**	**3.58**	**6.56**	**5.94**	**[R] 4.40**	**9.28**	**3.91**	**[R] 6.93**	**[R] 7.12**	**0.84**	**—**	**4.30**	**1.44**	**19.07**	**[R] 7.19**
1986	—	1.33	1.33	3.30	5.57	3.73	[R] 8.34	6.72	2.28	[R] 5.70	[R] 6.27	0.63	—	3.75	1.22	20.53	[R] 6.99
1987	—	1.27	1.27	3.15	6.06	4.01	[R] 7.80	7.05	2.36	[R] 5.62	[R] 6.53	0.51	—	3.75	1.16	20.06	[R] 6.95
1988	—	1.24	1.24	3.03	5.57	3.81	[R] 7.79	6.78	1.89	[R] 4.96	[R] 6.20	0.45	—	[R] 3.66	1.13	19.22	[R] 6.73
1989	—	1.24	1.24	3.36	6.25	4.27	[R] 7.52	7.66	2.06	[R] 5.33	[R] 6.81	0.32	—	3.80	1.04	18.83	[R] 7.19
1990	**—**	**1.24**	**1.24**	**3.30**	**7.62**	**5.57**	**[R] 4.56**	**8.90**	**2.10**	**[R] 5.15**	**[R] 7.22**	**0.30**	**[d R] 3.36**	**[d R] 3.95**	**1.08**	**19.31**	**[d R] 7.49**
1991	—	1.23	1.23	3.11	7.03	4.81	[R] 3.92	8.72	1.47	[R] 4.75	[R] 6.90	0.31	3.37	3.78	1.12	19.30	[R] 7.26
1992	—	1.18	1.18	3.38	6.88	4.36	[R] 8.07	8.49	2.20	[R] 4.65	[R] 7.26	0.29	[R] 3.38	[R] 3.97	0.99	[R] 19.26	[R] 7.45
1993	—	1.03	1.03	3.59	6.74	4.19	[R] 4.95	8.31	2.07	[R] 5.15	[R] 6.89	0.33	[R] 3.35	[R] 3.66	0.95	19.39	[R] 7.37
1994	—	1.03	1.03	3.43	6.53	4.13	[R] 7.16	8.29	2.16	[R] 5.00	[R] 7.06	0.35	[R] 3.34	[R] 3.63	0.94	[R] 19.41	[R] 7.26
1995	**—**	**1.03**	**1.03**	**3.21**	**6.71**	**4.19**	**7.43**	**8.48**	**2.48**	**5.44**	**7.27**	**0.39**	**3.35**	**3.66**	**0.90**	**19.27**	**7.58**
	Expenditures in Million Nominal Dollars																
1970	**—**	**3.7**	**3.7**	**175.6**	**43.3**	**6.4**	**37.1**	**399.6**	**1.5**	**[R] 48.0**	**[R] 535.9**	**—**	**—**	**[R] 715.2**	**-53.9**	**259.0**	**[R] 920.4**
1971	—	3.7	3.7	193.7	49.2	6.6	36.1	406.3	1.3	[R] 54.7	[R] 554.2	—	—	[R] 751.6	-61.1	276.5	[R] 967.0
1972	—	4.4	4.4	221.2	53.3	6.2	39.1	420.6	4.8	[R] 57.3	[R] 581.4	—	—	[R] 807.0	-74.6	295.6	[R] 1,028.0
1973	—	8.2	8.2	201.9	76.2	7.2	67.2	497.6	7.9	[R] 64.8	[R] 720.8	—	—	[R] 930.9	-64.4	322.4	[R] 1,188.9
1974	—	16.0	16.0	226.4	140.6	12.4	78.7	682.4	18.6	[R] 99.7	[R] 1,032.4	—	—	[R] 1,274.9	-91.9	360.0	[R] 1,543.0
1975	**—**	**42.5**	**42.5**	**248.1**	**159.8**	**15.0**	**83.9**	**756.2**	**49.8**	**[R] 101.8**	**[R] 1,166.5**	**—**	**—**	**[R] 1,457.1**	**-159.5**	**444.0**	**[R] 1,741.5**
1976	—	55.3	55.3	389.8	178.8	15.4	101.0	845.0	48.6	[R] 113.1	[R] 1,301.9	—	—	[R] 1,747.0	-194.6	510.5	[R] 2,062.9
1977	—	68.1	68.1	471.7	209.5	21.1	120.3	875.2	60.9	[R] 133.2	[R] 1,420.2	—	—	[R] 1,960.0	-250.3	629.7	[R] 2,339.4
1978	—	123.9	123.9	527.2	254.2	24.2	104.5	899.4	58.9	[R] 150.8	[R] 1,492.0	—	—	[R] 2,143.1	-314.2	740.3	[R] 2,569.2
1979	—	149.7	149.7	743.6	500.6	43.2	139.0	1,156.6	42.8	[R] 207.3	[R] 2,089.3	—	—	[R] 2,982.7	-341.6	789.1	[R] 3,430.2
1980	**—**	**207.0**	**207.0**	**808.1**	**560.3**	**89.3**	**131.0**	**1,440.7**	**17.9**	**[R] 274.3**	**[R] 2,513.4**	**—**	**—**	**[R] 3,528.5**	**-394.3**	**986.7**	**[R] 4,120.8**
1981	—	254.8	254.8	960.7	596.0	103.7	147.6	1,554.8	24.1	[R] 342.7	[R] 2,769.0	—	—	[R] 3,984.5	-431.6	1,167.3	[R] 4,720.2
1982	—	288.1	288.1	984.8	600.8	73.3	215.6	1,515.7	19.9	[R] 272.5	[R] 2,697.9	—	—	[R] 3,970.8	-436.4	1,300.3	[R] 4,834.7
1983	—	330.1	330.1	1,057.4	555.5	54.4	241.5	1,350.9	35.6	[R] 254.6	[R] 2,492.4	—	—	[R] 3,880.0	-468.9	1,500.4	[R] 4,911.4
1984	—	415.1	415.1	1,114.2	603.7	120.6	485.3	1,365.7	17.7	[R] 282.9	[R] 2,875.9	—	—	[R] 4,405.2	-513.3	1,520.2	[R] 5,412.1
1985	**—**	**365.8**	**365.8**	**960.1**	**574.1**	**147.6**	**[R] 379.0**	**1,375.2**	**1.3**	**[R] 262.8**	**[R] 2,740.0**	**34.9**	**—**	**[R] 4,100.8**	**-453.4**	**1,520.6**	**[R] 5,168.0**
1986	—	334.3	334.3	768.5	464.0	148.2	[R] 492.6	1,005.0	4.4	[R] 244.3	[R] 2,358.6	47.7	—	[R] 3,509.1	-412.3	1,656.3	[R] 4,753.1
1987	—	340.5	340.5	809.7	589.6	96.7	[R] 448.8	1,077.4	3.8	[R] 241.6	[R] 2,458.0	35.7	—	[R] 3,643.9	-405.4	1,658.4	[R] 4,896.8
1988	—	334.5	334.5	772.4	538.2	89.2	[R] 529.2	1,099.1	7.1	[R] 270.8	[R] 2,533.5	32.4	—	[R] 3,672.8	-404.4	1,680.9	[R] 4,949.3
1989	—	330.4	330.4	828.9	574.9	91.5	[R] 497.9	1,200.6	3.6	[R] 244.5	[R] 2,613.0	33.3	—	[R] 3,805.5	-400.5	1,646.7	[R] 5,051.6
1990	**—**	**338.3**	**338.3**	**871.6**	**735.4**	**115.4**	**[R] 246.3**	**1,330.7**	**2.4**	**[R] 264.0**	**[R] 2,694.2**	**25.3**	**[d R] 7.6**	**[d R] 3,936.9**	**-410.7**	**[R] 1,774.7**	**[d R] 5,300.9**
1991	—	329.6	329.6	889.5	643.4	88.2	[R] 183.4	1,284.5	0.8	[R] 217.5	[R] 2,417.7	19.4	8.0	[R] 3,664.3	-408.0	[R] 1,840.1	[R] 5,096.4
1992	—	300.3	300.3	875.1	606.7	101.0	[R] 481.5	1,241.2	1.7	[R] 216.6	[R] 2,648.7	26.7	[R] 8.4	[R] 3,859.2	-351.7	[R] 1,764.6	[R] 5,272.2
1993	—	310.0	310.0	1,035.9	638.0	84.7	[R] 144.8	1,243.3	3.5	[R] 228.8	[R] 2,343.1	28.0	[R] 7.0	[R] 3,724.0	-385.2	[R] 1,890.7	[R] 5,229.6
1994	—	308.8	308.8	1,133.3	599.7	45.4	[R] 195.1	1,266.7	1.7	[R] 258.0	[R] 2,366.6	31.5	[R] 6.9	[R] 3,847.1	-389.4	[R] 1,945.9	[R] 5,403.5
1995	**—**	**298.7**	**298.7**	**896.1**	**759.4**	**57.2**	**130.2**	**1,309.0**	**0.3**	**249.5**	**2,505.6**	**42.0**	**7.6**	**3,750.0**	**-380.7**	**1,980.7**	**5,350.0**

[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 108. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Kansas

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**0.91**	**0.69**	**1.19**	**1.40**	**1.53**	**1.52**	**—**	**0.82**	**7.17**	**1.68**
1971	0.99	0.72	1.29	1.43	1.49	1.49	—	0.84	7.33	1.74
1972	1.07	0.74	1.30	1.48	1.59	1.58	—	0.87	7.31	1.81
1973	1.18	0.76	1.41	1.74	3.05	2.98	—	1.12	7.30	2.13
1974	1.14	0.92	2.43	2.71	3.08	3.05	—	1.26	7.94	2.40
1975	**—**	**1.05**	**2.62**	**2.84**	**3.30**	**3.27**	**—**	**1.39**	**9.23**	**2.53**
1976	—	1.51	2.86	3.02	3.51	3.46	—	1.83	10.05	3.00
1977	—	1.77	3.22	3.54	4.15	4.06	—	2.16	11.70	3.63
1978	1.90	1.80	3.30	3.76	3.90	3.85	—	2.11	12.62	3.83
1979	2.21	1.99	4.91	5.18	6.55	6.08	—	2.46	13.59	4.22
1980	**2.15**	**2.38**	**6.85**	**7.68**	**6.83**	**6.83**	**—**	**2.79**	**15.75**	**5.48**
1981	2.67	3.05	8.12	9.40	6.85	6.90	—	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	2.97	4.65	6.57	8.55	7.04	7.06	—	4.85	22.50	9.16
1984	2.72	4.52	7.43	8.62	7.26	7.35	—	4.66	22.03	9.06
1985	**2.31**	**4.12**	**6.43**	**7.47**	**6.52**	**6.54**	**—**	**4.29**	**21.98**	**8.70**
1986	2.33	3.95	5.45	6.33	5.37	5.39	—	4.04	24.01	9.57
1987	1.94	3.90	3.53	4.09	4.73	4.69	—	3.95	23.63	9.34
1988	1.80	4.08	3.55	4.12	4.84	4.79	—	4.13	22.94	9.36
1989	1.85	4.20	6.16	7.15	8.57	8.46	—	4.49	22.46	9.38
1990	**1.88**	**4.48**	**6.22**	**7.23**	**7.86**	**7.80**	**[d] 3.56**	**[d] 4.65**	**22.95**	**[d] 9.65**
1991	1.82	4.33	5.78	6.71	6.98	6.95	3.56	4.47	[R] 22.94	9.46
1992	1.63	4.76	5.86	6.81	7.83	7.73	3.56	4.88	23.15	[R] 9.60
1993	1.40	4.97	7.54	8.75	8.60	8.56	3.56	5.10	[R] 23.05	9.71
1994	1.38	5.11	5.90	6.85	[R] 6.85	[R] 6.81	3.56	[R] 5.15	[R] 23.12	[R] 10.21
1995	**1.19**	**4.89**	**7.13**	**8.28**	**7.13**	**7.14**	**3.56**	**4.97**	**23.22**	**9.99**
	Expenditures in Million Nominal Dollars									
1970	**0.1**	**66.7**	**0.4**	**0.9**	**27.9**	**29.2**	**—**	**95.9**	**130.8**	**226.7**
1971	0.1	70.7	0.4	0.5	26.0	26.9	—	97.7	138.8	236.6
1972	0.1	74.1	0.6	0.6	28.9	30.1	—	104.3	148.7	253.0
1973	0.1	72.1	0.7	0.8	54.4	55.9	—	128.0	161.1	289.1
1974	(s)	84.0	1.2	1.0	50.7	53.0	—	137.0	179.6	316.6
1975	**—**	**101.2**	**1.5**	**1.0**	**55.9**	**58.3**	**—**	**159.5**	**179.4**	**338.9**
1976	—	150.2	2.7	2.8	61.2	66.7	—	216.8	197.5	414.3
1977	—	164.0	3.0	4.4	70.7	78.1	—	242.1	238.0	480.2
1978	0.2	176.0	3.5	2.5	60.8	66.8	—	243.0	282.9	525.9
1979	0.5	199.9	10.9	9.7	59.3	79.8	—	280.2	291.6	571.9
1980	**0.1**	**201.9**	**6.0**	**0.2**	**52.2**	**58.4**	**—**	**260.4**	**386.2**	**646.6**
1981	0.1	226.2	0.9	0.5	40.7	42.1	—	268.4	455.6	724.0
1982	0.2	332.2	7.9	1.0	43.7	52.5	—	384.9	533.1	918.0
1983	0.1	377.0	1.6	1.4	48.7	51.7	—	428.8	642.4	1,071.2
1984	0.1	356.0	2.0	2.0	26.4	30.4	—	386.4	621.5	1,007.8
1985	**(s)**	**322.7**	**2.5**	**1.1**	**34.5**	**38.1**	**—**	**360.8**	**614.6**	**975.4**
1986	(s)	274.8	0.8	0.7	23.6	25.0	—	299.8	683.6	983.4
1987	(s)	284.9	0.4	0.4	22.2	23.1	—	308.0	694.6	1,002.6
1988	(s)	307.2	0.6	0.5	25.4	26.5	—	333.7	714.0	1,047.7
1989	0.1	317.1	1.1	0.7	45.8	47.7	—	364.9	682.0	1,046.8
1990	**(s)**	**319.5**	**0.9**	**0.5**	**33.7**	**35.0**	**[d] 7.2**	**[d] 361.7**	**745.0**	**[d] 1,106.7**
1991	(s)	327.7	0.8	0.4	32.9	34.1	7.5	369.4	[R] 777.4	[R] 1,146.8
1992	(s)	336.2	1.0	0.5	30.6	32.1	7.9	376.2	[R] 700.7	[R] 1,076.9
1993	0.3	416.8	1.2	1.0	33.8	36.0	6.6	459.7	[R] 785.3	[R] 1,245.0
1994	0.4	378.9	0.9	0.3	[R] 26.2	[R] 27.5	6.5	[R] 413.2	[R] 799.1	[R] 1,212.3
1995	**0.9**	**372.4**	**0.6**	**0.6**	**37.9**	**39.2**	**7.2**	**419.6**	**820.4**	**1,240.1**

[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.

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 109. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Kansas

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.45**	**0.46**	**1.03**	**0.69**	**0.83**	**2.64**	**0.50**	**1.22**	**0.53**	**6.02**	**1.56**
1971	0.50	0.47	1.11	0.74	0.90	2.65	0.64	1.31	0.54	6.13	1.60
1972	0.50	0.51	1.12	0.74	0.87	2.58	0.62	1.27	0.57	6.18	1.62
1973	0.45	0.54	1.24	0.88	0.98	3.03	0.77	1.49	0.64	6.35	1.89
1974	0.96	0.61	2.29	1.86	1.98	4.19	1.56	2.55	0.80	6.97	2.14
1975	**—**	**0.68**	**2.45**	**2.27**	**1.91**	**4.50**	**1.56**	**2.63**	**0.89**	**8.26**	**2.75**
1976	—	1.12	2.67	2.46	2.18	4.75	1.57	2.83	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	6.91	2.11	4.63	2.01	12.76	4.62
1980	**1.32**	**1.91**	**6.49**	**5.22**	**3.58**	**9.27**	**—**	**6.51**	**2.27**	**14.81**	**5.62**
1981	1.53	2.42	7.80	6.55	5.13	10.11	—	7.86	2.83	16.68	7.04
1982	1.72	3.22	7.46	6.87	4.73	10.09	3.69	7.70	3.46	18.12	7.76
1983	1.75	4.53	6.31	6.74	5.37	8.99	4.58	6.50	4.77	19.95	9.26
1984	1.76	3.48	6.31	7.16	5.09	9.12	4.12	6.53	3.83	20.09	8.63
1985	**1.69**	**3.15**	**5.97**	**6.81**	**[R] 4.26**	**9.28**	**—**	**[R] 6.23**	**3.44**	**19.87**	**8.51**
1986	1.74	2.90	3.69	4.44	[R] 8.58	6.72	2.28	[R] 5.42	[R] 3.07	21.03	[R] 8.94
1987	1.58	2.88	4.21	4.92	[R] 8.07	7.05	2.36	[R] 5.95	[R] 3.06	20.37	[R] 8.74
1988	1.42	3.07	3.80	4.55	[R] 8.04	6.78	1.67	[R] 5.40	3.22	19.25	8.40
1989	1.28	3.16	4.45	5.17	[R] 7.43	7.66	2.04	[R] 5.83	3.32	19.17	[R] 8.62
1990	**1.18**	**3.36**	**5.46**	**6.37**	**[R] 4.28**	**8.90**	**2.13**	**[R] 5.89**	**3.51**	**19.65**	**9.22**
1991	1.26	3.28	4.84	5.67	[R] 3.57	8.72	1.48	[R] 5.21	[R] 3.40	[R] 19.57	[R] 9.06
1992	1.31	3.57	4.66	5.63	[R] 8.09	8.49	2.21	[R] 5.64	3.73	19.79	9.60
1993	1.40	4.11	4.49	5.47	[R] 4.39	8.31	2.09	[R] 4.62	[R] 4.14	[R] 19.89	9.85
1994	1.35	4.12	4.28	[R] 5.31	[R] 8.13	8.29	2.22	[R] 5.32	4.18	[R] 19.97	10.29
1995	**1.34**	**3.92**	**4.30**	**5.32**	**8.16**	**8.48**	**2.51**	**5.33**	**3.97**	**19.85**	**9.97**
	Expenditures in Million Nominal Dollars										
1970	**0.1**	**23.9**	**0.7**	**0.1**	**2.7**	**3.0**	**0.1**	**6.6**	**30.6**	**81.4**	**112.0**
1971	0.1	26.5	0.7	0.1	2.8	3.1	0.1	6.7	33.3	88.0	121.2
1972	0.1	31.2	1.1	0.1	2.8	3.2	0.1	7.3	38.6	95.2	133.8
1973	(s)	28.1	1.4	0.1	3.1	4.1	0.1	8.8	36.9	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	158.7
1975	**—**	**34.7**	**3.0**	**0.2**	**5.7**	**6.3**	**0.4**	**15.6**	**50.3**	**158.1**	**208.4**
1976	—	62.9	5.4	0.6	6.7	6.7	0.3	19.8	82.7	185.2	267.9
1977	—	61.9	6.1	1.0	8.0	7.3	0.7	23.0	84.9	227.1	312.0
1978	0.3	75.5	7.1	0.6	7.7	7.6	0.8	23.7	99.5	262.9	362.3
1979	0.6	97.9	22.9	1.9	5.0	8.8	0.7	39.3	137.9	281.5	419.4
1980	**0.1**	**111.7**	**13.6**	**0.3**	**4.8**	**13.6**	**—**	**32.3**	**144.1**	**343.9**	**488.0**
1981	0.1	125.2	13.5	0.2	5.4	13.6	—	32.6	157.9	407.0	564.9
1982	0.3	179.7	6.3	0.3	4.9	14.1	0.1	25.6	205.6	445.6	651.2
1983	0.1	239.4	33.8	0.4	6.6	8.7	0.1	49.5	289.0	505.9	794.9
1984	0.1	199.0	36.5	0.4	3.3	7.9	0.1	48.1	247.1	543.4	790.5
1985	**(s)**	**178.0**	**24.3**	**0.4**	**[R] 4.0**	**8.6**	**—**	**[R] 37.3**	**[R] 215.3**	**554.2**	**[R] 769.6**
1986	(s)	159.6	7.3	0.2	[R] 6.7	6.2	0.1	[R] 20.5	[R] 180.1	599.8	[R] 779.9
1987	(s)	161.9	6.6	0.4	[R] 6.7	7.0	(s)	[R] 20.8	[R] 182.7	593.9	[R] 776.7
1988	(s)	185.2	8.5	0.2	[R] 7.4	5.9	(s)	[R] 22.2	[R] 207.4	591.0	[R] 798.4
1989	0.1	183.9	8.6	0.5	[R] 7.0	6.2	0.1	[R] 22.4	[R] 206.4	597.0	[R] 803.4
1990	**(s)**	**188.3**	**9.0**	**0.2**	**[R] 3.2**	**7.5**	**0.4**	**[R] 20.3**	**[R] 208.7**	**640.0**	**[R] 848.7**
1991	(s)	194.5	10.2	0.1	[R] 3.0	5.7	0.1	[R] 19.1	[R] 213.5	[R] 663.3	[R] 876.8
1992	(s)	190.5	13.6	0.1	[R] 5.6	4.9	0.3	[R] 24.5	[R] 215.0	[R] 658.1	[R] 873.2
1993	0.5	227.5	16.9	0.2	[R] 3.0	2.4	0.4	[R] 22.9	[R] 250.9	[R] 686.6	[R] 937.5
1994	0.7	215.3	12.4	0.1	[R] 5.5	3.3	(s)	[R] 21.4	[R] 237.3	[R] 714.1	[R] 951.5
1995	**1.9**	**208.8**	**15.2**	**0.2**	**7.7**	**3.3**	**0.2**	**26.5**	**237.2**	**720.8**	**958.1**

[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.
(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 110. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Kansas

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.45**	**0.45**	**0.27**	**0.74**	**0.64**	**0.69**	**0.83**	**5.08**	**2.64**	**0.43**	**R 0.81**	**R 1.23**	**—**	**0.60**	**3.50**	**0.78**
1971	—	0.50	0.50	0.29	0.85	0.69	0.74	0.90	5.27	2.65	0.58	R 0.79	R 1.25	—	R 0.62	3.50	0.79
1972	—	0.50	0.50	0.33	0.88	0.69	0.74	0.87	5.58	2.58	0.53	R 0.77	R 1.18	—	0.63	3.57	0.81
1973	—	0.45	0.45	0.37	0.89	0.82	0.88	0.98	5.33	3.03	0.63	R 0.82	R 1.29	—	0.73	3.75	0.92
1974	—	0.96	0.96	0.41	1.85	1.73	1.86	1.98	7.22	4.19	1.51	R 1.18	R 2.15	—	1.11	4.28	R 1.32
1975	**—**	**0.92**	**0.92**	**0.55**	**2.10**	**2.13**	**2.27**	**1.91**	**7.48**	**4.50**	**1.84**	**R 1.71**	**R 2.44**	**—**	**1.43**	**5.62**	**R 1.83**
1976	—	1.19	1.19	0.83	2.06	2.29	2.46	2.18	7.05	4.75	1.85	R 1.90	R 2.52	—	1.60	6.43	2.03
1977	—	1.05	1.05	1.01	2.07	2.57	2.77	2.64	6.97	5.01	2.00	R 2.18	R 2.77	—	R 1.82	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	R 2.09	R 2.78	—	1.93	8.58	R 2.54
1979	—	1.56	1.56	1.66	2.57	3.46	3.65	3.11	10.21	6.91	2.29	R 2.58	R 3.42	—	2.41	9.05	R 2.89
1980	**—**	**1.32**	**1.32**	**2.35**	**4.02**	**4.99**	**5.22**	**3.58**	**14.36**	**9.27**	**2.53**	**R 3.74**	**R 4.67**	**—**	**R 3.24**	**10.68**	**R 3.92**
1981	—	1.53	1.53	3.04	5.66	6.22	6.55	5.13	18.00	10.11	4.04	R 5.99	R 6.39	—	R 4.24	12.32	R 4.99
1982	—	1.72	1.72	2.92	4.50	6.48	6.87	4.73	17.25	10.09	3.87	R 5.39	R 5.78	—	R 4.19	14.24	R 5.11
1983	—	1.75	1.75	3.37	4.89	6.60	6.74	5.37	16.98	8.99	3.89	R 4.93	R 5.84	—	R 4.55	15.64	R 5.70
1984	—	1.76	1.76	4.11	4.96	6.54	7.16	5.09	17.63	9.12	4.12	R 5.10	R 5.63	—	R 4.92	15.18	R 5.73
1985	**—**	**1.69**	**1.69**	**3.54**	**5.22**	**6.22**	**6.81**	**R 4.26**	**17.61**	**9.28**	**3.86**	**R 4.81**	**R 5.14**	**—**	**R 4.35**	**14.74**	**R 5.21**
1986	—	1.74	1.74	3.17	3.88	4.06	4.44	R 8.58	15.59	6.72	2.28	R 4.41	R 6.30	—	R 4.88	15.76	R 5.91
1987	—	1.58	1.58	2.93	3.70	4.50	4.92	R 8.07	R 13.58	7.05	2.36	R 4.72	R 6.20	—	R 4.56	15.33	R 5.55
1988	—	1.42	1.42	2.39	3.49	4.16	4.55	R 8.04	R 14.62	6.78	1.67	R 4.07	R 5.86	—	R 4.38	14.68	R 5.34
1989	—	1.28	1.28	3.08	3.00	4.73	5.17	R 7.43	14.48	7.66	2.04	R 4.76	R 5.95	—	R 4.68	14.17	R 5.65
1990	**—**	**1.18**	**1.18**	**2.88**	**2.94**	**5.83**	**6.37**	**R 4.28**	**14.60**	**8.90**	**2.13**	**R 4.83**	**R 4.72**	**d R 1.75**	**d R 3.81**	**R 14.49**	**d R 4.90**
1991	—	1.26	1.26	2.64	2.98	5.19	5.67	R 3.57	R 16.80	8.72	1.48	R 2.94	R 4.18	1.75	R 3.36	14.51	R 4.54
1992	—	1.31	1.31	2.64	2.54	5.15	5.63	R 8.09	R 18.32	8.49	2.21	R 2.73	R 5.93	R 1.75	R 4.28	R 14.45	R 5.29
1993	—	1.40	1.40	2.67	3.16	5.00	5.47	R 4.39	R 18.96	8.31	2.09	R 2.53	R 4.52	R 1.75	R 3.45	R 14.49	R 4.68
1994	—	1.35	1.35	2.75	3.17	4.86	5.31	R 7.13	R 19.11	8.29	2.22	R 2.70	R 5.04	R 1.75	R 3.58	R 14.45	R 4.61
1995	**—**	**1.34**	**1.34**	**2.22**	**3.41**	**4.86**	**5.32**	**7.48**	**19.40**	**8.48**	**2.51**	**2.89**	**5.08**	**1.75**	**3.39**	**14.12**	**4.75**
	Expenditures in Million Nominal Dollars																
1970	**—**	**1.0**	**1.0**	**35.5**	**10.7**	**9.4**	**0.6**	**5.4**	**6.4**	**38.5**	**0.2**	**R 11.9**	**R 83.0**	**—**	**R 119.6**	**46.8**	**R 166.4**
1971	—	0.9	0.9	40.2	14.4	11.4	0.4	5.9	7.3	39.0	(s)	R 12.4	R 90.9	—	R 132.0	49.7	R 181.6
1972	—	1.0	1.0	47.8	14.0	13.2	0.2	6.2	8.3	35.8	2.2	R 12.8	R 92.7	—	R 141.5	51.6	R 193.1
1973	—	1.3	1.3	50.3	15.5	18.1	0.2	8.3	10.4	43.8	3.6	R 15.6	R 115.5	—	R 167.0	58.7	R 225.7
1974	—	2.8	2.8	52.4	33.6	38.3	0.3	19.3	13.5	55.2	4.5	R 21.6	R 186.3	—	R 241.6	68.0	R 309.6
1975	**—**	**2.5**	**2.5**	**51.5**	**30.1**	**43.8**	**0.3**	**19.7**	**11.5**	**56.8**	**9.0**	**R 32.0**	**R 203.2**	**—**	**R 257.3**	**106.5**	**R 363.8**
1976	—	2.2	2.2	90.5	32.0	63.3	0.4	29.7	12.0	52.7	7.2	R 36.4	R 233.6	—	R 326.4	127.7	R 454.1
1977	—	3.8	3.8	117.8	35.7	70.6	0.8	37.7	17.2	59.1	14.0	R 43.5	R 278.7	—	R 400.2	164.6	R 564.8
1978	—	2.8	2.8	136.7	49.1	86.3	1.0	31.4	20.2	47.3	15.1	R 42.9	R 293.3	—	R 432.9	194.5	R 627.4
1979	—	7.2	7.2	283.9	53.9	143.5	7.8	72.8	28.4	61.2	15.2	R 56.6	R 439.4	—	R 730.5	215.9	R 946.4
1980	**—**	**9.4**	**9.4**	**322.0**	**80.5**	**101.0**	**14.1**	**72.5**	**35.5**	**58.3**	**6.1**	**R 81.1**	**R 449.1**	**—**	**R 780.5**	**256.6**	**R 1,037.1**
1981	—	11.6	11.6	442.3	70.2	127.5	8.4	97.1	42.7	71.7	13.5	R 145.9	R 577.0	—	R 1,031.0	304.8	R 1,335.8
1982	—	13.7	13.7	328.0	56.4	148.4	7.8	163.0	37.3	56.9	13.0	R 104.0	R 587.0	—	R 928.6	321.6	R 1,250.2
1983	—	10.7	10.7	308.1	47.1	131.3	5.4	180.8	38.5	39.8	25.6	R 95.5	R 564.0	—	R 882.9	352.0	R 1,234.9
1984	—	11.7	11.7	458.0	63.5	140.7	3.7	453.8	42.6	62.5	15.1	R 99.8	R 881.6	—	R 1,351.3	355.4	R 1,706.7
1985	**—**	**13.1**	**13.1**	**400.3**	**58.9**	**141.3**	**0.8**	**R 339.0**	**39.6**	**51.9**	**0.8**	**R 96.3**	**R 728.7**	**—**	**R 1,142.1**	**351.8**	**R 1,493.9**
1986	—	9.7	9.7	297.7	68.4	107.6	1.2	R 459.2	34.3	32.8	4.0	R 81.9	R 789.5	—	R 1,097.0	372.9	R 1,469.8
1987	—	8.7	8.7	328.4	64.2	112.4	1.1	R 416.6	R 33.8	36.1	3.4	R 87.1	R 754.7	—	R 1,091.7	369.8	R 1,461.5
1988	—	6.5	6.5	241.3	101.4	107.7	0.3	R 492.2	35.1	30.2	5.0	R 76.0	R 847.8	—	R 1,095.6	375.9	R 1,471.5
1989	—	5.2	5.2	291.2	61.9	108.0	0.6	R 440.0	35.6	33.7	2.7	R 85.9	R 768.4	—	R 1,064.8	367.7	R 1,432.5
1990	**—**	**4.5**	**4.5**	**316.4**	**75.7**	**132.6**	**0.4**	**R 207.2**	**37.0**	**35.5**	**1.8**	**R 89.2**	**R 579.4**	**d R 0.4**	**d R 900.7**	**R 389.7**	**d R 1,290.4**
1991	—	4.6	4.6	307.6	73.5	138.2	0.3	R 146.1	38.1	34.6	0.7	R 43.4	R 474.8	0.5	R 787.5	399.4	R 1,186.9
1992	—	5.1	5.1	321.3	62.7	136.1	0.5	R 442.4	R 42.3	30.1	1.4	R 41.8	R 757.2	R 0.4	R 1,084.1	R 405.8	R 1,489.9
1993	—	4.5	4.5	342.7	76.2	148.3	0.3	R 106.3	44.6	38.9	2.6	R 34.2	R 451.6	R 0.4	R 799.3	R 418.8	R 1,218.1
1994	—	4.4	4.4	487.6	99.6	152.1	0.2	R 158.3	R 47.0	41.1	1.5	R 35.6	R 535.4	R 0.4	R 1,027.9	R 432.7	R 1,460.6
1995	**—**	**4.5**	**4.5**	**270.8**	**88.4**	**147.1**	**0.3**	**82.7**	**46.9**	**44.3**	**0.2**	**37.6**	**447.4**	**0.5**	**723.2**	**439.5**	**1,162.7**

[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.
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 111. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Kansas

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	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	2.65	0.63	2.35	2.35	—	2.35
1972	0.50	—	2.19	1.23	0.78	0.87	5.58	2.58	0.61	2.32	2.32	—	2.32
1973	0.45	—	2.36	1.56	0.93	0.98	5.33	3.03	0.76	2.71	2.71	—	2.71
1974	0.96	—	3.23	2.57	1.60	1.98	7.22	4.19	1.50	3.83	3.83	—	3.83
1975	**0.92**	**—**	**3.45**	**2.70**	**2.09**	**1.91**	**7.48**	**4.50**	**1.66**	**4.13**	**4.13**	**—**	**4.13**
1976	1.19	—	3.59	2.80	2.26	2.18	7.05	4.75	1.59	4.38	4.38	—	4.38
1977	1.05	—	3.97	3.14	2.69	2.64	6.97	5.01	1.94	4.60	4.60	—	4.60
1978	—	—	4.29	3.29	2.90	2.79	7.60	5.11	1.73	4.69	4.69	—	4.69
1979	—	—	5.73	5.02	4.03	3.11	10.21	6.91	2.06	6.32	6.32	—	6.32
1980	**—**	**—**	**9.02**	**7.05**	**6.47**	**3.58**	**14.36**	**9.27**	**3.82**	**8.58**	**8.58**	**—**	**8.58**
1981	—	—	10.84	8.18	7.60	5.13	18.00	10.11	4.63	9.59	9.59	—	9.59
1982	—	—	10.92	7.90	7.19	4.73	17.25	10.09	—	9.48	9.48	—	9.48
1983	—	—	10.44	6.96	6.60	5.37	16.98	8.99	4.46	8.48	8.48	—	8.48
1984	—	—	10.27	7.02	6.45	5.09	17.63	9.12	4.84	8.47	8.47	—	8.47
1985	**—**	**—**	**9.99**	**6.75**	**5.94**	**[R] 4.26**	**17.61**	**9.28**	**—**	**8.38**	**8.38**	**—**	**8.38**
1986	—	—	8.41	6.43	3.73	[R] 8.58	15.59	6.72	2.34	6.30	6.30	—	6.30
1987	—	—	7.55	6.69	4.01	[R] 8.07	[R] 13.58	7.05	—	[R] 6.75	[R] 6.75	—	[R] 6.75
1988	—	—	7.41	6.21	3.81	[R] 8.04	[R] 14.62	6.78	—	6.47	6.47	—	6.47
1989	—	—	8.28	6.87	4.27	[R] 7.43	14.48	7.66	—	7.25	7.25	—	7.25
1990	**—**	**—**	**9.32**	**8.28**	**5.57**	**[R] 4.28**	**14.60**	**8.90**	**—**	**8.51**	**8.51**	**—**	**8.51**
1991	—	—	8.71	7.94	4.81	[R] 3.57	[R] 16.80	8.72	—	8.31	8.31	—	8.31
1992	—	—	8.54	7.80	4.36	[R] 8.09	[R] 18.32	8.49	—	[R] 8.04	[R] 8.04	—	[R] 8.04
1993	—	—	8.24	7.76	4.19	[R] 4.39	[R] 18.96	8.31	—	7.96	7.96	—	7.96
1994	—	3.18	7.96	7.61	4.13	[R] 9.10	[R] 19.11	8.29	—	8.09	8.09	—	8.09
1995	**—**	**2.75**	**8.36**	**7.56**	**4.19**	**9.45**	**19.40**	**8.48**	**—**	**8.10**	**8.10**	**—**	**8.10**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**3.6**	**32.2**	**6.4**	**1.1**	**13.8**	**358.2**	**(s)**	**415.3**	**415.3**	**—**	**415.3**
1971	(s)	—	3.3	35.8	6.6	1.3	16.2	364.2	0.1	427.6	427.6	—	427.6
1972	(s)	—	2.9	37.4	6.2	1.3	18.4	381.6	0.2	448.1	448.1	—	448.1
1973	(s)	—	2.5	53.7	7.2	1.4	19.8	449.7	0.3	534.6	534.6	—	534.6
1974	(s)	—	3.8	91.2	12.4	2.9	25.7	621.7	0.5	758.1	758.1	—	758.1
1975	**(s)**	**—**	**3.1**	**92.9**	**15.0**	**2.6**	**23.6**	**693.1**	**0.2**	**830.4**	**830.4**	**—**	**830.4**
1976	(s)	—	4.2	93.0	15.4	3.4	24.7	785.6	0.2	926.5	926.5	—	926.5
1977	(s)	—	5.1	117.7	21.1	3.9	25.5	808.7	0.5	982.4	982.4	—	982.4
1978	—	—	4.6	145.5	24.2	4.6	29.8	844.5	0.3	1,053.6	1,053.6	—	1,053.6
1979	—	—	7.1	311.5	43.2	1.9	41.9	1,086.6	0.3	1,492.5	1,492.5	—	1,492.5
1980	**—**	**—**	**10.1**	**426.9**	**89.3**	**1.5**	**52.5**	**1,368.8**	**(s)**	**1,949.1**	**1,949.1**	**—**	**1,949.1**
1981	—	—	11.7	443.0	103.7	4.5	63.2	1,469.4	(s)	2,095.6	2,095.6	—	2,095.6
1982	—	—	10.5	427.5	73.3	4.1	55.2	1,444.7	—	2,015.3	2,015.3	—	2,015.3
1983	—	—	9.3	379.6	54.4	5.5	56.9	1,302.5	2.3	1,810.4	1,810.4	—	1,810.4
1984	—	—	8.0	416.9	120.6	1.9	63.0	1,295.3	1.3	1,907.0	1,907.0	—	1,907.0
1985	**—**	**—**	**6.9**	**399.8**	**147.6**	**[R] 1.5**	**58.6**	**1,314.7**	**—**	**[R] 1,929.1**	**[R] 1,929.1**	**—**	**[R] 1,929.1**
1986	—	—	6.9	344.9	148.2	[R] 3.1	50.8	966.1	(s)	[R] 1,519.9	[R] 1,519.9	—	[R] 1,519.9
1987	—	—	4.6	467.2	96.7	[R] 3.3	[R] 50.0	1,034.3	—	[R] 1,656.1	[R] 1,656.1	—	[R] 1,656.1
1988	—	—	5.5	418.1	89.2	[R] 4.1	51.9	1,063.0	—	[R] 1,631.8	[R] 1,631.8	—	[R] 1,631.8
1989	—	—	6.5	452.3	91.5	[R] 5.0	52.7	1,160.7	—	[R] 1,768.9	[R] 1,768.9	—	[R] 1,768.9
1990	**—**	**—**	**6.4**	**588.7**	**115.4**	**[R] 2.2**	**54.7**	**1,287.6**	**—**	**[R] 2,055.1**	**[R] 2,055.1**	**—**	**[R] 2,055.1**
1991	—	—	5.5	490.3	88.2	[R] 1.4	56.3	1,244.2	—	[R] 1,885.9	[R] 1,885.9	—	[R] 1,885.9
1992	—	—	6.1	453.4	101.0	[R] 2.9	[R] 62.6	1,206.2	—	[R] 1,832.3	[R] 1,832.3	—	[R] 1,832.3
1993	—	—	6.3	468.6	84.7	[R] 1.6	[R] 66.0	1,202.0	—	[R] 1,829.0	[R] 1,829.0	—	[R] 1,829.0
1994	—	(s)	5.7	431.2	45.4	[R] 5.0	[R] 69.5	1,222.3	—	1,779.2	1,779.2	—	1,779.2
1995	**—**	**(s)**	**6.2**	**593.2**	**57.2**	**1.9**	**69.3**	**1,261.4**	**—**	**1,989.2**	**1,989.2**	**—**	**1,989.2**

[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.

(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 112. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Kansas

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.31**	**0.30**	**0.47**	**0.62**	**—**	**0.52**	**—**	**—**	**0.30**
1971	0.31	0.32	0.61	0.82	—	0.69	—	—	0.33
1972	0.32	0.38	0.60	0.80	—	0.65	—	—	0.38
1973	0.32	0.29	0.76	1.36	—	0.91	—	—	0.32
1974	0.36	0.35	1.55	2.10	—	1.71	—	—	0.43
1975	**0.67**	**0.48**	**1.55**	**2.08**	**0.65**	**1.69**	**—**	**—**	**0.72**
1976	0.74	0.71	1.58	2.25	—	1.71	—	—	0.87
1977	0.75	1.01	1.94	2.62	—	2.05	—	—	1.04
1978	0.90	1.22	1.73	2.65	0.71	1.87	—	—	1.13
1979	0.99	1.44	2.04	3.52	—	2.35	—	—	1.26
1980	**1.07**	**1.78**	**3.78**	**5.74**	**—**	**4.60**	**—**	**—**	**1.38**
1981	1.18	2.19	4.63	7.12	—	5.65	—	—	1.51
1982	1.34	2.48	3.68	6.90	—	5.14	—	—	1.64
1983	1.42	2.95	4.48	6.03	—	5.22	—	—	1.72
1984	1.50	3.22	4.84	6.11	—	5.90	—	—	1.71
1985	**1.40**	**2.88**	**3.99**	**5.55**	**—**	**5.39**	**0.84**	**—**	**1.44**
1986	1.32	2.50	2.33	3.36	—	3.27	0.63	—	1.22
1987	1.27	2.18	2.39	3.87	—	3.62	0.51	—	1.16
1988	1.24	2.06	2.73	3.43	—	3.12	0.45	—	1.13
1989	1.24	1.98	2.13	4.33	—	3.81	0.32	—	1.04
1990	**1.24**	**1.76**	**1.86**	**5.40**	**—**	**4.86**	**0.30**	**—**	**1.08**
1991	1.23	1.71	1.41	4.32	—	4.25	0.31	—	1.12
1992	1.18	2.00	1.47	4.38	—	4.33	0.29	—	0.99
1993	1.02	2.32	2.00	4.16	—	3.61	0.33	—	0.95
1994	1.03	1.92	1.58	4.05	—	3.82	0.35	—	0.94
1995	**1.02**	**1.61**	**1.64**	**3.69**	**—**	**3.68**	**0.39**	**—**	**0.90**
	Expenditures in Million Nominal Dollars								
1970	**2.6**	**49.5**	**1.1**	**0.6**	**—**	**1.8**	**—**	**—**	**53.9**
1971	2.7	56.3	1.2	0.9	—	2.0	—	—	61.1
1972	3.3	68.0	2.3	1.0	—	3.3	—	—	74.6
1973	6.8	51.4	3.8	2.3	—	6.2	—	—	64.4
1974	13.1	58.0	13.4	7.4	—	20.7	—	—	91.9
1975	**39.9**	**60.6**	**40.3**	**18.6**	**(s)**	**58.9**	**—**	**—**	**159.5**
1976	53.0	86.3	40.9	14.4	—	55.3	—	—	194.6
1977	64.4	128.0	45.8	12.1	—	57.9	—	—	250.3
1978	120.6	139.0	42.8	11.7	(s)	54.5	—	—	314.2
1979	141.4	161.9	26.6	11.8	—	38.3	—	—	341.6
1980	**197.4**	**172.4**	**11.7**	**12.8**	**—**	**24.5**	**—**	**—**	**394.3**
1981	243.0	167.0	10.5	11.1	—	21.6	—	—	431.6
1982	273.9	145.0	6.8	10.6	—	17.5	—	—	436.4
1983	319.2	132.9	7.6	9.2	—	16.8	—	—	468.9
1984	403.3	101.2	1.2	7.6	—	8.8	—	—	513.3
1985	**352.6**	**59.1**	**0.5**	**6.3**	**—**	**6.8**	**34.9**	**—**	**453.4**
1986	324.6	36.4	0.2	3.4	—	3.6	47.7	—	412.3
1987	331.9	34.5	0.4	3.0	—	3.3	35.7	—	405.4
1988	328.0	38.6	2.1	3.2	—	5.3	32.4	—	404.4
1989	324.9	36.7	0.7	4.8	—	5.5	33.3	—	400.5
1990	**333.8**	**47.3**	**0.3**	**4.1**	**—**	**4.3**	**25.3**	**—**	**410.7**
1991	325.0	59.7	(s)	3.8	—	3.9	19.4	—	408.0
1992	295.2	27.1	(s)	2.6	—	2.6	26.7	—	351.7
1993	304.7	48.9	0.5	3.1	—	3.6	28.0	—	385.2
1994	303.3	51.5	0.1	3.1	—	3.2	31.5	—	389.4
1995	**291.4**	**44.1**	**(s)**	**3.2**	**—**	**3.2**	**42.0**	**—**	**380.7**

[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 113. Energy Price and Expenditure Estimates by Source, 1970-1995, Kentucky

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**	**0.25**	**0.26**	**0.65**	**1.21**	**0.73**	**1.90**	**2.93**	**0.56**	R **1.40**	R **2.14**	**—**	**—**	R **0.95**	**0.22**	**3.37**	R **1.67**
1971	0.44	0.28	0.29	0.69	1.18	0.76	1.94	3.00	0.73	R 1.46	R 2.25	—	—	0.99	0.26	3.35	R 1.77
1972	0.57	0.31	0.33	0.72	1.23	0.76	2.03	2.98	0.66	R 1.52	R 2.25	—	—	1.02	0.29	3.33	R 1.83
1973	0.66	0.33	0.35	0.76	1.41	0.90	2.62	3.22	0.88	R 1.62	R 2.49	—	—	1.15	0.31	3.54	R 2.05
1974	1.23	0.58	0.62	0.87	2.45	1.56	3.36	4.42	1.67	R 2.63	R 3.57	—	—	1.65	0.55	4.24	R 2.75
1975	**1.60**	**0.70**	**0.75**	**1.02**	**2.58**	**2.03**	**3.60**	**4.69**	**2.06**	R **3.00**	R **3.86**	**—**	**—**	**1.88**	**0.64**	**5.32**	R **3.29**
1976	1.67	0.73	0.76	1.19	2.73	2.18	4.03	4.84	2.04	R 3.11	R 3.96	—	—	1.93	0.69	5.50	R 3.38
1977	1.76	0.89	0.92	1.63	3.08	2.55	4.39	5.13	2.28	R 3.28	R 4.19	—	—	2.23	0.85	6.32	R 3.85
1978	1.89	1.14	1.17	1.79	3.19	2.88	4.21	5.20	2.27	R 3.50	R 4.26	—	—	2.44	1.11	7.72	R 4.17
1979	1.75	1.18	1.20	2.16	4.44	3.90	4.49	7.00	2.73	R 4.85	R 5.61	—	—	R 3.05	1.14	8.46	R 5.07
1980	**1.81**	**1.35**	**1.37**	**2.85**	**6.41**	**6.39**	**5.85**	**9.65**	**3.64**	R **7.34**	R **7.89**	**—**	**—**	R **4.01**	**1.32**	**10.07**	R **6.76**
1981	2.03	1.51	1.52	3.30	7.69	7.67	8.84	10.74	4.83	R 8.68	R 9.38	—	—	4.38	1.49	12.00	R 8.02
1982	2.04	1.59	1.60	4.27	7.48	7.42	7.68	10.30	4.87	R 7.64	R 8.91	—	—	4.47	1.58	13.79	R 8.36
1983	1.58	1.55	1.56	4.91	6.96	6.85	8.39	8.96	4.89	R 7.47	R 8.05	—	—	R 4.28	1.55	14.24	R 8.05
1984	1.91	1.51	1.53	4.76	6.96	6.63	8.22	8.72	5.09	R 7.74	R 7.95	—	—	R 4.15	1.49	13.76	R 7.85
1985	**1.93**	**1.46**	**1.48**	**4.77**	**6.64**	**6.17**	R **6.76**	**8.80**	**4.89**	R **7.57**	R **7.79**	**—**	**—**	**3.95**	**1.43**	**14.84**	R **7.98**
1986	1.75	1.38	1.39	4.38	5.47	4.39	R 7.17	6.69	3.08	R 6.49	R 6.22	—	—	3.29	1.34	15.26	R 7.23
1987	1.63	1.32	1.33	3.91	5.92	4.16	R 8.21	7.36	2.98	R 5.86	R 6.63	—	—	3.38	1.26	15.18	R 7.37
1988	1.73	1.24	1.26	3.89	5.78	3.93	R 7.41	7.42	2.91	R 5.64	R 6.52	—	—	3.27	1.20	15.08	R 7.30
1989	1.75	1.20	1.22	4.07	6.41	4.45	R 6.13	8.08	3.05	R 5.67	R 6.97	—	—	3.54	1.14	14.17	R 7.43
1990	**1.80**	**1.24**	**1.27**	**4.12**	**7.57**	**5.82**	R **7.11**	**9.25**	**3.61**	R **5.78**	R **8.03**	**—**	d R **2.84**	d **3.78**	**1.20**	R **13.16**	d R **7.85**
1991	1.72	1.23	1.24	3.90	7.02	4.92	R 6.63	8.94	3.12	R 5.59	R 7.46	—	2.84	3.68	1.18	12.96	R 7.57
1992	1.74	1.20	1.22	3.92	6.88	4.61	R 6.70	8.65	2.71	R 5.41	R 7.22	—	2.89	R 3.63	1.17	12.33	R 7.33
1993	1.68	1.21	1.22	4.30	6.98	4.36	R 10.05	8.51	2.76	R 5.20	R 7.31	—	2.76	R 3.58	1.17	12.70	R 7.41
1994	1.57	1.20	1.22	4.29	6.78	4.09	R 9.16	8.72	2.56	R 5.04	R 7.25	—	R 2.74	R 3.60	1.17	12.54	R 7.43
1995	**1.57**	**1.15**	**1.17**	**3.78**	**6.82**	**4.15**	**9.25**	**9.10**	**2.92**	**5.32**	**7.51**	**—**	**2.76**	**3.60**	**1.11**	**11.97**	**7.28**
	Expenditures in Million Nominal Dollars																
1970	**16.4**	**122.4**	**138.9**	**136.7**	**58.0**	**12.6**	**67.5**	**517.3**	**3.2**	R **99.1**	R **757.7**	**—**	**—**	R **1,033.3**	**-90.6**	**354.9**	R **1,297.6**
1971	20.1	140.0	160.1	144.5	53.7	11.5	70.4	562.9	1.9	R 102.5	R 802.9	—	—	R 1,107.5	-119.3	378.6	R 1,366.8
1972	24.8	167.1	191.9	156.8	68.4	9.4	82.8	588.6	3.4	R 105.4	R 858.0	—	—	R 1,206.7	-142.7	429.1	R 1,493.1
1973	21.4	179.5	200.9	161.2	88.1	12.0	116.6	666.6	0.8	R 124.3	R 1,008.5	—	—	R 1,370.6	-152.6	484.3	R 1,702.3
1974	47.6	323.4	371.0	171.3	148.5	17.8	147.3	918.6	11.8	R 180.3	R 1,424.3	—	—	R 1,966.6	-277.0	576.7	R 2,266.3
1975	**52.1**	**368.8**	**421.0**	**185.7**	**164.1**	**24.6**	**143.7**	**1,005.6**	**11.1**	R **193.9**	R **1,542.9**	**—**	**—**	R **2,149.6**	**-309.8**	**852.2**	R **2,692.0**
1976	36.1	433.6	469.7	267.3	217.4	26.5	166.9	1,089.3	23.3	R 221.5	R 1,744.8	—	—	R 2,481.8	-379.5	974.1	R 3,076.4
1977	36.2	527.6	563.8	327.5	305.7	31.9	181.9	1,183.6	30.6	R 250.7	R 1,984.4	—	—	R 2,875.7	-466.4	1,144.4	R 3,553.8
1978	47.3	677.6	724.9	337.9	354.9	41.6	185.8	1,228.0	22.4	R 284.8	R 2,117.5	—	—	R 3,180.3	-601.2	1,288.4	R 3,867.4
1979	41.0	693.0	734.0	413.4	550.3	56.5	175.5	1,564.6	20.6	R 476.9	R 2,844.4	—	—	R 3,991.8	-597.2	1,445.1	R 4,839.7
1980	**44.0**	**834.8**	**878.8**	**511.8**	**855.7**	**104.4**	**216.4**	**2,019.1**	**20.9**	R **641.7**	R **3,858.2**	**—**	**—**	R **5,248.8**	**-743.7**	**1,698.6**	R **6,203.7**
1981	19.3	988.4	1,007.7	573.0	813.6	139.7	252.4	2,267.4	29.0	R 412.9	R 3,915.0	—	—	R 5,495.7	-893.5	2,004.9	R 6,607.1
1982	25.4	976.6	1,002.0	676.8	761.7	154.9	193.5	2,167.0	26.0	R 386.0	R 3,689.1	—	—	R 5,367.9	-883.8	2,173.6	R 6,657.6
1983	47.0	945.0	992.0	745.7	827.4	154.9	214.4	1,895.2	24.2	R 386.2	R 3,502.4	—	—	R 5,240.1	-866.6	2,261.9	R 6,635.4
1984	69.5	955.0	1,024.5	780.6	898.5	121.9	168.2	1,868.9	14.1	R 409.1	R 3,480.7	—	—	R 5,285.9	-857.2	2,432.9	R 6,861.6
1985	**60.5**	**1,000.6**	**1,061.1**	**722.4**	**841.7**	**119.3**	R **132.6**	**1,845.7**	**9.5**	R **377.9**	R **3,326.9**	**—**	**—**	R **5,110.4**	**-883.4**	**2,528.3**	R **6,755.2**
1986	52.2	993.2	1,045.4	630.7	649.6	87.8	R 131.4	1,494.7	8.9	R 301.3	R 2,673.7	—	—	R 4,349.8	-886.1	2,552.6	R 6,016.2
1987	57.1	936.2	993.3	587.4	707.9	113.5	R 199.6	1,658.9	11.2	R 280.2	R 2,971.3	—	—	R 4,552.0	-832.6	2,596.4	R 6,315.8
1988	60.4	973.2	1,033.6	637.0	831.3	110.8	R 179.1	1,722.4	7.4	R 272.0	R 3,122.9	—	—	R 4,793.5	-884.5	2,747.0	R 6,656.0
1989	60.6	873.3	933.9	689.6	1,050.3	127.7	R 138.4	1,841.4	6.3	R 275.0	R 3,439.0	—	—	R 5,062.5	-768.0	2,792.2	R 7,086.7
1990	**56.9**	**961.8**	**1,018.6**	**656.4**	**1,031.7**	**188.2**	R **153.7**	**2,079.8**	**8.9**	R **282.6**	R **3,744.9**	**—**	d R **24.1**	d R **5,444.1**	**-859.2**	R **2,707.2**	d R **7,292.0**
1991	39.4	958.9	998.3	659.4	926.7	177.3	R 158.0	2,054.4	5.4	R 493.0	R 3,814.9	—	25.4	R 5,497.9	-862.0	R 2,800.7	R 7,436.6
1992	52.7	938.4	991.1	696.2	1,025.6	179.7	R 153.8	2,013.4	4.5	R 477.3	R 3,854.3	—	R 26.1	R 5,567.7	-862.7	R 2,782.1	R 7,487.1
1993	52.9	1,076.3	1,129.2	798.9	1,135.7	140.8	R 208.2	2,045.6	3.9	R 464.1	R 3,998.2	—	R 21.1	R 5,947.4	-969.0	R 2,911.9	R 7,890.3
1994	52.4	1,038.1	1,090.5	813.5	1,107.4	146.8	R 184.9	2,116.1	3.3	R 461.9	R 4,020.4	—	20.9	R 5,945.4	-947.5	R 3,058.6	R 8,056.5
1995	**60.3**	**1,023.2**	**1,083.4**	**796.3**	**1,155.5**	**148.2**	**185.1**	**2,299.2**	**1.9**	**470.2**	**4,260.0**	**—**	**22.8**	**6,162.6**	**-927.8**	**3,004.2**	**8,239.0**

[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 114. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Kentucky

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**0.86**	**0.81**	**1.19**	**1.73**	**2.36**	**1.98**	**—**	**1.08**	**5.85**	**1.87**
1971	0.82	0.87	1.30	1.59	2.28	1.92	—	1.10	5.38	1.88
1972	0.95	0.91	1.32	1.60	2.46	2.08	—	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	1.88	1.08	2.41	2.96	4.11	3.59	—	1.68	6.94	2.78
1975	**1.91**	**1.22**	**2.49**	**3.13**	**4.16**	**3.69**	**—**	**1.77**	**7.83**	**3.21**
1976	2.14	1.31	2.77	3.30	4.71	4.09	—	1.85	8.29	3.25
1977	2.41	1.77	3.20	3.59	5.08	4.38	—	2.30	9.09	3.93
1978	2.48	1.92	3.36	3.97	4.94	4.43	—	2.46	10.08	4.49
1979	2.18	2.33	4.62	6.19	5.88	5.79	—	3.11	10.87	5.22
1980	**2.30**	**3.00**	**6.89**	**8.52**	**8.31**	**8.10**	**—**	**4.13**	**12.91**	**6.84**
1981	2.63	3.44	8.54	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	5.09	7.66	8.18	9.43	8.46	—	5.54	16.63	9.64
1985	**2.45**	**5.15**	**7.67**	**8.19**	**9.78**	**8.62**	**—**	**5.75**	**17.06**	**10.10**
1986	2.29	4.75	5.10	5.45	9.15	6.96	—	5.06	16.94	9.83
1987	2.12	4.37	5.25	5.61	8.93	7.34	—	4.88	16.68	9.70
1988	2.04	4.32	5.60	5.98	8.34	6.97	—	4.75	16.60	9.49
1989	2.01	4.50	6.14	6.56	11.02	8.75	—	5.23	16.51	9.78
1990	**2.25**	**4.74**	**6.76**	**7.22**	**11.86**	**9.59**	**[d] 3.53**	**[d] 5.38**	**[R] 16.69**	**[d] 9.61**
1991	2.12	4.65	6.27	6.70	10.54	8.70	3.53	5.21	16.65	[R] 9.59
1992	2.09	4.74	6.42	6.86	11.12	8.97	3.53	5.27	[R] 16.70	[R] 9.38
1993	2.19	5.01	7.09	7.58	10.22	8.90	3.53	5.51	16.71	[R] 9.74
1994	2.18	5.14	6.17	6.59	[R] 11.72	[R] 9.24	3.53	[R] 5.68	16.93	[R] 10.06
1995	**2.05**	**4.61**	**5.45**	**5.82**	**11.53**	**8.81**	**3.53**	**5.20**	**16.48**	**9.58**
	Expenditures in Million Nominal Dollars									
1970	**3.8**	**71.6**	**2.8**	**20.4**	**30.0**	**53.1**	**—**	**128.6**	**139.6**	**268.1**
1971	2.6	74.1	2.7	17.0	29.5	49.2	—	125.9	138.4	264.3
1972	2.5	79.4	2.6	12.6	34.3	49.6	—	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	57.8	84.8	—	174.2	191.9	366.1
1975	**4.6**	**97.1**	**6.4**	**19.0**	**57.8**	**83.2**	**—**	**185.0**	**256.0**	**441.0**
1976	5.4	127.2	10.8	15.7	68.0	94.4	—	227.1	283.7	510.7
1977	10.2	169.2	17.7	16.2	73.2	107.1	—	286.5	356.0	642.4
1978	11.0	163.6	17.1	16.5	71.1	104.7	—	279.3	413.7	693.0
1979	13.7	182.2	22.4	72.8	50.1	145.4	—	341.3	443.9	785.2
1980	**5.6**	**224.9**	**32.9**	**84.6**	**63.0**	**180.4**	**—**	**410.9**	**575.9**	**986.8**
1981	11.2	246.0	28.4	28.0	58.7	115.1	—	372.4	693.6	1,065.9
1982	8.9	302.1	30.6	30.7	51.3	112.6	—	423.6	758.7	1,182.3
1983	7.5	334.7	30.2	47.0	63.3	140.5	—	482.7	854.5	1,337.2
1984	7.8	347.8	32.7	39.6	45.7	118.0	—	473.6	832.6	1,306.1
1985	**5.2**	**318.9**	**36.8**	**38.7**	**55.9**	**131.4**	**—**	**455.5**	**846.2**	**1,301.7**
1986	5.7	292.7	20.3	20.7	54.9	95.9	—	394.4	884.7	1,279.1
1987	5.3	267.7	23.2	14.2	77.0	114.4	—	387.4	915.1	1,302.6
1988	6.3	286.8	28.9	21.9	65.4	116.2	—	409.4	952.0	1,361.4
1989	3.9	304.6	26.7	21.7	90.3	138.6	—	447.1	953.0	1,400.1
1990	**2.9**	**276.4**	**25.4**	**13.1**	**78.5**	**117.0**	**[d] 18.8**	**[d] 415.1**	**[R] 957.5**	**[d R] 1,372.6**
1991	3.4	289.6	25.7	14.4	81.9	122.0	19.8	434.8	[R] 1,059.5	[R] 1,494.3
1992	3.9	310.2	28.8	14.2	81.6	124.6	20.9	459.5	[R] 1,013.4	[R] 1,472.9
1993	5.1	351.3	32.2	17.0	86.5	135.7	15.8	507.8	1,096.0	1,603.9
1994	5.4	341.4	29.3	14.6	[R] 96.7	[R] 140.6	15.5	[R] 503.0	1,125.0	[R] 1,628.0
1995	**2.3**	**334.1**	**24.8**	**13.7**	**94.4**	**132.9**	**17.2**	**486.4**	**1,155.1**	**1,641.5**

[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 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, 1970-1995, Kentucky

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.44**	**0.66**	**1.02**	**0.79**	**1.65**	**2.93**	**0.78**	**1.34**	**0.75**	**5.48**	**1.51**
1971	0.39	0.69	1.11	0.85	1.76	3.00	0.74	1.44	0.79	4.98	1.54
1972	0.50	0.74	1.12	0.85	1.81	2.98	0.74	1.49	0.84	5.09	1.69
1973	0.52	0.79	1.34	1.00	1.91	3.22	0.90	1.67	0.91	4.26	1.59
1974	0.81	0.90	2.16	2.23	3.01	4.42	1.64	2.67	1.19	4.73	2.03
1975	**1.30**	**1.05**	**2.29**	**2.53**	**3.29**	**4.69**	**1.69**	**2.88**	**1.43**	**5.26**	**2.55**
1976	1.18	1.14	2.56	2.56	3.66	4.84	1.69	3.00	1.46	5.52	2.42
1977	1.23	1.64	2.93	2.83	4.02	5.13	1.81	3.27	1.95	6.42	3.09
1978	1.45	1.81	3.07	3.21	3.85	5.20	1.74	3.41	2.12	7.53	3.59
1979	1.50	2.18	4.41	4.60	4.10	7.00	2.24	4.63	2.62	8.28	4.24
1980	**1.75**	**2.89**	**6.49**	**6.08**	**5.22**	**9.65**	**4.12**	**6.53**	**4.01**	**10.42**	**5.96**
1981	1.86	3.35	8.05	6.94	8.91	10.74	5.47	8.57	3.82	11.94	6.80
1982	1.91	4.33	7.57	7.17	7.22	10.30	5.28	8.13	4.46	14.93	8.56
1983	1.76	5.06	6.44	6.83	7.95	8.96	4.84	6.88	5.16	14.38	8.59
1984	1.81	4.93	6.43	7.71	7.85	8.72	5.09	6.85	5.08	12.50	7.76
1985	**1.88**	**4.95**	**6.09**	**7.33**	**[R] 5.52**	**8.80**	**4.89**	**[R] 6.53**	**5.09**	**12.34**	**7.90**
1986	1.79	4.55	3.72	4.73	[R] 6.20	6.69	3.08	[R] 4.67	4.31	12.94	[R] 7.85
1987	2.00	4.11	4.25	5.25	[R] 7.81	7.36	2.98	[R] 6.00	[R] 4.19	15.63	9.11
1988	1.76	4.06	3.84	4.85	[R] 6.97	7.42	2.91	[R] 5.06	4.00	15.30	8.64
1989	1.83	4.19	4.48	5.50	[R] 3.34	8.08	3.05	[R] 5.30	[R] 4.20	15.13	9.01
1990	**1.86**	**4.35**	**5.55**	**6.84**	**[R] 5.01**	**9.25**	**3.61**	**[R] 6.65**	**[R] 4.63**	**15.33**	**[R] 9.77**
1991	1.87	4.24	4.92	6.09	[R] 4.74	8.94	—	[R] 5.84	[R] 4.36	[R] 15.21	[R] 9.60
1992	1.76	4.22	4.72	6.02	[R] 4.62	8.65	—	[R] 5.46	[R] 4.26	[R] 15.11	[R] 9.24
1993	1.70	4.60	4.54	5.84	[R] 9.94	8.51	2.76	[R] 6.11	[R] 4.53	[R] 15.10	[R] 9.42
1994	1.75	4.69	4.33	[R] 5.67	[R] 8.22	8.72	2.56	[R] 5.23	[R] 4.51	[R] 15.09	9.40
1995	**1.77**	**4.20**	**4.34**	**5.68**	**8.25**	**9.10**	**—**	**5.15**	**4.27**	**15.01**	**9.23**
	Expenditures in Million Nominal Dollars										
1970	**3.5**	**28.3**	**5.0**	**1.8**	**3.7**	**4.1**	**0.1**	**14.6**	**46.5**	**64.8**	**111.2**
1971	2.2	29.9	4.8	1.8	4.0	3.7	(s)	14.3	46.4	62.9	109.4
1972	2.4	32.2	4.6	1.3	4.5	3.5	(s)	13.9	48.4	73.3	121.7
1973	2.7	36.8	6.3	1.5	5.1	4.1	(s)	17.0	56.5	67.4	123.9
1974	4.4	38.5	10.3	3.2	7.5	5.8	0.1	26.8	69.7	85.5	155.2
1975	**5.6**	**40.8**	**12.2**	**3.0**	**8.1**	**6.8**	**0.1**	**30.2**	**76.6**	**116.4**	**193.0**
1976	5.4	65.6	20.7	2.4	9.3	6.3	0.2	38.8	109.9	129.7	239.6
1977	9.5	83.1	33.6	2.5	10.2	7.0	0.2	53.6	146.1	164.9	311.0
1978	11.8	85.4	32.4	2.6	9.8	7.6	0.1	52.6	149.8	197.9	347.7
1979	17.3	89.3	44.2	10.6	6.2	9.4	0.2	70.6	177.3	224.6	401.9
1980	**7.7**	**114.9**	**99.6**	**21.4**	**7.0**	**12.7**	**0.5**	**141.1**	**263.8**	**299.9**	**563.7**
1981	14.4	123.4	28.2	4.9	10.7	14.5	0.6	59.0	196.8	356.7	553.4
1982	12.2	154.9	21.6	3.4	7.0	14.3	0.1	46.4	213.6	459.3	672.9
1983	10.0	175.9	59.4	7.4	9.2	15.0	1.4	92.3	278.3	460.1	738.3
1984	10.3	182.2	64.1	7.5	6.7	13.5	1.0	92.8	285.3	396.2	681.5
1985	**7.4**	**172.1**	**53.9**	**3.8**	**[R] 5.6**	**17.5**	**(s)**	**[R] 80.8**	**[R] 260.3**	**398.7**	**[R] 658.9**
1986	8.4	154.4	22.2	4.0	[R] 6.6	14.2	0.6	[R] 47.6	[R] 210.4	437.7	[R] 648.1
1987	9.2	141.8	13.2	2.0	[R] 11.9	16.2	(s)	[R] 43.3	[R] 194.3	546.5	[R] 740.8
1988	10.1	150.4	21.8	3.9	[R] 9.6	15.8	0.7	[R] 51.9	[R] 212.3	565.0	[R] 777.3
1989	6.6	157.2	16.9	5.1	[R] 4.8	16.7	(s)	[R] 43.5	[R] 207.4	588.0	[R] 795.4
1990	**4.5**	**143.8**	**21.2**	**3.7**	**[R] 5.9**	**21.5**	**(s)**	**[R] 52.2**	**[R] 200.4**	**[R] 613.9**	**[R] 814.3**
1991	5.6	149.6	20.5	3.5	[R] 6.5	15.0	—	[R] 45.5	[R] 200.8	[R] 654.4	[R] 855.1
1992	6.0	158.3	24.2	2.0	[R] 6.0	12.6	—	[R] 44.7	[R] 209.0	[R] 628.7	[R] 837.7
1993	7.3	182.3	17.5	2.6	[R] 14.8	1.8	(s)	[R] 36.8	[R] 226.3	[R] 649.4	[R] 875.7
1994	8.0	183.0	24.9	2.3	[R] 12.0	1.8	(s)	[R] 41.1	[R] 232.1	[R] 667.2	[R] 899.3
1995	**3.7**	**177.6**	**30.4**	**3.8**	**11.9**	**2.0**	**—**	**48.1**	**229.5**	**692.6**	**922.0**

[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 116. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Kentucky

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.44**	**0.42**	**0.48**	**0.67**	**0.73**	**0.79**	**1.65**	**5.08**	**2.93**	**0.44**	[R] **1.19**	[R] **1.21**	**—**	**0.70**	**2.16**	**1.00**
1971	0.44	0.39	0.41	0.53	0.72	0.78	0.85	1.76	5.27	3.00	0.60	[R] 1.28	[R] 1.33	—	0.77	2.37	[R] 1.13
1972	0.57	0.50	0.53	0.54	0.78	0.78	0.85	1.81	5.58	2.98	0.56	[R] 1.28	[R] 1.37	—	[R] 0.84	2.48	[R] 1.25
1973	0.66	0.52	0.58	0.56	0.83	0.93	1.00	1.91	5.33	3.22	0.65	[R] 1.41	[R] 1.48	—	[R] 0.94	2.64	[R] 1.39
1974	1.23	0.81	0.99	0.65	1.41	2.06	2.23	3.01	7.22	4.42	1.68	[R] 2.29	[R] 2.45	—	[R] 1.48	3.32	[R] 1.95
1975	**1.60**	**1.30**	**1.44**	**0.75**	**1.80**	**2.31**	**2.53**	**3.29**	**7.48**	**4.69**	**2.11**	[R] **2.77**	[R] **2.77**	**—**	[R] **1.82**	**4.56**	[R] **2.67**
1976	1.67	1.18	1.35	1.07	1.82	2.34	2.56	3.66	7.05	4.84	2.07	[R] 3.01	[R] 2.87	—	[R] 2.00	4.69	[R] 2.87
1977	1.76	1.23	1.42	1.40	1.98	2.74	2.83	4.02	6.97	5.13	2.33	[R] 3.30	[R] 3.10	—	[R] 2.36	5.37	[R] 3.31
1978	1.89	1.45	1.62	1.58	2.20	2.92	3.21	3.85	7.60	5.20	2.34	[R] 3.42	[R] 3.25	—	[R] 2.50	6.80	[R] 3.67
1979	1.75	1.50	1.59	1.96	2.58	3.61	4.60	4.10	10.21	7.00	2.85	[R] 4.70	[R] 4.12	—	[R] 2.98	7.55	[R] 4.18
1980	**1.81**	**1.75**	**1.77**	**2.66**	**3.56**	**5.43**	**6.08**	**5.22**	**14.36**	**9.65**	**3.58**	[R] **7.36**	[R] **6.08**	**—**	[R] **4.14**	**8.63**	[R] **5.28**
1981	2.03	1.86	1.89	3.14	4.81	6.34	6.94	8.91	18.00	10.74	4.68	[R] 8.38	[R] 7.47	—	[R] 4.72	10.55	[R] 6.43
1982	2.04	1.91	1.94	4.06	4.57	6.54	7.17	7.22	17.25	10.30	4.87	[R] 7.50	[R] 6.72	—	[R] 4.68	11.93	[R] 6.69
1983	1.58	1.76	1.68	4.48	4.57	6.73	6.83	7.95	16.98	8.96	4.89	[R] 6.45	[R] 6.81	—	[R] 4.49	12.23	[R] 6.56
1984	1.91	1.81	1.85	4.29	4.40	6.67	7.71	7.85	17.63	8.72	5.09	[R] 7.04	[R] 7.03	—	[R] 4.40	12.66	[R] 6.77
1985	**1.93**	**1.88**	**1.90**	**4.25**	**4.74**	**6.34**	**7.33**	[R] **5.52**	**17.61**	**8.80**	**4.89**	[R] **6.43**	[R] **6.52**	**—**	[R] **4.21**	**14.51**	[R] **6.98**
1986	1.75	1.79	1.78	3.79	4.90	4.10	4.73	[R] 6.20	15.59	6.69	3.08	[R] 5.41	[R] 5.30	—	[R] 3.60	15.14	[R] 6.73
1987	1.63	2.00	1.84	3.27	3.19	4.54	5.25	[R] 7.81	[R] 13.58	7.36	2.98	[R] 5.81	[R] 5.41	—	[R] 3.64	13.98	[R] 6.32
1988	1.73	1.76	1.74	3.32	3.05	4.20	4.85	[R] 6.97	[R] 14.62	7.42	2.91	[R] 5.05	[R] 5.08	—	[R] 3.48	14.00	[R] 6.38
1989	1.75	1.83	1.80	3.55	2.86	4.76	5.50	[R] 3.34	14.48	8.08	3.05	[R] 5.24	[R] 4.75	—	3.33	12.46	6.01
1990	**1.80**	**1.86**	**1.84**	**3.47**	**2.94**	**5.92**	**6.84**	[R] **5.01**	**14.60**	**9.25**	**3.61**	[R] **5.48**	[R] **5.48**	[d R] **1.67**	[d R] **3.63**	[R] **10.50**	[d R] **5.69**
1991	1.72	1.87	1.82	3.08	3.30	5.27	6.09	[R] 4.74	[R] 16.80	8.94	3.12	[R] 5.15	[R] 5.24	1.67	[R] 3.76	9.93	[R] 5.49
1992	1.74	1.76	1.75	3.05	2.03	5.21	6.02	[R] 4.62	[R] 18.32	8.65	2.71	[R] 5.02	[R] 5.05	[R] 1.67	[R] 3.67	9.25	[R] 5.35
1993	1.68	1.70	1.70	3.49	2.36	5.05	5.84	[R] 9.94	[R] 18.96	8.51	2.76	[R] 4.52	[R] 5.30	[R] 1.67	[R] 3.72	9.67	[R] 5.42
1994	1.57	1.75	1.67	3.43	2.44	4.91	5.67	[R] 7.21	[R] 19.11	8.72	2.56	[R] 4.33	[R] 4.95	[R] 1.67	[R] 3.63	9.51	[R] 5.40
1995	**1.57**	**1.77**	**1.69**	**2.97**	**2.61**	**4.91**	**5.68**	**7.56**	**19.40**	**9.10**	**2.92**	**4.64**	**5.20**	**1.66**	**3.52**	**8.58**	**4.99**
	Expenditures in Million Nominal Dollars																
1970	**16.4**	**27.5**	**44.0**	**34.3**	**13.8**	**8.9**	**2.7**	**33.5**	**14.6**	**3.2**	**1.8**	[R] **30.8**	[R] **109.3**	**—**	[R] **187.5**	**150.5**	[R] **338.1**
1971	20.1	20.1	40.2	37.5	15.0	10.4	2.5	36.4	16.5	4.1	0.4	[R] 35.1	[R] 120.5	—	[R] 198.2	177.2	[R] 375.4
1972	24.8	25.1	49.9	41.5	15.5	11.0	2.9	43.6	18.7	3.3	1.5	[R] 38.3	[R] 134.8	—	[R] 226.2	224.5	[R] 450.7
1973	21.4	24.5	45.9	42.3	19.9	14.8	3.3	50.0	20.1	3.8	(s)	[R] 46.3	[R] 158.3	—	[R] 246.5	247.3	[R] 493.8
1974	47.6	40.5	88.2	46.9	24.1	35.7	4.4	81.2	26.2	4.7	9.7	[R] 76.0	[R] 262.0	—	[R] 397.0	299.3	[R] 696.3
1975	**52.1**	**50.1**	**102.3**	**47.5**	**31.3**	**44.7**	**4.2**	**77.0**	**23.5**	**4.8**	**9.9**	[R] **86.5**	[R] **281.9**	**—**	[R] **431.7**	**479.9**	[R] **911.5**
1976	36.1	46.5	82.5	74.3	32.2	56.9	7.7	88.7	24.6	4.0	21.7	[R] 111.5	[R] 347.4	—	[R] 504.2	560.7	[R] 1,065.0
1977	36.2	45.5	81.7	74.4	36.7	100.5	7.4	97.3	22.8	4.1	28.7	[R] 141.0	[R] 438.5	—	[R] 594.6	623.6	[R] 1,218.2
1978	47.3	57.9	105.2	87.6	43.2	109.2	9.1	103.6	26.6	3.1	20.3	[R] 158.8	[R] 474.1	—	[R] 666.9	676.8	[R] 1,343.7
1979	41.0	68.7	109.7	140.3	50.6	122.3	27.7	118.8	37.5	3.5	17.7	[R] 237.8	[R] 615.7	—	[R] 865.7	776.5	[R] 1,642.2
1980	**44.0**	**90.6**	**134.6**	**167.8**	**47.8**	**203.6**	**18.6**	**146.2**	**46.9**	**4.5**	**17.1**	[R] **372.3**	[R] **856.9**	**—**	[R] **1,159.2**	**822.8**	[R] **1,982.1**
1981	19.3	91.4	110.7	196.7	61.8	196.6	22.2	180.2	56.4	4.1	20.3	[R] 180.3	[R] 721.9	—	[R] 1,029.3	954.7	[R] 1,984.0
1982	25.4	90.0	115.4	214.5	87.9	187.1	21.5	127.9	49.3	3.3	25.6	[R] 140.9	[R] 643.5	—	[R] 973.4	955.6	[R] 1,929.0
1983	47.0	74.5	121.5	230.5	63.7	163.4	17.3	132.5	50.8	2.3	22.5	[R] 146.1	[R] 598.7	—	[R] 950.7	947.3	[R] 1,898.0
1984	69.5	97.1	166.6	244.1	63.3	175.1	15.5	107.5	56.3	29.3	13.0	[R] 169.1	[R] 629.1	—	[R] 1,039.8	1,204.1	[R] 2,243.9
1985	**60.5**	**117.9**	**178.3**	**227.4**	**58.9**	**207.2**	**24.2**	[R] **69.2**	**52.4**	**39.0**	**9.5**	[R] **146.3**	[R] **606.6**	**—**	[R] **1,012.3**	**1,283.4**	[R] **2,295.7**
1986	52.2	99.2	151.4	182.3	74.3	118.5	7.2	[R] 68.2	45.3	28.9	8.3	[R] 102.5	[R] 453.1	—	[R] 786.7	1,230.1	[R] 2,016.8
1987	57.1	95.4	152.5	176.9	57.2	144.0	4.0	[R] 108.6	[R] 44.6	32.6	11.2	[R] 112.9	[R] 515.2	—	[R] 844.6	1,134.8	[R] 1,979.4
1988	60.4	77.9	138.4	198.6	53.0	127.4	5.2	[R] 102.2	46.3	30.6	6.6	[R] 94.8	[R] 466.1	—	[R] 803.1	1,230.0	[R] 2,033.2
1989	60.6	102.0	162.5	226.9	52.4	132.7	6.1	[R] 42.4	47.1	35.6	6.3	[R] 95.1	[R] 417.6	—	[R] 807.1	1,251.2	[R] 2,058.3
1990	**56.9**	**103.2**	**160.0**	**235.4**	**59.1**	**179.7**	**5.9**	[R] **68.2**	**48.8**	**41.0**	**8.9**	[R] **102.6**	[R] **514.2**	[d R] **5.3**	[d R] **914.9**	[R] **1,135.7**	[d R] **2,050.6**
1991	39.4	95.2	134.6	219.6	61.3	160.4	2.5	[R] 68.7	50.3	40.6	5.4	[R] 310.5	[R] 699.6	5.5	[R] 1,059.2	[R] 1,086.8	[R] 2,146.0
1992	52.7	72.1	124.8	226.9	34.1	175.6	2.8	[R] 65.2	[R] 55.9	39.1	4.5	[R] 312.2	[R] 689.5	5.2	[R] 1,046.4	[R] 1,140.0	[R] 2,186.4
1993	52.9	101.2	154.0	264.6	40.0	154.4	4.6	[R] 104.9	58.9	46.6	3.8	[R] 282.7	[R] 695.9	[R] 5.3	[R] 1,119.8	[R] 1,166.5	[R] 2,286.2
1994	52.4	86.2	138.6	288.1	46.1	182.6	3.2	[R] 73.1	[R] 62.1	51.0	3.3	[R] 272.1	[R] 693.4	5.4	[R] 1,125.5	[R] 1,266.4	[R] 2,391.9
1995	**60.3**	**98.9**	**159.2**	**282.0**	**48.0**	**188.8**	**3.7**	**77.2**	**61.9**	**55.8**	**1.9**	**277.7**	**715.0**	**5.7**	**1,161.9**	**1,156.6**	**2,318.5**

[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=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 117. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Kentucky

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.44**	**—**	**2.17**	**1.45**	**0.73**	**1.65**	**5.08**	**2.93**	**0.77**	**2.58**	**2.58**	**—**	**2.58**
1971	0.39	—	2.21	1.40	0.76	1.76	5.27	3.00	0.73	2.69	2.69	—	2.69
1972	0.50	—	2.19	1.41	0.76	1.81	5.58	2.98	0.65	2.67	2.67	—	2.67
1973	0.52	—	2.36	1.60	0.90	1.91	5.33	3.22	0.79	2.88	2.88	—	2.88
1974	0.81	—	3.23	2.67	1.56	3.01	7.22	4.42	1.44	4.08	4.08	—	4.08
1975	**1.30**	**—**	**3.45**	**2.78**	**2.03**	**3.29**	**7.48**	**4.69**	**1.46**	**4.34**	**4.34**	**—**	**4.34**
1976	1.18	—	3.59	2.99	2.18	3.66	7.05	4.84	1.54	4.47	4.47	—	4.47
1977	1.23	—	3.97	3.38	2.55	4.02	6.97	5.13	1.59	4.76	4.76	—	4.76
1978	—	—	4.29	3.37	2.88	3.85	7.60	5.20	1.51	4.78	4.78	—	4.78
1979	—	—	5.73	4.80	3.90	4.10	10.21	7.00	2.08	6.36	6.36	—	6.36
1980	**—**	**—**	**9.02**	**6.86**	**6.39**	**5.22**	**14.36**	**9.65**	**3.94**	**8.82**	**8.82**	**—**	**8.82**
1981	—	—	10.84	8.25	7.67	8.91	18.00	10.74	5.20	10.05	10.05	—	10.05
1982	—	—	10.92	7.85	7.42	7.22	17.25	10.30	5.08	9.62	9.62	—	9.62
1983	—	—	10.44	7.06	6.85	7.95	16.98	8.96	4.64	8.40	8.40	—	8.40
1984	—	—	10.27	7.09	6.63	7.85	17.63	8.72	4.80	8.24	8.24	—	8.24
1985	**—**	**—**	**9.99**	**6.78**	**6.17**	**[R] 5.52**	**17.61**	**8.80**	**—**	**8.19**	**8.19**	**—**	**8.19**
1986	—	—	8.41	6.16	4.39	[R] 6.20	15.59	6.69	—	6.50	6.50	—	6.50
1987	—	—	7.55	6.61	4.16	[R] 7.81	[R] 13.58	7.36	—	[R] 6.98	[R] 6.98	—	[R] 6.98
1988	—	—	7.41	6.40	3.93	[R] 6.97	[R] 14.62	7.42	—	6.92	6.92	—	6.92
1989	—	—	8.28	6.86	4.45	[R] 3.34	14.48	8.08	—	7.45	7.45	—	7.45
1990	**—**	**—**	**9.32**	**8.21**	**5.82**	**[R] 5.01**	**14.60**	**9.25**	**—**	**8.70**	**8.70**	**—**	**8.70**
1991	—	—	8.71	7.75	4.92	[R] 4.74	[R] 16.80	8.94	—	[R] 8.29	[R] 8.29	—	[R] 8.29
1992	—	3.57	8.54	7.56	4.61	[R] 4.62	[R] 18.32	8.65	—	[R] 8.00	[R] 8.00	—	[R] 8.00
1993	—	5.06	8.24	7.56	4.36	[R] 9.94	[R] 18.96	8.51	—	7.95	7.95	—	7.95
1994	—	4.35	7.96	7.59	4.09	[R] 9.20	[R] 19.11	8.72	—	8.05	8.05	—	8.05
1995	**—**	**4.65**	**8.36**	**7.68**	**4.15**	**9.55**	**19.40**	**9.10**	**—**	**8.32**	**8.32**	**—**	**8.32**
	Expenditures in Million Nominal Dollars												
1970	**0.1**	**—**	**3.6**	**41.4**	**12.6**	**0.3**	**11.4**	**510.0**	**0.7**	**580.0**	**580.1**	**—**	**580.1**
1971	(s)	—	2.0	35.8	11.5	0.4	12.6	555.1	0.2	617.6	617.7	—	617.7
1972	(s)	—	1.8	50.1	9.4	0.4	14.3	581.8	(s)	657.8	657.9	—	657.9
1973	(s)	—	1.7	63.5	12.0	0.5	17.4	658.8	(s)	753.9	753.9	—	753.9
1974	(s)	—	2.4	96.9	17.8	0.8	22.6	908.1	(s)	1,048.6	1,048.7	—	1,048.7
1975	**(s)**	**—**	**2.2**	**100.8**	**24.6**	**0.8**	**24.0**	**994.0**	**(s)**	**1,146.5**	**1,146.5**	**—**	**1,146.5**
1976	(s)	—	2.3	127.2	26.5	1.0	25.2	1,078.9	(s)	1,261.1	1,261.1	—	1,261.1
1977	(s)	—	2.2	152.5	31.9	1.2	21.9	1,172.4	(s)	1,382.1	1,382.1	—	1,382.1
1978	—	—	2.3	195.0	41.6	1.3	25.6	1,217.2	(s)	1,483.0	1,483.0	—	1,483.0
1979	—	—	3.9	361.2	56.5	0.4	36.0	1,551.7	0.7	2,010.4	2,010.4	—	2,010.4
1980	**—**	**—**	**5.1**	**511.0**	**104.4**	**0.2**	**45.1**	**2,002.0**	**3.4**	**2,671.1**	**2,671.1**	**—**	**2,671.1**
1981	—	—	5.0	545.1	139.7	2.8	54.3	2,248.8	8.2	3,003.8	3,003.8	—	3,003.8
1982	—	—	4.9	509.3	154.9	7.2	47.4	2,149.4	0.3	2,873.5	2,873.5	—	2,873.5
1983	—	—	5.0	565.4	154.9	9.4	48.9	1,877.9	0.3	2,661.9	2,661.9	—	2,661.9
1984	—	—	3.8	615.8	121.9	8.3	54.1	1,826.0	0.2	2,630.0	2,630.0	—	2,630.0
1985	**—**	**—**	**3.3**	**534.7**	**119.3**	**[R] 2.0**	**50.4**	**1,789.3**	**—**	**2,498.9**	**2,498.9**	**—**	**2,498.9**
1986	—	—	3.6	483.8	87.8	[R] 1.8	43.6	1,451.6	—	[R] 2,072.2	[R] 2,072.2	—	[R] 2,072.2
1987	—	—	2.4	522.1	113.5	[R] 2.0	[R] 42.9	1,610.1	—	[R] 2,293.0	[R] 2,293.0	—	[R] 2,293.0
1988	—	—	2.3	648.7	110.8	[R] 1.9	[R] 44.6	1,676.0	—	[R] 2,484.2	[R] 2,484.2	—	[R] 2,484.2
1989	—	—	2.2	867.7	127.7	0.9	45.3	1,789.1	—	[R] 2,832.9	[R] 2,832.9	—	[R] 2,832.9
1990	**—**	**—**	**2.4**	**798.4**	**188.2**	**[R] 1.2**	**47.0**	**2,017.3**	**—**	**[R] 3,054.5**	**[R] 3,054.5**	**—**	**[R] 3,054.5**
1991	—	—	2.3	713.4	177.3	[R] 0.9	48.3	1,998.9	—	[R] 2,941.1	[R] 2,941.1	—	[R] 2,941.1
1992	—	(s)	2.4	791.6	179.7	[R] 1.0	[R] 53.7	1,961.7	—	[R] 2,990.1	[R] 2,990.1	—	[R] 2,990.1
1993	—	(s)	1.7	926.1	140.8	[R] 2.0	[R] 56.7	1,997.2	—	[R] 3,124.4	[R] 3,124.4	—	[R] 3,124.4
1994	—	(s)	1.8	862.6	146.8	[R] 3.1	[R] 59.7	2,063.3	—	3,137.3	3,137.3	—	3,137.3
1995	**—**	**(s)**	**1.9**	**904.4**	**148.2**	**1.6**	**59.5**	**2,241.4**	**—**	**3,357.0**	**3,357.0**	**—**	**3,357.0**

[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.

(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 118. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Kentucky

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.21**	**0.29**	**0.87**	**1.12**	**—**	**0.88**	**—**	**—**	**0.22**
1971	0.26	0.33	0.78	0.99	—	0.79	—	—	0.26
1972	0.28	0.36	0.78	0.99	—	0.79	—	—	0.29
1973	0.31	0.33	0.88	0.81	—	0.88	—	—	0.31
1974	0.55	0.41	1.62	2.21	—	1.63	—	—	0.55
1975	**0.64**	**0.68**	**1.69**	**2.25**	**—**	**1.72**	**—**	**—**	**0.64**
1976	0.69	0.83	1.69	2.45	—	2.05	—	—	0.69
1977	0.85	1.08	1.79	2.81	—	2.15	—	—	0.85
1978	1.11	1.05	1.76	2.87	—	2.06	—	—	1.11
1979	1.14	1.68	2.18	4.48	—	2.31	—	—	1.14
1980	**1.31**	**2.16**	**—**	**6.54**	**—**	**6.54**	**—**	**—**	**1.32**
1981	1.47	2.58	—	8.09	—	8.09	—	—	1.49
1982	1.55	3.39	—	7.60	—	7.60	—	—	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	**1.41**	**3.54**	**—**	**5.80**	**—**	**5.80**	**—**	**—**	**1.43**
1986	1.34	2.97	—	3.50	—	3.50	—	—	1.34
1987	1.26	2.78	—	4.07	—	4.07	—	—	1.26
1988	1.20	2.46	—	3.85	—	3.85	—	—	1.20
1989	1.14	2.67	—	4.75	—	4.75	—	—	1.14
1990	**1.19**	**2.98**	**—**	**5.75**	**—**	**5.75**	**—**	**—**	**1.20**
1991	1.18	2.60	—	5.05	—	5.05	—	—	1.18
1992	1.16	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
1995	**1.11**	**2.94**	**—**	**4.28**	**—**	**4.28**	**—**	**—**	**1.11**
	Expenditures in Million Nominal Dollars								
1970	**87.4**	**2.5**	**0.7**	**(s)**	**—**	**0.7**	**—**	**—**	**90.6**
1971	115.0	3.0	1.2	(s)	—	1.3	—	—	119.3
1972	137.1	3.7	1.8	0.1	—	1.9	—	—	142.7
1973	149.0	2.7	0.8	(s)	—	0.8	—	—	152.6
1974	272.7	2.3	2.0	0.1	—	2.1	—	—	277.0
1975	**308.4**	**0.2**	**1.1**	**0.1**	**—**	**1.2**	**—**	**—**	**309.8**
1976	376.4	0.1	1.4	1.7	—	3.1	—	—	379.5
1977	462.4	0.8	1.7	1.5	—	3.2	—	—	466.4
1978	596.9	1.3	1.9	1.1	—	3.0	—	—	601.2
1979	593.3	1.6	2.0	0.3	—	2.3	—	—	597.2
1980	**730.9**	**4.2**	**—**	**8.6**	**—**	**8.6**	**—**	**—**	**743.7**
1981	871.5	6.8	—	15.2	—	15.2	—	—	893.5
1982	865.5	5.3	—	13.1	—	13.1	—	—	883.8
1983	853.0	4.6	—	9.0	—	9.0	—	—	866.6
1984	839.9	6.5	—	10.8	—	10.8	—	—	857.2
1985	**870.2**	**4.1**	**—**	**9.1**	**—**	**9.1**	**—**	**—**	**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	878.9	1.1	—	4.5	—	4.5	—	—	884.5
1989	760.8	0.9	—	6.4	—	6.4	—	—	768.0
1990	**851.3**	**0.9**	**—**	**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	962.7	0.8	—	5.5	—	5.5	—	—	969.0
1994	938.4	1.0	—	8.0	—	8.0	—	—	947.5
1995	**918.2**	**2.6**	**—**	**7.0**	**—**	**7.0**	**—**	**—**	**927.8**

[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 119. Energy Price and Expenditure Estimates by Source, 1970-1995, Louisiana

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	**—**	**—**	**—**	**0.27**	**0.86**	**0.72**	**1.12**	**2.86**	**0.45**	**1.06**	**1.48**	**—**	**—**	**0.65**	**0.21**	**4.69**	**0.94**
1971	—	—	—	0.29	0.96	0.75	1.12	2.84	0.49	1.04	1.48	—	—	0.68	0.24	4.75	0.99
1972	—	—	—	0.34	0.99	0.75	1.14	2.73	0.62	1.04	R 1.46	—	—	0.73	0.27	4.84	1.06
1973	—	—	—	0.39	1.19	0.89	1.30	2.92	0.66	1.13	1.52	—	—	0.82	0.35	5.20	R 1.17
1974	—	—	—	0.60	2.17	1.54	2.36	3.99	1.56	R 2.05	R 2.45	—	—	1.33	0.58	6.11	R 1.74
1975	**—**	**—**	**—**	**0.75**	**2.34**	**2.01**	**2.52**	**4.49**	**1.62**	**R 2.60**	**2.80**	**—**	**—**	**1.60**	**0.73**	**6.24**	**2.03**
1976	—	—	—	0.93	2.47	2.12	2.79	4.83	1.65	R 2.90	2.98	—	—	1.84	0.95	6.61	2.32
1977	—	1.34	1.34	1.14	2.65	2.48	3.03	5.04	1.81	R 3.21	3.11	—	—	2.06	1.18	7.23	2.55
1978	—	1.69	1.69	1.07	2.66	2.86	3.65	5.32	1.72	R 3.31	R 3.29	—	—	2.07	1.31	7.82	2.59
1979	—	1.70	1.70	1.24	4.20	3.96	3.99	7.08	2.56	R 4.41	R 4.32	—	—	2.71	1.69	8.94	3.27
1980	**—**	**1.26**	**1.26**	**1.61**	**6.02**	**6.34**	**5.30**	**9.89**	**3.31**	**R 6.35**	**R 5.97**	**—**	**—**	**3.70**	**2.19**	**11.49**	**4.50**
1981	—	1.97	1.97	2.26	7.69	7.47	5.04	11.03	4.16	R 7.80	R 6.97	—	—	R 4.57	2.81	14.07	R 5.58
1982	—	2.20	2.20	3.23	7.07	7.09	6.27	10.25	3.85	R 6.66	R 6.74	—	—	R 5.11	3.02	15.48	R 6.41
1983	—	2.24	2.24	3.35	6.52	6.25	6.60	9.03	3.77	R 6.10	R 6.50	—	—	R 4.97	2.96	15.66	R 6.27
1984	—	2.21	2.21	3.29	6.52	6.07	6.77	8.99	3.88	R 6.11	R 6.62	—	—	R 4.80	2.84	16.50	R 6.27
1985	**—**	**2.14**	**2.14**	**3.09**	**6.26**	**5.70**	**R 5.32**	**9.36**	**3.60**	**R 5.80**	**R 6.28**	**0.86**	**—**	**R 4.55**	**2.46**	**18.25**	**R 6.36**
1986	—	1.80	1.80	2.15	5.11	3.67	R 5.90	7.04	1.39	R 3.86	R 4.77	1.04	—	R 3.33	1.67	17.40	R 5.02
1987	—	1.66	1.66	2.00	5.60	3.90	R 6.08	7.14	2.55	R 4.23	R 5.16	0.97	—	R 3.40	1.46	17.33	R 5.14
1988	—	1.57	1.57	2.14	5.36	3.61	R 5.99	7.25	2.55	R 3.75	R 4.94	0.92	—	R 3.35	1.44	17.30	R 5.13
1989	—	1.62	1.62	2.12	6.10	4.12	R 5.66	7.90	2.52	R 4.36	R 5.32	0.90	—	R 3.46	1.51	17.64	R 5.20
1990	**—**	**1.68**	**1.68**	**2.11**	**7.46**	**5.79**	**R 8.13**	**9.47**	**2.10**	**R 5.25**	**R 6.55**	**0.88**	**d R 1.48**	**d R 3.96**	**1.49**	**17.77**	**d R 5.84**
1991	—	1.65	1.65	1.89	6.94	4.67	R 8.14	9.51	2.84	R 4.63	R 6.23	0.84	R 1.52	R 3.71	1.40	17.59	R 5.55
1992	—	1.54	1.54	2.09	6.85	4.29	R 4.45	9.23	1.90	R 4.26	R 5.28	0.81	1.53	R 3.40	1.52	R 17.80	R 5.17
1993	—	1.59	1.59	2.50	6.82	4.02	R 4.49	9.14	1.88	R 3.74	R 5.18	0.69	1.47	R 3.49	1.65	18.56	R 5.36
1994	—	1.55	1.55	2.32	6.62	3.77	R 5.10	9.04	1.87	R 3.85	R 5.25	0.70	1.45	R 3.48	1.59	R 17.99	R 5.26
1995	**—**	**1.56**	**1.56**	**2.00**	**6.83**	**3.75**	**4.99**	**9.25**	**1.95**	**4.24**	**5.44**	**0.64**	**1.47**	**3.31**	**1.46**	**17.11**	**5.12**
	Expenditures in Million Nominal Dollars																
1970	**—**	**—**	**—**	**376.4**	**59.1**	**23.4**	**199.3**	**523.4**	**31.1**	**R 128.0**	**R 964.3**	**—**	**—**	**R 1,340.7**	**-72.9**	**435.9**	**R 1,703.8**
1971	—	—	—	410.7	72.6	24.7	200.6	535.9	24.5	R 190.3	R 1,048.6	—	—	R 1,459.3	-88.8	477.6	R 1,848.0
1972	—	—	—	508.8	97.9	24.3	237.8	558.2	32.7	R 207.0	R 1,157.9	—	—	R 1,666.7	-111.0	548.4	R 2,104.1
1973	—	—	—	602.6	138.6	29.2	291.4	630.7	80.2	R 258.6	R 1,428.7	—	—	R 2,031.3	-151.9	631.4	R 2,510.8
1974	—	—	—	909.9	241.5	67.8	508.4	867.7	265.8	R 477.9	R 2,429.1	—	—	R 3,339.0	-243.9	759.1	R 3,854.2
1975	**—**	**—**	**—**	**1,036.2**	**268.9**	**67.9**	**481.4**	**1,018.8**	**280.0**	**R 583.8**	**R 2,700.8**	**—**	**—**	**R 3,736.9**	**-303.4**	**710.5**	**R 4,144.0**
1976	—	—	—	1,261.3	302.9	60.4	548.2	1,174.7	377.2	R 770.3	R 3,233.9	—	—	R 4,495.1	-447.3	829.3	R 4,877.1
1977	—	2.4	2.4	1,664.6	432.2	74.8	591.5	1,278.1	574.4	R 991.3	R 3,942.2	—	—	R 5,609.2	-601.5	1,019.9	R 6,027.5
1978	—	6.3	6.3	1,675.7	457.0	89.0	720.8	1,399.2	540.5	R 1,092.6	R 4,299.1	—	—	R 5,981.1	-717.3	1,198.1	R 6,461.9
1979	—	4.3	4.3	1,964.5	748.7	162.9	913.8	1,824.9	918.0	R 1,608.8	R 6,177.2	—	—	R 8,145.9	-864.2	1,416.8	R 8,698.5
1980	**—**	**3.1**	**3.1**	**2,396.3**	**752.1**	**306.8**	**1,012.5**	**2,449.2**	**1,265.9**	**R 2,418.8**	**R 8,205.3**	**—**	**—**	**R 10,604.7**	**-1,079.1**	**1,899.6**	**R 11,425.2**
1981	—	46.8	46.8	3,270.7	1,693.2	326.8	1,347.8	2,835.1	1,409.1	R 2,275.5	R 9,887.5	—	—	R 13,205.0	-1,346.0	2,655.7	R 14,514.7
1982	—	141.1	141.1	3,483.0	1,269.0	325.0	1,976.4	2,713.8	1,112.6	R 1,676.7	R 9,073.4	—	—	R 12,697.5	-1,378.1	2,889.7	R 14,209.1
1983	—	238.7	238.7	3,369.6	1,180.6	383.7	2,110.1	2,394.3	840.9	R 1,319.8	R 8,229.3	—	—	R 11,837.6	-1,226.1	2,859.4	R 13,470.8
1984	—	262.6	262.6	3,799.7	1,190.3	433.0	1,535.4	2,378.9	702.0	R 1,272.6	R 7,512.1	—	—	R 11,574.5	-1,214.1	3,323.1	R 13,683.6
1985	**—**	**340.0**	**340.0**	**3,152.5**	**1,225.8**	**410.5**	**R 1,344.6**	**2,424.2**	**546.9**	**R 1,210.5**	**R 7,162.5**	**22.9**	**—**	**R 10,677.9**	**-1,168.2**	**3,664.5**	**R 13,174.2**
1986	—	308.6	308.6	2,249.7	1,040.5	369.3	R 1,297.1	1,847.2	228.6	R 1,034.7	R 5,817.5	119.4	—	R 8,495.1	-942.4	3,408.9	R 10,961.6
1987	—	286.7	286.7	2,095.4	1,193.6	415.1	R 1,182.5	1,804.3	377.3	R 1,151.1	R 6,123.9	128.5	—	R 8,634.5	-811.9	3,379.5	R 11,202.1
1988	—	332.9	332.9	2,203.4	1,215.0	435.5	R 1,148.0	1,862.1	416.0	R 1,054.8	R 6,131.4	135.7	—	R 8,803.3	-886.9	3,430.5	R 11,346.9
1989	—	335.6	335.6	2,440.3	1,315.9	518.2	R 1,051.1	1,944.6	406.6	R 1,216.2	R 6,452.6	119.8	—	R 9,348.3	-881.3	3,604.0	R 12,070.9
1990	**—**	**351.2**	**351.2**	**2,466.4**	**1,703.2**	**845.1**	**R 1,395.7**	**2,174.1**	**302.9**	**R 1,572.7**	**R 7,993.7**	**133.6**	**d R 44.9**	**d R 10,989.8**	**-931.6**	**R 3,739.5**	**d R 13,797.7**
1991	—	353.8	353.8	2,207.6	1,406.6	848.7	R 1,525.3	2,148.7	457.3	R 1,204.4	R 7,591.0	125.4	R 53.1	R 10,330.9	-869.3	R 3,754.3	R 13,215.9
1992	—	344.8	344.8	2,439.5	1,258.3	653.1	R 872.4	2,189.1	354.4	R 1,163.2	R 6,490.4	89.2	R 53.0	R 9,416.9	-903.4	R 3,823.0	R 12,336.5
1993	—	354.0	354.0	2,970.2	1,396.6	571.2	R 900.1	2,210.6	327.8	R 1,078.3	R 6,484.6	105.5	R 53.3	R 9,967.5	-1,058.1	R 4,127.8	R 13,037.3
1994	—	357.4	357.4	R 2,898.0	1,494.3	688.3	R 1,251.4	2,168.1	R 288.7	R 1,080.8	R 6,971.7	96.1	R 54.8	R 10,378.0	-1,041.2	R 4,101.5	R 13,438.2
1995	**—**	**338.4**	**338.4**	**2,672.1**	**1,301.1**	**613.0**	**1,208.2**	**2,295.9**	**285.4**	**1,128.6**	**6,832.3**	**106.6**	**65.5**	**10,014.8**	**-1,041.6**	**4,056.2**	**13,029.4**

[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.

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 120. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Louisiana

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**—**	**0.75**	**0.96**	**1.60**	**2.20**	**2.19**	**—**	**0.90**	**6.58**	**2.29**
1971	—	0.69	1.06	1.69	2.00	2.00	—	0.85	6.65	2.41
1972	—	0.90	1.07	1.75	2.42	2.41	—	1.08	6.73	2.73
1973	—	0.95	1.24	2.02	3.94	3.90	—	1.24	6.93	2.86
1974	—	1.09	2.12	3.23	5.49	5.44	—	1.50	7.90	3.33
1975	**—**	**1.33**	**2.24**	**3.40**	**4.39**	**4.36**	**—**	**1.55**	**7.96**	**3.31**
1976	—	1.52	2.54	3.78	6.04	5.97	—	1.83	8.43	3.72
1977	—	1.91	2.82	4.41	4.73	4.69	—	2.12	9.00	4.29
1978	—	2.37	2.96	4.64	4.56	4.52	—	2.53	9.51	5.07
1979	—	2.62	4.61	6.61	5.95	5.91	—	2.79	10.68	5.60
1980	**2.97**	**3.28**	**6.65**	**—**	**8.54**	**8.52**	**—**	**3.56**	**13.81**	**7.84**
1981	—	4.01	—	12.09	8.03	8.17	—	4.21	17.03	9.38
1982	3.30	5.08	7.61	12.02	9.55	9.58	—	5.32	18.47	11.20
1983	—	5.88	4.25	10.67	9.43	9.56	—	6.09	18.22	11.43
1984	3.27	5.72	7.08	10.42	9.50	9.68	—	5.93	19.87	12.38
1985	**—**	**5.47**	**3.24**	**4.77**	**7.68**	**7.54**	**—**	**5.58**	**20.27**	**13.04**
1986	2.89	5.56	5.05	7.44	8.99	8.90	—	5.76	20.75	13.52
1987	—	5.35	5.00	7.37	9.13	9.10	—	5.56	21.05	13.34
1988	2.62	5.51	6.69	9.85	9.28	9.28	—	5.72	20.89	13.47
1989	—	5.72	5.62	8.28	10.44	10.27	—	5.98	21.50	14.10
1990	**—**	**5.85**	**6.46**	**9.50**	**11.43**	**11.29**	**[d] 3.53**	**[d] 5.98**	**[R] 21.71**	**[d R] 13.97**
1991	2.81	5.51	5.94	8.75	12.88	12.75	3.53	5.75	21.68	13.74
1992	—	5.36	8.61	12.68	11.68	11.69	3.53	5.64	[R] 22.03	13.68
1993	2.73	5.88	7.73	11.38	11.88	11.87	3.53	6.00	[R] 22.74	14.57
1994	—	6.01	5.18	7.62	[R] 11.04	[R] 10.84	3.53	[R] 6.09	[R] 22.31	[R] 14.64
1995	**2.61**	**5.82**	**7.77**	**11.44**	**11.28**	**11.28**	**3.53**	**5.89**	**21.20**	**14.19**
	Expenditures in Million Nominal Dollars									
1970	**—**	**66.7**	**(s)**	**0.2**	**22.5**	**22.8**	**—**	**89.4**	**209.6**	**299.1**
1971	—	56.8	(s)	0.1	22.0	22.1	—	78.9	229.6	308.5
1972	—	75.8	(s)	0.1	27.6	27.7	—	103.5	267.6	371.1
1973	—	90.6	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	**—**	**131.6**	**0.1**	**0.4**	**34.0**	**34.6**	**—**	**166.2**	**323.8**	**490.0**
1976	—	150.0	0.2	0.3	43.5	44.1	—	194.0	358.9	552.9
1977	—	186.2	0.4	0.7	37.4	38.5	—	224.6	438.2	662.9
1978	—	202.5	0.4	0.8	29.8	31.1	—	233.5	501.3	734.9
1979	—	237.9	1.1	1.2	27.9	30.2	—	268.1	564.8	832.9
1980	**0.1**	**248.7**	**0.2**	**—**	**36.0**	**36.2**	**—**	**285.0**	**792.9**	**1,077.9**
1981	—	337.9	—	1.9	33.5	35.4	—	373.4	1,022.6	1,396.0
1982	0.1	364.7	3.7	5.2	29.5	38.4	—	403.2	1,133.5	1,536.7
1983	—	418.1	0.1	5.5	34.7	40.3	—	458.3	1,078.8	1,537.1
1984	0.3	414.1	0.1	8.7	30.9	39.7	—	454.1	1,308.1	1,762.2
1985	**—**	**344.3**	**0.2**	**0.5**	**27.3**	**28.0**	**—**	**372.3**	**1,395.0**	**1,767.3**
1986	(s)	335.6	0.3	0.7	34.7	35.6	—	371.3	1,434.7	1,806.0
1987	—	341.3	0.1	0.4	33.8	34.3	—	375.5	1,435.7	1,811.3
1988	(s)	342.7	0.1	0.6	32.6	33.4	—	376.1	1,435.0	1,811.1
1989	—	344.5	0.3	1.5	34.8	36.5	—	381.0	1,505.0	1,886.0
1990	**—**	**325.2**	**0.3**	**0.7**	**32.1**	**33.1**	**[d] 11.6**	**[d] 369.9**	**[R] 1,587.5**	**[d R] 1,957.4**
1991	(s)	315.0	0.1	0.7	38.4	39.1	12.2	366.4	1,596.0	[R] 1,962.3
1992	—	309.2	(s)	0.7	44.8	45.4	12.9	367.6	[R] 1,592.4	[R] 1,959.9
1993	(s)	344.7	(s)	0.5	30.5	31.0	11.2	387.0	[R] 1,740.7	[R] 2,127.7
1994	—	330.6	0.4	0.2	[R] 27.4	[R] 28.0	11.0	[R] 369.7	[R] 1,722.7	[R] 2,092.4
1995	**0.1**	**316.1**	**0.1**	**0.6**	**25.6**	**26.2**	**12.2**	**354.7**	**1,744.5**	**2,099.2**

[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.
(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 121. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Louisiana

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**—**	**0.37**	**0.89**	**0.59**	**1.06**	**2.86**	**0.49**	**1.04**	**0.48**	**5.07**	**1.62**
1971	—	0.40	0.97	0.63	1.06	2.84	0.52	1.14	0.51	5.12	1.79
1972	—	0.45	0.97	0.63	1.07	2.73	0.66	1.15	0.58	5.18	1.94
1973	—	0.50	1.14	0.75	1.18	2.92	0.70	1.13	0.66	5.65	2.23
1974	—	0.59	1.99	1.72	2.21	3.99	1.63	2.03	1.01	6.62	2.78
1975	**—**	**0.77**	**2.14**	**2.01**	**2.44**	**4.49**	**1.76**	**2.19**	**1.25**	**6.99**	**2.89**
1976	—	1.06	2.42	2.38	2.67	4.83	1.70	2.32	1.59	7.84	3.50
1977	—	1.35	2.71	2.54	2.96	5.04	1.90	2.48	1.94	8.39	3.77
1978	—	1.38	2.83	2.36	3.62	5.32	1.78	2.51	1.85	8.93	3.70
1979	—	2.20	4.41	3.73	3.95	7.08	2.74	3.50	2.78	10.05	3.97
1980	**1.24**	**2.60**	**6.36**	**5.53**	**5.22**	**9.89**	**3.55**	**3.77**	**3.40**	**12.08**	**5.54**
1981	—	3.57	7.88	7.27	4.99	11.03	4.38	4.89	4.54	14.62	6.86
1982	1.63	4.70	7.28	7.51	6.24	10.25	3.90	4.09	4.24	15.36	6.99
1983	—	5.49	6.07	6.86	6.57	9.03	3.40	5.33	5.43	15.83	10.11
1984	1.53	5.33	6.14	7.85	6.73	8.99	4.56	6.00	5.56	18.10	11.83
1985	**—**	**5.09**	**6.13**	**7.46**	**[R] 5.29**	**9.36**	**4.12**	**[R] 6.01**	**5.52**	**20.24**	**12.71**
1986	1.83	5.05	3.59	4.50	[R] 5.84	7.04	2.14	[R] 3.74	[R] 4.42	19.24	11.86
1987	—	4.78	4.04	5.25	[R] 6.02	7.14	2.67	[R] 4.26	[R] 4.61	19.25	12.78
1988	1.85	4.94	3.63	4.67	[R] 5.93	7.25	1.91	[R] 4.00	4.67	19.56	13.33
1989	—	4.98	4.15	5.53	[R] 5.57	7.90	2.29	[R] 4.45	[R] 4.86	19.99	14.02
1990	**—**	**5.04**	**5.47**	**7.08**	**[R] 8.07**	**9.47**	**2.62**	**[R] 6.30**	**5.36**	**20.57**	**14.76**
1991	1.73	4.68	4.77	6.16	[R] 8.06	9.51	2.03	[R] 5.55	[R] 4.88	20.30	14.43
1992	—	4.59	4.43	5.87	[R] 4.30	9.23	2.02	[R] 5.52	[R] 4.74	[R] 20.72	14.55
1993	1.68	5.15	4.30	5.72	[R] 4.40	9.14	1.92	[R] 4.52	5.03	[R] 21.51	[R] 15.64
1994	—	5.22	3.98	[R] 5.40	[R] 8.59	9.04	—	[R] 4.54	5.09	[R] 20.92	15.55
1995	**1.73**	**4.98**	**4.07**	**5.37**	**8.99**	**9.25**	**—**	**5.73**	**5.03**	**19.93**	**15.43**
	Expenditures in Million Nominal Dollars										
1970	**—**	**26.6**	**4.3**	**1.5**	**1.9**	**5.7**	**1.6**	**15.0**	**41.6**	**145.8**	**187.4**
1971	—	27.7	4.2	0.8	2.1	5.9	1.6	14.6	42.2	160.9	203.1
1972	—	30.6	5.8	0.9	2.1	6.0	2.1	17.0	47.6	180.3	227.9
1973	—	30.4	8.2	2.9	2.1	6.8	4.6	24.6	55.0	215.0	270.0
1974	—	34.9	16.8	5.3	3.7	9.4	14.9	50.1	85.0	256.3	341.3
1975	**—**	**40.5**	**18.2**	**5.3**	**3.3**	**11.0**	**20.2**	**58.0**	**98.5**	**220.0**	**318.5**
1976	—	47.9	32.2	4.6	3.4	12.6	23.6	76.4	124.2	267.9	392.1
1977	—	62.2	56.8	8.8	4.1	13.6	40.9	124.2	186.4	321.1	507.5
1978	—	94.1	56.0	9.1	4.2	15.0	37.1	121.4	215.5	368.2	583.7
1979	—	263.9	149.9	14.6	3.3	20.1	150.9	338.9	602.8	422.5	1,025.2
1980	**0.1**	**107.7**	**14.8**	**17.2**	**3.9**	**8.7**	**300.8**	**345.4**	**453.2**	**527.7**	**981.0**
1981	—	145.9	23.7	104.3	3.7	10.3	423.5	565.5	711.4	683.9	1,395.3
1982	0.1	166.2	14.7	14.1	3.4	9.9	407.8	449.9	616.2	734.2	1,350.3
1983	—	199.5	74.8	3.1	4.3	11.1	26.6	119.9	319.3	760.4	1,079.7
1984	0.2	183.4	74.3	8.9	3.9	9.8	23.9	120.7	304.4	989.1	1,293.4
1985	**—**	**159.7**	**133.6**	**2.8**	**[R] 3.3**	**11.6**	**14.9**	**[R] 166.1**	**[R] 325.8**	**1,142.6**	**[R] 1,468.4**
1986	(s)	146.9	84.3	0.5	[R] 4.0	8.8	3.1	[R] 100.8	[R] 247.6	1,086.9	[R] 1,334.5
1987	—	138.4	44.3	0.6	[R] 3.9	9.3	4.5	[R] 62.6	[R] 201.0	1,062.8	[R] 1,263.8
1988	(s)	141.2	27.4	2.9	[R] 3.7	9.0	2.6	[R] 45.6	[R] 186.8	1,088.8	[R] 1,275.7
1989	—	140.9	20.5	1.1	[R] 3.3	9.2	3.6	[R] 37.7	[R] 178.6	1,129.9	[R] 1,308.5
1990	**—**	**130.9**	**34.7**	**0.8**	**[R] 4.0**	**15.7**	**0.7**	**[R] 55.9**	**[R] 186.9**	**[R] 1,160.0**	**[R] 1,346.8**
1991	(s)	124.7	25.0	0.8	[R] 4.2	12.9	1.5	[R] 44.4	[R] 169.1	[R] 1,145.4	[R] 1,314.5
1992	—	136.3	15.6	0.3	[R] 2.9	11.9	0.1	[R] 30.8	[R] 167.1	[R] 1,162.3	[R] 1,329.4
1993	(s)	134.1	21.7	0.8	[R] 2.0	2.0	(s)	[R] 26.5	[R] 160.6	[R] 1,239.2	[R] 1,399.8
1994	—	131.1	20.1	0.4	[R] 3.8	1.9	—	[R] 26.2	[R] 157.2	[R] 1,258.6	[R] 1,415.8
1995	**0.1**	**122.7**	**5.0**	**0.2**	**3.6**	**2.0**	**—**	**10.8**	**133.7**	**1,225.2**	**1,358.9**

[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.

—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 122. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Louisiana

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.66**	**0.51**	**0.59**	**1.06**	**5.08**	**2.86**	**0.49**	**0.70**	**0.97**	**—**	**0.42**	**2.49**	**0.48**
1971	—	—	—	0.26	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	0.55	0.63	1.07	5.58	2.73	0.62	R 0.84	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	R 0.95	1.09	—	0.60	3.04	0.67
1974	—	—	—	0.62	0.77	1.49	1.72	2.21	7.22	3.99	1.82	R 1.93	R 2.05	—	1.07	3.98	1.16
1975	**—**	**—**	**—**	**0.74**	**1.78**	**1.81**	**2.01**	**2.44**	**7.48**	**4.49**	**1.72**	**R 2.42**	**R 2.42**	**—**	**1.32**	**3.99**	**1.40**
1976	—	—	—	0.91	1.79	2.07	2.38	2.67	7.05	4.83	1.76	R 2.77	R 2.69	—	1.58	4.16	1.67
1977	—	1.34	1.34	1.14	1.97	2.18	2.54	2.96	6.97	5.04	1.98	R 3.14	R 2.94	—	1.82	4.82	1.92
1978	—	1.69	1.69	0.92	2.19	2.02	2.36	3.62	7.60	5.32	1.74	R 3.24	R 3.19	—	1.75	5.54	1.88
1979	—	1.70	1.70	0.89	2.56	3.37	3.73	3.95	10.21	7.08	2.53	R 4.30	3.94	—	2.20	6.75	2.37
1980	**—**	**1.24**	**1.24**	**1.24**	**3.62**	**4.89**	**5.53**	**5.22**	**14.36**	**9.89**	**3.68**	**R 6.23**	**R 5.65**	**—**	**R 3.06**	**9.02**	**3.30**
1981	—	1.55	1.55	1.81	3.84	6.48	7.27	4.99	18.00	11.03	4.58	R 7.66	R 6.18	—	R 3.71	11.58	R 4.10
1982	—	1.63	1.63	3.02	3.55	6.54	7.51	6.24	17.25	10.25	4.38	R 6.20	R 6.22	—	R 4.76	13.18	R 5.23
1983	—	1.63	1.63	3.01	4.17	6.34	6.86	6.57	16.98	9.03	4.40	R 5.55	R 6.01	—	R 4.61	13.54	R 5.10
1984	—	1.53	1.53	3.06	4.15	6.41	7.85	6.73	17.63	8.99	4.56	R 5.38	R 6.10	—	R 4.34	12.67	R 4.83
1985	**—**	**1.46**	**1.46**	**2.92**	**4.17**	**6.09**	**7.46**	**R 5.29**	**17.61**	**9.36**	**4.12**	**R 5.17**	**R 5.40**	**—**	**R 4.05**	**14.93**	**R 4.70**
1986	—	1.83	1.83	1.84	4.57	3.67	4.50	R 5.84	15.59	7.04	2.14	R 3.29	R 4.50	—	R 3.03	12.63	R 3.54
1987	—	2.03	2.03	1.73	3.15	4.29	5.25	R 6.02	R 13.58	7.14	2.67	R 3.82	R 4.76	—	R 3.06	12.30	R 3.56
1988	—	1.85	1.85	1.91	3.14	3.81	4.67	R 5.93	R 14.62	7.25	1.91	R 3.27	R 4.37	—	R 3.01	12.25	R 3.53
1989	—	1.55	1.55	1.89	2.89	4.51	5.53	R 5.57	14.48	7.90	2.29	R 3.95	R 4.69	—	R 2.99	12.46	R 3.51
1990	**—**	**1.56**	**1.56**	**1.92**	**2.91**	**5.78**	**7.08**	**R 8.07**	**14.60**	**9.47**	**2.62**	**R 4.91**	**R 6.10**	**d R 1.23**	**d R 3.54**	**12.27**	**d R 4.02**
1991	—	1.73	1.73	1.66	3.08	5.03	6.16	R 8.06	R 16.80	9.51	2.03	R 4.11	R 5.80	1.30	R 3.21	12.15	R 3.72
1992	—	1.69	1.69	1.85	2.17	4.79	5.87	R 4.30	R 18.32	9.23	2.02	R 3.79	R 4.28	R 1.29	R 2.76	R 12.37	R 3.32
1993	—	1.68	1.68	2.22	2.30	4.67	5.72	R 4.40	R 18.96	9.14	1.92	R 3.33	R 4.12	R 1.27	R 2.91	R 13.00	R 3.50
1994	—	1.74	1.74	2.09	2.40	4.41	5.40	R 5.03	R 19.11	9.04	2.07	R 3.25	R 4.35	R 1.26	R 2.96	R 12.36	R 3.48
1995	**—**	**1.73**	**1.73**	**1.76**	**2.58**	**4.39**	**5.37**	**4.92**	**19.40**	**9.25**	**2.35**	**3.57**	**4.46**	**1.29**	**2.74**	**11.64**	**3.25**
	Expenditures in Million Nominal Dollars																
1970	**—**	**—**	**—**	**210.8**	**9.7**	**12.4**	**6.8**	**173.5**	**32.4**	**4.5**	**2.5**	**R 55.9**	**R 297.7**	**—**	**R 508.5**	**80.5**	**R 589.0**
1971	—	—	—	239.1	10.7	12.9	6.0	175.0	28.5	4.1	2.7	R 122.3	R 362.3	—	R 601.4	87.1	R 688.5
1972	—	—	—	297.3	9.8	15.1	6.5	206.4	32.3	3.6	2.5	R 133.8	R 410.1	—	R 707.4	100.5	R 807.9
1973	—	—	—	363.8	11.4	21.0	11.2	247.3	40.8	3.4	2.1	R 170.7	R 507.9	—	R 871.7	125.5	R 997.2
1974	—	—	—	620.2	16.7	37.9	22.4	450.2	53.0	4.4	29.2	R 352.2	R 966.0	—	R 1,586.2	175.8	R 1,762.0
1975	**—**	**—**	**—**	**624.6**	**33.2**	**49.0**	**22.0**	**441.2**	**59.0**	**4.1**	**33.6**	**R 434.9**	**R 1,076.9**	**—**	**R 1,701.4**	**166.6**	**R 1,868.1**
1976	—	—	—	758.9	26.9	74.5	25.5	497.6	61.7	3.7	30.8	R 621.6	R 1,342.2	—	R 2,101.1	202.5	R 2,303.5
1977	—	2.4	2.4	1,081.1	28.3	131.2	33.6	545.7	54.0	3.5	48.3	R 829.8	R 1,674.4	—	R 2,757.9	260.5	R 3,018.3
1978	—	6.3	6.3	946.3	38.5	130.0	34.2	680.4	63.2	2.9	34.1	R 906.3	R 1,889.6	—	R 2,842.2	328.5	R 3,170.7
1979	—	4.3	4.3	844.9	46.4	204.0	52.1	874.5	88.9	3.0	196.3	R 1,348.5	R 2,813.7	—	R 3,662.9	429.4	R 4,092.3
1980	**—**	**2.9**	**2.9**	**1,150.2**	**46.8**	**210.9**	**161.9**	**969.6**	**111.3**	**3.2**	**208.8**	**R 2,007.1**	**R 3,719.7**	**—**	**R 4,872.8**	**578.8**	**R 5,451.7**
1981	—	9.8	9.8	1,614.9	69.9	543.9	177.5	1,306.8	133.8	5.1	336.2	R 1,691.8	R 4,265.2	—	R 5,889.8	948.9	R 6,838.7
1982	—	11.9	11.9	1,748.8	69.9	569.0	227.7	1,937.8	116.9	42.3	263.9	R 1,162.9	R 4,390.4	—	R 6,151.1	1,021.9	R 7,173.0
1983	—	11.5	11.5	1,772.3	72.3	341.9	39.5	2,064.2	120.6	24.9	459.4	R 999.0	R 4,121.8	—	R 5,905.6	1,020.1	R 6,925.7
1984	—	13.4	13.4	2,244.6	55.6	339.7	41.1	1,492.1	133.5	16.3	315.4	R 939.9	R 3,333.6	—	R 5,591.7	1,025.8	R 6,617.5
1985	**—**	**15.8**	**15.8**	**1,833.1**	**50.8**	**338.2**	**4.4**	**R 1,311.9**	**124.2**	**23.9**	**161.8**	**R 949.1**	**R 2,964.2**	**—**	**R 4,813.2**	**1,126.7**	**R 5,939.9**
1986	—	11.5	11.5	1,248.4	54.3	255.1	4.8	R 1,256.5	107.5	14.5	18.6	R 799.2	R 2,510.6	—	R 3,770.6	887.1	R 4,657.7
1987	—	17.6	17.6	1,203.7	47.5	334.8	1.2	R 1,142.7	R 105.9	14.0	27.3	R 930.8	R 2,604.2	—	R 3,825.5	880.9	R 4,706.3
1988	—	19.5	19.5	1,292.8	49.9	312.1	3.6	R 1,109.9	109.9	13.1	25.9	R 821.2	R 2,445.7	—	R 3,758.0	906.5	R 4,664.6
1989	—	22.0	22.0	1,519.5	44.4	312.5	3.2	R 1,011.6	111.7	12.1	13.9	R 986.6	R 2,495.9	—	R 4,037.5	969.0	R 5,006.5
1990	**—**	**24.8**	**24.8**	**1,544.3**	**32.3**	**452.8**	**1.9**	**R 1,357.4**	**115.9**	**16.7**	**13.6**	**R 1,350.7**	**R 3,341.1**	**d R 33.3**	**d R 4,943.6**	**R 991.9**	**d R 5,935.5**
1991	—	17.8	17.8	1,362.2	30.6	375.6	1.8	R 1,480.5	119.3	17.8	7.7	R 979.9	R 3,013.2	R 40.9	R 4,434.1	R 1,012.7	R 5,446.8
1992	—	18.7	18.7	1,507.9	24.3	317.5	0.9	R 823.8	R 132.6	16.7	5.7	R 925.9	R 2,247.3	R 40.1	R 3,814.1	R 1,068.2	R 4,882.3
1993	—	18.1	18.1	1,884.4	28.4	333.1	0.9	R 866.5	R 139.8	31.5	2.6	R 820.1	R 2,222.7	R 42.1	R 4,167.3	R 1,147.7	R 5,315.0
1994	—	19.9	19.9	R 1,835.1	26.8	347.0	1.0	R 1,216.8	R 147.3	37.8	2.3	R 816.8	R 2,595.7	R 43.8	R 4,494.4	R 1,120.0	R 5,614.4
1995	**—**	**13.2**	**13.2**	**1,624.9**	**28.3**	**239.3**	**0.7**	**1,177.1**	**146.9**	**37.5**	**4.3**	**865.5**	**2,499.5**	**53.3**	**4,190.9**	**1,086.3**	**5,277.2**

[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 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, 1970-1995, Louisiana

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**—**	**—**	**2.17**	**1.09**	**0.72**	**1.06**	**5.08**	**2.86**	**0.44**	**1.97**	**1.97**	**5.07**	**1.97**
1971	—	—	2.21	1.16	0.75	1.06	5.27	2.84	0.47	2.07	2.07	5.12	2.08
1972	—	—	2.19	1.18	0.75	1.07	5.58	2.73	0.59	2.03	2.03	5.18	2.03
1973	—	—	2.36	1.42	0.89	1.18	5.33	2.92	0.63	2.09	2.09	5.65	2.09
1974	—	—	3.23	2.40	1.54	2.21	7.22	3.99	1.45	2.94	2.94	6.62	2.94
1975	**—**	**—**	**3.45**	**2.54**	**2.01**	**2.44**	**7.48**	**4.49**	**1.54**	**3.28**	**3.28**	**6.99**	**3.28**
1976	—	—	3.59	2.67	2.12	2.67	7.05	4.83	1.56	3.51	3.51	7.84	3.51
1977	1.34	—	3.97	3.00	2.48	2.96	6.97	5.04	1.69	3.68	3.68	8.39	3.68
1978	—	—	4.29	3.09	2.86	3.62	7.60	5.32	1.56	3.91	3.91	8.93	3.91
1979	—	—	5.73	4.73	3.96	3.95	10.21	7.08	2.41	5.27	5.27	10.05	5.27
1980	**—**	**—**	**9.02**	**6.84**	**6.34**	**5.22**	**14.36**	**9.89**	**3.05**	**6.87**	**6.87**	**12.08**	**6.87**
1981	—	—	10.84	8.60	7.47	4.99	18.00	11.03	3.78	8.42	8.42	14.62	8.42
1982	—	—	10.92	7.61	7.09	6.24	17.25	10.25	3.53	8.05	8.05	15.36	8.05
1983	—	—	10.44	6.66	6.25	6.57	16.98	9.03	3.20	7.14	7.14	15.83	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	**—**	**—**	**9.99**	**6.38**	**5.70**	**[R] 5.29**	**17.61**	**9.36**	**3.40**	**7.16**	**7.16**	**20.24**	**7.16**
1986	—	—	8.41	6.35	3.67	[R] 5.84	15.59	7.04	1.34	5.06	5.06	19.24	5.06
1987	—	—	7.55	6.56	3.90	[R] 6.02	[R] 13.58	7.14	2.54	[R] 5.51	[R] 5.51	17.55	[R] 5.51
1988	—	—	7.41	6.40	3.61	[R] 5.93	[R] 14.62	7.25	2.61	5.43	5.43	18.24	5.43
1989	—	—	8.28	6.97	4.12	[R] 5.57	14.48	7.90	2.53	5.81	5.81	17.80	5.81
1990	**—**	**3.11**	**9.32**	**8.48**	**5.79**	**[R] 8.07**	**14.60**	**9.47**	**2.07**	**6.92**	**6.92**	**[R] 20.15**	**6.92**
1991	—	3.40	8.71	8.21	4.67	[R] 8.06	[R] 16.80	9.51	2.87	6.53	6.53	[R] 18.65	6.53
1992	—	4.12	8.54	8.14	4.29	[R] 4.30	[R] 18.32	9.23	1.90	[R] 6.05	[R] 6.05	[R] 18.88	[R] 6.05
1993	—	3.35	8.24	8.13	4.02	[R] 4.40	[R] 18.96	9.14	1.87	6.14	6.14	20.85	6.14
1994	—	2.27	7.96	7.96	3.77	[R] 8.36	[R] 19.11	9.04	1.87	6.03	6.03	[R] 19.96	6.03
1995	**—**	**2.89**	**8.36**	**7.87**	**3.75**	**8.66**	**19.40**	**9.25**	**1.94**	**6.21**	**6.21**	**20.42**	**6.21**
	Expenditures in Million Nominal Dollars												
1970	**—**	**—**	**4.9**	**42.1**	**23.4**	**1.4**	**16.6**	**513.2**	**26.8**	**628.3**	**628.3**	**(s)**	**628.3**
1971	—	—	5.1	55.3	24.7	1.6	16.7	525.9	18.7	647.9	647.9	(s)	648.0
1972	—	—	4.6	75.9	24.3	1.6	18.9	548.6	23.1	697.1	697.1	0.1	697.1
1973	—	—	4.4	108.6	29.2	1.6	16.8	620.5	40.1	821.2	821.2	0.1	821.3
1974	—	—	6.0	185.0	67.8	2.6	21.9	853.9	131.3	1,268.5	1,268.5	0.1	1,268.6
1975	**—**	**—**	**5.1**	**200.6**	**67.9**	**2.8**	**23.9**	**1,003.8**	**163.2**	**1,467.4**	**1,467.4**	**0.1**	**1,467.5**
1976	—	—	4.7	194.8	60.4	3.8	25.0	1,158.5	181.3	1,628.5	1,628.5	0.1	1,628.6
1977	(s)	—	5.6	242.6	74.8	4.3	30.5	1,261.0	220.0	1,838.7	1,838.7	0.1	1,838.8
1978	—	—	4.8	269.7	89.0	6.4	35.7	1,381.2	185.8	1,972.5	1,972.5	0.1	1,972.6
1979	—	—	7.0	393.0	162.9	8.1	50.1	1,801.7	325.1	2,747.9	2,747.9	0.1	2,748.0
1980	**—**	**—**	**11.6**	**496.3**	**306.8**	**3.0**	**62.8**	**2,437.3**	**596.8**	**3,914.6**	**3,914.6**	**0.1**	**3,914.7**
1981	—	—	20.7	1,074.2	326.8	3.8	75.5	2,819.7	563.8	4,884.5	4,884.5	0.2	4,884.7
1982	—	—	14.0	667.3	325.0	5.6	65.9	2,661.6	409.4	4,148.9	4,148.9	0.2	4,149.0
1983	—	—	11.8	751.4	383.7	7.0	68.0	2,358.2	348.0	3,928.2	3,928.2	0.1	3,928.3
1984	—	—	9.7	771.3	433.0	8.5	75.3	2,352.7	359.9	4,010.3	4,010.3	0.2	4,010.5
1985	**—**	**—**	**8.6**	**749.4**	**410.5**	**[R] 2.1**	**70.0**	**2,388.8**	**368.9**	**3,998.4**	**3,998.4**	**0.2**	**[R] 3,998.6**
1986	—	—	7.0	699.4	369.3	[R] 2.0	60.6	1,823.9	201.1	3,163.3	3,163.3	0.2	[R] 3,163.5
1987	—	—	5.0	813.1	415.1	[R] 2.0	[R] 59.7	1,780.9	344.7	[R] 3,420.6	[R] 3,420.6	0.1	[R] 3,420.7
1988	—	—	4.6	871.6	435.5	[R] 1.8	62.0	1,839.9	380.1	[R] 3,595.5	[R] 3,595.5	0.2	3,595.6
1989	—	—	4.8	974.0	518.2	[R] 1.5	63.0	1,923.3	385.0	3,869.8	3,869.8	0.1	3,869.9
1990	**—**	**0.1**	**5.1**	**1,210.7**	**845.1**	**[R] 2.2**	**65.3**	**2,141.7**	**287.5**	**[R] 4,557.7**	**[R] 4,557.8**	**0.2**	**[R] 4,558.0**
1991	—	(s)	4.1	1,004.0	848.7	[R] 2.2	67.2	2,118.0	447.7	[R] 4,492.0	4,492.0	0.2	[R] 4,492.2
1992	—	(s)	3.8	923.3	653.1	1.0	[R] 74.8	2,160.5	348.4	[R] 4,164.7	[R] 4,164.7	0.2	[R] 4,164.9
1993	—	(s)	9.1	1,040.2	571.2	[R] 1.1	[R] 78.8	2,177.2	317.0	[R] 4,194.6	[R] 4,194.6	0.2	[R] 4,194.7
1994	—	0.1	5.3	1,124.5	688.3	[R] 3.5	[R] 83.0	2,128.4	[R] 282.3	[R] 4,315.4	4,315.5	0.2	[R] 4,315.6
1995	**—**	**0.1**	**3.7**	**1,055.0**	**613.0**	**1.9**	**82.8**	**2,256.5**	**280.9**	**4,293.9**	**4,294.0**	**0.2**	**4,294.1**

[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.
(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 124. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Louisiana

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	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	—	0.58	—	—	0.24
1972	—	0.26	0.77	0.87	—	0.78	—	—	0.27
1973	—	0.31	0.69	1.45	—	0.70	—	—	0.35
1974	—	0.42	1.64	3.22	—	1.65	—	—	0.58
1975	**—**	**0.64**	**1.76**	**1.92**	**—**	**1.76**	**—**	**—**	**0.73**
1976	—	0.78	1.73	2.37	—	1.73	—	—	0.95
1977	—	0.91	1.89	2.42	—	1.89	—	—	1.18
1978	—	1.11	1.82	2.53	—	1.82	—	—	1.31
1979	—	1.47	2.70	2.90	—	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	—	—	2.96
1984	2.26	3.04	3.52	5.91	—	4.71	—	—	2.84
1985	**2.19**	**2.73**	**3.51**	**5.84**	**—**	**5.08**	**0.86**	**—**	**2.46**
1986	1.79	1.86	1.45	3.20	—	1.63	1.04	—	1.67
1987	1.64	1.60	2.72	3.63	—	3.24	0.97	—	1.46
1988	1.56	1.63	2.98	4.42	—	3.35	0.92	—	1.44
1989	1.63	1.70	2.85	5.01	—	4.04	0.90	—	1.51
1990	**1.70**	**1.66**	**2.47**	**5.01**	**—**	**4.15**	**0.88**	**—**	**1.49**
1991	1.65	1.53	3.30	4.56	—	4.32	0.84	—	1.40
1992	1.54	1.83	2.16	4.31	([b])	0.37	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	1.93	4.06	([b])	0.78	0.70	—	1.59
1995	**1.55**	**1.81**	**1.90**	**3.73**	**([b])**	**3.44**	**0.64**	**—**	**1.46**
	Expenditures in Million Nominal Dollars								
1970	**—**	**72.3**	**0.3**	**0.2**	**—**	**0.5**	**—**	**—**	**72.9**
1971	—	87.2	1.4	0.2	—	1.7	—	—	88.8
1972	—	105.1	5.0	1.0	—	6.0	—	—	111.0
1973	—	117.9	33.4	0.7	—	34.0	—	—	151.9
1974	—	151.9	90.3	1.6	—	92.0	—	—	243.9
1975	**—**	**239.5**	**62.9**	**1.0**	**—**	**63.9**	**—**	**—**	**303.4**
1976	—	304.6	141.5	1.2	—	142.7	—	—	447.3
1977	—	335.1	265.2	1.2	—	266.4	—	—	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	**—**	**889.7**	**159.5**	**29.9**	**—**	**189.4**	**—**	**—**	**1,079.1**
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	—	—	1,378.1
1983	227.1	979.7	6.9	12.3	—	19.3	—	—	1,226.1
1984	248.8	957.6	2.9	4.8	—	7.7	—	—	1,214.1
1985	**324.2**	**815.3**	**1.3**	**4.5**	**—**	**5.8**	**22.9**	**—**	**1,168.2**
1986	297.1	518.7	5.7	1.4	—	7.2	119.4	—	942.4
1987	269.1	412.0	0.8	1.5	—	2.3	128.5	—	811.9
1988	313.4	426.6	7.4	3.8	—	11.2	135.7	—	886.9
1989	313.5	435.3	4.0	8.7	—	12.7	119.8	—	881.3
1990	**326.3**	**465.9**	**1.2**	**4.7**	**—**	**5.8**	**133.6**	**—**	**931.6**
1991	336.0	405.6	0.3	1.9	—	2.3	125.4	—	869.3
1992	326.1	486.0	0.2	1.9	([b])	2.1	89.2	—	903.4
1993	335.8	606.9	8.2	1.7	([b])	9.9	105.5	—	1,058.1
1994	337.6	601.2	4.1	2.3	([b])	6.4	96.1	—	1,041.2
1995	**324.9**	**608.3**	**0.2**	**1.7**	**([b])**	**1.8**	**106.6**	**—**	**1,041.6**

[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: 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 125. Energy Price and Expenditure Estimates by Source, 1970-1995, Maine

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	**—**	**1.06**	**1.06**	**1.48**	**1.37**	**0.75**	**2.37**	**3.02**	**0.38**	**1.53**	**1.46**	**—**	**—**	**1.45**	**0.35**	**5.92**	**1.95**
1971	—	1.00	1.00	1.53	1.43	0.79	1.88	3.12	0.47	1.62	1.38	—	—	1.37	0.39	6.04	1.80
1972	—	1.24	1.24	1.63	1.44	0.78	2.87	3.05	0.41	1.68	1.33	0.24	—	1.33	0.38	6.45	1.80
1973	—	1.31	1.31	1.64	1.67	0.93	3.00	3.21	0.48	1.71	1.49	0.27	—	1.36	0.33	6.68	1.99
1974	—	1.66	1.66	1.82	2.61	1.61	4.11	4.35	1.72	2.70	2.70	0.30	—	2.37	0.82	8.20	3.26
1975	**—**	**2.60**	**2.60**	**2.03**	**2.78**	**2.09**	**4.20**	**4.56**	**1.79**	**3.05**	**3.04**	**0.32**	**—**	**2.54**	**0.71**	**9.70**	**3.77**
1976	—	1.99	1.99	2.46	2.97	2.29	4.43	4.71	1.77	3.10	3.07	0.20	—	2.49	0.44	9.26	3.67
1977	—	2.56	2.56	3.10	3.36	2.64	5.04	5.03	2.13	3.40	3.44	0.30	—	2.90	0.53	10.13	4.09
1978	—	2.34	2.34	3.12	3.47	2.97	5.29	5.21	2.06	3.72	3.61	0.32	—	2.98	0.60	10.45	4.38
1979	—	1.96	1.96	3.65	4.91	3.98	6.95	6.99	2.82	5.39	4.93	0.36	—	4.10	0.93	12.46	5.90
1980	**—**	**1.89**	**1.89**	**5.03**	**6.83**	**6.51**	**7.86**	**9.69**	**4.10**	**7.34**	**7.00**	**0.58**	**—**	**5.70**	**1.82**	**16.30**	**8.44**
1981	—	2.38	2.38	6.03	8.43	7.80	8.59	10.75	5.10	9.12	8.08	0.67	—	6.34	2.03	18.65	9.74
1982	—	2.24	2.24	7.22	8.18	7.51	9.54	10.08	4.69	8.36	7.22	0.58	—	5.95	1.81	18.74	8.64
1983	—	2.14	2.14	8.50	7.98	6.93	10.29	9.49	4.59	7.67	7.49	0.62	—	5.65	1.68	18.14	9.41
1984	—	2.67	2.67	8.13	8.04	6.69	9.58	9.05	4.96	6.94	7.26	0.63	—	5.78	1.89	19.10	9.20
1985	**—**	**2.58**	**2.58**	**7.41**	**7.97**	**6.10**	**[R] 11.14**	**9.35**	**4.37**	**6.85**	**[R] 7.38**	**0.62**	**—**	**5.84**	**1.60**	**20.16**	**9.49**
1986	—	2.27	2.27	7.06	5.97	4.50	[R] 10.82	7.38	2.44	6.77	[R] 5.26	0.58	—	4.20	1.11	19.88	7.43
1987	—	2.48	2.48	6.45	6.15	4.41	[R] 10.88	7.72	2.93	[R] 5.81	[R] 5.84	0.60	—	[R] 4.95	1.50	19.10	8.04
1988	—	2.63	2.63	5.64	6.16	4.13	[R] 10.83	8.15	2.33	5.19	[R] 5.63	0.64	—	[R] 4.77	1.27	19.62	[R] 7.76
1989	—	2.66	2.66	5.78	6.92	4.79	[R] 10.52	8.69	2.80	6.14	[R] 6.16	0.54	—	4.84	1.21	20.53	[R] 8.54
1990	**—**	**2.72**	**2.72**	**6.05**	**7.87**	**5.92**	**[R] 13.25**	**9.74**	**2.86**	**7.04**	**7.00**	**0.46**	**[d R] 1.30**	**[d R] 5.24**	**1.17**	**22.42**	**[d R] 8.40**
1991	—	2.67	2.67	5.50	7.53	5.07	[R] 14.71	9.64	2.33	6.28	[R] 6.72	0.43	1.38	[R] 4.72	0.73	[R] 25.20	[R] 8.28
1992	—	2.67	2.67	5.43	6.95	5.20	[R] 11.62	9.63	2.42	[R] 5.91	6.57	0.39	1.37	[R] 4.64	0.76	[R] 26.51	[R] 8.13
1993	—	2.36	2.36	6.06	6.62	4.43	[R] 12.78	9.33	2.38	6.20	[R] 6.46	0.37	1.35	[R] 4.60	0.60	[R] 26.66	[R] 8.12
1994	—	2.25	2.25	6.27	6.71	4.16	[R] 13.23	9.41	2.41	[R] 7.48	[R] 6.40	0.39	1.36	[R] 4.53	0.57	[R] 28.24	[R] 8.16
1995	**—**	**2.28**	**2.28**	**5.79**	**6.42**	**4.12**	**12.89**	**9.95**	**2.72**	**7.40**	**6.76**	**2.14**	**1.39**	**5.68**	**2.53**	**27.80**	**8.36**
	Expenditures in Million Nominal Dollars																
1970	**—**	**2.3**	**2.3**	**1.9**	**94.2**	**9.4**	**5.7**	**174.9**	**27.5**	**25.4**	**337.1**	**—**	**—**	**341.3**	**-10.6**	**102.3**	**433.1**
1971	—	2.3	2.3	2.3	101.2	10.6	4.5	188.7	55.1	27.6	387.7	—	—	392.3	-12.6	109.7	489.3
1972	—	1.7	1.7	2.5	108.4	10.1	8.3	193.9	55.0	28.5	404.1	0.1	—	408.5	-13.7	128.3	523.1
1973	—	1.9	1.9	2.7	121.3	12.3	8.8	210.7	59.6	26.9	439.6	9.7	—	453.8	-22.6	139.8	571.1
1974	—	3.3	3.3	3.0	182.9	18.8	12.2	283.1	163.4	37.8	698.1	11.8	—	716.2	-53.5	179.5	842.2
1975	**—**	**3.4**	**3.4**	**4.0**	**186.5**	**22.7**	**15.1**	**303.1**	**111.7**	**36.2**	**675.1**	**16.1**	**—**	**698.6**	**-48.1**	**216.1**	**866.7**
1976	—	2.1	2.1	5.1	235.6	24.3	18.9	328.6	141.4	45.3	794.0	13.1	—	814.3	-34.2	224.9	1,005.1
1977	—	1.5	1.5	6.3	289.4	33.5	22.3	356.1	162.9	41.6	905.8	16.4	—	930.1	-33.6	261.8	1,158.2
1978	—	1.7	1.7	6.8	276.0	38.2	21.3	374.3	135.0	38.2	883.1	19.0	—	910.6	-42.1	284.4	1,152.9
1979	—	1.5	1.5	7.9	327.1	48.4	43.8	456.5	184.1	39.7	1,099.6	17.4	—	1,126.5	-58.5	343.2	1,411.2
1980	**—**	**5.7**	**5.7**	**11.2**	**422.8**	**66.7**	**25.2**	**598.7**	**220.7**	**53.9**	**1,388.1**	**27.9**	**—**	**1,432.8**	**-129.8**	**455.3**	**1,758.3**
1981	—	7.5	7.5	14.3	454.3	65.7	22.3	653.1	319.9	56.6	1,571.9	38.5	—	1,632.1	-164.7	524.3	1,991.7
1982	—	15.6	15.6	19.4	436.7	65.1	28.9	624.9	455.9	51.1	1,662.6	29.2	—	1,726.8	-127.0	557.9	2,157.7
1983	—	12.6	12.6	21.1	341.8	56.7	31.3	602.7	243.2	55.3	1,331.0	38.8	—	1,403.5	-142.2	584.1	1,845.4
1984	—	13.2	13.2	20.5	392.8	55.3	20.8	583.9	322.0	73.8	1,448.5	35.0	—	1,517.3	-147.4	627.0	1,996.9
1985	**—**	**13.2**	**13.2**	**19.3**	**445.0**	**54.4**	**[R] 27.1**	**615.9**	**217.2**	**148.7**	**[R] 1,508.3**	**35.7**	**—**	**[R] 1,576.5**	**-127.6**	**675.7**	**[R] 2,124.6**
1986	—	21.1	21.1	17.9	399.8	39.6	[R] 40.9	520.9	196.6	67.8	[R] 1,265.5	38.9	—	[R] 1,343.5	-105.0	692.1	[R] 1,930.5
1987	—	17.0	17.0	17.6	428.5	43.7	[R] 51.8	570.3	170.3	[R] 64.8	[R] 1,329.5	25.9	—	[R] 1,390.0	-106.3	698.4	[R] 1,982.1
1988	—	18.2	18.2	18.5	492.2	47.7	[R] 63.6	658.8	177.4	91.8	[R] 1,531.5	34.2	—	[R] 1,602.4	-107.3	754.0	[R] 2,249.2
1989	—	18.0	18.0	21.3	494.2	59.5	[R] 60.8	647.4	209.6	83.0	[R] 1,554.6	40.0	—	[R] 1,633.9	-128.9	801.0	[R] 2,306.0
1990	**—**	**18.0**	**18.0**	**26.4**	**549.8**	**82.9**	**[R] 66.8**	**718.6**	**192.7**	**67.1**	**[R] 1,677.9**	**24.1**	**[d R] 54.2**	**[d R] 1,800.7**	**-86.5**	**[R] 881.9**	**[d R] 2,596.1**
1991	—	25.0	25.0	26.5	454.8	66.7	[R] 78.4	714.7	149.1	80.0	[R] 1,543.8	29.0	[R] 64.0	[R] 1,688.3	-59.3	[R] 978.9	[R] 2,607.8
1992	—	57.3	57.3	28.2	441.0	54.8	[R] 51.9	714.3	146.8	[R] 72.1	[R] 1,481.0	22.2	[R] 64.6	[R] 1,653.3	-54.4	[R] 1,038.7	[R] 2,637.7
1993	—	26.5	26.5	30.5	492.7	36.6	[R] 63.0	705.0	139.7	91.0	[R] 1,528.0	22.9	[R] 67.9	[R] 1,675.8	-41.7	[R] 1,087.3	[R] 2,721.4
1994	—	26.1	26.1	32.1	530.6	23.3	[R] 66.5	717.6	174.1	81.1	[R] 1,593.1	27.6	[R] 65.3	[R] 1,744.2	-45.0	[R] 1,118.2	[R] 2,817.4
1995	**—**	**16.1**	**16.1**	**31.4**	**542.9**	**19.6**	**72.1**	**751.3**	**163.1**	**92.4**	**1,641.5**	**4.5**	**74.8**	**1,768.2**	**-29.0**	**1,096.6**	**2,835.8**

[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 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 126. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Maine

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.29**	**1.96**	**1.51**	**1.60**	**3.04**	**1.56**	**—**	**1.56**	**8.12**	**2.17**
1971	1.56	2.03	1.58	1.66	2.17	1.61	—	1.61	8.08	2.26
1972	1.58	2.12	1.59	1.69	3.91	1.67	—	1.67	8.42	2.39
1973	1.83	2.15	1.79	1.94	4.13	1.88	—	1.88	8.65	2.68
1974	2.19	2.35	2.72	3.01	5.10	2.83	—	2.82	10.07	3.77
1975	**2.62**	**2.59**	**2.87**	**3.16**	**4.78**	**2.98**	**—**	**2.98**	**11.67**	**4.17**
1976	2.64	2.62	3.06	3.35	4.87	3.17	—	3.16	11.02	4.18
1977	3.12	3.54	3.42	3.75	5.71	3.55	—	3.55	12.21	4.65
1978	3.68	3.49	3.50	4.01	6.09	3.65	—	3.65	12.57	4.94
1979	3.64	4.10	4.96	5.33	9.06	5.27	—	5.25	14.63	6.85
1980	**3.90**	**6.20**	**6.94**	**8.15**	**10.04**	**7.12**	**—**	**7.09**	**18.30**	**9.29**
1981	4.87	7.27	8.68	10.54	10.92	8.84	—	8.75	21.02	11.61
1982	4.43	8.43	8.33	10.79	12.01	8.62	—	8.53	21.71	11.80
1983	4.06	9.59	7.78	9.36	12.23	8.24	—	8.19	21.63	12.51
1984	4.76	9.28	7.87	9.33	12.88	8.16	—	8.10	22.35	12.87
1985	**4.39**	**8.76**	**7.55**	**8.95**	**11.45**	**7.90**	**—**	**7.86**	**23.71**	**11.75**
1986	4.19	8.26	5.63	6.68	9.79	5.93	—	5.93	23.98	10.18
1987	3.85	7.73	5.66	6.70	10.37	6.12	—	6.11	23.79	10.42
1988	3.99	7.07	5.88	6.97	10.37	6.35	—	6.33	24.17	10.52
1989	3.96	7.14	6.77	8.02	10.37	7.21	—	7.18	24.93	11.55
1990	**4.21**	**7.57**	**7.49**	**8.88**	**14.41**	**8.22**	**[d] 2.83**	**[d] 7.81**	**[R] 27.24**	**[d R] 12.33**
1991	4.07	6.82	7.34	8.70	15.88	8.25	2.83	7.84	30.64	12.94
1992	3.94	6.86	6.66	7.89	12.26	7.18	2.83	6.83	[R] 33.33	[R] 12.84
1993	3.96	7.37	6.31	7.48	13.72	7.05	2.83	6.76	[R] 33.51	[R] 12.38
1994	4.07	7.72	6.25	7.41	[R] 14.73	[R] 7.12	2.83	[R] 6.84	[R] 36.10	[R] 12.83
1995	**4.01**	**7.20**	**6.01**	**7.13**	**14.34**	**6.78**	**2.83**	**6.56**	**36.65**	**11.53**
	Expenditures in Million Nominal Dollars									
1970	**0.7**	**1.0**	**69.1**	**14.9**	**4.4**	**88.4**	**—**	**90.2**	**47.7**	**137.9**
1971	0.8	1.1	73.0	15.7	3.1	91.8	—	93.8	52.1	145.8
1972	0.7	1.3	78.0	15.9	6.5	100.4	—	102.3	61.1	163.5
1973	0.7	1.3	85.0	13.4	7.0	105.4	—	107.5	66.8	174.2
1974	0.8	1.5	125.8	17.5	9.5	152.9	—	155.1	82.7	237.8
1975	**0.8**	**1.9**	**127.9**	**16.7**	**10.7**	**155.3**	**—**	**158.0**	**99.0**	**257.0**
1976	0.7	2.1	161.4	23.1	13.6	198.1	—	200.9	104.2	305.1
1977	0.9	2.7	198.3	20.2	16.8	235.3	—	238.9	119.2	358.1
1978	0.7	2.7	184.9	15.7	15.8	216.5	—	220.0	128.5	348.4
1979	0.6	3.0	210.5	16.3	30.9	257.7	—	261.3	150.6	411.8
1980	**1.1**	**3.5**	**257.7**	**18.7**	**14.6**	**291.0**	**—**	**295.6**	**187.2**	**482.8**
1981	2.5	4.3	264.0	13.9	13.7	291.7	—	298.5	217.5	516.0
1982	2.7	5.1	239.7	16.6	17.5	273.9	—	281.7	235.7	517.3
1983	1.9	5.3	146.9	14.1	21.2	182.3	—	189.6	237.4	427.0
1984	2.7	5.2	152.3	14.4	10.7	177.4	—	185.3	256.9	442.3
1985	**2.2**	**4.8**	**214.6**	**46.2**	**14.4**	**275.1**	**—**	**282.1**	**276.6**	**558.7**
1986	2.6	4.6	186.4	23.6	18.2	228.3	—	235.5	292.7	528.2
1987	2.0	4.2	179.9	24.0	30.5	234.5	—	240.7	302.4	543.1
1988	1.6	4.1	204.6	31.0	34.3	269.8	—	275.5	322.0	597.5
1989	1.1	4.6	223.9	36.6	35.2	295.6	—	301.3	341.0	642.3
1990	**1.9**	**4.9**	**219.8**	**28.3**	**45.1**	**293.2**	**[d] 7.4**	**[d] 307.4**	**[R] 365.5**	**[d R] 672.9**
1991	0.8	5.0	220.4	29.2	53.9	303.5	7.7	317.0	[R] 399.1	[R] 716.1
1992	1.5	6.1	204.8	21.2	34.1	260.1	8.2	275.8	[R] 435.5	[R] 711.3
1993	1.1	6.7	210.4	31.4	47.1	288.9	8.5	305.2	[R] 442.7	[R] 748.0
1994	0.4	7.0	205.5	31.9	[R] 52.7	[R] 290.1	8.3	[R] 305.8	[R] 454.7	[R] 760.4
1995	**0.2**	**6.7**	**258.7**	**44.0**	**58.2**	**360.9**	**9.2**	**377.0**	**453.8**	**830.8**

[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.
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 127. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Maine

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.98**	**1.42**	**1.11**	**0.68**	**1.35**	**3.02**	**0.35**	**1.02**	**1.03**	**7.86**	**2.40**
1971	0.84	1.48	1.17	0.72	1.45	3.12	0.39	0.97	0.99	7.90	2.28
1972	1.09	1.61	1.18	0.72	1.48	3.05	0.38	0.98	1.00	8.36	2.45
1973	1.11	1.69	1.39	0.92	1.45	3.21	0.39	1.14	1.16	8.55	2.77
1974	1.54	1.86	2.32	2.09	2.43	4.35	1.62	2.17	2.15	9.55	3.82
1975	**2.59**	**2.07**	**2.46**	**2.55**	**3.24**	**4.56**	**1.79**	**2.41**	**2.40**	**11.68**	**5.09**
1976	1.79	2.59	2.64	2.76	3.58	4.71	1.73	2.50	2.50	11.33	4.82
1977	2.08	3.16	2.99	3.12	3.70	5.03	2.07	2.85	2.84	12.50	5.31
1978	1.82	3.19	3.09	3.33	3.84	5.21	2.03	2.95	2.95	13.05	5.82
1979	1.54	3.61	4.44	4.69	4.47	6.99	2.91	4.19	4.14	15.29	7.57
1980	**1.68**	**5.00**	**6.32**	**6.50**	**6.06**	**9.69**	**4.33**	**5.84**	**5.72**	**19.20**	**9.16**
1981	1.90	5.98	8.03	7.08	6.41	10.75	5.29	7.57	7.30	21.83	11.57
1982	2.03	7.15	7.70	8.05	7.24	10.08	4.77	6.84	6.63	22.56	11.34
1983	1.98	8.67	7.16	7.69	7.72	9.49	4.64	6.43	6.44	22.22	11.07
1984	2.39	8.34	7.14	8.08	7.53	9.05	4.96	6.35	6.33	22.19	11.19
1985	**2.38**	**7.73**	**6.81**	**7.66**	**[R] 10.81**	**9.35**	**4.50**	**[R] 5.90**	**[R] 5.88**	**23.69**	**[R] 11.97**
1986	2.13	7.26	4.72	5.46	[R] 11.81	7.38	2.47	[R] 3.85	[R] 3.97	23.53	9.51
1987	2.37	6.71	4.86	5.46	[R] 11.69	7.72	2.93	[R] 4.61	[R] 4.68	20.68	[R] 10.37
1988	2.55	6.09	4.71	5.11	[R] 11.43	8.15	2.33	[R] 3.80	[R] 3.91	21.15	[R] 8.43
1989	2.61	6.28	5.50	6.16	[R] 10.73	8.69	2.83	[R] 4.35	[R] 4.45	22.09	[R] 9.33
1990	**2.61**	**6.69**	**6.44**	**7.11**	**[R] 11.34**	**9.74**	**2.91**	**[R] 4.70**	**[R] 4.78**	**[R] 24.03**	**[R] 9.84**
1991	2.65	5.98	5.95	6.72	[R] 12.66	9.64	2.41	[R] 4.02	[R] 4.15	[R] 27.11	[R] 10.15
1992	2.65	6.11	5.45	6.25	[R] 10.56	9.63	2.47	[R] 4.42	[R] 4.55	[R] 27.81	[R] 11.82
1993	2.32	6.67	5.20	5.97	[R] 10.62	9.33	2.44	[R] 4.76	[R] 4.92	[R] 28.32	[R] 12.38
1994	2.24	6.87	5.21	[R] 5.90	[R] 10.42	9.41	2.46	[R] 4.75	[R] 4.97	[R] 30.46	[R] 12.93
1995	**2.27**	**6.41**	**5.15**	**5.71**	**10.69**	**9.95**	**2.75**	**5.10**	**5.26**	**30.87**	**14.04**
	Expenditures in Million Nominal Dollars										
1970	**0.4**	**0.6**	**10.8**	**0.3**	**0.3**	**0.6**	**0.6**	**12.7**	**13.7**	**26.1**	**39.9**
1971	0.4	0.7	11.4	0.3	0.4	0.7	1.6	14.4	15.4	28.4	43.8
1972	0.4	0.8	12.2	0.3	0.4	0.7	1.6	15.1	16.3	33.4	49.8
1973	0.4	0.7	14.0	0.3	0.4	0.5	1.5	16.7	17.9	36.7	54.5
1974	0.5	0.8	22.6	0.6	0.8	0.7	5.2	29.8	31.2	40.4	71.6
1975	**0.7**	**1.1**	**23.1**	**0.6**	**1.3**	**1.0**	**3.7**	**29.7**	**31.5**	**62.5**	**93.9**
1976	0.3	1.3	29.4	0.9	1.8	1.0	5.8	38.9	40.5	65.7	106.2
1977	0.5	1.6	36.4	0.8	1.9	1.1	7.2	47.5	49.6	74.6	124.2
1978	0.2	1.9	34.4	0.6	1.8	1.2	5.8	43.7	45.9	80.9	126.8
1979	0.2	2.4	39.7	0.7	2.7	1.6	7.3	52.0	54.5	89.8	144.3
1980	**0.5**	**4.4**	**67.7**	**2.6**	**1.6**	**2.5**	**18.6**	**92.9**	**97.8**	**112.5**	**210.3**
1981	0.7	6.4	81.4	1.8	1.4	3.0	12.0	99.6	106.7	133.1	239.9
1982	1.4	8.7	63.5	1.0	1.9	2.9	19.2	88.6	98.7	141.0	239.7
1983	1.1	10.0	58.4	3.0	2.4	4.9	21.6	90.3	101.4	145.3	246.7
1984	1.6	9.7	59.7	2.0	1.1	5.4	31.6	99.8	111.1	172.3	283.4
1985	**1.6**	**9.1**	**38.5**	**4.3**	**[R] 2.4**	**5.1**	**29.4**	**[R] 79.6**	**[R] 90.4**	**189.0**	**[R] 279.3**
1986	2.0	9.1	42.9	0.8	[R] 3.9	4.1	22.7	[R] 74.3	[R] 85.4	199.9	[R] 285.3
1987	1.7	8.7	42.0	1.3	[R] 6.1	3.8	13.0	[R] 66.1	[R] 76.6	186.4	[R] 262.9
1988	1.4	9.1	49.1	4.6	[R] 6.7	4.5	27.5	[R] 92.3	[R] 102.9	198.0	[R] 300.9
1989	1.0	10.5	51.9	3.3	[R] 6.4	5.3	34.1	[R] 101.0	[R] 112.4	213.0	[R] 325.4
1990	**1.6**	**11.3**	**63.4**	**2.7**	**[R] 6.3**	**5.1**	**39.6**	**[R] 117.1**	**[R] 130.0**	**[R] 233.4**	**[R] 363.4**
1991	0.4	11.2	50.1	4.8	[R] 7.6	2.7	37.3	[R] 102.4	[R] 114.0	[R] 264.2	[R] 378.2
1992	1.4	13.7	54.4	2.3	[R] 5.2	2.5	19.5	[R] 84.0	[R] 99.1	[R] 275.2	[R] 374.3
1993	0.8	15.6	68.5	5.9	[R] 6.4	0.6	11.3	[R] 92.7	[R] 109.1	[R] 293.8	[R] 402.9
1994	0.1	16.6	69.6	[R] 5.1	[R] 6.6	0.6	11.9	[R] 93.8	[R] 110.5	[R] 307.8	[R] 418.3
1995	**0.1**	**15.8**	**66.4**	**5.2**	**7.7**	**0.6**	**6.5**	**86.4**	**102.2**	**313.1**	**415.3**

[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.
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 128. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Maine

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.98**	**0.98**	**0.84**	**0.73**	**0.63**	**0.68**	**1.35**	**5.08**	**3.02**	**0.43**	**0.89**	**0.58**	**—**	**0.59**	**3.52**	**1.03**
1971	—	0.84	0.84	0.92	0.87	0.67	0.72	1.45	5.27	3.12	0.52	—	0.60	—	0.61	3.60	0.86
1972	—	1.09	1.09	1.00	0.87	0.66	0.72	1.48	5.58	3.05	0.46	—	0.55	—	0.55	3.91	0.86
1973	—	1.11	1.11	1.09	0.86	0.84	0.92	1.45	5.33	3.21	0.57	—	0.66	—	0.67	4.08	1.00
1974	—	1.54	1.54	1.19	1.60	1.93	2.09	2.43	7.22	4.35	1.83	—	1.87	—	1.86	5.97	2.34
1975	**—**	**2.59**	**2.59**	**1.42**	**1.99**	**2.30**	**2.55**	**3.24**	**7.48**	**4.56**	**1.82**	**—**	**1.97**	**—**	**1.97**	**6.46**	**2.64**
1976	—	1.79	1.79	2.21	2.01	2.55	2.76	3.58	7.05	4.71	1.80	—	1.93	—	1.93	6.09	2.39
1977	—	2.08	2.08	2.63	2.08	2.90	3.12	3.70	6.97	5.03	2.16	—	2.27	—	2.27	6.73	2.81
1978	—	1.82	1.82	2.71	2.28	3.09	3.33	3.84	7.60	5.21	2.07	—	2.24	—	2.24	6.95	2.95
1979	—	1.54	1.54	3.26	2.65	4.45	4.69	4.47	10.21	6.99	2.84	—	3.12	—	3.11	9.04	4.13
1980	**—**	**1.68**	**1.68**	**4.19**	**3.73**	**5.94**	**6.50**	**6.06**	**14.36**	**9.69**	**3.84**	**—**	**4.38**	**—**	**4.21**	**13.15**	**6.32**
1981	—	1.90	1.90	5.09	5.42	6.43	7.08	6.41	18.00	10.75	5.00	—	5.36	—	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	4.67	—	4.93	—	4.76	14.31	5.98
1983	—	1.98	1.98	7.47	4.23	6.97	7.69	7.72	16.98	9.49	4.54	—	5.01	—	4.70	13.72	7.06
1984	—	2.39	2.39	7.04	4.62	7.01	8.08	7.53	17.63	9.05	4.96	—	5.27	—	5.10	14.57	7.00
1985	**—**	**2.38**	**2.38**	**6.14**	**5.21**	**6.65**	**7.66**	**[R] 10.81**	**17.61**	**9.35**	**4.50**	**—**	**[R] 5.24**	**—**	**[R] 5.01**	**15.15**	**[R] 7.38**
1986	—	2.13	2.13	5.81	4.88	4.74	5.46	[R] 11.81	15.59	7.38	2.47	—	[R] 3.23	—	[R] 3.13	14.14	[R] 5.15
1987	—	2.37	2.37	5.26	3.55	4.74	5.46	[R] 11.69	[R] 13.58	7.72	2.93	—	[R] 3.74	—	[R] 3.60	14.12	[R] 6.16
1988	—	2.55	2.55	4.39	3.35	4.44	5.11	[R] 11.43	[R] 14.62	8.15	2.33	—	[R] 3.33	—	[R] 3.28	14.86	[R] 5.70
1989	—	2.61	2.61	4.56	3.23	5.35	6.16	[R] 10.73	14.48	8.69	2.83	—	[R] 3.74	—	[R] 3.63	15.74	[R] 6.38
1990	**—**	**2.61**	**2.61**	**5.03**	**3.34**	**6.17**	**7.11**	**[R] 11.34**	**14.60**	**9.74**	**2.91**	**—**	**[R] 3.76**	**[d R] 1.20**	**[d R] 2.58**	**17.46**	**[d R] 4.90**
1991	—	2.65	2.65	4.66	3.05	5.83	6.72	[R] 12.66	[R] 16.80	9.64	2.41	7.33	[R] 3.37	1.29	[R] 2.45	[R] 19.64	[R] 4.77
1992	—	2.65	2.65	4.09	2.81	5.42	6.25	[R] 10.56	[R] 18.32	9.63	2.47	8.91	[R] 3.22	1.28	2.41	20.23	[R] 4.55
1993	—	2.32	2.32	4.59	3.30	5.17	5.97	[R] 10.62	[R] 18.96	9.33	2.44	7.53	[R] 3.24	1.26	2.40	[R] 20.40	[R] 4.65
1994	—	2.24	2.24	4.72	3.64	5.12	5.90	[R] 8.85	[R] 19.11	9.41	2.46	8.46	[R] 3.13	[R] 1.26	[R] 2.43	[R] 21.05	[R] 4.56
1995	**—**	**2.27**	**2.27**	**4.39**	**3.78**	**4.95**	**5.71**	**7.58**	**19.40**	**9.95**	**2.75**	**8.80**	**3.41**	**1.30**	**2.47**	**19.48**	**4.58**
	Expenditures in Million Nominal Dollars																
1970	**—**	**1.1**	**1.1**	**0.3**	**3.4**	**2.9**	**0.2**	**0.9**	**1.7**	**2.2**	**13.8**	**0.4**	**25.5**	**—**	**26.9**	**28.4**	**55.3**
1971	—	1.1	1.1	0.4	4.6	3.2	0.2	1.0	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	—	46.5	—	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	—	53.6	—	55.0	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**	**9.2**	**0.9**	**3.0**	**2.7**	**1.9**	**66.8**	**—**	**93.5**	**—**	**96.5**	**54.6**	**151.1**
1976	—	1.1	1.1	1.7	11.2	11.4	1.1	3.4	2.8	1.6	106.1	—	137.6	—	140.4	55.1	195.5
1977	—	0.2	0.2	2.0	9.7	13.8	1.2	3.5	2.7	1.8	132.7	—	165.5	—	167.7	68.0	235.7
1978	—	0.7	0.7	2.1	9.6	12.6	1.2	3.6	3.2	1.7	103.2	—	135.0	—	137.9	75.0	212.9
1979	—	0.8	0.8	2.5	6.0	19.6	1.0	10.1	4.5	2.7	124.6	—	168.3	—	171.7	102.9	274.5
1980	**—**	**4.1**	**4.1**	**3.2**	**10.8**	**26.4**	**1.1**	**8.9**	**5.6**	**3.8**	**97.6**	**—**	**154.2**	**—**	**161.4**	**155.7**	**317.1**
1981	—	4.2	4.2	3.7	17.2	27.9	0.5	7.1	6.8	2.2	165.3	—	227.0	—	234.9	173.6	408.6
1982	—	11.4	11.4	5.6	12.5	37.7	1.0	9.2	5.9	3.1	324.0	—	393.3	—	410.3	181.3	591.6
1983	—	9.6	9.6	5.8	16.4	25.8	0.8	7.3	6.1	2.1	120.0	—	178.6	—	193.9	201.4	395.3
1984	—	8.9	8.9	5.7	34.1	26.6	0.5	8.4	6.7	4.4	179.0	—	259.8	—	274.4	197.8	472.2
1985	**—**	**9.3**	**9.3**	**5.4**	**75.6**	**17.6**	**1.5**	**[R] 9.7**	**6.3**	**6.1**	**96.3**	**—**	**[R] 213.1**	**—**	**[R] 227.8**	**210.2**	**[R] 438.0**
1986	—	16.5	16.5	4.2	23.8	15.3	0.6	[R] 17.9	5.4	5.1	107.4	—	[R] 175.5	—	[R] 196.2	199.5	[R] 395.6
1987	—	13.3	13.3	4.7	20.1	25.3	1.2	[R] 14.6	[R] 5.3	5.5	76.8	—	[R] 148.8	—	[R] 166.8	209.6	[R] 376.4
1988	—	15.1	15.1	5.2	35.2	31.9	1.6	[R] 21.5	5.5	5.7	72.9	—	[R] 174.3	—	[R] 194.6	234.0	[R] 428.6
1989	—	15.9	15.9	6.3	21.5	33.5	1.7	[R] 18.0	5.6	6.4	84.6	—	[R] 171.4	—	[R] 193.6	247.0	[R] 440.6
1990	**—**	**14.5**	**14.5**	**10.2**	**14.3**	**25.4**	**1.1**	**[R] 14.7**	**5.9**	**4.8**	**88.9**	**—**	**[R] 155.1**	**[d R] 46.8**	**[d R] 226.6**	**283.0**	**[d R] 509.6**
1991	—	23.9	23.9	10.4	20.0	26.4	1.0	[R] 16.2	6.0	5.1	80.7	4.9	[R] 160.2	[R] 56.2	[R] 250.7	[R] 315.6	[R] 566.3
1992	—	54.4	54.4	8.5	19.8	23.7	0.5	[R] 12.1	[R] 6.7	5.1	93.5	6.1	[R] 167.6	[R] 56.5	[R] 287.0	[R] 328.1	[R] 615.1
1993	—	24.5	24.5	8.2	23.7	37.9	1.8	[R] 9.0	7.1	7.1	106.5	5.2	[R] 198.3	[R] 59.4	290.4	[R] 350.8	[R] 641.2
1994	—	25.6	25.6	8.5	11.6	42.2	2.4	[R] 6.5	[R] 7.4	8.1	142.2	6.1	[R] 226.5	[R] 57.0	[R] 317.5	[R] 355.7	[R] 673.2
1995	**—**	**15.9**	**15.9**	**8.9**	**12.1**	**33.6**	**1.0**	**5.9**	**7.4**	**8.8**	**129.4**	**6.0**	**204.3**	**65.6**	**294.6**	**329.7**	**624.3**

[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 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 129. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Maine

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.98**	**—**	**2.17**	**1.39**	**0.75**	**1.35**	**5.08**	**3.02**	**0.31**	**2.28**	**2.28**	**—**	**2.28**
1971	0.84	—	2.21	1.49	0.79	1.45	5.27	3.12	0.34	2.34	2.34	—	2.34
1972	1.09	—	2.19	1.50	0.78	1.48	5.58	3.05	0.33	2.12	2.12	—	2.12
1973	1.11	—	2.36	1.80	0.93	1.45	5.33	3.21	0.34	2.26	2.26	—	2.26
1974	1.54	—	3.23	2.73	1.61	2.43	7.22	4.35	1.43	3.57	3.57	—	3.57
1975	**2.59**	**—**	**3.45**	**2.90**	**2.09**	**3.24**	**7.48**	**4.56**	**1.66**	**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	2.08	—	3.97	3.62	2.64	3.70	6.97	5.03	1.82	4.46	4.46	—	4.46
1978	—	—	4.29	3.79	2.97	3.84	7.60	5.21	1.76	4.71	4.71	—	4.71
1979	—	—	5.73	5.30	3.98	4.47	10.21	6.99	2.58	6.21	6.21	—	6.21
1980	**—**	**—**	**9.02**	**7.41**	**6.51**	**6.06**	**14.36**	**9.69**	**3.68**	**8.99**	**8.99**	**—**	**8.99**
1981	—	—	10.84	9.05	7.80	6.41	18.00	10.75	4.57	10.03	10.03	—	10.03
1982	—	—	10.92	8.73	7.51	7.24	17.25	10.08	4.33	9.44	9.44	—	9.44
1983	—	—	10.44	9.24	6.93	7.72	16.98	9.49	4.35	9.27	9.27	—	9.27
1984	—	—	10.27	8.92	6.69	7.53	17.63	9.05	4.76	8.88	8.88	—	8.88
1985	**—**	**—**	**9.99**	**9.16**	**6.10**	**[R] 10.81**	**17.61**	**9.35**	**4.08**	**9.06**	**9.06**	**—**	**9.06**
1986	—	—	8.41	7.24	4.50	[R] 11.81	15.59	7.38	2.22	7.14	7.14	—	7.14
1987	—	—	7.55	7.62	4.41	[R] 11.69	[R] 13.58	7.72	2.83	7.42	7.42	—	7.42
1988	—	—	7.41	7.55	4.13	[R] 11.43	[R] 14.62	8.15	2.03	7.55	7.55	—	7.55
1989	—	—	8.28	8.20	4.79	[R] 10.73	14.48	8.69	2.48	8.12	8.12	—	8.12
1990	**—**	**—**	**9.32**	**9.10**	**5.92**	**[R] 11.34**	**14.60**	**9.74**	**2.52**	**9.10**	**9.10**	**—**	**9.10**
1991	—	—	8.71	9.11	5.07	[R] 12.66	[R] 16.80	9.64	1.90	8.98	8.98	—	8.98
1992	—	—	8.54	8.65	5.20	[R] 10.56	[R] 18.32	9.63	2.16	9.00	9.00	—	9.00
1993	—	—	8.24	8.59	4.43	[R] 10.62	[R] 18.96	9.33	1.96	8.75	8.75	—	8.75
1994	—	—	7.96	8.67	4.16	[R] 8.57	[R] 19.11	9.41	2.02	8.94	8.94	—	8.94
1995	**—**	**—**	**8.36**	**8.46**	**4.12**	**8.66**	**19.40**	**9.95**	**2.54**	**9.35**	**9.35**	**—**	**9.35**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**1.0**	**11.2**	**9.4**	**(s)**	**3.5**	**172.1**	**2.7**	**199.9**	**199.9**	**—**	**199.9**
1971	(s)	—	1.0	13.0	10.6	(s)	3.7	186.2	3.5	218.0	218.0	—	218.0
1972	(s)	—	1.0	14.4	10.1	(s)	4.2	191.7	7.2	228.5	228.5	—	228.5
1973	(s)	—	1.0	17.4	12.3	(s)	3.9	208.7	7.5	250.9	250.9	—	250.9
1974	(s)	—	1.3	25.2	18.8	(s)	5.1	280.4	14.5	345.4	345.4	—	345.4
1975	**(s)**	**—**	**1.2**	**25.8**	**22.7**	**(s)**	**4.9**	**300.2**	**9.8**	**364.6**	**364.6**	**—**	**364.6**
1976	(s)	—	1.1	32.8	24.3	0.1	5.1	325.9	9.0	398.3	398.3	—	398.3
1977	(s)	—	1.3	40.5	33.5	0.1	5.6	353.2	6.2	440.3	440.3	—	440.3
1978	—	—	1.4	43.6	38.2	0.1	6.5	371.5	3.4	464.8	464.8	—	464.8
1979	—	—	2.1	56.3	48.4	0.1	9.2	452.2	12.2	580.6	580.6	—	580.6
1980	**—**	**—**	**3.7**	**68.8**	**66.7**	**0.2**	**11.5**	**592.4**	**4.8**	**748.1**	**748.1**	**—**	**748.1**
1981	—	—	2.6	79.1	65.7	0.1	13.8	647.8	18.2	827.3	827.3	—	827.3
1982	—	—	2.0	93.3	65.1	0.3	12.1	618.9	17.4	809.1	809.1	—	809.1
1983	—	—	2.4	108.3	56.7	0.4	12.4	595.7	0.5	776.4	776.4	—	776.4
1984	—	—	2.3	152.5	55.3	0.6	13.8	574.1	0.5	799.0	799.0	—	799.0
1985	**—**	**—**	**2.1**	**173.3**	**54.4**	**0.6**	**12.8**	**604.7**	**0.5**	**848.5**	**848.5**	**—**	**848.5**
1986	—	—	2.4	154.4	39.6	[R] 1.0	11.1	511.8	1.0	721.3	721.3	—	721.3
1987	—	—	2.0	180.4	43.7	[R] 0.7	[R] 10.9	561.1	0.9	[R] 799.6	[R] 799.6	—	[R] 799.6
1988	—	—	2.5	205.3	47.7	1.2	11.3	648.7	5.4	[R] 922.1	[R] 922.1	—	[R] 922.1
1989	—	—	2.9	183.8	59.5	[R] 1.2	11.5	635.8	3.1	[R] 897.8	[R] 897.8	—	[R] 897.8
1990	**—**	**—**	**2.9**	**240.6**	**82.9**	**0.7**	**11.9**	**708.7**	**2.4**	**[R] 1,050.2**	**[R] 1,050.2**	**—**	**[R] 1,050.2**
1991	—	—	1.9	157.3	66.7	[R] 0.8	12.3	707.0	1.4	947.2	947.2	—	947.2
1992	—	—	1.8	157.4	54.8	0.6	[R] 13.7	706.6	2.1	[R] 937.0	[R] 937.0	—	[R] 937.0
1993	—	—	1.5	175.5	36.6	0.5	14.4	697.3	3.5	[R] 929.4	[R] 929.4	—	[R] 929.4
1994	—	—	1.4	212.9	23.3	0.7	15.2	709.0	3.0	965.4	965.4	—	965.4
1995	**—**	**—**	**1.5**	**183.7**	**19.6**	**0.3**	**15.1**	**741.9**	**3.3**	**965.4**	**965.4**	**—**	**965.4**

[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.

(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 130. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Maine

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**—**	**—**	**0.34**	**0.41**	**—**	**0.35**	**—**	**—**	**0.35**
1971	—	—	0.39	0.48	—	0.39	—	—	0.39
1972	—	—	0.38	0.46	—	0.38	0.24	—	0.38
1973	—	—	0.39	1.13	—	0.41	0.27	—	0.33
1974	—	—	1.62	2.07	—	1.63	0.30	—	0.82
1975	**—**	**—**	**1.78**	**2.48**	**—**	**1.79**	**0.32**	**—**	**0.71**
1976	—	—	1.76	2.55	—	1.77	0.20	—	0.44
1977	—	—	2.05	2.79	—	2.06	0.30	—	0.53
1978	—	—	2.06	2.96	—	2.08	0.32	—	0.60
1979	—	—	2.86	4.59	—	2.88	0.36	—	0.93
1980	**—**	**—**	**4.38**	**6.33**	**—**	**4.41**	**0.58**	**—**	**1.82**
1981	—	—	5.31	7.96	—	5.34	0.67	—	2.03
1982	—	—	4.83	7.54	—	4.87	0.58	—	1.81
1983	—	—	4.65	6.44	—	4.68	0.62	—	1.68
1984	—	—	4.96	6.33	—	4.97	0.63	—	1.89
1985	**—**	**—**	**4.21**	**5.89**	**—**	**4.23**	**0.62**	**—**	**1.60**
1986	—	—	2.39	3.49	—	2.40	0.58	—	1.11
1987	—	—	2.93	4.19	—	2.94	0.60	—	1.50
1988	—	—	2.35	4.43	—	2.37	0.64	—	1.27
1989	—	—	2.78	4.14	—	2.79	0.54	—	1.21
1990	**—**	**—**	**2.78**	**5.40**	**—**	**2.79**	**0.46**	**—**	**1.17**
1991	—	—	2.07	4.59	—	2.09	0.43	—	0.73
1992	—	—	2.27	4.37	—	2.29	0.39	—	0.76
1993	—	—	2.13	3.95	—	2.15	0.37	—	0.60
1994	—	—	2.12	3.80	—	2.14	0.39	—	0.57
1995	**—**	**—**	**2.60**	**3.78**	**—**	**2.62**	**2.14**	**1.50**	**2.53**
	Expenditures in Million Nominal Dollars								
1970	**—**	**—**	**10.3**	**0.2**	**—**	**10.6**	**—**	**—**	**10.6**
1971	—	—	12.0	0.6	—	12.6	—	—	12.6
1972	—	—	12.9	0.7	—	13.6	0.1	—	13.7
1973	—	—	11.9	0.9	—	12.9	9.7	—	22.6
1974	—	—	40.6	1.1	—	41.7	11.8	—	53.5
1975	**—**	**—**	**31.4**	**0.6**	**—**	**32.0**	**16.1**	**—**	**48.1**
1976	—	—	20.5	0.6	—	21.1	13.1	—	34.2
1977	—	—	16.8	0.4	—	17.3	16.4	—	33.6
1978	—	—	22.6	0.5	—	23.1	19.0	—	42.1
1979	—	—	40.1	1.0	—	41.1	17.4	—	58.5
1980	**—**	**—**	**99.7**	**2.2**	**—**	**101.9**	**27.9**	**—**	**129.8**
1981	—	—	124.4	1.8	—	126.2	38.5	—	164.7
1982	—	—	95.3	2.5	—	97.8	29.2	—	127.0
1983	—	—	101.1	2.3	—	103.4	38.8	—	142.2
1984	—	—	110.8	1.6	—	112.4	35.0	—	147.4
1985	**—**	**—**	**90.9**	**1.0**	**—**	**91.9**	**35.7**	**—**	**127.6**
1986	—	—	65.5	0.7	—	66.1	38.9	—	105.0
1987	—	—	79.6	0.8	—	80.4	25.9	—	106.3
1988	—	—	71.7	1.3	—	73.0	34.2	—	107.3
1989	—	—	87.8	1.1	—	88.9	40.0	—	128.9
1990	**—**	**—**	**61.8**	**0.6**	**—**	**62.4**	**24.1**	**—**	**86.5**
1991	—	—	29.8	0.6	—	30.3	29.0	—	59.3
1992	—	—	31.6	0.6	—	32.2	22.2	—	54.4
1993	—	—	18.4	0.4	—	18.8	22.9	—	41.7
1994	—	—	17.0	0.4	—	17.4	27.6	—	45.0
1995	**—**	**—**	**23.8**	**0.6**	**—**	**24.5**	**4.5**	**(s)**	**29.0**

[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 131. Energy Price and Expenditure Estimates by Source, 1970-1995, Maryland

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	**0.58**	**0.34**	**0.45**	**1.07**	**1.20**	**0.73**	**1.87**	**2.85**	**0.43**	**[R] 1.51**	**1.62**	**—**	**—**	**1.17**	**0.40**	**5.76**	**1.79**
1971	0.71	0.51	0.59	1.12	1.22	0.76	1.85	2.88	0.62	[R] 1.75	1.64	—	—	1.28	0.56	6.27	[R] 1.95
1972	0.77	0.49	0.61	1.18	1.23	0.81	1.79	3.01	0.62	[R] 1.78	1.64	—	—	1.34	0.59	6.62	2.08
1973	0.84	0.48	0.67	1.20	1.48	0.94	2.49	3.14	0.72	[R] 1.81	[R] 1.76	—	—	1.42	0.66	7.07	[R] 2.20
1974	1.59	1.15	1.36	1.37	2.45	1.59	2.76	4.52	1.85	[R] 2.57	[R] 2.91	—	—	[R] 2.34	1.58	10.07	[R] 3.41
1975	**2.14**	**1.28**	**1.69**	**1.94**	**2.61**	**2.04**	**3.71**	**4.86**	**1.87**	**[R] 3.09**	**[R] 3.31**	**0.23**	**—**	**[R] 2.63**	**1.36**	**11.19**	**[R] 4.04**
1976	2.11	1.14	1.60	2.18	2.80	2.17	3.94	5.02	1.81	[R] 3.37	[R] 3.45	0.22	—	[R] 2.63	1.17	11.20	[R] 4.17
1977	2.13	1.19	1.56	2.75	3.21	2.56	3.93	5.30	2.14	[R] 3.41	[R] 3.77	0.31	—	[R] 2.86	1.19	12.00	[R] 4.72
1978	2.34	1.32	1.69	3.01	3.40	2.83	4.69	5.33	2.01	[R] 3.72	[R] 3.82	0.36	—	2.95	1.29	13.46	[R] 5.05
1979	2.32	1.41	1.76	2.88	4.85	3.95	4.07	7.02	3.02	[R] 4.89	[R] 5.21	0.42	—	[R] 3.65	1.57	13.58	[R] 5.70
1980	**2.38**	**1.50**	**1.77**	**3.81**	**6.87**	**6.46**	**6.81**	**9.93**	**4.04**	**[R] 7.55**	**[R] 7.70**	**0.44**	**—**	**[R] 4.93**	**1.66**	**15.47**	**[R] 7.72**
1981	2.56	1.76	2.00	4.42	8.24	7.61	7.18	11.09	4.80	[R] 8.69	[R] 9.04	0.46	—	[R] 5.66	1.79	17.31	[R] 8.86
1982	2.73	1.87	2.09	5.52	7.89	7.18	7.04	10.38	4.45	[R] 7.99	[R] 8.55	0.47	—	[R] 5.61	1.78	18.97	[R] 9.16
1983	2.15	1.71	1.81	6.64	7.74	6.44	7.79	9.36	4.49	[R] 7.17	[R] 7.95	0.53	—	[R] 5.36	1.65	18.71	[R] 9.02
1984	2.02	1.75	1.81	6.59	7.96	6.16	7.01	9.00	4.78	[R] 7.28	[R] 7.84	0.58	1.28	[R] 5.23	1.68	17.67	[R] 8.69
1985	**1.88**	**1.71**	**1.75**	**6.29**	**7.78**	**5.80**	**[R] 11.52**	**9.50**	**4.06**	**[R] 7.67**	**[R] 8.21**	**0.59**	**0.79**	**[R] 5.41**	**1.65**	**18.60**	**[R] 9.15**
1986	1.76	1.64	1.67	5.99	6.07	4.01	[R] 11.24	7.55	2.30	[R] 6.43	[R] 6.48	0.56	0.32	[R] 4.35	1.32	18.66	[R] 8.26
1987	1.59	1.56	1.56	5.31	6.32	4.01	[R] 11.05	7.80	3.03	[R] 5.98	[R] 6.62	0.49	0.95	[R] 4.42	1.43	17.61	[R] 8.02
1988	1.61	1.56	1.57	4.92	6.29	3.75	[R] 9.93	8.18	2.27	[R] 5.90	[R] 6.61	0.49	0.87	[R] 4.30	1.35	17.12	[R] 8.03
1989	1.67	1.59	1.60	5.12	6.72	4.38	[R] 14.06	8.84	2.68	[R] 6.13	[R] 6.96	0.52	1.27	[R] 4.98	1.83	17.53	[R] 8.60
1990	**1.71**	**1.61**	**1.62**	**5.07**	**8.02**	**5.47**	**[R] 11.81**	**9.88**	**3.03**	**[R] 5.84**	**[R] 8.04**	**0.61**	**[d] 2.39**	**[d R] 5.46**	**1.88**	**18.47**	**[d R] 9.37**
1991	1.75	1.61	1.62	4.69	7.58	4.78	[R] 12.74	9.56	2.16	[R] 5.56	[R] 7.76	0.50	[R] 2.43	[R] 4.89	1.46	19.97	[R] 9.64
1992	—	1.58	1.58	4.97	7.31	4.49	[R] 11.56	9.74	2.16	[R] 5.45	[R] 7.91	0.45	[R] 2.43	[R] 5.00	1.35	[R] 19.94	[R] 9.88
1993	1.73	1.58	1.58	5.44	7.22	4.16	[R] 11.71	9.39	2.21	[R] 5.50	[R] 7.53	0.53	[R] 2.47	[R] 4.88	1.38	[R] 20.39	[R] 10.00
1994	—	1.53	1.53	5.35	6.96	3.85	[R] 11.61	9.52	2.36	[R] 5.51	[R] 7.62	0.52	2.42	[R] 4.93	1.40	20.59	[R] 10.11
1995	**—**	**1.50**	**1.50**	**4.81**	**6.82**	**3.89**	**12.57**	**9.83**	**2.65**	**5.86**	**8.19**	**0.48**	**2.28**	**4.85**	**1.26**	**20.69**	**10.12**
	Expenditures in Million Nominal Dollars																
1970	**79.6**	**60.0**	**139.6**	**168.5**	**138.3**	**18.1**	**13.0**	**556.7**	**58.7**	**[R] 74.1**	**[R] 858.9**	**—**	**—**	**[R] 1,167.0**	**-91.0**	**442.4**	**[R] 1,518.4**
1971	85.2	77.7	163.0	181.0	141.6	17.4	13.4	589.4	115.8	[R] 78.1	[R] 955.7	—	—	[R] 1,299.7	-131.1	516.9	[R] 1,685.5
1972	73.1	64.5	137.5	208.5	151.5	17.3	15.3	655.3	142.7	[R] 73.7	[R] 1,055.9	—	—	[R] 1,401.9	-153.9	570.3	[R] 1,818.2
1973	114.1	58.4	172.5	210.0	196.5	19.1	23.4	706.1	187.9	[R] 77.1	[R] 1,210.1	—	—	[R] 1,592.6	-176.8	668.8	[R] 2,084.5
1974	162.6	132.6	295.2	237.0	317.3	28.6	24.3	1,005.1	451.2	[R] 109.8	[R] 1,936.3	—	—	[R] 2,468.5	-451.9	922.2	[R] 2,938.8
1975	**200.6**	**132.6**	**333.2**	**270.5**	**317.1**	**34.6**	**33.0**	**1,115.0**	**314.0**	**[R] 121.3**	**[R] 1,935.0**	**11.3**	**—**	**[R] 2,550.1**	**-352.5**	**1,042.3**	**[R] 3,239.8**
1976	243.0	148.8	391.8	319.9	327.7	37.8	40.1	1,202.2	312.6	[R] 147.5	[R] 2,067.9	15.4	—	[R] 2,795.0	-359.5	1,143.8	[R] 3,579.3
1977	157.2	138.0	295.2	365.5	405.6	48.5	40.5	1,307.1	352.6	[R] 145.2	[R] 2,299.5	35.9	—	[R] 2,996.2	-396.5	1,288.5	[R] 3,888.2
1978	175.8	178.2	354.0	412.0	420.6	52.0	43.9	1,339.8	344.3	[R] 170.3	[R] 2,370.9	39.1	—	[R] 3,176.0	-450.5	1,490.3	[R] 4,215.8
1979	211.6	211.1	422.8	503.7	670.0	71.2	30.7	1,641.3	455.5	[R] 227.9	[R] 3,096.6	44.2	—	[R] 4,067.3	-531.5	1,550.4	[R] 5,086.1
1980	**168.9**	**247.9**	**416.8**	**607.5**	**872.6**	**126.3**	**51.5**	**2,296.3**	**415.8**	**[R] 289.9**	**[R] 4,052.5**	**52.5**	**—**	**[R] 5,129.2**	**-544.9**	**1,825.5**	**[R] 6,409.8**
1981	158.3	258.8	417.1	765.7	889.3	149.6	52.0	2,587.2	382.6	[R] 329.9	[R] 4,390.7	58.4	—	[R] 5,631.8	-549.0	2,086.0	[R] 7,168.9
1982	152.1	301.8	453.9	864.2	746.0	142.5	51.4	2,408.7	326.9	[R] 291.8	[R] 3,967.2	54.3	—	[R] 5,339.6	-534.5	2,247.3	[R] 7,052.4
1983	117.4	304.2	421.6	973.1	832.5	135.9	57.7	2,176.6	308.6	[R] 320.1	[R] 3,831.5	67.3	—	[R] 5,293.5	-540.2	2,342.0	[R] 7,095.2
1984	115.1	372.6	487.7	1,059.9	864.6	124.9	60.7	2,148.4	345.1	[R] 361.4	[R] 3,905.1	72.8	0.6	[R] 5,526.0	-593.0	2,313.8	[R] 7,246.8
1985	**107.4**	**341.2**	**448.6**	**966.9**	**803.3**	**125.7**	**[R] 74.9**	**2,275.7**	**201.9**	**[R] 380.0**	**[R] 3,861.5**	**62.9**	**0.1**	**[R] 5,340.0**	**-536.2**	**2,496.0**	**[R] 7,299.8**
1986	91.5	366.7	458.3	933.1	614.2	86.7	[R] 58.5	1,860.2	105.5	[R] 360.8	[R] 3,085.9	77.3	0.1	[R] 4,554.7	-495.4	2,671.2	[R] 6,730.5
1987	82.3	368.9	451.2	913.8	665.8	84.0	[R] 70.4	1,970.1	173.2	[R] 335.6	[R] 3,299.0	53.2	0.5	[R] 4,717.7	-517.2	2,698.1	[R] 6,898.6
1988	82.8	390.6	473.4	864.2	679.4	93.7	[R] 61.4	2,114.9	148.8	[R] 318.1	[R] 3,416.3	62.1	0.5	[R] 4,816.5	-544.1	2,779.1	[R] 7,051.5
1989	77.4	395.6	473.0	990.5	806.0	107.2	[R] 110.6	2,278.9	254.9	[R] 316.8	[R] 3,874.3	15.1	0.2	[R] 5,353.1	-646.8	2,946.0	[R] 7,652.3
1990	**57.6**	**406.3**	**463.9**	**884.5**	**794.7**	**110.9**	**[R] 84.1**	**2,446.9**	**188.4**	**[R] 306.9**	**[R] 3,932.0**	**8.2**	**[d R] 21.1**	**[d R] 5,309.7**	**-568.0**	**[R] 3,121.4**	**[d R] 7,863.0**
1991	46.6	398.3	444.8	822.0	764.1	87.8	[R] 92.9	2,433.3	127.0	[R] 236.3	[R] 3,741.5	48.2	[R] 22.3	[R] 5,079.0	-558.0	[R] 3,482.3	[R] 8,003.3
1992	—	390.0	390.0	913.4	781.5	76.8	[R] 110.4	2,509.4	106.3	[R] 225.9	[R] 3,810.2	51.8	[R] 23.0	[R] 5,188.4	-524.0	[R] 3,468.5	[R] 8,132.9
1993	(s)	412.6	412.6	995.8	829.5	69.9	[R] 104.7	2,445.5	134.8	[R] 279.2	[R] 3,863.6	69.6	[R] 24.2	[R] 5,365.8	-594.9	[R] 3,748.3	[R] 8,519.3
1994	—	412.6	412.6	999.4	789.1	70.3	[R] 119.7	2,535.8	134.3	[R] 267.9	[R] 3,917.1	62.7	[R] 24.1	[R] 5,416.0	-603.6	[R] 3,847.0	[R] 8,659.4
1995	**—**	**433.7**	**433.7**	**943.5**	**762.4**	**75.6**	**122.4**	**2,657.3**	**65.3**	**278.9**	**3,961.8**	**66.3**	**28.0**	**5,433.3**	**-553.6**	**3,963.9**	**8,843.7**

[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] 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.
(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 132. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Maryland

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.05**	**1.42**	**1.42**	**1.50**	**2.57**	**1.50**	**—**	**1.46**	**7.02**	**2.34**
1971	1.25	1.48	1.44	1.83	2.64	1.60	—	1.53	7.71	2.55
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	3.08
1974	2.27	1.67	2.58	2.94	3.43	2.68	—	2.12	11.51	3.99
1975	**1.75**	**2.30**	**2.71**	**3.37**	**4.61**	**2.92**	**—**	**2.58**	**12.65**	**4.62**
1976	1.75	2.54	2.90	3.28	4.83	3.11	—	2.79	12.81	4.85
1977	2.67	3.13	3.32	3.85	4.53	3.45	—	3.28	13.35	5.57
1978	2.85	3.30	3.55	4.09	5.45	3.73	—	3.49	14.97	6.11
1979	2.91	3.61	5.05	5.53	6.80	5.12	—	4.28	15.29	6.71
1980	**3.18**	**4.38**	**7.06**	**8.55**	**9.81**	**7.31**	**—**	**5.71**	**17.32**	**8.54**
1981	3.76	5.00	8.75	10.80	8.68	8.90	—	6.52	19.34	9.88
1982	3.82	6.02	8.44	10.56	8.65	8.64	—	7.00	21.31	10.93
1983	3.37	7.27	8.35	9.38	9.39	8.51	—	7.71	21.20	11.72
1984	3.57	7.25	8.59	9.22	8.16	8.58	—	7.70	20.32	11.34
1985	**3.28**	**7.01**	**8.24**	**8.84**	**11.42**	**8.62**	**—**	**7.54**	**21.32**	**11.76**
1986	3.22	6.64	6.92	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	9.17	6.85	—	6.11	19.68	10.69
1989	3.25	6.11	7.10	7.62	17.98	8.31	—	6.83	20.10	11.58
1990	**3.36**	**6.28**	**8.47**	**9.09**	**12.58**	**9.04**	**[d] 3.53**	**[d] 6.99**	**21.17**	**[d] 12.01**
1991	3.09	6.01	8.21	8.80	13.46	8.99	3.53	6.77	[R] 23.14	12.73
1992	3.10	6.26	7.56	8.11	13.03	8.42	3.53	6.77	[R] 23.37	12.44
1993	3.23	6.89	7.43	7.97	13.18	8.23	3.53	7.17	[R] 24.07	13.01
1994	3.23	6.75	7.19	7.72	[R] 14.04	[R] 8.20	3.53	[R] 7.05	24.58	[R] 13.21
1995	**3.11**	**6.46**	**7.09**	**7.60**	**14.68**	**8.36**	**3.53**	**6.83**	**24.71**	**13.10**
	Expenditures in Million Nominal Dollars									
1970	**0.9**	**106.1**	**67.9**	**18.4**	**9.8**	**96.1**	**—**	**203.1**	**184.2**	**387.3**
1971	0.9	111.2	67.1	25.2	10.2	102.5	—	214.5	213.3	427.8
1972	0.7	123.3	70.4	15.7	11.0	97.1	—	221.2	236.3	457.5
1973	0.7	122.4	84.9	10.6	18.7	114.3	—	237.4	281.3	518.6
1974	1.2	119.0	122.5	16.8	15.1	154.4	—	274.6	369.6	644.2
1975	**0.6**	**161.4**	**133.3**	**19.3**	**21.3**	**173.9**	**—**	**335.9**	**416.8**	**752.6**
1976	0.5	189.0	139.0	17.6	24.3	180.9	—	370.4	442.1	812.5
1977	1.2	207.3	166.2	13.5	22.0	201.7	—	410.2	492.3	902.5
1978	1.0	238.2	174.3	11.7	24.7	210.7	—	449.8	570.4	1,020.3
1979	4.9	261.7	274.8	33.9	4.8	313.6	—	580.3	584.4	1,164.7
1980	**1.2**	**304.1**	**361.7**	**40.2**	**26.7**	**428.6**	**—**	**733.9**	**716.3**	**1,450.2**
1981	1.7	356.7	346.1	37.6	28.9	412.6	—	771.0	812.1	1,583.1
1982	3.6	413.7	303.3	39.7	24.8	367.8	—	785.1	906.9	1,692.0
1983	3.0	480.3	294.9	29.2	32.0	356.1	—	839.5	975.7	1,815.2
1984	2.6	543.1	311.3	19.0	30.6	360.8	—	906.5	968.9	1,875.4
1985	**3.6**	**496.1**	**241.0**	**55.8**	**40.6**	**337.4**	**—**	**837.0**	**1,041.6**	**1,878.7**
1986	3.6	494.8	194.2	34.9	31.0	260.1	—	758.5	1,141.2	1,899.7
1987	4.9	450.2	210.8	45.3	39.1	295.2	—	750.3	1,186.1	1,936.3
1988	3.5	442.0	227.2	52.7	30.1	310.0	—	755.4	1,241.0	1,996.5
1989	1.6	473.4	212.6	35.1	72.9	320.6	—	795.6	1,308.0	2,103.6
1990	**1.5**	**428.5**	**211.4**	**19.8**	**49.6**	**280.9**	**[d] 14.3**	**[d] 725.1**	**[R] 1,379.8**	**[d R] 2,104.9**
1991	1.2	426.5	199.9	19.8	59.1	278.7	15.1	721.5	[R] 1,602.6	[R] 2,324.1
1992	0.4	483.0	196.4	14.6	64.5	275.4	15.9	774.7	[R] 1,575.5	[R] 2,350.2
1993	0.5	544.2	226.3	23.0	66.7	316.0	17.1	877.8	[R] 1,769.8	[R] 2,647.6
1994	1.1	533.0	208.8	17.2	[R] 73.0	[R] 299.0	16.8	[R] 849.9	[R] 1,817.4	[R] 2,667.3
1995	**8.3**	**506.8**	**196.7**	**23.0**	**87.6**	**307.4**	**18.6**	**841.0**	**1,874.7**	**2,715.7**

[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 133. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Maryland

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.07**	**1.09**	**1.12**	**0.88**	**1.03**	**2.85**	**0.43**	**0.93**	**0.98**	**6.86**	**2.60**
1971	0.40	1.12	1.14	0.90	0.96	2.88	0.63	0.93	1.01	7.43	2.69
1972	0.19	1.20	1.14	0.89	1.04	3.01	0.60	0.93	1.04	7.76	2.84
1973	0.19	1.23	1.32	1.02	1.01	3.14	0.72	1.08	1.14	8.21	3.14
1974	0.78	1.40	2.23	2.34	2.09	4.52	1.82	2.12	1.76	11.64	4.65
1975	**1.06**	**1.96**	**2.39**	**2.53**	**2.75**	**4.86**	**1.83**	**2.31**	**2.13**	**12.49**	**5.77**
1976	0.95	2.13	2.57	2.72	3.07	5.02	1.75	2.40	2.26	13.35	6.10
1977	0.97	2.68	2.98	3.02	3.41	5.30	2.13	2.81	2.72	14.93	6.92
1978	1.07	2.88	3.14	3.23	3.98	5.33	1.99	2.95	2.90	16.19	7.64
1979	1.08	3.04	4.52	4.21	3.78	7.02	3.05	4.22	3.48	16.67	7.76
1980	**1.19**	**3.88**	**6.39**	**6.24**	**5.13**	**9.93**	**4.16**	**5.81**	**4.74**	**18.41**	**9.78**
1981	1.39	4.42	8.08	7.54	5.91	11.09	5.01	7.81	5.28	20.77	11.81
1982	1.37	5.46	7.69	7.46	6.00	10.38	4.52	7.15	5.85	22.23	12.55
1983	1.33	6.57	6.92	7.14	6.43	9.36	4.52	6.61	6.44	21.87	12.43
1984	1.31	6.49	6.81	7.29	6.13	9.00	4.95	6.48	6.36	20.96	12.07
1985	**1.33**	**6.17**	**6.37**	**6.89**	**[R] 11.63**	**9.50**	**4.41**	**[R] 6.59**	**[R] 6.10**	**22.00**	**[R] 13.10**
1986	1.33	5.54	4.25	4.41	[R] 11.24	7.55	2.56	[R] 4.08	4.79	21.81	[R] 12.46
1987	1.30	4.94	4.29	4.69	[R] 10.81	7.80	3.14	[R] 4.05	4.34	19.92	10.71
1988	1.33	4.93	3.94	4.28	[R] 10.77	8.18	2.39	[R] 3.99	[R] 4.43	19.27	[R] 11.29
1989	1.28	5.27	4.79	5.44	[R] 9.89	8.84	2.82	[R] 4.44	[R] 4.84	19.63	11.02
1990	**1.21**	**5.21**	**5.89**	**6.54**	**[R] 10.85**	**9.88**	**3.13**	**[R] 5.82**	**5.39**	**[R] 19.92**	**12.15**
1991	1.34	4.92	5.37	6.01	[R] 11.64	9.56	2.36	[R] 5.69	[R] 5.10	[R] 20.86	11.54
1992	1.32	5.10	4.94	5.68	[R] 9.97	9.74	2.26	[R] 4.89	[R] 5.03	21.06	11.11
1993	1.27	5.57	4.75	5.30	[R] 9.79	9.39	2.37	[R] 4.89	[R] 5.36	[R] 21.21	11.58
1994	1.27	5.30	4.40	[R] 5.16	[R] 10.98	9.52	2.41	[R] 4.63	5.05	[R] 21.28	[R] 11.76
1995	**1.25**	**4.94**	**4.39**	**5.05**	**10.72**	**9.83**	**2.74**	**4.74**	**4.64**	**20.41**	**12.92**
	Expenditures in Million Nominal Dollars										
1970	**0.1**	**28.8**	**20.9**	**0.3**	**0.7**	**1.5**	**4.1**	**27.5**	**56.4**	**148.5**	**204.9**
1971	0.4	32.4	20.6	0.4	0.7	1.6	10.0	33.2	66.0	172.3	238.3
1972	0.1	37.1	21.5	0.3	0.8	1.7	9.5	33.7	70.9	192.2	263.1
1973	0.1	37.3	25.8	0.2	0.8	1.8	11.7	40.4	77.9	222.7	300.5
1974	0.6	42.5	41.3	0.4	1.6	2.8	21.6	67.7	110.8	304.2	415.0
1975	**0.5**	**50.1**	**45.8**	**0.5**	**2.2**	**3.1**	**13.4**	**65.0**	**115.5**	**365.3**	**480.9**
1976	0.3	60.7	48.0	0.5	2.7	3.3	15.4	69.8	130.9	410.4	541.3
1977	0.6	75.0	58.2	0.3	2.9	3.1	17.0	81.5	157.1	450.6	607.7
1978	0.5	81.2	60.1	0.3	3.2	3.5	12.5	79.6	161.3	499.7	660.9
1979	3.3	99.9	95.6	0.8	0.5	4.6	21.0	122.5	225.7	520.8	746.5
1980	**0.6**	**113.1**	**106.6**	**0.7**	**2.5**	**6.3**	**30.3**	**146.4**	**260.1**	**589.7**	**849.7**
1981	0.7	143.7	73.8	0.7	3.5	8.0	6.5	92.4	236.8	678.9	915.7
1982	2.1	171.4	79.2	3.7	3.0	7.5	12.9	106.3	279.9	735.6	1,015.5
1983	2.1	206.4	112.4	1.7	3.9	8.1	15.9	141.9	350.4	755.1	1,105.5
1984	1.6	168.5	113.5	0.8	4.1	7.1	23.8	149.3	319.4	676.7	996.2
1985	**2.5**	**153.9**	**72.0**	**3.5**	**[R] 7.3**	**8.5**	**7.0**	**[R] 98.3**	**[R] 254.7**	**722.8**	**[R] 977.5**
1986	2.7	136.6	38.2	1.2	[R] 5.5	6.9	14.0	[R] 65.8	[R] 205.0	764.0	[R] 969.0
1987	3.7	130.3	48.4	0.6	[R] 6.6	7.4	36.1	[R] 99.1	[R] 233.1	739.2	[R] 972.2
1988	2.6	131.7	42.7	1.5	[R] 6.2	7.3	10.8	[R] 68.6	[R] 202.9	759.3	[R] 962.1
1989	1.1	146.2	55.9	2.7	[R] 7.1	9.2	22.9	[R] 97.8	[R] 245.1	713.9	[R] 959.0
1990	**0.9**	**128.7**	**71.9**	**1.8**	**[R] 7.6**	**11.9**	**10.9**	**[R] 104.1**	**[R] 233.7**	**[R] 750.0**	**[R] 983.7**
1991	0.9	192.1	71.8	1.8	[R] 9.0	5.9	2.0	[R] 90.6	[R] 283.6	[R] 802.6	1,086.2
1992	0.3	222.5	74.0	1.4	[R] 8.7	5.3	6.8	[R] 96.2	[R] 319.0	[R] 817.1	[R] 1,136.1
1993	0.3	249.6	74.3	2.6	[R] 8.7	1.5	2.9	[R] 90.1	[R] 339.9	[R] 870.4	[R] 1,210.3
1994	0.7	241.0	78.5	[R] 6.2	[R] 10.1	1.6	3.3	[R] 99.6	[R] 341.3	[R] 1,012.3	[R] 1,353.6
1995	**5.9**	**237.2**	**76.7**	**6.0**	**11.3**	**1.6**	**2.1**	**97.7**	**340.8**	**1,654.7**	**1,995.5**

[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.

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 134. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Maryland

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.60**	**0.81**	**0.88**	**1.03**	**5.08**	**2.85**	**0.43**	**[R] 1.76**	**[R] 0.85**	**—**	**[R] 0.64**	**3.80**	**0.91**
1971	0.71	0.40	0.66	0.70	0.78	0.82	0.90	0.96	5.27	2.88	0.62	[R] 2.70	0.87	—	0.75	4.16	1.07
1972	0.77	0.19	0.67	0.73	0.82	0.82	0.89	1.04	5.58	3.01	0.62	[R] 2.79	[R] 0.90	—	0.78	4.41	[R] 1.14
1973	0.84	0.19	0.75	0.76	0.93	0.94	1.02	1.01	5.33	3.14	0.75	[R] 3.19	[R] 1.03	—	0.85	4.77	[R] 1.21
1974	1.59	0.78	1.48	1.16	1.58	2.15	2.34	2.09	7.22	4.52	1.99	[R] 3.46	[R] 2.12	—	[R] 1.65	7.44	[R] 2.26
1975	**2.14**	**1.06**	**2.05**	**1.35**	**1.89**	**2.34**	**2.53**	**2.75**	**7.48**	**4.86**	**2.08**	**[R] 3.85**	**[R] 2.46**	**—**	**[R] 2.07**	**8.42**	**[R] 2.82**
1976	2.11	0.95	2.07	1.60	1.98	2.51	2.72	3.07	7.05	5.02	1.99	[R] 4.72	[R] 2.60	—	[R] 2.18	7.91	[R] 2.90
1977	2.13	0.97	2.03	2.16	2.06	2.76	3.02	3.41	6.97	5.30	2.29	[R] 5.07	[R] 2.79	—	[R] 2.39	8.57	[R] 3.37
1978	2.34	1.07	2.12	2.55	2.24	2.94	3.23	3.98	7.60	5.33	2.18	[R] 5.83	[R] 3.02	—	[R] 2.56	10.07	[R] 3.78
1979	2.32	1.08	2.15	2.10	2.58	3.88	4.21	3.78	10.21	7.02	3.29	[R] 7.56	[R] 3.93	—	[R] 2.79	9.95	[R] 3.84
1980	**2.38**	**1.19**	**2.15**	**3.19**	**3.73**	**5.60**	**6.24**	**5.13**	**14.36**	**9.93**	**4.37**	**[R] 11.27**	**[R] 5.93**	**—**	**[R] 3.66**	**11.65**	**[R] 5.03**
1981	2.56	1.39	2.29	3.92	4.95	6.81	7.54	5.91	18.00	11.09	5.26	[R] 12.18	[R] 7.20	—	[R] 4.25	12.97	[R] 5.84
1982	2.73	1.37	2.43	4.95	4.14	6.77	7.46	6.00	17.25	10.38	4.73	[R] 12.85	[R] 6.70	—	[R] 4.49	14.13	[R] 6.32
1983	2.15	1.33	1.95	5.89	4.12	6.78	7.14	6.43	16.98	9.36	4.57	[R] 12.21	[R] 6.11	—	[R] 4.51	13.70	[R] 6.22
1984	2.02	1.31	1.82	5.85	4.47	6.59	7.29	6.13	17.63	9.00	4.95	[R] 11.94	[R] 6.22	—	[R] 4.60	13.10	[R] 6.15
1985	**1.88**	**1.33**	**1.75**	**5.51**	**4.95**	**6.23**	**6.89**	**[R] 11.63**	**17.61**	**9.50**	**4.41**	**[R] 11.90**	**[R] 6.82**	**—**	**[R] 4.52**	**13.92**	**[R] 6.49**
1986	1.76	1.33	1.65	5.43	4.18	3.99	4.41	[R] 11.24	15.59	7.55	2.56	[R] 9.58	[R] 5.54	—	[R] 4.11	14.12	[R] 6.28
1987	1.59	1.30	1.50	4.97	3.22	4.24	4.69	[R] 10.81	[R] 13.58	7.80	3.14	[R] 9.83	[R] 5.38	—	[R] 3.80	13.43	[R] 5.92
1988	1.61	1.33	1.54	4.17	3.16	3.87	4.28	[R] 10.77	[R] 14.62	8.18	2.39	[R] 8.84	[R] 5.06	—	[R] 3.55	12.97	[R] 5.72
1989	1.67	1.28	1.57	4.67	2.90	4.92	5.44	[R] 9.89	14.48	8.84	2.82	[R] 10.79	[R] 5.50	—	[R] 3.96	13.83	[R] 6.43
1990	**1.71**	**1.21**	**1.50**	**4.45**	**2.97**	**5.91**	**6.54**	**[R] 10.85**	**14.60**	**9.88**	**3.13**	**[R] 9.81**	**[R] 5.43**	**[d] [R] 1.42**	**[d] [R] 3.86**	**14.94**	**[d] [R] 6.66**
1991	1.75	1.34	1.55	3.42	2.89	5.44	6.01	[R] 11.64	[R] 16.80	9.56	2.36	[R] 6.62	[R] 5.07	[R] 1.48	[R] 3.32	16.11	[R] 7.04
1992	—	1.32	1.32	3.47	2.20	5.13	5.68	[R] 9.97	[R] 18.32	9.74	2.26	[R] 6.91	[R] 4.89	[R] 1.44	[R] 3.72	[R] 15.84	[R] 7.84
1993	1.73	1.27	1.27	3.49	3.11	4.79	5.30	[R] 9.79	[R] 18.96	9.39	2.37	[R] 6.35	[R] 4.80	[R] 1.43	[R] 3.75	15.96	[R] 7.76
1994	—	1.27	1.27	3.92	3.03	4.66	5.16	[R] 8.71	[R] 19.11	9.52	2.41	[R] 6.17	[R] 4.83	[R] 1.40	[R] 3.90	15.52	[R] 7.60
1995	**—**	**1.25**	**1.25**	**3.13**	**3.41**	**4.57**	**5.05**	**8.66**	**19.40**	**9.83**	**2.74**	**6.46**	**5.14**	**1.34**	**3.66**	**12.39**	**5.41**
	Expenditures in Million Nominal Dollars																
1970	**79.6**	**1.8**	**81.4**	**29.8**	**11.1**	**14.8**	**0.5**	**2.4**	**10.0**	**3.9**	**17.8**	**[R] 21.1**	**[R] 81.6**	**—**	**[R] 192.8**	**109.7**	**[R] 302.5**
1971	85.2	7.9	93.1	34.0	15.3	15.7	0.4	2.5	9.4	3.6	42.4	[R] 14.0	[R] 103.2	—	[R] 230.3	131.3	[R] 361.6
1972	73.1	3.4	76.4	45.5	16.9	17.6	0.5	3.4	10.7	3.0	39.1	[R] 15.2	[R] 106.4	—	[R] 228.2	141.7	[R] 370.0
1973	114.1	4.4	118.5	46.5	23.8	22.4	0.4	3.7	10.0	3.1	50.4	[R] 19.0	[R] 132.8	—	[R] 297.9	164.8	[R] 462.7
1974	162.6	13.3	175.9	67.3	39.8	43.2	1.9	7.2	13.0	4.3	93.3	[R] 20.5	[R] 223.1	—	[R] 466.4	248.4	[R] 714.8
1975	**200.6**	**8.8**	**209.4**	**58.6**	**40.8**	**44.4**	**2.1**	**9.1**	**20.7**	**7.5**	**62.8**	**[R] 20.3**	**[R] 207.7**	**—**	**[R] 475.7**	**260.2**	**[R] 735.9**
1976	243.0	4.8	247.7	69.9	44.5	46.5	0.7	12.3	21.7	3.4	70.9	[R] 44.4	[R] 244.5	—	[R] 562.0	291.3	[R] 853.3
1977	157.2	6.8	164.1	82.6	47.5	59.0	6.0	14.7	17.5	2.2	76.9	[R] 43.1	[R] 266.9	—	[R] 513.5	345.6	[R] 859.1
1978	175.8	16.7	192.4	91.7	57.8	58.2	6.6	14.6	20.5	1.9	56.0	[R] 54.1	[R] 269.8	—	[R] 553.9	420.0	[R] 973.9
1979	211.6	16.1	227.7	123.4	60.2	87.3	8.5	24.9	28.8	1.9	97.9	[R] 69.9	[R] 379.4	—	[R] 730.5	444.6	[R] 1,175.2
1980	**168.9**	**21.2**	**190.1**	**176.9**	**65.3**	**104.1**	**11.3**	**21.9**	**36.1**	**7.6**	**69.9**	**[R] 101.4**	**[R] 417.5**	**—**	**[R] 784.5**	**518.5**	**[R] 1,303.0**
1981	158.3	26.0	184.2	248.4	99.0	119.6	10.7	18.0	43.4	8.6	38.9	[R] 99.1	[R] 437.3	—	[R] 869.9	593.7	[R] 1,463.6
1982	152.1	21.3	173.4	275.1	85.7	88.5	2.2	22.4	37.9	6.0	33.2	[R] 90.0	[R] 366.0	—	[R] 814.5	603.5	[R] 1,418.0
1983	117.4	23.8	141.2	278.3	117.8	92.3	2.8	20.5	39.1	5.7	85.0	[R] 96.6	[R] 459.7	—	[R] 879.3	609.9	[R] 1,489.2
1984	115.1	28.7	143.8	343.7	148.7	92.0	1.0	24.2	43.2	12.9	125.4	[R] 112.8	[R] 560.3	—	[R] 1,047.8	665.9	[R] 1,713.6
1985	**107.4**	**23.5**	**131.0**	**311.7**	**148.6**	**92.4**	**1.7**	**[R] 24.5**	**40.2**	**14.9**	**28.3**	**[R] 96.3**	**[R] 446.9**	**—**	**[R] 889.6**	**727.4**	**[R] 1,617.0**
1986	91.5	23.9	115.4	295.4	144.7	48.5	1.4	[R] 20.5	34.8	12.7	15.3	[R] 113.3	[R] 391.3	—	[R] 802.1	761.8	[R] 1,563.9
1987	82.3	31.4	113.7	300.5	102.9	41.1	1.3	[R] 23.5	[R] 34.3	13.6	15.9	[R] 122.2	[R] 354.7	—	[R] 768.9	767.2	[R] 1,536.1
1988	82.8	22.8	105.5	276.0	91.3	38.7	3.5	[R] 22.9	35.6	15.2	15.9	[R] 103.2	[R] 326.4	—	[R] 708.0	772.0	[R] 1,480.0
1989	77.4	21.7	99.1	318.8	86.7	60.3	3.2	[R] 28.5	36.2	15.9	17.5	[R] 122.2	[R] 370.6	—	[R] 788.4	918.0	[R] 1,706.4
1990	**57.6**	**28.7**	**86.3**	**282.6**	**98.7**	**59.7**	**1.2**	**[R] 24.9**	**37.5**	**15.3**	**24.4**	**[R] 116.2**	**[R] 378.0**	**[d] [R] 6.8**	**[d] [R] 753.7**	**[R] 984.3**	**[d] [R] 1,738.0**
1991	46.6	35.2	81.8	165.5	71.0	49.3	1.0	[R] 23.0	38.6	14.3	11.5	[R] 71.9	[R] 280.7	7.3	[R] 535.2	[R] 1,069.1	[R] 1,604.4
1992	—	23.5	23.5	177.0	51.2	42.1	0.6	[R] 33.5	[R] 43.0	14.1	15.2	[R] 78.9	[R] 278.6	[R] 7.1	[R] 486.2	[R] 1,068.1	[R] 1,554.2
1993	(s)	23.5	23.6	175.3	96.7	49.9	0.8	[R] 25.2	[R] 45.3	14.3	18.5	[R] 72.7	[R] 323.4	[R] 7.1	[R] 529.4	[R] 1,100.1	[R] 1,629.6
1994	—	23.8	23.8	192.7	87.6	46.1	1.9	[R] 33.4	[R] 47.7	14.7	18.9	[R] 68.7	[R] 319.1	[R] 7.3	[R] 542.8	[R] 1,008.1	[R] 1,551.0
1995	**—**	**24.1**	**24.1**	**157.2**	**95.8**	**44.7**	**1.6**	**22.0**	**47.6**	**16.9**	**12.8**	**67.2**	**308.6**	**9.4**	**499.2**	**425.2**	**924.4**

[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 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.
(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 135. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Maryland

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.07**	**—**	**2.17**	**1.32**	**0.73**	**1.03**	**5.08**	**2.85**	**0.39**	**2.30**	**2.30**	**—**	**2.30**
1971	0.40	—	2.21	1.39	0.76	0.96	5.27	2.88	0.56	2.42	2.42	—	2.42
1972	0.19	—	2.19	1.40	0.76	1.04	5.58	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	1.56	2.09	7.22	4.52	1.63	3.95	3.95	—	3.95
1975	**1.06**	**—**	**3.45**	**2.81**	**2.03**	**2.75**	**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	0.97	—	3.97	3.54	2.55	3.41	6.97	5.30	1.90	4.76	4.76	—	4.76
1978	—	—	4.29	3.71	2.83	3.98	7.60	5.33	1.82	4.82	4.82	10.44	4.82
1979	—	—	5.73	5.42	3.95	3.78	10.21	7.02	2.69	6.33	6.33	11.05	6.33
1980	**—**	**—**	**9.02**	**7.69**	**6.46**	**5.13**	**14.36**	**9.93**	**3.53**	**8.92**	**8.92**	**12.62**	**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	10.38	4.18	9.44	9.44	15.89	9.44
1983	—	—	10.44	8.13	6.44	6.43	16.98	9.36	4.24	8.85	8.85	15.30	8.85
1984	—	—	10.27	8.70	6.16	6.13	17.63	9.00	4.55	8.66	8.66	16.35	8.66
1985	**—**	**—**	**9.99**	**8.64**	**5.80**	**[R] 11.63**	**17.61**	**9.50**	**3.88**	**9.00**	**9.00**	**17.74**	**9.01**
1986	—	—	8.41	6.68	4.01	[R] 11.24	15.59	7.55	2.09	7.10	7.10	17.80	7.11
1987	—	—	7.55	7.32	4.01	[R] 10.81	[R] 13.58	7.80	2.85	7.33	7.33	24.06	7.34
1988	—	—	7.41	7.40	3.75	[R] 10.77	[R] 14.62	8.18	2.07	7.50	7.50	23.33	[R] 7.52
1989	—	—	8.28	7.61	4.38	[R] 9.89	14.48	8.84	2.39	8.08	8.08	23.37	8.09
1990	**—**	**—**	**9.32**	**8.97**	**5.47**	**[R] 10.85**	**14.60**	**9.88**	**2.72**	**9.25**	**9.25**	**[R] 24.37**	**9.26**
1991	—	—	8.71	8.44	4.78	[R] 11.64	[R] 16.80	9.56	1.97	8.97	8.97	[R] 25.64	8.98
1992	—	—	8.54	8.31	4.49	[R] 9.97	[R] 18.32	9.74	1.97	[R] 9.05	[R] 9.05	[R] 26.15	9.07
1993	—	3.48	8.24	8.48	4.16	[R] 9.79	[R] 18.96	9.39	2.02	8.86	8.86	[R] 24.26	8.87
1994	—	3.65	7.96	8.56	3.85	[R] 8.94	[R] 19.11	9.52	2.28	8.99	8.99	[R] 25.13	9.01
1995	**—**	**2.99**	**8.36**	**8.13**	**3.89**	**8.58**	**19.40**	**9.83**	**2.64**	**9.17**	**9.16**	**25.77**	**9.18**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**3.4**	**32.1**	**18.1**	**0.1**	**9.2**	**551.2**	**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	657.8	—	657.8
1972	(s)	—	3.0	35.8	15.4	0.2	11.5	650.7	11.1	727.6	727.6	—	727.6
1973	(s)	—	3.1	55.7	17.6	0.2	10.0	701.2	14.9	802.7	802.7	—	802.7
1974	(s)	—	4.4	84.7	27.0	0.4	13.0	998.0	37.3	1,164.8	1,164.9	—	1,164.9
1975	**(s)**	**—**	**3.6**	**85.9**	**33.5**	**0.5**	**13.9**	**1,104.5**	**28.5**	**1,270.4**	**1,270.4**	**—**	**1,270.4**
1976	(s)	—	3.6	87.3	36.8	0.7	14.6	1,195.5	33.6	1,372.1	1,372.1	—	1,372.1
1977	(s)	—	4.1	115.2	46.8	0.9	13.1	1,301.8	36.9	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	198.0	70.9	0.4	21.6	1,634.9	69.4	1,999.3	1,999.3	0.5	1,999.8
1980	**—**	**—**	**7.9**	**262.0**	**125.9**	**0.5**	**27.0**	**2,282.4**	**100.1**	**2,805.9**	**2,805.9**	**0.9**	**2,806.8**
1981	—	—	7.0	315.1	149.1	1.6	32.5	2,570.6	129.2	3,205.1	3,205.1	1.3	3,206.4
1982	—	—	4.1	244.3	142.5	1.1	28.4	2,395.2	109.9	2,925.5	2,925.5	1.3	2,926.9
1983	—	—	3.8	301.3	135.9	1.3	29.3	2,162.8	49.7	2,684.1	2,684.1	1.2	2,685.3
1984	—	—	3.5	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**	**125.7**	**[R] 2.5**	**30.1**	**2,252.3**	**36.9**	**[R] 2,822.5**	**[R] 2,822.5**	**4.1**	**[R] 2,826.6**
1986	—	—	4.3	318.6	86.7	1.4	26.1	1,840.6	15.9	2,293.6	2,293.6	4.2	[R] 2,297.8
1987	—	—	3.3	347.6	84.0	[R] 1.3	[R] 25.7	1,949.1	37.4	[R] 2,448.3	[R] 2,448.3	5.7	[R] 2,454.0
1988	—	—	3.5	353.4	93.7	[R] 2.2	26.7	2,092.4	34.2	[R] 2,606.2	[R] 2,606.2	6.8	[R] 2,612.9
1989	—	—	3.5	447.0	107.2	[R] 2.1	27.1	2,253.8	36.4	[R] 2,877.1	[R] 2,877.1	6.2	[R] 2,883.3
1990	**—**	**—**	**3.5**	**433.3**	**110.9**	**[R] 2.0**	**28.1**	**2,419.6**	**31.6**	**[R] 3,029.2**	**[R] 3,029.2**	**7.4**	**3,036.5**
1991	—	—	3.3	428.9	87.8	[R] 1.8	28.9	2,413.0	17.0	[R] 2,980.7	[R] 2,980.7	7.9	2,988.6
1992	—	—	4.1	457.6	76.8	[R] 3.7	[R] 32.2	2,490.0	20.2	[R] 3,084.5	[R] 3,084.5	[R] 7.9	[R] 3,092.4
1993	—	0.1	4.2	465.4	69.9	[R] 4.0	33.9	2,429.7	16.4	[R] 3,023.6	[R] 3,023.7	8.0	[R] 3,031.8
1994	—	0.1	2.8	432.5	70.3	[R] 3.1	[R] 35.7	2,519.6	14.2	3,078.2	3,078.3	[R] 9.2	[R] 3,087.5
1995	**—**	**0.2**	**2.0**	**429.4**	**75.6**	**1.5**	**35.6**	**2,638.7**	**15.7**	**3,198.5**	**3,198.7**	**9.3**	**3,208.0**

[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.

(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 136. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Maryland

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.39**	**0.32**	**0.44**	**0.48**	**—**	**0.44**	**—**	**—**	**0.40**
1971	0.52	0.35	0.63	0.72	—	0.64	—	—	0.56
1972	0.54	0.37	0.63	0.82	—	0.65	—	—	0.59
1973	0.55	0.43	0.73	1.10	—	0.75	—	—	0.66
1974	1.21	0.61	1.84	1.96	—	1.85	—	—	1.58
1975	**1.30**	**1.10**	**1.85**	**2.18**	**—**	**1.86**	**0.23**	**—**	**1.36**
1976	1.15	1.62	1.80	2.31	—	1.82	0.22	—	1.17
1977	1.20	2.08	2.14	2.67	—	2.15	0.31	—	1.19
1978	1.35	1.85	2.00	2.76	—	2.03	0.36	—	1.29
1979	1.44	1.76	3.02	4.17	—	3.06	0.42	—	1.57
1980	**1.54**	**2.50**	**4.21**	**5.97**	**—**	**4.41**	**0.44**	**—**	**1.66**
1981	1.81	2.76	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	4.52	5.90	—	4.71	0.53	—	1.65
1984	1.79	3.53	4.71	5.85	—	4.89	0.58	1.28	1.68
1985	**1.75**	**3.73**	**4.02**	**5.53**	**—**	**4.22**	**0.59**	**0.79**	**1.65**
1986	1.67	2.74	2.26	3.39	—	2.41	0.56	0.32	1.32
1987	1.58	2.68	3.06	3.81	—	3.17	0.49	0.95	1.43
1988	1.58	2.60	2.33	3.49	—	2.46	0.49	0.87	1.35
1989	1.61	2.60	2.72	4.12	—	2.86	0.52	1.27	1.83
1990	**1.65**	**2.45**	**3.10**	**5.29**	**—**	**3.28**	**0.61**	**—**	**1.88**
1991	1.63	2.26	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	2.89	2.21	3.94	—	2.34	0.53	—	1.38
1994	1.55	2.47	2.37	3.84	—	2.55	0.52	—	1.40
1995	**1.50**	**2.16**	**2.62**	**3.76**	**—**	**2.88**	**0.48**	**—**	**1.26**
	Expenditures in Million Nominal Dollars								
1970	**57.3**	**3.8**	**27.4**	**2.6**	**—**	**30.0**	**—**	**—**	**91.0**
1971	68.5	3.3	52.7	6.5	—	59.2	—	—	131.1
1972	60.2	2.6	83.0	8.1	—	91.1	—	—	153.9
1973	53.1	3.8	110.9	9.1	—	120.0	—	—	176.8
1974	117.4	8.1	299.0	27.3	—	326.3	—	—	451.9
1975	**122.7**	**0.5**	**209.3**	**8.7**	**—**	**218.0**	**11.3**	**—**	**352.5**
1976	143.2	0.4	192.8	7.8	—	200.6	15.4	—	359.5
1977	129.3	0.7	221.9	8.7	—	230.6	35.9	—	396.5
1978	160.1	1.0	238.3	12.1	—	250.3	39.1	—	450.5
1979	186.9	18.6	267.3	14.6	—	281.8	44.2	—	531.5
1980	**224.9**	**13.4**	**215.5**	**38.6**	**—**	**254.1**	**52.5**	**—**	**544.9**
1981	230.5	16.8	208.0	35.3	—	243.3	58.4	—	549.0
1982	274.8	3.9	170.8	30.6	—	201.5	54.3	—	534.5
1983	275.2	8.1	158.1	31.5	—	189.6	67.3	—	540.2
1984	339.6	4.7	142.4	32.9	—	175.3	72.8	0.6	593.0
1985	**311.6**	**5.2**	**129.7**	**26.7**	**—**	**156.4**	**62.9**	**0.1**	**536.2**
1986	336.6	6.4	60.3	14.7	—	75.1	77.3	0.1	495.4
1987	328.9	32.9	83.8	17.9	—	101.7	53.2	0.5	517.2
1988	361.8	14.4	87.8	17.4	—	105.3	62.1	0.5	544.1
1989	371.2	52.1	178.1	30.1	—	208.2	15.1	0.2	646.8
1990	**375.2**	**44.7**	**121.5**	**18.4**	**—**	**139.9**	**8.2**	**—**	**568.0**
1991	361.0	37.9	96.5	14.3	—	110.8	48.2	—	558.0
1992	365.9	30.8	64.0	11.5	—	75.5	51.8	—	524.0
1993	388.3	26.5	97.0	13.6	—	110.5	69.6	—	594.9
1994	387.0	32.7	97.9	23.3	—	121.2	62.7	—	603.6
1995	**395.5**	**42.2**	**34.8**	**14.8**	**—**	**49.6**	**66.3**	**—**	**553.6**

[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, 1970-1995, Massachusetts

Year	Primary Energy														Electric Utility Fuel	Electricity Purchased by End-Users	Total Energy [c]
	Coal				Petroleum												
	Coking Coal	Steam Coal	Total	Natural Gas	Distillate Fuel	Jet Fuel	LPG [a]	Motor Gasoline	Residual Fuel	Other [b]	Total	Nuclear Fuel	Biofuels	Total [c]			
	Prices in Nominal Dollars per Million Btu																
1970	**—**	**0.55**	**0.55**	**1.58**	**1.34**	**0.75**	**2.31**	**2.86**	**0.39**	**1.63**	**1.24**	**0.20**	**—**	**1.25**	**0.37**	**7.29**	**1.90**
1971	—	0.64	0.64	1.70	1.42	0.79	2.23	2.93	0.65	1.73	1.41	0.19	—	1.42	0.60	7.90	2.10
1972	—	1.03	1.03	1.85	1.43	0.79	2.25	2.87	0.67	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	1.87	1.60	0.21	—	1.58	0.65	8.68	2.42
1974	—	1.44	1.44	2.33	2.56	1.61	3.41	4.38	1.95	2.84	2.75	0.22	—	2.62	1.71	12.64	3.71
1975	**—**	**1.57**	**1.57**	**2.86**	**2.74**	**2.10**	**3.74**	**4.73**	**1.95**	**3.37**	**2.95**	**0.18**	**—**	**2.83**	**1.66**	**13.93**	**4.15**
1976	—	2.08	2.08	3.30	2.92	2.29	4.20	4.88	1.84	3.42	2.98	0.23	—	2.94	1.62	14.48	4.34
1977	—	2.37	2.37	3.56	3.29	2.64	4.33	5.21	2.14	3.56	3.33	0.20	—	3.26	1.89	15.41	4.77
1978	—	2.35	2.35	3.74	3.41	2.97	4.67	5.15	1.94	3.92	3.32	0.28	—	3.23	1.63	15.58	4.93
1979	—	2.12	2.12	4.04	4.95	3.98	5.70	6.98	2.82	5.38	4.74	0.32	—	4.41	2.35	17.07	6.63
1980	**—**	**2.03**	**2.03**	**4.88**	**6.87**	**6.51**	**6.62**	**9.69**	**3.84**	**8.10**	**6.60**	**0.41**	**—**	**6.04**	**3.41**	**21.13**	**8.90**
1981	—	2.58	2.58	5.80	8.50	7.80	6.96	10.86	4.74	9.99	7.89	0.44	—	7.10	3.97	25.53	10.64
1982	—	2.53	2.53	6.58	8.27	7.51	8.26	10.07	4.26	8.95	7.55	0.50	—	6.70	3.30	24.62	10.28
1983	—	2.29	2.29	6.94	8.10	6.87	9.03	9.28	4.28	9.23	7.40	0.56	—	6.47	3.04	25.05	10.45
1984	—	2.20	2.20	6.53	8.22	6.42	9.33	8.85	4.66	9.75	7.35	1.05	—	6.60	3.62	26.23	10.35
1985	**—**	**2.03**	**2.03**	**6.25**	**8.02**	**6.04**	**[R] 12.02**	**9.18**	**4.04**	**9.56**	**7.27**	**0.60**	**—**	**[R] 6.22**	**2.74**	**24.34**	**10.08**
1986	—	1.81	1.81	6.35	5.93	4.18	[R] 10.41	7.25	2.31	7.56	5.12	0.88	—	[R] 4.95	2.03	22.70	8.38
1987	—	1.66	1.66	5.23	5.82	4.12	[R] 11.33	7.56	2.77	[R] 7.07	5.59	0.92	—	5.09	2.26	23.46	8.70
1988	—	1.66	1.66	5.46	5.86	4.02	[R] 11.26	7.90	2.27	6.57	5.56	0.96	—	[R] 5.12	2.04	22.86	8.85
1989	—	1.64	1.64	5.33	6.54	4.61	[R] 12.19	8.50	2.64	7.18	6.11	0.70	—	5.40	2.18	24.39	9.45
1990	**—**	**1.77**	**1.77**	**5.55**	**7.99**	**5.83**	**[R] 12.39**	**9.53**	**2.88**	**7.58**	**[R] 7.14**	**0.62**	**[d R] 2.21**	**[d] 5.94**	**2.15**	**25.93**	**[d R] 10.37**
1991	—	1.75	1.75	5.66	7.50	5.00	[R] 13.94	10.01	2.21	6.82	6.97	0.61	[R] 2.24	5.85	1.85	27.94	10.64
1992	—	1.74	1.74	5.66	6.93	4.63	[R] 11.65	9.83	2.33	[R] 7.57	[R] 6.93	0.50	2.22	5.81	1.90	28.31	[R] 10.29
1993	—	1.71	1.71	6.10	6.83	4.36	[R] 11.67	9.47	2.57	[R] 7.75	[R] 6.94	0.49	2.18	[R] 5.97	1.97	[R] 29.25	[R] 10.28
1994	—	1.70	1.70	6.46	6.74	4.08	[R] 12.63	9.55	2.59	[R] 8.70	[R] 7.12	0.49	2.11	[R] 6.16	1.93	29.32	[R] 10.54
1995	**—**	**1.69**	**1.69**	**5.70**	**6.65**	**4.06**	**12.52**	**10.19**	**2.68**	**8.46**	**7.73**	**0.42**	**2.01**	**6.20**	**1.75**	**29.65**	**10.65**
	Expenditures in Million Nominal Dollars																
1970	**—**	**11.7**	**11.7**	**234.1**	**461.9**	**33.3**	**15.9**	**743.8**	**210.9**	**71.6**	**1,537.4**	**2.7**	**—**	**1,785.8**	**-112.4**	**612.9**	**2,286.3**
1971	—	8.4	8.4	267.5	509.8	38.4	15.6	781.3	341.5	75.9	1,762.5	2.9	—	2,041.3	-185.1	711.1	2,567.3
1972	—	7.9	7.9	299.5	534.2	40.0	18.3	809.5	368.1	80.0	1,850.2	3.2	—	2,160.8	-212.3	799.7	2,748.2
1973	—	7.4	7.4	309.4	629.2	47.9	22.3	912.3	403.8	79.4	2,095.0	11.8	—	2,423.6	-226.6	907.2	3,104.1
1974	—	38.1	38.1	364.2	901.6	75.0	26.2	1,250.0	847.1	105.1	3,204.9	7.1	—	3,614.2	-511.0	1,273.3	4,376.5
1975	**—**	**38.5**	**38.5**	**441.3**	**934.7**	**95.0**	**32.2**	**1,357.3**	**808.9**	**97.6**	**3,325.6**	**7.5**	**—**	**3,812.9**	**-524.9**	**1,401.0**	**4,689.0**
1976	—	8.2	8.2	517.0	1,069.2	104.2	39.8	1,444.6	861.4	118.0	3,637.2	9.4	—	4,171.9	-544.5	1,542.0	5,169.4
1977	—	9.5	9.5	572.8	1,170.1	131.0	47.5	1,557.7	960.4	124.2	3,990.8	8.1	—	4,581.2	-639.0	1,655.8	5,598.0
1978	—	7.4	7.4	604.2	1,168.0	142.5	47.7	1,555.3	851.5	136.7	3,901.8	17.2	—	4,530.7	-602.9	1,715.6	5,643.4
1979	—	9.8	9.8	635.1	1,253.5	196.8	46.8	2,037.4	1,019.3	176.9	4,730.6	21.0	—	5,396.6	-849.8	1,918.1	6,464.9
1980	**—**	**46.4**	**46.4**	**901.9**	**1,504.7**	**315.8**	**51.7**	**2,619.1**	**1,306.9**	**244.7**	**6,042.8**	**14.3**	**—**	**7,005.4**	**-1,191.4**	**2,398.4**	**8,212.4**
1981	—	68.7	68.7	1,083.9	1,586.4	352.5	65.2	2,971.5	1,474.2	312.2	6,762.1	20.8	—	7,935.5	-1,321.0	2,975.7	9,590.1
1982	—	226.7	226.7	1,303.4	1,537.8	312.6	64.4	2,747.1	1,128.0	274.5	6,064.4	23.2	—	7,617.7	-1,130.9	2,893.7	9,380.5
1983	—	221.5	221.5	1,356.8	1,488.5	283.1	70.8	2,562.3	943.0	236.0	5,583.8	37.2	—	7,199.2	-1,081.4	3,077.4	9,195.3
1984	—	255.6	255.6	1,397.1	1,605.5	250.5	57.8	2,505.1	1,101.4	258.8	5,779.1	11.8	—	7,443.6	-1,187.1	3,333.5	9,590.0
1985	**—**	**223.8**	**223.8**	**1,395.1**	**1,544.6**	**238.4**	**[R] 74.5**	**2,643.9**	**915.4**	**261.4**	**[R] 5,678.1**	**39.8**	**—**	**[R] 7,336.9**	**-1,011.3**	**3,166.2**	**[R] 9,491.8**
1986	—	180.9	180.9	1,203.3	1,229.3	163.4	[R] 86.4	2,147.8	721.3	210.8	[R] 4,558.9	23.1	—	[R] 5,966.1	-698.3	3,101.9	[R] 8,369.7
1987	—	195.2	195.2	1,215.6	1,281.4	182.9	[R] 109.2	2,284.5	661.9	[R] 210.1	[R] 4,730.0	11.3	—	[R] 6,152.1	-782.8	3,392.0	[R] 8,761.2
1988	—	194.2	194.2	1,174.4	1,254.7	212.1	[R] 97.6	2,465.8	548.3	197.3	[R] 4,775.8	11.5	—	[R] 6,155.9	-704.3	3,489.0	[R] 8,940.6
1989	—	198.4	198.4	1,367.2	1,538.0	260.8	[R] 115.3	2,601.2	633.1	197.3	[R] 5,345.6	22.7	—	[R] 6,933.9	-862.8	3,801.0	[R] 9,872.1
1990	**—**	**200.4**	**200.4**	**1,479.7**	**1,568.4**	**323.3**	**[R] 118.1**	**2,789.2**	**581.2**	**207.8**	**[R] 5,588.0**	**33.6**	**[d R] 43.9**	**[d R] 7,345.5**	**-801.1**	**[R] 4,020.3**	**[d R] 10,564.7**
1991	—	204.7	204.7	1,470.6	1,450.7	264.2	[R] 96.7	2,864.3	424.7	209.2	[R] 5,309.9	29.0	[R] 46.3	[R] 7,060.4	-661.1	[R] 4,270.5	[R] 10,669.8
1992	—	193.2	193.2	1,720.9	1,418.2	206.1	[R] 78.9	2,864.4	401.8	[R] 219.1	[R] 5,188.5	25.5	[R] 47.5	[R] 7,175.7	-628.3	[R] 4,346.9	[R] 10,894.2
1993	—	168.5	168.5	1,964.2	1,457.4	190.6	[R] 88.5	2,788.9	393.8	[R] 219.0	[R] 5,138.2	22.7	[R] 49.3	[R] 7,342.9	-562.5	[R] 4,518.3	[R] 11,298.7
1994	—	170.8	170.8	[R] 2,223.0	1,386.3	171.9	[R] 94.4	2,853.0	343.1	[R] 209.9	[R] 5,058.5	20.0	[R] 49.2	[R] 7,521.5	-534.0	[R] 4,610.8	[R] 11,598.3
1995	**—**	**176.9**	**176.9**	**2,108.8**	**1,419.6**	**152.7**	**97.3**	**3,145.0**	**234.6**	**215.5**	**5,264.6**	**20.1**	**57.3**	**7,627.8**	**-487.4**	**4,704.7**	**11,845.1**

[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 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, 1970-1995, Massachusetts

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.05**	**1.90**	**1.49**	**1.62**	**3.04**	**1.52**	**—**	**1.61**	**8.59**	**2.24**
1971	1.56	2.09	1.57	1.66	3.03	1.59	—	1.72	9.16	2.43
1972	1.58	2.26	1.58	1.69	3.12	1.60	—	1.77	9.52	2.53
1973	1.83	2.37	1.81	1.94	4.47	1.85	—	1.98	10.03	2.83
1974	2.19	2.68	2.67	3.01	4.64	2.70	—	2.69	13.95	3.91
1975	**2.62**	**3.14**	**2.85**	**3.16**	**4.92**	**2.89**	**—**	**2.96**	**15.30**	**4.22**
1976	2.64	3.62	3.04	3.35	5.22	3.08	—	3.23	15.70	4.48
1977	3.12	3.92	3.41	3.75	5.47	3.45	—	3.58	16.51	4.89
1978	3.68	4.13	3.52	4.01	5.81	3.57	—	3.72	16.67	5.12
1979	3.64	4.51	5.11	5.33	8.34	5.16	—	4.94	18.14	6.78
1980	**4.47**	**5.33**	**7.05**	**8.15**	**8.99**	**7.10**	**—**	**6.36**	**22.18**	**8.65**
1981	5.40	6.27	8.75	10.54	9.85	8.79	—	7.60	26.93	10.65
1982	5.46	7.38	8.48	10.79	10.76	8.59	—	8.00	26.29	10.95
1983	5.02	8.16	8.26	9.36	11.45	8.36	—	8.24	27.00	11.50
1984	4.76	7.65	8.45	9.33	11.36	8.54	—	8.08	27.82	11.44
1985	**4.39**	**7.65**	**8.10**	**8.94**	**11.43**	**8.24**	**—**	**7.93**	**26.16**	**11.05**
1986	4.19	7.23	6.22	6.86	9.01	6.33	—	6.75	24.38	9.81
1987	3.85	6.45	6.10	6.73	10.88	6.32	—	6.37	25.52	9.82
1988	3.99	6.28	6.22	6.86	10.95	6.43	—	6.35	24.88	9.85
1989	3.96	6.91	7.01	7.74	12.96	7.29	—	7.10	26.70	10.65
1990	**4.21**	**7.56**	**8.21**	**9.06**	**13.36**	**8.45**	**[d] 2.83**	**[d] 7.74**	**28.31**	**[d] 11.33**
1991	4.07	7.81	7.80	8.61	14.73	8.11	2.83	7.68	30.47	11.72
1992	3.94	7.63	7.00	7.72	12.29	7.21	2.83	7.20	[R] 31.11	11.06
1993	3.96	8.02	6.79	7.50	[R] 12.32	[R] 7.01	2.83	[R] 7.29	32.25	[R] 11.22
1994	4.07	8.73	6.59	7.27	[R] 14.23	[R] 6.91	2.83	[R] 7.58	32.49	[R] 11.66
1995	**4.01**	**8.81**	**6.39**	**7.05**	**14.34**	**6.74**	**2.83**	**7.45**	**32.99**	**11.79**
	Expenditures in Million Nominal Dollars									
1970	**2.6**	**158.6**	**334.9**	**13.2**	**10.7**	**358.9**	**—**	**520.1**	**273.7**	**793.8**
1971	3.6	176.8	366.7	13.5	10.8	391.0	—	571.4	318.8	890.1
1972	2.8	197.3	380.2	14.5	12.3	407.0	—	607.2	356.2	963.4
1973	3.3	201.7	438.5	11.5	16.2	466.2	—	671.1	400.9	1,072.0
1974	3.5	231.7	607.1	10.9	16.4	634.4	—	869.6	544.7	1,414.3
1975	**3.3**	**284.4**	**628.7**	**10.6**	**18.4**	**657.7**	**—**	**945.4**	**555.7**	**1,501.2**
1976	3.2	346.4	725.5	12.2	20.6	758.3	—	1,107.9	601.2	1,709.2
1977	3.8	368.2	792.8	14.3	23.7	830.8	—	1,202.8	624.8	1,827.7
1978	3.4	361.5	781.1	10.4	24.1	815.5	—	1,180.5	639.4	1,819.9
1979	2.8	368.1	782.3	13.1	19.8	815.2	—	1,186.1	706.8	1,892.9
1980	**5.2**	**511.9**	**932.9**	**14.9**	**22.3**	**970.1**	**—**	**1,487.2**	**875.7**	**2,362.9**
1981	8.8	616.0	952.8	10.8	25.6	989.2	—	1,614.1	1,073.7	2,687.8
1982	9.8	736.3	893.3	31.2	27.7	952.2	—	1,698.4	1,075.4	2,773.7
1983	8.1	764.3	845.0	8.7	35.1	888.8	—	1,661.3	1,145.6	2,806.9
1984	11.6	758.4	886.5	11.1	35.1	932.7	—	1,702.7	1,205.5	2,908.2
1985	**7.2**	**765.7**	**847.8**	**29.3**	**42.1**	**919.2**	**—**	**1,692.1**	**1,151.9**	**2,844.0**
1986	4.1	758.4	669.5	19.5	37.3	726.3	—	1,488.8	1,131.8	2,620.5
1987	3.1	696.2	660.3	20.2	54.1	734.6	—	1,433.9	1,260.4	2,694.3
1988	3.2	702.8	671.1	11.7	53.4	736.2	—	1,442.2	1,317.0	2,759.2
1989	2.7	799.5	838.4	11.9	75.7	926.0	—	1,728.2	1,437.0	3,165.3
1990	**3.1**	**835.2**	**826.4**	**8.4**	**65.8**	**900.6**	**[d] 31.0**	**[d] 1,769.9**	**[R] 1,504.9**	**[d R] 3,274.8**
1991	1.5	835.0	755.8	7.4	65.4	828.6	32.6	1,697.7	[R] 1,599.2	[R] 3,296.9
1992	2.4	947.8	766.6	11.4	54.3	832.2	34.3	1,816.8	[R] 1,651.9	[R] 3,468.6
1993	2.1	1,009.8	812.0	10.6	[R] 59.7	[R] 882.3	35.3	[R] 1,929.6	[R] 1,737.1	[R] 3,666.7
1994	1.3	1,069.6	758.3	9.0	[R] 71.9	[R] 839.1	34.6	[R] 1,944.6	[R] 1,779.1	[R] 3,723.8
1995	**1.4**	**956.4**	**723.0**	**5.2**	**75.4**	**803.6**	**38.4**	**1,799.7**	**1,800.2**	**3,599.9**

[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 139. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Massachusetts

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.89**	**1.40**	**1.10**	**0.81**	**1.54**	**2.86**	**0.37**	**0.72**	**0.83**	**8.05**	**1.64**
1971	0.62	1.58	1.17	0.85	1.41	2.93	0.64	0.90	1.02	8.61	1.95
1972	1.04	1.69	1.17	0.85	1.44	2.87	0.66	0.92	1.06	8.83	2.08
1973	1.26	1.79	1.41	1.10	1.40	3.12	0.71	1.06	1.20	9.15	2.32
1974	1.73	2.12	2.27	2.43	2.36	4.38	1.91	2.11	2.11	13.23	3.83
1975	**2.62**	**2.64**	**2.44**	**2.62**	**2.84**	**4.73**	**1.89**	**2.22**	**2.32**	**14.39**	**4.51**
1976	1.83	3.06	2.62	2.68	3.47	4.88	1.76	2.27	2.43	15.10	4.74
1977	2.04	3.41	2.98	2.98	3.59	5.21	2.11	2.65	2.82	16.12	5.35
1978	1.80	3.51	3.09	3.14	3.89	5.15	1.86	2.65	2.87	16.48	5.59
1979	1.56	3.80	4.56	4.26	4.62	6.98	2.84	4.07	3.96	18.06	7.61
1980	**1.67**	**4.65**	**6.36**	**6.12**	**5.52**	**9.69**	**3.81**	**5.37**	**5.04**	**22.08**	**9.35**
1981	1.89	5.63	8.03	7.31	5.85	10.86	4.72	6.87	6.21	26.61	12.30
1982	2.01	6.28	7.76	7.73	7.02	10.07	4.16	6.22	6.18	25.61	11.47
1983	1.97	7.27	7.17	7.44	7.48	9.28	4.21	6.29	6.64	25.60	13.29
1984	2.38	7.01	7.04	8.25	7.30	8.85	4.88	6.25	6.46	27.55	13.56
1985	**2.38**	**6.88**	**6.72**	**7.51**	**[R] 12.89**	**9.18**	**4.31**	**5.98**	**[R] 6.31**	**25.20**	**12.89**
1986	2.11	6.49	4.57	4.94	[R] 11.81	7.25	2.46	[R] 3.99	4.99	23.40	11.26
1987	2.35	5.75	4.72	5.49	[R] 11.81	7.56	2.93	[R] 4.31	4.96	23.49	[R] 11.77
1988	2.51	5.93	4.51	5.33	[R] 11.65	7.90	2.36	[R] 3.91	[R] 4.81	22.72	11.32
1989	2.57	5.67	5.38	5.68	[R] 10.96	8.50	2.69	4.59	[R] 5.04	24.05	11.58
1990	**2.62**	**6.14**	**6.38**	**7.61**	**[R] 11.34**	**9.53**	**3.05**	**5.05**	**5.51**	**25.44**	**12.63**
1991	2.65	5.94	5.73	6.14	[R] 12.54	10.01	2.28	[R] 4.56	5.13	[R] 27.37	12.59
1992	2.67	5.65	5.33	5.82	[R] 10.46	9.83	2.27	4.34	4.99	[R] 27.57	12.59
1993	2.33	5.82	5.16	6.04	[R] 10.52	9.47	2.46	[R] 4.47	5.20	28.65	13.47
1994	2.23	6.66	5.20	[R] 6.16	[R] 10.32	9.55	2.51	4.36	5.78	[R] 28.91	[R] 13.41
1995	**2.26**	**6.42**	**4.90**	**6.22**	**10.59**	**10.19**	**2.86**	**4.35**	**5.57**	**29.37**	**13.35**
	Expenditures in Million Nominal Dollars										
1970	**1.7**	**50.1**	**86.4**	**0.5**	**1.0**	**1.5**	**35.0**	**124.4**	**176.2**	**214.2**	**390.4**
1971	1.0	59.1	95.0	0.6	0.9	1.6	55.7	153.7	213.8	252.1	465.9
1972	1.3	63.0	98.2	0.6	1.0	1.6	57.8	159.1	223.5	283.0	506.5
1973	1.8	71.1	119.4	0.5	0.9	1.7	62.7	185.2	258.1	324.8	582.9
1974	2.4	80.2	180.3	0.7	1.5	2.4	133.8	318.7	401.3	458.3	859.5
1975	**2.6**	**100.1**	**187.9**	**0.7**	**1.9**	**2.7**	**108.6**	**301.8**	**404.6**	**559.6**	**964.2**
1976	1.8	116.2	218.3	0.8	2.4	2.9	107.9	332.4	450.3	623.3	1,073.6
1977	1.9	139.2	241.2	0.9	2.7	3.1	114.5	362.5	503.7	679.5	1,183.1
1978	1.1	161.5	238.9	0.7	2.8	5.1	88.2	335.7	498.3	713.8	1,212.1
1979	0.8	179.3	243.1	0.9	1.9	7.0	67.5	320.5	500.6	798.6	1,299.2
1980	**2.0**	**252.5**	**278.0**	**1.0**	**2.4**	**9.7**	**116.3**	**407.5**	**662.0**	**983.4**	**1,645.4**
1981	2.8	287.0	269.3	0.4	2.7	11.8	93.5	377.6	667.4	1,215.5	1,882.9
1982	3.9	393.2	249.2	1.2	3.2	11.3	110.5	375.4	772.5	1,196.4	1,968.9
1983	3.4	294.2	227.4	1.5	4.0	9.4	64.6	306.9	604.5	1,256.9	1,861.3
1984	7.1	296.2	229.0	0.8	4.0	7.8	102.2	343.8	647.1	1,401.6	2,048.7
1985	**3.9**	**291.5**	**223.3**	**4.6**	**[R] 8.4**	**9.1**	**85.6**	**[R] 331.0**	**[R] 626.3**	**1,339.5**	**[R] 1,965.8**
1986	1.9	290.4	177.5	8.1	[R] 8.6	7.2	53.0	[R] 254.5	[R] 546.9	1,323.9	[R] 1,870.8
1987	1.5	275.4	167.1	1.6	[R] 10.4	7.7	52.4	[R] 239.1	[R] 516.0	1,418.6	[R] 1,934.6
1988	2.1	298.9	167.2	2.1	[R] 10.0	7.6	50.8	[R] 237.8	[R] 538.7	1,454.9	[R] 1,993.6
1989	1.9	302.4	242.7	2.1	[R] 11.3	8.4	65.4	[R] 329.8	[R] 634.0	1,588.6	[R] 2,222.6
1990	**2.2**	**321.4**	**231.8**	**5.5**	**[R] 9.9**	**3.4**	**87.0**	**[R] 337.6**	**[R] 661.2**	**[R] 1,696.4**	**[R] 2,357.7**
1991	0.8	328.2	254.0	7.0	[R] 9.8	9.6	65.4	[R] 345.8	[R] 674.8	[R] 1,816.3	[R] 2,491.1
1992	2.2	377.1	207.5	2.4	[R] 8.2	8.5	52.9	[R] 279.4	[R] 658.7	[R] 1,843.4	2,502.1
1993	1.2	395.2	190.2	3.9	[R] 9.0	2.6	40.1	[R] 245.9	[R] 642.3	1,927.2	[R] 2,569.5
1994	0.5	576.5	168.1	3.5	[R] 9.2	2.8	47.3	[R] 231.0	[R] 808.0	[R] 1,987.5	[R] 2,795.5
1995	**0.7**	**542.2**	**179.0**	**3.9**	**9.8**	**3.5**	**56.1**	**252.2**	**795.1**	**2,035.2**	**2,830.4**

[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.
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, 1970-1995, Massachusetts

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.89**	**0.89**	**1.03**	**0.63**	**0.74**	**0.81**	**1.54**	**5.08**	**2.86**	**0.42**	**1.86**	**0.60**	**—**	**0.64**	**4.88**	**1.05**
1971	—	0.62	0.62	1.06	0.86	0.79	0.85	1.41	5.27	2.93	0.68	1.88	0.82	—	0.84	5.38	1.30
1972	—	1.04	1.04	1.22	0.90	0.79	0.85	1.44	5.58	2.87	0.66	1.87	0.82	—	0.87	5.83	1.38
1973	—	1.26	1.26	1.28	0.84	1.01	1.10	1.40	5.33	3.12	0.81	2.06	0.96	—	1.00	6.24	1.57
1974	—	1.73	1.73	1.69	1.44	2.24	2.43	2.36	7.22	4.38	1.99	2.79	2.10	—	2.04	9.96	2.99
1975	**—**	**2.62**	**2.62**	**2.28**	**1.95**	**2.36**	**2.62**	**2.84**	**7.48**	**4.73**	**2.06**	**3.28**	**2.25**	**—**	**2.26**	**11.21**	**3.42**
1976	—	1.83	1.83	2.48	2.05	2.48	2.68	3.47	7.05	4.88	1.99	3.54	2.27	—	2.29	11.70	3.52
1977	—	2.04	2.04	2.58	2.06	2.76	2.98	3.59	6.97	5.21	2.23	3.73	2.53	—	2.53	12.71	3.94
1978	—	1.80	1.80	2.98	2.29	2.91	3.14	3.89	7.60	5.15	2.16	3.94	2.60	—	2.66	12.64	4.17
1979	—	1.56	1.56	3.20	2.68	4.04	4.26	4.62	10.21	6.98	3.04	5.41	3.83	—	3.67	14.07	5.79
1980	**—**	**1.67**	**1.67**	**4.09**	**3.73**	**5.59**	**6.12**	**5.52**	**14.36**	**9.69**	**4.14**	**8.66**	**5.92**	**—**	**5.20**	**18.21**	**8.40**
1981	—	1.89	1.89	5.01	6.00	6.64	7.31	5.85	18.00	10.86	4.96	9.98	6.81	—	6.23	22.09	9.72
1982	—	2.01	2.01	5.55	4.06	6.77	7.73	7.02	17.25	10.07	4.71	9.62	6.21	—	5.99	20.74	9.40
1983	—	1.97	1.97	5.56	4.25	6.84	7.44	7.48	16.98	9.28	4.57	9.29	6.18	—	5.86	21.54	9.42
1984	—	2.38	2.38	5.35	4.64	7.27	8.25	7.30	17.63	8.85	4.88	9.61	6.30	—	5.91	22.03	9.35
1985	**—**	**2.38**	**2.38**	**5.24**	**5.21**	**6.62**	**7.51**	**[R] 12.89**	**17.61**	**9.18**	**4.31**	**9.25**	**[R] 5.84**	**—**	**5.54**	**20.47**	**[R] 8.69**
1986	—	2.11	2.11	4.88	4.87	4.35	4.94	[R] 11.81	15.59	7.25	2.46	6.58	[R] 3.67	—	[R] 3.85	19.18	[R] 6.66
1987	—	2.35	2.35	4.13	3.57	4.84	5.49	[R] 11.81	[R] 13.58	7.56	2.93	7.32	[R] 4.62	—	[R] 4.42	20.32	[R] 7.63
1988	—	2.51	2.51	3.91	3.38	4.70	5.33	[R] 11.65	[R] 14.62	7.90	2.36	6.31	[R] 4.63	—	[R] 4.33	19.94	[R] 8.29
1989	—	2.57	2.57	3.93	3.20	5.00	5.68	[R] 10.96	14.48	8.50	2.69	7.21	[R] 5.00	—	[R] 4.55	21.40	8.86
1990	**—**	**2.62**	**2.62**	**4.00**	**3.36**	**6.71**	**7.61**	**[R] 11.34**	**14.60**	**9.53**	**3.05**	**7.46**	**[R] 5.99**	**[d R] 1.45**	**[d R] 4.78**	**[R] 23.13**	**[d] 9.06**
1991	—	2.65	2.65	3.84	3.05	5.41	6.14	[R] 12.54	[R] 16.80	10.01	2.28	6.97	[R] 5.42	[R] 1.50	[R] 4.26	[R] 24.98	[R] 8.99
1992	—	2.67	2.67	3.99	2.79	5.13	5.82	[R] 10.46	[R] 18.32	9.83	2.27	7.55	[R] 5.27	[R] 1.42	[R] 4.26	[R] 25.21	[R] 8.29
1993	—	2.33	2.33	4.89	3.30	5.32	6.04	[R] 10.52	[R] 18.96	9.47	2.46	6.84	[R] 4.90	[R] 1.38	[R] 4.64	25.39	[R] 8.04
1994	—	2.23	2.23	5.12	3.65	5.43	6.16	[R] 8.77	[R] 19.11	9.55	2.51	6.92	[R] 5.40	[R] 1.32	4.90	[R] 24.80	8.43
1995	**—**	**2.26**	**2.26**	**4.32**	**3.78**	**5.48**	**6.22**	**7.50**	**19.40**	**10.19**	**2.86**	**7.21**	**6.03**	**1.26**	**4.45**	**24.65**	**7.88**
	Expenditures in Million Nominal Dollars																
1970	**—**	**3.2**	**3.2**	**23.5**	**12.0**	**12.5**	**2.5**	**4.0**	**15.6**	**1.7**	**68.1**	**11.2**	**127.6**	**—**	**154.3**	**123.4**	**277.7**
1971	—	1.5	1.5	27.5	16.2	13.5	3.3	3.8	14.3	1.5	102.3	10.6	165.4	—	194.4	137.9	332.2
1972	—	2.9	2.9	35.7	15.2	14.1	2.1	4.8	16.2	1.6	100.7	11.6	166.2	—	204.8	158.0	362.8
1973	—	2.0	2.0	33.4	17.5	18.2	1.4	5.0	16.1	2.4	125.0	13.7	199.3	—	234.7	179.3	414.0
1974	—	3.2	3.2	41.7	25.4	35.8	3.9	8.0	20.9	2.7	242.2	18.7	357.5	—	402.5	266.1	668.6
1975	**—**	**6.9**	**6.9**	**55.0**	**23.7**	**36.5**	**3.4**	**11.6**	**16.0**	**2.0**	**205.3**	**19.6**	**318.1**	**—**	**380.0**	**280.3**	**660.3**
1976	—	3.2	3.2	50.6	27.9	40.4	4.9	16.4	16.8	1.8	213.3	30.8	352.2	—	406.1	310.8	716.9
1977	—	3.7	3.7	59.7	26.3	45.3	5.4	20.6	16.0	3.2	211.0	36.4	364.1	—	427.6	344.8	772.4
1978	—	2.9	2.9	78.3	28.0	43.6	5.5	20.0	18.7	2.4	177.9	42.7	338.8	—	420.0	355.1	775.1
1979	—	3.1	3.1	69.1	25.7	57.4	7.8	24.4	26.2	4.0	131.2	63.2	339.9	—	412.2	405.3	817.5
1980	**—**	**4.0**	**4.0**	**120.2**	**30.5**	**61.5**	**12.0**	**26.5**	**32.9**	**4.6**	**69.3**	**100.5**	**337.7**	**—**	**461.9**	**527.3**	**989.3**
1981	—	2.8	2.8	153.7	55.4	89.9	9.9	35.7	39.5	4.3	147.1	136.2	518.1	—	674.6	675.0	1,349.6
1982	—	4.4	4.4	109.5	41.0	82.9	10.1	32.2	34.5	5.1	163.7	104.9	474.4	—	588.3	612.5	1,200.8
1983	—	5.5	5.5	198.3	31.9	53.0	1.6	30.1	35.6	2.0	153.6	104.2	412.2	—	616.0	664.8	1,280.8
1984	—	6.3	6.3	204.8	33.8	57.8	0.9	15.9	39.4	5.1	224.2	117.2	494.4	—	705.5	712.2	1,417.7
1985	**—**	**10.4**	**10.4**	**177.8**	**36.4**	**40.2**	**2.2**	**[R] 20.8**	**36.7**	**17.7**	**227.8**	**100.5**	**[R] 482.3**	**—**	**[R] 670.5**	**660.4**	**[R] 1,330.9**
1986	—	5.9	5.9	119.7	36.0	39.7	1.0	[R] 37.8	31.8	14.4	210.0	69.3	[R] 439.9	—	[R] 565.5	633.5	[R] 1,199.0
1987	—	9.8	9.8	145.1	35.0	108.9	1.3	[R] 42.5	[R] 31.3	15.5	131.4	77.6	[R] 443.5	—	[R] 598.4	696.2	[R] 1,294.5
1988	—	8.9	8.9	127.3	39.6	67.1	1.5	[R] 31.5	[R] 32.5	17.3	54.2	65.4	[R] 309.0	—	[R] 445.1	697.0	[R] 1,142.1
1989	—	7.3	7.3	144.8	30.3	74.0	1.8	[R] 25.8	33.0	21.2	57.9	72.8	[R] 316.8	—	[R] 469.0	758.0	[R] 1,227.0
1990	**—**	**4.8**	**4.8**	**183.5**	**29.9**	**85.0**	**0.8**	**[R] 40.0**	**34.2**	**20.6**	**50.6**	**82.5**	**[R] 343.7**	**[d R] 12.9**	**[d R] 544.8**	**[R] 801.6**	**[d R] 1,346.4**
1991	—	5.6	5.6	218.5	40.0	37.7	0.6	[R] 18.3	35.2	17.4	20.2	73.8	[R] 243.3	[R] 13.7	[R] 481.0	[R] 834.7	[R] 1,315.7
1992	—	10.3	10.3	293.4	29.0	55.5	3.0	[R] 14.1	[R] 39.1	17.3	31.0	84.1	[R] 273.2	[R] 13.2	[R] 590.1	[R] 831.3	[R] 1,421.4
1993	—	6.7	6.7	480.9	31.8	43.5	0.5	[R] 17.4	[R] 41.3	8.7	54.7	76.6	[R] 274.6	[R] 14.0	[R] 776.1	[R] 832.1	[R] 1,608.3
1994	—	3.6	3.6	487.2	21.5	35.5	0.6	[R] 10.6	[R] 43.5	17.4	43.1	75.5	[R] 247.7	[R] 14.6	[R] 753.1	[R] 821.5	[R] 1,574.7
1995	**—**	**2.4**	**2.4**	**477.2**	**31.4**	**39.5**	**1.2**	**10.5**	**43.4**	**20.0**	**26.6**	**73.6**	**246.2**	**18.8**	**744.7**	**843.1**	**1,587.8**

[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 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 141. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Massachusetts

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.89**	**—**	**2.17**	**1.35**	**0.75**	**1.54**	**5.08**	**2.86**	**0.34**	**2.37**	**2.37**	**5.66**	**2.38**
1971	0.62	—	2.21	1.49	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	5.58	2.87	0.62	2.42	2.42	8.66	2.42
1973	1.26	—	2.36	1.80	0.93	1.40	5.33	3.12	0.66	2.65	2.65	7.36	2.66
1974	1.73	—	3.23	2.73	1.61	2.36	7.22	4.38	1.76	3.87	3.87	13.02	3.88
1975	**2.62**	**—**	**3.45**	**2.90**	**2.09**	**2.84**	**7.48**	**4.73**	**1.72**	**4.24**	**4.24**	**14.77**	**4.25**
1976	1.83	—	3.59	3.10	2.29	3.47	7.05	4.88	1.63	4.39	4.39	18.11	4.40
1977	2.04	—	3.97	3.61	2.64	3.59	6.97	5.21	1.88	4.71	4.71	18.66	4.73
1978	—	—	4.29	3.79	2.97	3.89	7.60	5.15	1.64	4.75	4.75	21.00	4.77
1979	—	—	5.73	5.34	3.98	4.62	10.21	6.98	2.56	6.38	6.38	18.58	6.39
1980	**—**	**—**	**9.02**	**7.40**	**6.51**	**5.52**	**14.36**	**9.69**	**3.22**	**9.01**	**9.01**	**21.74**	**9.02**
1981	—	—	10.84	9.06	7.80	5.85	18.00	10.86	4.12	10.25	10.25	24.42	10.27
1982	—	—	10.92	8.75	7.51	7.02	17.25	10.07	3.91	9.54	9.54	23.77	9.55
1983	—	—	10.44	8.82	6.87	7.48	16.98	9.28	3.96	9.00	9.00	22.92	9.01
1984	—	—	10.27	9.02	6.42	7.30	17.63	8.85	4.39	8.67	8.67	27.61	8.70
1985	**—**	**—**	**9.99**	**9.24**	**6.04**	**[R] 12.89**	**17.61**	**9.18**	**3.77**	**8.84**	**8.84**	**23.83**	**8.86**
1986	—	—	8.41	7.07	4.18	[R] 11.81	15.59	7.25	2.09	6.93	6.93	22.13	6.95
1987	—	—	7.55	6.82	4.12	[R] 11.81	[R] 13.58	7.56	2.55	7.09	7.09	30.14	7.12
1988	—	—	7.41	6.90	4.02	[R] 11.65	[R] 14.62	7.90	2.00	7.28	7.28	28.58	7.32
1989	—	—	8.28	7.43	4.61	[R] 10.96	14.48	8.50	2.33	7.78	7.78	30.55	7.81
1990	**—**	**3.47**	**9.32**	**9.37**	**5.83**	**[R] 11.34**	**14.60**	**9.53**	**2.44**	**8.89**	**8.89**	**31.94**	**8.92**
1991	—	3.75	8.71	9.22	5.00	[R] 12.54	[R] 16.80	10.01	1.94	9.22	9.22	34.15	9.26
1992	—	3.52	8.54	8.78	4.63	[R] 10.46	[R] 18.32	9.83	2.11	[R] 9.11	[R] 9.11	[R] 33.04	[R] 9.15
1993	—	4.79	8.24	8.66	4.36	[R] 10.52	[R] 18.96	9.47	2.37	8.83	8.83	[R] 35.78	8.87
1994	—	2.26	7.96	8.48	4.08	[R] 8.49	[R] 19.11	9.55	[R] 2.53	8.85	8.85	[R] 36.93	8.90
1995	**—**	**4.11**	**8.36**	**8.78**	**4.06**	**8.58**	**19.40**	**10.19**	**2.60**	**9.46**	**9.46**	**41.95**	**9.51**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**3.0**	**25.2**	**33.3**	**0.2**	**13.6**	**740.6**	**7.0**	**822.8**	**822.8**	**1.6**	**824.4**
1971	(s)	—	2.9	29.4	38.4	0.2	14.4	778.3	13.0	876.6	876.6	2.4	879.0
1972	(s)	—	3.4	36.0	39.0	0.2	16.4	806.3	11.7	913.0	913.0	2.5	915.6
1973	(s)	—	3.3	47.5	47.1	0.2	15.4	908.2	11.4	1,033.1	1,033.1	2.1	1,035.2
1974	(s)	—	4.7	69.9	74.1	0.3	20.0	1,244.9	16.0	1,429.9	1,429.9	4.3	1,434.2
1975	**(s)**	**—**	**4.0**	**75.8**	**94.4**	**0.3**	**19.6**	**1,352.5**	**11.3**	**1,558.0**	**1,558.0**	**5.4**	**1,563.4**
1976	(s)	—	4.0	80.1	103.8	0.5	20.5	1,439.9	14.2	1,663.0	1,663.0	6.7	1,669.7
1977	(s)	—	5.4	85.4	130.7	0.5	19.6	1,551.4	15.2	1,808.2	1,808.2	6.6	1,814.8
1978	—	—	7.8	98.8	142.3	0.8	22.9	1,547.8	8.6	1,829.0	1,829.0	7.2	1,836.2
1979	—	—	7.8	160.0	196.2	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**	**315.5**	**0.5**	**40.4**	**2,604.7**	**18.2**	**3,202.9**	**3,202.9**	**11.9**	**3,214.8**
1981	—	—	11.4	262.2	352.1	1.2	48.5	2,955.5	27.5	3,658.4	3,658.4	11.4	3,669.8
1982	—	—	9.1	295.7	312.5	1.2	42.4	2,730.8	35.9	3,427.6	3,427.6	9.5	3,437.1
1983	—	—	8.7	344.4	283.1	1.6	43.7	2,550.9	3.8	3,236.1	3,236.1	10.1	3,246.3
1984	—	—	7.2	396.1	250.5	2.7	48.4	2,492.2	4.0	3,201.2	3,201.2	14.3	3,215.4
1985	**—**	**—**	**6.8**	**405.4**	**238.4**	**[R] 3.2**	**45.0**	**2,617.1**	**20.7**	**[R] 3,336.7**	**[R] 3,336.7**	**14.4**	**[R] 3,351.1**
1986	—	—	6.2	321.4	163.4	[R] 2.7	39.0	2,126.1	8.0	[R] 2,666.7	[R] 2,666.7	12.7	[R] 2,679.4
1987	—	—	4.7	324.0	182.9	[R] 2.2	[R] 38.4	2,261.4	7.4	[R] 2,821.0	[R] 2,821.0	16.8	[R] 2,837.8
1988	—	—	4.8	316.8	212.1	[R] 2.6	[R] 39.9	2,440.9	8.5	[R] 3,025.5	[R] 3,025.5	20.1	[R] 3,045.6
1989	—	—	4.9	342.3	260.8	[R] 2.5	40.5	2,571.6	17.4	[R] 3,239.9	[R] 3,239.9	17.4	[R] 3,257.3
1990	**—**	**(s)**	**4.5**	**409.8**	**323.3**	**[R] 2.5**	**42.0**	**2,765.1**	**21.2**	**[R] 3,568.4**	**[R] 3,568.4**	**17.4**	**[R] 3,585.8**
1991	—	(s)	2.0	390.5	264.2	[R] 3.1	43.2	2,837.3	5.4	[R] 3,545.8	[R] 3,545.8	20.3	[R] 3,566.1
1992	—	(s)	1.9	378.7	206.1	[R] 2.4	[R] 48.1	2,838.7	5.8	[R] 3,481.8	[R] 3,481.8	20.3	[R] 3,502.1
1993	—	(s)	3.5	402.4	190.6	[R] 2.3	[R] 50.7	2,777.5	5.2	[R] 3,432.4	[R] 3,432.4	[R] 21.9	[R] 3,454.2
1994	—	(s)	2.9	412.2	171.9	[R] 2.7	[R] 53.4	2,832.7	5.9	3,481.7	3,481.7	22.7	3,504.4
1995	**—**	**0.1**	**3.6**	**464.9**	**152.7**	**1.6**	**53.3**	**3,121.5**	**3.3**	**3,800.8**	**3,800.9**	**26.2**	**3,827.1**

[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.

(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 142. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Massachusetts

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.31**	**0.33**	**0.38**	**0.43**	**—**	**0.38**	**0.20**	**—**	**0.37**
1971	0.34	0.43	0.64	0.75	—	0.64	0.19	—	0.60
1972	0.45	0.45	0.68	0.87	—	0.68	0.20	—	0.65
1973	0.85	0.53	0.72	1.17	—	0.73	0.21	—	0.65
1974	1.34	1.44	1.95	2.08	—	1.95	0.22	—	1.71
1975	**1.31**	**1.32**	**1.93**	**2.17**	**—**	**1.93**	**0.18**	**—**	**1.66**
1976	—	1.53	1.81	2.43	—	1.82	0.23	—	1.62
1977	—	1.88	2.12	2.72	—	2.12	0.20	—	1.89
1978	—	1.87	1.90	2.84	—	1.90	0.28	—	1.63
1979	2.33	2.69	2.79	4.25	—	2.80	0.32	—	2.35
1980	**1.95**	**3.40**	**3.84**	**6.00**	**—**	**3.86**	**0.41**	**—**	**3.41**
1981	2.46	3.94	4.74	7.51	—	4.76	0.44	—	3.97
1982	2.49	4.02	4.21	7.08	—	4.24	0.50	—	3.30
1983	2.25	3.89	4.24	6.28	—	4.27	0.56	—	3.04
1984	2.14	4.04	4.58	6.10	—	4.63	1.05	—	3.62
1985	**1.97**	**3.41**	**3.91**	**5.80**	**—**	**3.97**	**0.60**	**—**	**2.74**
1986	1.78	2.27	2.24	3.54	—	2.27	0.88	—	2.03
1987	1.61	2.40	2.71	3.22	—	2.73	0.92	—	2.26
1988	1.61	2.22	2.26	3.63	—	2.32	0.96	—	2.04
1989	1.60	2.37	2.64	4.22	—	2.72	0.70	—	2.18
1990	**1.73**	**2.40**	**2.86**	**5.41**	**—**	**2.91**	**0.62**	**—**	**2.15**
1991	1.73	2.18	2.20	4.58	—	2.24	0.61	—	1.85
1992	1.69	2.59	2.36	4.28	—	2.39	0.50	—	1.90
1993	1.68	2.63	2.61	4.14	—	2.64	0.49	—	1.97
1994	1.68	2.24	2.62	3.95	—	2.66	0.49	—	1.93
1995	**1.68**	**2.01**	**2.58**	**3.72**	**—**	**2.65**	**0.42**	**—**	**1.75**
	Expenditures in Million Nominal Dollars								
1970	**4.2**	**1.9**	**100.8**	**2.9**	**—**	**103.7**	**2.7**	**—**	**112.4**
1971	2.2	4.2	170.6	5.2	—	175.8	2.9	—	185.1
1972	0.8	3.5	197.9	6.9	—	204.7	3.2	—	212.3
1973	0.3	3.2	204.8	6.5	—	211.3	11.8	—	226.6
1974	28.9	10.5	455.1	9.4	—	464.5	7.1	—	511.0
1975	**25.6**	**1.9**	**483.6**	**6.3**	**—**	**490.0**	**7.5**	**—**	**524.9**
1976	—	3.8	526.0	5.3	—	531.3	9.4	—	544.5
1977	—	5.7	619.7	5.5	—	625.2	8.1	—	639.0
1978	—	2.9	576.8	6.0	—	582.8	17.2	—	602.9
1979	3.1	18.6	795.9	11.2	—	807.1	21.0	—	849.8
1980	**35.2**	**17.3**	**1,103.1**	**21.5**	**—**	**1,124.6**	**14.3**	**—**	**1,191.4**
1981	54.3	27.2	1,206.1	12.7	—	1,218.8	20.8	—	1,321.0
1982	208.5	64.5	817.9	16.9	—	834.7	23.2	—	1,130.9
1983	204.5	99.9	721.1	18.7	—	739.7	37.2	—	1,081.4
1984	230.6	137.7	770.9	36.1	—	807.0	11.8	—	1,187.1
1985	**202.4**	**160.1**	**581.3**	**27.8**	**—**	**609.0**	**39.8**	**—**	**1,011.3**
1986	169.0	34.7	450.3	21.1	—	471.5	23.1	—	698.3
1987	180.8	98.9	470.7	21.1	—	491.8	11.3	—	782.8
1988	180.0	45.4	434.9	32.4	—	467.3	11.5	—	704.3
1989	186.5	120.5	492.5	40.6	—	533.1	22.7	—	862.8
1990	**190.3**	**139.5**	**422.3**	**15.4**	**—**	**437.7**	**33.6**	**—**	**801.1**
1991	196.7	89.0	333.8	12.6	—	346.4	29.0	—	661.1
1992	178.3	102.6	312.1	9.8	—	321.9	25.5	—	628.3
1993	158.5	78.3	293.8	9.3	—	303.1	22.7	—	562.5
1994	165.3	89.6	246.8	12.3	—	259.0	20.0	—	534.0
1995	**172.4**	**133.0**	**148.5**	**13.3**	**—**	**161.8**	**20.1**	**—**	**487.4**

[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, 1970-1995, Michigan

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	**0.55**	**0.42**	**0.44**	**0.77**	**1.09**	**0.74**	**1.89**	**2.71**	**0.59**	[R] **1.78**	**2.00**	**0.36**	**—**	**1.12**	**0.38**	**5.55**	**1.70**
1971	0.66	0.47	0.50	0.81	1.13	0.78	1.87	2.76	0.71	[R] 1.83	2.03	0.29	—	1.17	0.45	5.76	1.77
1972	0.72	0.50	0.54	0.86	1.14	0.80	2.00	2.74	0.74	[R] 1.89	2.01	0.26	—	1.20	0.48	5.97	1.82
1973	0.79	0.52	0.57	0.91	1.30	0.94	3.16	3.16	0.79	2.03	2.32	0.24	—	1.36	0.51	6.31	2.06
1974	1.65	0.88	1.00	1.11	2.33	1.61	3.37	4.55	1.71	[R] 3.17	3.50	0.25	—	2.04	0.96	7.94	2.90
1975	**2.07**	**1.04**	**1.23**	**1.42**	**2.49**	**2.08**	**3.76**	**4.72**	**1.96**	[R] **3.47**	**3.72**	**0.28**	**—**	**2.23**	**1.02**	**9.78**	**3.33**
1976	1.99	1.09	1.24	1.71	2.68	2.35	3.84	4.89	2.08	[R] 3.51	3.87	0.29	—	2.41	1.10	10.55	3.64
1977	2.01	1.15	1.29	2.02	3.12	2.66	4.44	5.23	2.49	[R] 3.66	4.21	0.43	—	2.72	1.23	11.37	4.16
1978	2.10	1.34	1.44	2.12	3.34	2.87	4.02	5.34	2.53	[R] 3.87	4.30	0.33	—	2.82	1.36	12.46	4.39
1979	2.20	1.51	1.61	2.47	4.86	3.92	5.52	7.29	3.03	[R] 5.26	5.99	0.38	1.56	3.44	1.48	13.31	5.27
1980	**2.27**	**1.62**	**1.71**	**3.05**	**6.76**	**6.38**	**6.62**	**10.09**	**3.90**	[R] **8.03**	[R] **8.47**	**0.49**	**—**	**4.39**	**1.58**	**15.40**	**6.61**
1981	2.41	1.81	1.89	3.65	8.09	7.55	7.05	11.00	5.31	[R] 9.96	[R] 9.79	0.50	—	4.91	1.67	17.26	[R] 7.60
1982	2.47	1.99	2.06	4.51	7.89	7.22	7.57	10.55	4.55	[R] 9.51	[R] 9.53	0.53	—	5.10	1.71	18.52	[R] 7.96
1983	2.19	1.92	1.95	5.41	7.71	6.65	8.15	9.34	4.23	[R] 9.32	[R] 8.76	0.59	—	5.07	1.62	18.86	[R] 8.19
1984	2.16	1.93	1.95	5.47	7.84	6.39	8.08	9.12	4.72	[R] 9.74	[R] 8.73	0.69	—	5.13	1.72	18.81	[R] 8.25
1985	**2.08**	**1.90**	**1.92**	**5.70**	**7.70**	**6.09**	[R] **8.96**	**9.10**	**4.45**	[R] **9.48**	[R] **8.66**	**0.80**	**—**	**5.18**	**1.72**	**19.88**	**8.48**
1986	1.95	1.83	1.84	5.12	5.77	4.20	[R] 8.44	6.79	2.84	[R] 7.14	6.55	0.77	—	4.30	1.66	20.35	7.50
1987	1.85	1.75	1.76	4.96	6.08	4.09	[R] 8.08	7.13	3.00	[R] 7.15	[R] 6.78	0.77	—	[R] 4.27	1.60	19.26	[R] 7.61
1988	1.73	1.76	1.76	4.80	5.77	3.85	[R] 7.92	7.15	2.86	[R] 7.04	6.66	0.88	—	4.21	1.60	19.39	7.45
1989	1.75	1.72	1.72	4.61	6.35	4.39	[R] 9.97	7.77	3.01	[R] 6.92	7.30	0.78	—	4.34	1.52	19.91	7.73
1990	**1.80**	**1.63**	**1.63**	**4.33**	**7.48**	**5.65**	[R] **10.47**	**8.78**	**3.00**	[R] **7.32**	**8.23**	**0.79**	[d R] **1.97**	[d] **4.47**	**1.41**	**20.85**	[d] **7.99**
1991	1.72	1.62	1.62	4.43	6.99	4.94	[R] 10.35	8.37	2.54	[R] 7.12	7.86	0.65	[R] 2.03	4.35	1.32	21.18	8.03
1992	—	1.58	1.58	4.38	6.83	4.57	[R] 9.72	8.16	2.50	[R] 7.25	[R] 7.66	0.67	2.04	4.45	1.36	21.24	[R] 7.86
1993	1.68	1.55	1.55	4.39	6.98	4.26	[R] 9.69	8.09	2.78	[R] 7.02	[R] 7.55	0.60	1.70	[R] 4.30	1.25	20.98	[R] 7.82
1994	1.57	1.53	1.53	4.37	6.94	3.91	[R] 9.00	8.29	2.77	[R] 7.29	7.64	0.52	1.65	[R] 4.44	1.35	20.84	7.79
1995	**1.57**	**1.48**	**1.48**	**4.07**	**6.88**	**3.93**	**9.08**	**8.40**	**2.61**	**7.25**	**7.76**	**0.65**	**1.61**	**4.27**	**1.25**	**20.72**	**7.72**
	Expenditures in Million Nominal Dollars																
1970	**73.4**	**290.3**	**363.6**	**620.2**	**240.6**	**30.4**	**43.9**	**1,378.2**	**33.7**	[R] **198.9**	[R] **1,925.8**	**1.5**	**—**	[R] **2,911.1**	**-223.6**	**1,041.7**	[R] **3,729.3**
1971	88.7	331.5	420.2	677.2	273.3	31.2	46.7	1,442.1	46.4	[R] 182.1	[R] 2,021.7	1.2	—	[R] 3,120.3	-281.8	1,158.8	[R] 3,997.3
1972	103.6	352.0	455.7	732.8	313.9	30.8	58.7	1,512.7	57.8	[R] 206.8	[R] 2,180.8	5.9	—	[R] 3,375.1	-303.6	1,292.3	[R] 4,363.8
1973	108.2	339.0	447.2	825.4	356.1	36.5	94.0	1,829.5	75.4	[R] 242.0	[R] 2,633.4	7.9	—	[R] 3,913.9	-329.9	1,474.1	[R] 5,058.0
1974	176.3	532.9	709.2	1,025.6	592.8	57.7	97.4	2,557.5	171.7	[R] 354.9	[R] 3,832.0	1.2	—	[R] 5,568.0	-606.4	1,779.4	[R] 6,741.0
1975	**290.3**	**634.7**	**925.0**	**1,235.6**	**610.6**	**66.8**	**103.9**	**2,686.4**	**217.0**	[R] **336.5**	[R] **4,021.2**	**22.2**	**—**	[R] **6,204.1**	**-733.0**	**2,139.6**	[R] **7,610.8**
1976	239.1	652.6	891.7	1,490.5	660.2	75.1	123.2	2,917.0	266.4	[R] 389.3	[R] 4,431.2	32.2	—	[R] 6,845.5	-803.9	2,501.6	[R] 8,543.2
1977	213.5	677.3	890.8	1,452.0	788.0	93.2	142.2	3,155.4	335.0	[R] 457.3	[R] 4,971.2	47.4	—	[R] 7,361.4	-890.2	2,783.4	[R] 9,254.6
1978	177.6	787.0	964.7	1,642.2	861.6	104.2	131.6	3,297.0	397.3	[R] 519.6	[R] 5,311.3	46.7	—	[R] 7,964.9	-1,080.2	3,113.8	[R] 9,998.4
1979	237.7	981.6	1,219.3	2,096.0	877.5	145.5	151.0	4,147.3	354.5	[R] 737.5	[R] 6,413.3	63.0	(s)	[R] 9,791.6	-1,234.4	3,344.9	[R] 11,902.2
1980	**250.1**	**1,049.1**	**1,299.2**	**2,596.2**	**1,087.9**	**236.9**	**163.6**	**5,144.7**	**315.1**	[R] **1,061.4**	[R] **8,009.5**	**85.1**	**—**	[R] **11,990.0**	**-1,246.3**	**3,647.5**	[R] **14,391.2**
1981	245.7	1,188.2	1,433.8	2,868.9	1,253.4	258.5	142.5	5,358.8	247.1	[R] 948.7	[R] 8,209.0	93.9	—	[R] 12,605.6	-1,315.1	4,020.2	[R] 15,310.7
1982	229.3	1,232.6	1,462.0	3,297.0	1,054.7	229.9	192.1	4,887.5	120.2	[R] 725.7	[R] 7,210.2	88.3	—	[R] 12,057.4	-1,214.2	4,082.7	[R] 14,925.8
1983	164.0	1,212.1	1,376.1	3,727.0	995.0	218.7	209.3	4,350.5	87.8	[R] 728.1	[R] 6,589.4	105.4	—	[R] 11,797.9	-1,172.0	4,405.8	[R] 15,031.6
1984	149.6	1,311.2	1,460.7	3,840.6	1,089.9	213.3	217.4	4,454.4	62.1	[R] 782.2	[R] 6,819.4	104.9	—	[R] 12,225.7	-1,267.0	4,652.7	[R] 15,611.4
1985	**149.7**	**1,349.3**	**1,499.0**	**3,954.1**	**1,138.5**	**223.6**	[R] **451.8**	**4,465.3**	**56.0**	[R] **722.9**	[R] **7,058.1**	**117.0**	**—**	[R] **12,628.3**	**-1,312.2**	**4,993.3**	[R] **16,309.3**
1986	140.3	1,356.1	1,496.4	3,376.6	890.6	167.7	[R] 474.7	3,423.8	50.6	[R] 599.4	[R] 5,606.7	102.1	—	[R] 10,581.9	-1,294.4	5,231.3	[R] 14,518.7
1987	53.0	1,422.4	1,475.4	3,189.8	896.7	191.9	[R] 514.3	3,706.1	51.2	[R] 621.5	[R] 5,981.7	119.2	—	[R] 10,766.1	-1,413.6	5,127.9	[R] 14,480.5
1988	38.0	1,420.6	1,458.6	3,507.2	928.8	185.4	[R] 493.9	3,848.7	74.0	[R] 577.3	[R] 6,108.1	169.0	—	[R] 11,242.9	-1,448.5	5,397.5	[R] 15,191.9
1989	44.2	1,330.8	1,375.0	3,517.4	919.7	227.7	[R] 679.4	4,127.1	75.1	[R] 612.3	[R] 6,641.3	178.2	—	[R] 11,711.9	-1,403.8	5,572.4	[R] 15,880.4
1990	**51.3**	**1,232.1**	**1,283.4**	**3,433.8**	**1,015.7**	**319.7**	[R] **553.1**	**4,581.8**	**44.2**	[R] **671.0**	[R] **7,185.5**	**181.4**	[d R] **59.1**	[d R] **12,143.2**	**-1,280.4**	[R] **5,797.5**	[d R] **16,660.3**
1991	26.3	1,205.6	1,231.9	3,538.2	1,016.1	283.9	[R] 591.1	4,456.5	23.2	[R] 692.0	[R] 7,062.7	189.1	[R] 63.8	[R] 12,085.7	-1,281.2	[R] 6,041.5	[R] 16,846.0
1992	—	1,108.6	1,108.6	3,783.5	1,007.3	260.5	[R] 580.8	4,343.7	22.2	[R] 718.1	[R] 6,932.6	135.5	[R] 65.1	[R] 12,025.2	-1,142.1	[R] 6,008.5	[R] 16,891.5
1993	(s)	1,100.9	1,101.0	3,882.2	1,167.1	247.7	[R] 454.0	4,496.6	30.9	[R] 750.4	[R] 7,146.6	183.3	[R] 51.7	[R] 12,364.7	-1,180.3	[R] 6,213.6	[R] 17,398.0
1994	58.3	1,158.9	1,217.2	3,917.6	1,186.1	227.5	[R] 461.4	4,607.2	31.7	[R] 746.2	[R] 7,260.1	78.5	[R] 53.3	[R] 12,526.7	-1,145.8	[R] 6,423.1	[R] 17,804.0
1995	**59.1**	**1,092.1**	**1,151.1**	**3,812.1**	**1,167.2**	**196.3**	**472.3**	**4,875.1**	**23.2**	**781.9**	**7,515.9**	**170.3**	**65.0**	**12,714.5**	**-1,188.0**	**6,636.4**	**18,162.9**

[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.
(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 144. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Michigan

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.43**	**1.00**	**1.23**	**1.56**	**2.07**	**1.35**	**—**	**1.10**	**6.99**	**1.74**
1971	1.43	1.05	1.30	1.54	2.03	1.40	—	1.15	7.19	1.82
1972	1.66	1.06	1.31	1.57	2.19	1.44	—	1.18	7.47	1.89
1973	1.39	1.14	1.41	1.90	3.76	1.77	—	1.33	7.94	2.12
1974	2.75	1.33	2.36	3.00	3.75	2.57	—	1.69	9.52	2.65
1975	**3.07**	**1.58**	**2.51**	**3.12**	**4.29**	**2.78**	**—**	**1.93**	**11.32**	**3.14**
1976	2.86	1.86	2.77	3.23	4.34	3.03	—	2.19	12.28	3.50
1977	3.35	2.18	3.22	3.77	5.05	3.50	—	2.59	13.18	4.11
1978	3.35	2.27	3.45	3.95	4.53	3.61	—	2.66	14.26	4.25
1979	3.50	2.59	5.11	5.64	7.32	5.46	—	3.10	15.15	4.80
1980	**3.70**	**3.13**	**7.05**	**8.43**	**8.08**	**7.25**	**—**	**3.72**	**16.76**	**5.56**
1981	4.12	3.75	8.53	10.34	8.24	8.51	—	4.39	18.73	6.48
1982	4.24	4.66	8.21	10.29	9.35	8.60	—	5.14	19.25	7.21
1983	3.98	5.63	7.98	9.23	9.46	8.51	—	5.95	20.60	8.25
1984	4.06	5.83	7.87	9.02	9.30	8.39	—	6.14	20.33	8.42
1985	**3.86**	**6.14**	**7.66**	**8.77**	**9.63**	**8.30**	**—**	**6.41**	**21.62**	**8.82**
1986	3.45	5.53	6.07	6.96	8.16	6.81	—	5.69	22.13	8.39
1987	3.48	5.29	5.81	6.65	8.10	6.79	—	5.51	21.45	8.33
1988	3.45	5.14	5.81	6.65	7.74	6.61	—	5.34	21.68	8.11
1989	3.46	4.93	6.40	7.32	12.10	9.10	—	5.46	22.17	8.21
1990	**3.39**	**4.80**	**7.57**	**8.66**	**11.37**	**9.43**	**[d] 3.56**	**[d] 5.33**	**[R] 22.95**	**[d] 8.13**
1991	3.15	4.88	7.06	8.09	10.11	8.56	3.56	5.32	[R] 23.63	8.29
1992	3.18	4.88	6.53	7.48	9.17	7.89	3.56	5.20	23.77	7.99
1993	3.42	4.87	6.54	7.49	9.27	8.01	3.56	5.24	23.92	8.25
1994	3.37	4.82	6.55	7.51	[R] 10.15	[R] 8.50	3.56	[R] 5.25	24.26	[R] 8.40
1995	**3.08**	**4.53**	**6.57**	**7.53**	**10.10**	**8.48**	**3.56**	**4.98**	**24.44**	**8.23**
	Expenditures in Million Nominal Dollars									
1970	**10.3**	**345.1**	**135.5**	**4.8**	**35.2**	**175.5**	**—**	**530.9**	**408.1**	**939.0**
1971	10.3	365.4	156.9	5.0	37.6	199.5	—	575.2	445.8	1,021.0
1972	8.6	390.1	166.4	5.1	48.2	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	76.6	350.9	—	835.7	659.3	1,495.1
1975	**10.1**	**542.8**	**284.4**	**5.3**	**83.3**	**373.0**	**—**	**925.9**	**806.7**	**1,732.6**
1976	10.1	644.6	309.4	5.7	93.2	408.4	—	1,063.1	893.2	1,956.3
1977	10.2	664.5	360.2	5.8	101.5	467.5	—	1,142.3	976.1	2,118.4
1978	7.9	757.6	395.7	5.6	86.9	488.1	—	1,253.7	1,063.7	2,317.3
1979	3.9	976.6	343.3	4.5	92.2	440.0	—	1,420.6	1,139.1	2,559.7
1980	**9.8**	**1,236.0**	**377.7**	**4.0**	**100.1**	**481.8**	**—**	**1,727.5**	**1,273.3**	**3,000.8**
1981	6.4	1,390.9	392.2	12.1	88.8	493.2	—	1,890.4	1,375.7	3,266.1
1982	8.5	1,718.6	302.0	32.6	110.7	445.3	—	2,172.4	1,397.2	3,569.6
1983	5.7	1,992.0	229.7	23.0	133.2	385.9	—	2,383.5	1,542.3	3,925.8
1984	10.1	2,022.8	244.8	23.4	148.1	416.3	—	2,449.2	1,547.7	3,996.9
1985	**8.4**	**2,143.5**	**266.0**	**21.1**	**153.6**	**440.7**	**—**	**2,592.6**	**1,645.1**	**4,237.7**
1986	7.7	1,894.5	208.2	13.6	149.6	371.4	—	2,273.7	1,738.9	4,012.5
1987	3.6	1,716.0	176.5	12.3	184.0	372.8	—	2,092.4	1,758.7	3,851.1
1988	5.3	1,861.1	197.0	15.1	183.5	395.6	—	2,262.0	1,873.0	4,135.0
1989	5.3	1,877.1	177.8	16.3	318.7	512.8	—	2,395.1	1,915.0	4,310.1
1990	**7.9**	**1,643.5**	**183.7**	**10.7**	**269.5**	**463.8**	**[d] 30.9**	**[d] 2,146.2**	**[R] 1,982.5**	**[d R] 4,128.7**
1991	7.3	1,709.6	187.5	12.8	264.7	465.0	32.6	2,214.5	[R] 2,157.9	4,372.5
1992	5.3	1,811.9	161.0	8.7	243.6	413.3	34.3	2,264.8	[R] 2,081.7	[R] 4,346.5
1993	7.0	1,863.8	158.0	15.1	266.7	439.8	17.6	2,328.2	[R] 2,184.5	[R] 4,512.7
1994	8.4	1,815.6	153.9	13.7	[R] 291.3	[R] 459.0	17.2	[R] 2,300.3	[R] 2,249.2	[R] 4,549.5
1995	**6.8**	**1,793.7**	**157.8**	**9.9**	**293.3**	**461.1**	**19.1**	**2,280.7**	**2,387.3**	**4,668.0**

[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.

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 145. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Michigan

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.53**	**0.83**	**1.05**	**0.74**	**1.39**	**2.71**	**0.64**	**1.23**	**0.88**	**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	0.88	1.10	0.76	1.44	2.74	0.77	1.29	0.94	7.63	2.20
1973	0.63	0.93	1.21	0.86	1.52	3.16	0.78	1.45	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	**1.49**	**1.45**	**2.33**	**2.44**	**2.51**	**4.72**	**1.97**	**2.69**	**1.63**	**11.41**	**3.40**
1976	1.37	1.78	2.55	2.49	2.83	4.89	2.13	2.88	1.94	12.65	3.95
1977	1.40	2.08	2.98	2.98	3.42	5.23	2.64	3.29	2.31	13.63	4.96
1978	1.60	2.19	3.15	3.22	3.31	5.34	2.57	3.41	2.41	14.81	5.24
1979	1.72	2.53	4.77	4.08	3.99	7.29	3.16	4.88	2.77	15.64	5.51
1980	**1.82**	**3.13**	**6.53**	**6.14**	**5.16**	**10.09**	**3.97**	**6.86**	**3.53**	**17.60**	**6.38**
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	4.53	7.69	7.36	6.01	10.55	4.80	7.97	4.84	20.77	8.39
1983	2.03	5.42	6.58	7.34	6.56	9.34	4.65	7.11	5.57	21.26	9.26
1984	1.99	5.44	6.58	7.37	6.31	9.12	4.76	7.09	5.57	22.04	9.53
1985	**1.99**	**5.61**	**6.30**	**7.12**	[R] **8.66**	**9.10**	**4.39**	[R] **6.92**	**5.68**	**23.36**	**10.12**
1986	1.93	5.03	4.04	4.75	[R] 8.58	6.79	3.02	[R] 4.95	[R] 4.95	24.24	[R] 10.29
1987	1.73	4.88	4.45	5.35	[R] 8.07	7.13	2.90	[R] 5.69	4.92	22.31	9.12
1988	1.73	4.81	4.35	5.16	[R] 8.04	7.15	3.20	[R] 5.42	[R] 4.84	22.48	9.45
1989	1.68	4.61	4.77	5.85	[R] 8.63	7.77	3.13	[R] 6.09	[R] 4.72	23.20	9.51
1990	**1.77**	**4.43**	**5.63**	**6.18**	[R] **9.74**	**8.78**	**3.15**	[R] **7.16**	[R] **4.64**	**24.21**	**10.18**
1991	1.80	4.53	5.04	5.82	[R] 10.55	8.37	2.79	[R] 6.91	[R] 4.70	24.16	10.23
1992	1.73	4.48	4.77	5.85	[R] 10.16	8.16	2.66	[R] 6.71	[R] 4.64	24.44	[R] 10.11
1993	1.71	4.50	4.74	5.68	[R] 10.34	8.09	2.83	[R] 6.83	[R] 4.61	[R] 23.64	10.99
1994	1.70	4.53	4.50	[R] 5.39	[R] 8.17	8.29	2.81	[R] 6.17	[R] 4.59	23.44	10.95
1995	**1.72**	**4.28**	**4.48**	**5.20**	**8.25**	**8.40**	**2.57**	**5.77**	**4.34**	**23.27**	**10.59**
	Expenditures in Million Nominal Dollars										
1970	**7.0**	**111.4**	**21.4**	**1.7**	**4.2**	**11.4**	**2.2**	**40.9**	**159.3**	**316.4**	**475.7**
1971	7.5	127.0	24.5	1.8	4.6	11.2	2.1	44.1	178.7	346.4	525.2
1972	5.9	144.4	25.9	1.8	5.6	13.3	2.8	49.4	199.7	377.6	577.4
1973	5.8	173.0	27.6	1.5	5.9	15.6	2.5	53.1	231.9	426.3	658.2
1974	7.6	213.7	45.4	3.3	8.9	22.7	5.3	85.6	306.8	497.9	804.8
1975	**9.0**	**269.8**	**48.7**	**3.1**	**8.6**	**23.7**	**4.8**	**88.9**	**367.7**	**568.1**	**935.8**
1976	9.0	324.7	52.6	3.3	10.7	26.8	10.3	103.7	437.4	657.7	1,095.1
1977	7.9	277.9	61.6	3.4	12.1	27.2	15.6	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	59.1	2.4	8.9	27.3	9.6	107.3	580.9	889.8	1,470.8
1980	**8.8**	**606.7**	**118.8**	**0.5**	**11.3**	**43.6**	**5.6**	**179.8**	**795.3**	**1,006.9**	**1,802.2**
1981	6.1	668.6	110.6	0.8	10.8	51.1	3.9	177.2	851.9	1,121.5	1,973.4
1982	8.3	793.1	95.4	0.8	12.6	49.3	6.6	164.6	966.0	1,187.5	2,153.5
1983	5.3	900.7	95.5	0.7	16.3	41.4	1.8	155.7	1,061.8	1,246.0	2,307.8
1984	9.2	896.3	103.0	0.6	17.7	49.1	1.3	171.6	1,077.1	1,348.6	2,425.6
1985	**8.0**	**905.1**	**86.6**	**0.5**	[R] **24.4**	**33.4**	**7.6**	[R] **152.4**	[R] **1,065.5**	**1,468.2**	[R] **2,533.6**
1986	8.0	708.7	69.6	0.4	[R] 27.8	25.2	4.4	[R] 127.3	[R] 844.0	1,582.9	[R] 2,426.9
1987	3.3	935.4	45.3	0.4	[R] 32.4	27.2	2.4	[R] 107.7	[R] 1,046.4	1,511.3	[R] 2,557.7
1988	4.9	839.5	61.6	0.5	[R] 33.6	28.3	3.9	[R] 128.0	[R] 972.4	1,601.0	[R] 2,573.4
1989	4.8	854.5	57.7	1.9	[R] 40.1	27.4	1.8	[R] 128.8	[R] 988.1	1,700.0	[R] 2,688.1
1990	**7.7**	**738.2**	**56.8**	**0.6**	[R] **40.7**	**35.3**	**1.4**	[R] **134.9**	[R] **880.7**	[R] **1,815.9**	[R] **2,696.6**
1991	7.7	778.1	56.9	0.6	[R] 48.8	25.8	0.1	[R] 132.1	[R] 917.9	[R] 1,875.1	[R] 2,793.0
1992	5.3	808.2	49.1	0.2	[R] 47.6	23.7	0.2	[R] 120.8	[R] 934.2	1,876.7	[R] 2,810.9
1993	6.5	839.9	40.6	0.8	[R] 52.5	3.3	0.1	[R] 97.4	[R] 943.8	[R] 2,439.0	[R] 3,382.8
1994	7.8	856.8	37.6	1.0	[R] 41.4	15.8	0.1	[R] 95.8	[R] 960.4	2,500.6	[R] 3,461.1
1995	**7.0**	**865.6**	**46.2**	**3.0**	**42.3**	**3.4**	**0.1**	**94.9**	**967.5**	**2,553.0**	**3,520.5**

[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.

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 146. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Michigan

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**0.55**	**0.53**	**0.54**	**0.53**	**0.84**	**0.68**	**0.74**	**1.39**	**5.08**	**2.71**	**0.54**	**1.25**	**1.27**	**—**	**0.71**	**3.74**	**1.01**
1971	0.66	0.57	0.61	0.56	0.92	0.70	0.76	1.39	5.27	2.76	0.65	R 1.32	1.28	—	0.74	3.98	1.09
1972	0.72	0.61	0.66	0.61	0.97	0.70	0.76	1.44	5.58	2.74	0.67	R 1.31	1.26	—	0.79	4.17	1.17
1973	0.79	0.63	0.71	0.67	0.97	0.79	0.86	1.52	5.33	3.16	0.82	R 1.47	1.43	—	0.87	4.48	1.31
1974	1.65	1.06	1.36	0.89	1.82	2.06	2.23	2.46	7.22	4.55	1.72	R 2.42	R 2.55	—	1.45	6.07	2.03
1975	**2.07**	**1.49**	**1.82**	**1.22**	**2.12**	**2.27**	**2.44**	**2.51**	**7.48**	**4.72**	**1.98**	**R 2.90**	**R 2.82**	**—**	**1.81**	**7.83**	**2.54**
1976	1.99	1.37	1.70	1.51	2.12	2.31	2.49	2.83	7.05	4.89	1.85	R 3.07	2.82	—	1.92	8.47	2.81
1977	2.01	1.40	1.74	1.80	2.11	2.73	2.98	3.42	6.97	5.23	2.18	R 3.37	R 3.09	—	2.20	9.18	3.25
1978	2.10	1.60	1.85	1.91	2.22	2.94	3.22	3.31	7.60	5.34	2.16	R 3.48	R 3.27	—	2.35	10.29	3.59
1979	2.20	1.72	1.97	2.26	2.66	3.76	4.08	3.99	10.21	7.29	2.34	R 4.88	R 4.45	—	2.81	11.04	R 4.06
1980	**2.27**	**1.82**	**2.04**	**2.87**	**4.04**	**5.56**	**6.14**	**5.16**	**14.36**	**10.09**	**3.23**	**R 7.75**	**R 6.76**	**—**	**3.68**	**13.18**	**5.00**
1981	2.41	2.13	2.27	3.46	5.52	6.45	7.04	5.70	18.00	11.00	4.09	R 9.14	R 8.05	—	4.14	14.93	R 5.80
1982	2.47	2.25	2.36	4.20	4.14	6.66	7.36	6.01	17.25	10.55	4.12	R 8.35	R 7.51	—	R 4.30	16.52	R 6.24
1983	2.19	2.03	2.10	4.93	4.56	6.73	7.34	6.56	16.98	9.34	4.02	R 7.89	R 7.40	—	R 4.49	16.15	R 6.62
1984	2.16	1.99	2.06	4.82	4.85	6.61	7.37	6.31	17.63	9.12	4.76	R 8.18	R 7.88	—	R 4.54	15.97	R 6.73
1985	**2.08**	**1.99**	**2.03**	**4.95**	**5.00**	**6.38**	**7.12**	**R 8.66**	**17.61**	**9.10**	**4.39**	**R 7.75**	**R 7.94**	**—**	**R 4.75**	**16.75**	**R 7.01**
1986	1.95	1.93	1.94	4.40	3.59	4.26	4.75	R 8.58	15.59	6.79	3.02	R 5.40	R 6.22	—	4.09	16.88	6.49
1987	1.85	1.73	1.76	4.29	3.40	4.79	5.35	R 8.07	R 13.58	7.13	2.90	R 6.16	R 6.35	—	R 4.28	15.95	R 6.93
1988	1.73	1.73	1.73	4.19	3.21	4.63	5.16	R 8.04	R 14.62	7.15	3.20	R 5.25	R 6.11	—	R 4.11	15.94	R 6.53
1989	1.75	1.68	1.69	4.01	2.84	5.24	5.85	R 8.63	14.48	7.77	3.13	R 5.71	6.45	—	R 4.19	16.28	6.69
1990	**1.80**	**1.77**	**1.78**	**3.72**	**3.06**	**5.54**	**6.18**	**R 9.74**	**14.60**	**8.78**	**3.15**	**R 6.38**	**R 6.82**	**d R 1.32**	**d 3.97**	**R 17.15**	**d R 6.26**
1991	1.72	1.80	1.78	3.85	2.87	5.22	5.82	R 10.55	R 16.80	8.37	2.79	R 5.59	R 6.77	1.40	R 4.20	R 17.26	6.55
1992	—	1.73	1.73	3.78	2.25	5.24	5.85	R 10.16	R 18.32	8.16	2.66	R 5.63	R 6.74	R 1.38	R 4.21	17.29	R 6.52
1993	1.68	1.71	1.71	3.78	2.99	5.09	5.68	R 10.34	R 18.96	8.09	2.83	R 5.06	R 6.15	R 1.34	3.99	15.65	R 5.79
1994	1.57	1.70	1.65	3.80	2.98	4.83	5.39	R 7.16	R 19.11	8.29	2.81	R 4.92	R 5.99	R 1.32	3.83	15.37	R 5.60
1995	**1.57**	**1.72**	**1.66**	**3.47**	**3.26**	**4.66**	**5.20**	**7.56**	**19.40**	**8.40**	**2.57**	**5.25**	**6.16**	**1.31**	**3.67**	**15.02**	**5.45**
	Expenditures in Million Nominal Dollars																
1970	**73.4**	**99.3**	**172.7**	**136.5**	**21.5**	**33.3**	**9.2**	**4.3**	**56.5**	**39.2**	**12.0**	**R 56.5**	**232.5**	**—**	**541.7**	**317.2**	**858.9**
1971	88.7	106.1	194.7	151.6	23.0	37.9	8.7	4.1	47.3	36.2	11.3	R 51.6	R 220.0	—	R 566.4	366.5	R 932.9
1972	103.6	115.5	219.2	169.6	29.7	40.4	7.1	4.5	53.6	29.8	16.9	R 56.6	R 238.7	—	R 627.5	420.3	R 1,047.8
1973	108.2	92.4	200.5	220.9	34.5	46.7	6.2	5.6	66.9	38.3	18.8	R 69.6	R 286.6	—	R 708.0	499.1	R 1,207.2
1974	176.3	109.7	286.0	285.8	59.0	105.3	12.4	11.0	86.9	42.0	36.5	R 116.6	R 469.7	—	R 1,041.5	622.1	R 1,663.6
1975	**290.3**	**158.8**	**449.1**	**362.3**	**54.6**	**115.9**	**11.4**	**11.2**	**64.9**	**46.9**	**32.6**	**R 131.1**	**R 468.7**	**—**	**R 1,280.0**	**764.8**	**R 2,044.9**
1976	239.1	144.1	383.1	455.5	49.0	107.5	14.2	17.6	67.9	43.3	60.1	R 179.5	R 539.1	—	R 1,377.8	950.7	R 2,328.5
1977	213.5	115.6	329.1	467.4	58.0	132.6	16.0	25.9	75.9	41.1	83.8	R 226.9	R 660.2	—	R 1,456.8	1,071.6	R 2,528.3
1978	177.6	133.2	310.8	508.6	64.3	150.4	16.9	29.9	88.9	38.9	64.0	R 257.4	R 710.6	—	R 1,530.0	1,240.0	R 2,770.0
1979	237.7	174.5	412.3	589.2	73.4	118.7	29.8	46.6	124.9	33.4	41.8	R 388.7	R 857.3	—	R 1,858.7	1,316.0	R 3,174.7
1980	**250.1**	**198.2**	**448.3**	**700.3**	**94.0**	**155.7**	**39.5**	**49.7**	**156.4**	**51.3**	**56.3**	**R 616.1**	**R 1,219.1**	**—**	**R 2,367.7**	**1,367.4**	**R 3,735.1**
1981	245.7	215.8	461.5	768.1	130.1	200.1	30.6	36.5	188.1	51.4	41.1	R 418.7	R 1,096.6	—	R 2,326.2	1,522.9	R 3,849.1
1982	229.3	205.6	435.0	752.9	71.4	171.5	6.9	63.0	164.3	45.6	49.2	R 305.9	R 877.9	—	R 2,065.7	1,497.9	R 3,563.6
1983	164.0	190.0	353.9	822.5	82.8	144.5	4.2	52.2	169.4	29.2	55.5	R 291.6	R 829.4	—	R 2,005.8	1,617.5	R 3,623.3
1984	149.6	197.8	347.4	895.4	89.7	153.5	2.7	41.8	187.6	39.8	36.5	R 314.6	R 866.1	—	R 2,108.9	1,756.5	R 3,865.3
1985	**149.7**	**194.6**	**344.4**	**884.9**	**92.2**	**157.4**	**2.8**	**R 264.8**	**174.6**	**56.9**	**30.5**	**R 278.0**	**R 1,057.2**	**—**	**R 2,286.5**	**1,880.0**	**R 4,166.4**
1986	140.3	190.9	331.2	759.6	80.6	113.8	1.6	R 288.4	151.1	41.1	26.9	R 217.1	R 920.7	—	R 2,011.5	1,909.5	R 3,921.0
1987	53.0	164.6	217.5	526.4	79.0	118.7	2.5	R 287.9	R 148.8	42.8	25.8	R 246.8	R 952.3	—	R 1,696.3	1,858.0	R 3,554.3
1988	38.0	187.6	225.5	800.5	61.2	134.1	1.6	R 266.6	154.5	40.0	29.6	R 208.3	R 895.9	—	R 1,922.0	1,923.4	R 3,845.4
1989	44.2	157.2	201.4	782.3	72.8	115.0	2.3	R 311.5	157.0	43.8	24.2	R 221.8	R 948.4	—	R 1,932.1	1,957.3	R 3,889.4
1990	**51.3**	**158.4**	**209.7**	**1,041.2**	**80.1**	**109.9**	**1.2**	**R 232.8**	**R 162.9**	**44.8**	**20.4**	**R 271.4**	**R 923.5**	**d R 28.2**	**d R 2,202.6**	**R 1,999.1**	**d R 4,201.7**
1991	26.3	138.7	164.9	1,032.4	66.0	139.0	2.1	R 267.6	167.6	48.8	7.9	R 296.0	R 995.1	R 31.2	R 2,223.6	R 2,008.1	R 4,231.8
1992	—	131.8	131.8	1,143.2	53.0	141.1	1.4	R 280.3	R 186.4	40.7	7.9	R 307.4	R 1,018.2	R 30.8	R 2,324.1	R 2,049.7	R 4,373.8
1993	(s)	133.9	133.9	1,161.1	88.4	132.8	2.3	R 124.6	R 196.4	43.9	11.3	R 277.6	R 877.4	R 34.1	R 2,206.5	R 1,589.7	R 3,796.2
1994	58.3	119.0	177.3	1,227.5	71.2	132.8	1.8	R 113.1	R 207.0	50.8	10.7	R 271.7	R 859.2	R 36.1	R 2,300.1	R 1,672.9	R 3,973.0
1995	**59.1**	**114.0**	**173.1**	**1,126.6**	**107.3**	**101.2**	**0.9**	**128.4**	**206.5**	**57.8**	**3.4**	**274.7**	**880.1**	**45.9**	**2,225.8**	**1,695.7**	**3,921.5**

[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=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 147. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Michigan

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.53**	**—**	**2.17**	**1.27**	**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	—	2.36	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	4.55	1.59	4.25	4.24	—	4.24
1975	**1.49**	**—**	**3.45**	**2.77**	**2.08**	**2.51**	**7.48**	**4.72**	**1.76**	**4.46**	**4.46**	**—**	**4.46**
1976	1.37	—	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	4.95	4.95	—	4.95
1978	—	—	4.29	3.56	2.87	3.31	7.60	5.34	2.23	5.07	5.07	—	5.07
1979	—	—	5.73	5.18	3.92	3.99	10.21	7.29	2.84	6.93	6.93	—	6.93
1980	**—**	**—**	**9.02**	**7.19**	**6.38**	**5.16**	**14.36**	**10.09**	**3.49**	**9.63**	**9.63**	**—**	**9.63**
1981	—	—	10.84	8.64	7.55	5.70	18.00	11.00	5.21	10.62	10.62	—	10.62
1982	—	—	10.92	8.34	7.22	6.01	17.25	10.55	4.68	10.22	10.22	—	10.22
1983	—	—	10.44	8.26	6.65	6.56	16.98	9.34	4.49	9.17	9.17	—	9.17
1984	—	—	10.27	8.65	6.39	6.31	17.63	9.12	4.44	9.03	9.03	—	9.03
1985	**—**	**—**	**9.99**	**8.55**	**6.09**	**[R] 8.66**	**17.61**	**9.10**	**4.38**	**8.96**	**8.96**	**—**	**8.96**
1986	—	—	8.41	6.69	4.20	[R] 8.58	15.59	6.79	2.45	6.73	6.73	—	6.73
1987	—	—	7.55	6.86	4.09	[R] 8.07	[R] 13.58	7.13	2.90	[R] 6.97	[R] 6.97	—	[R] 6.97
1988	—	—	7.41	6.50	3.85	[R] 8.04	[R] 14.62	7.15	2.26	6.93	6.93	—	6.93
1989	—	—	8.28	6.94	4.39	[R] 8.63	14.48	7.77	2.49	[R] 7.50	[R] 7.50	—	[R] 7.50
1990	**—**	**1.94**	**9.32**	**8.24**	**5.65**	**[R] 9.74**	**14.60**	**8.78**	**2.42**	**[R] 8.53**	**[R] 8.53**	**—**	**[R] 8.53**
1991	—	2.07	8.71	7.88	4.94	[R] 10.55	[R] 16.80	8.37	2.09	8.12	8.12	[R] 26.86	8.12
1992	—	0.95	8.54	7.74	4.57	[R] 10.16	[R] 18.32	8.16	2.14	[R] 7.92	[R] 7.92	[R] 27.25	[R] 7.93
1993	—	3.25	8.24	7.78	4.26	[R] 10.34	[R] 18.96	8.09	2.46	7.86	7.86	[R] 26.81	7.86
1994	—	2.75	7.96	7.79	3.91	[R] 9.14	[R] 19.11	8.29	2.62	8.00	8.00	[R] 30.90	8.00
1995	**—**	**2.96**	**8.36**	**7.67**	**3.93**	**9.55**	**19.40**	**8.40**	**2.66**	**8.11**	**8.11**	**31.39**	**8.11**
	Expenditures in Million Nominal Dollars												
1970	**0.3**	**—**	**7.9**	**46.9**	**30.4**	**0.3**	**40.8**	**1,327.5**	**1.5**	**1,455.3**	**1,455.6**	**—**	**1,455.6**
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	72.6	28.9	0.5	47.4	1,469.6	1.2	1,625.7	1,625.9	—	1,625.9
1973	0.1	—	6.9	100.3	35.0	0.6	51.8	1,775.6	1.9	1,972.2	1,972.4	—	1,972.4
1974	0.1	—	3.3	152.3	56.1	0.9	67.3	2,492.9	4.5	2,777.4	2,777.6	—	2,777.6
1975	**0.1**	**—**	**6.0**	**144.2**	**65.8**	**0.9**	**60.0**	**2,615.8**	**4.7**	**2,897.4**	**2,897.5**	**—**	**2,897.5**
1976	(s)	—	6.9	167.1	74.5	1.7	62.8	2,846.8	3.5	3,163.3	3,163.4	—	3,163.4
1977	(s)	—	8.8	208.5	92.9	2.7	62.4	3,087.1	4.0	3,466.4	3,466.4	—	3,466.4
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	145.2	3.3	102.7	4,086.6	3.7	4,697.1	4,697.1	—	4,697.1
1980	**—**	**—**	**22.2**	**408.1**	**236.9**	**2.4**	**128.6**	**5,049.8**	**5.1**	**5,853.1**	**5,853.1**	**—**	**5,853.1**
1981	—	—	13.7	522.8	258.5	6.3	154.7	5,256.3	9.8	6,222.0	6,222.0	—	6,222.0
1982	—	—	8.7	464.9	229.9	5.9	135.2	4,792.7	1.9	5,639.1	5,639.1	—	5,639.1
1983	—	—	17.1	509.3	218.7	7.6	139.3	4,279.9	2.8	5,174.7	5,174.7	—	5,174.7
1984	—	—	9.4	569.6	213.3	9.9	154.3	4,365.6	1.5	5,323.5	5,323.5	—	5,323.5
1985	**—**	**—**	**10.1**	**607.5**	**223.6**	**[R] 9.1**	**143.6**	**4,375.0**	**2.7**	**[R] 5,371.5**	**[R] 5,371.5**	**—**	**[R] 5,371.5**
1986	—	—	10.6	488.8	167.7	[R] 8.8	124.3	3,357.5	0.5	[R] 4,158.3	[R] 4,158.3	—	[R] 4,158.3
1987	—	—	9.2	546.8	191.9	[R] 10.0	[R] 122.4	3,636.2	0.9	[R] 4,517.4	[R] 4,517.4	—	[R] 4,517.4
1988	—	—	9.0	525.7	185.4	[R] 10.1	127.0	3,780.3	0.4	[R] 4,638.1	[R] 4,638.1	—	[R] 4,638.1
1989	—	—	11.2	558.0	227.7	[R] 9.0	129.1	4,055.9	1.8	[R] 4,992.7	[R] 4,992.7	—	[R] 4,992.7
1990	**—**	**(s)**	**10.1**	**656.3**	**319.7**	**[R] 10.1**	**133.9**	**4,501.7**	**1.4**	**[R] 5,633.3**	**[R] 5,633.3**	**—**	**[R] 5,633.3**
1991	—	(s)	9.0	625.2	283.9	[R] 10.0	137.8	4,381.9	0.7	[R] 5,448.5	[R] 5,448.5	0.4	[R] 5,448.9
1992	—	(s)	7.8	648.5	260.5	[R] 9.3	[R] 153.3	4,279.3	1.3	[R] 5,360.0	[R] 5,360.0	0.3	[R] 5,360.3
1993	—	(s)	8.2	827.7	247.7	[R] 10.2	[R] 161.5	4,449.4	1.1	[R] 5,705.9	[R] 5,706.0	0.4	[R] 5,706.3
1994	—	(s)	9.5	855.0	227.5	[R] 15.6	[R] 170.2	4,540.6	1.6	[R] 5,820.0	[R] 5,820.0	0.4	[R] 5,820.4
1995	**—**	**0.1**	**9.8**	**852.8**	**196.3**	**8.3**	**169.8**	**4,813.9**	**1.6**	**6,052.4**	**6,052.5**	**0.4**	**6,052.9**

[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 148. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Michigan

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.36**	**0.42**	**0.63**	**0.65**	**—**	**0.63**	**0.36**	**—**	**0.38**
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	0.65	0.78	1.04	—	0.81	0.24	—	0.51
1974	0.83	0.99	1.70	1.98	—	1.74	0.25	—	0.96
1975	**0.92**	**1.28**	**1.97**	**2.05**	**—**	**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	—	1.36
1979	1.46	2.35	3.16	4.03	—	3.18	0.38	1.56	1.48
1980	**1.56**	**2.74**	**4.10**	**6.07**	**—**	**4.24**	**0.49**	**—**	**1.58**
1981	1.75	3.29	5.67	7.44	—	5.85	0.50	—	1.67
1982	1.94	3.85	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	4.55	4.68	5.98	—	5.19	0.69	—	1.72
1985	**1.88**	**4.43**	**4.64**	**5.60**	**—**	**5.15**	**0.80**	**—**	**1.72**
1986	1.81	3.64	2.58	3.44	—	2.83	0.77	—	1.66
1987	1.75	2.76	3.14	3.98	—	3.35	0.77	—	1.60
1988	1.76	2.56	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	**1.60**	**2.11**	**2.89**	**4.60**	**—**	**3.26**	**0.79**	**—**	**1.41**
1991	1.59	1.96	2.44	4.51	—	2.89	0.65	—	1.32
1992	1.56	1.95	2.44	4.39	—	2.92	0.67	—	1.36
1993	1.53	2.42	2.77	3.97	—	3.05	0.60	—	1.25
1994	1.51	2.40	2.76	3.67	—	2.95	0.52	—	1.35
1995	**1.45**	**2.00**	**2.62**	**3.90**	**—**	**2.94**	**0.65**	**—**	**1.25**
	Expenditures in Million Nominal Dollars								
1970	**173.4**	**27.2**	**17.9**	**3.6**	**—**	**21.5**	**1.5**	**—**	**223.6**
1971	207.4	33.1	32.6	7.5	—	40.1	1.2	—	281.8
1972	221.9	28.6	36.8	10.5	—	47.2	5.9	—	303.6
1973	233.8	27.7	52.2	8.4	—	60.6	7.9	—	329.9
1974	404.9	51.9	125.3	23.1	—	148.4	1.2	—	606.4
1975	**456.8**	**60.7**	**174.9**	**18.4**	**—**	**193.2**	**22.2**	**—**	**733.0**
1976	489.4	65.7	192.4	24.1	—	216.6	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	799.5	60.1	299.5	12.2	—	311.7	63.0	(s)	1,234.4
1980	**832.3**	**53.2**	**248.2**	**27.5**	**—**	**275.7**	**85.1**	**—**	**1,246.3**
1981	959.9	41.3	192.3	27.7	—	220.0	93.9	—	1,315.1
1982	1,010.3	32.4	62.6	20.8	—	83.3	88.3	—	1,214.2
1983	1,011.2	11.8	27.6	16.0	—	43.7	105.4	—	1,172.0
1984	1,094.1	26.1	22.9	19.1	—	41.9	104.9	—	1,267.0
1985	**1,138.3**	**20.6**	**15.2**	**21.1**	**—**	**36.3**	**117.0**	**—**	**1,312.2**
1986	1,149.5	13.8	18.8	10.3	—	29.0	102.1	—	1,294.4
1987	1,250.9	12.0	22.1	9.4	—	31.5	119.2	—	1,413.6
1988	1,222.8	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	**1,058.2**	**10.8**	**20.9**	**9.1**	**—**	**30.0**	**181.4**	**—**	**1,280.4**
1991	1,052.0	18.1	14.5	7.5	—	22.0	189.1	—	1,281.2
1992	966.2	20.1	12.8	7.5	—	20.2	135.5	—	1,142.1
1993	953.5	17.3	18.3	7.9	—	26.1	183.3	—	1,180.3
1994	1,023.6	17.6	19.3	6.8	—	26.1	78.5	—	1,145.8
1995	**964.3**	**26.1**	**18.1**	**9.3**	**—**	**27.4**	**170.3**	**—**	**1,188.0**

[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 149. Energy Price and Expenditure Estimates by Source, 1970-1995, Minnesota

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	**0.53**	**0.40**	**0.41**	**0.66**	**1.08**	**0.75**	**1.80**	**2.97**	**0.59**	**[R] 1.31**	**[R] 2.00**	**—**	**0.65**	**1.27**	**0.34**	**6.10**	**1.86**
1971	0.71	0.46	0.48	0.72	1.10	0.78	1.77	2.97	0.69	[R] 1.53	2.05	0.15	0.69	1.33	0.36	6.28	1.92
1972	0.68	0.43	0.46	0.78	1.09	0.78	1.87	2.97	0.66	[R] 1.53	[R] 1.98	0.16	0.72	1.32	0.39	6.54	1.97
1973	0.79	0.41	0.48	0.82	1.40	0.93	3.00	3.12	0.79	[R] 1.45	[R] 2.21	0.16	0.77	1.45	0.40	6.56	2.12
1974	1.44	0.56	0.66	0.96	2.36	1.60	3.19	4.33	1.70	[R] 2.50	[R] 3.24	0.23	0.84	1.99	0.50	7.53	2.83
1975	**1.80**	**0.69**	**0.83**	**1.17**	**2.51**	**2.09**	**3.67**	**4.63**	**1.80**	**[R] 2.80**	**[R] 3.56**	**0.24**	**0.92**	**2.13**	**0.52**	**8.64**	**3.18**
1976	1.82	0.76	0.84	1.39	2.67	2.26	4.14	4.90	1.73	[R] 2.58	3.69	0.25	0.98	2.27	0.58	9.24	3.45
1977	1.81	0.81	0.87	1.62	3.05	2.69	4.26	5.21	2.04	[R] 2.70	4.05	0.27	1.04	2.43	0.64	10.34	3.88
1978	2.44	0.87	0.96	1.85	3.21	2.90	4.38	5.06	2.03	[R] 2.89	[R] 4.06	0.31	1.12	2.53	0.69	10.79	[R] 4.02
1979	2.20	1.07	1.08	2.17	4.76	4.03	4.53	7.01	2.51	[R] 3.85	[R] 5.67	0.35	1.56	3.34	0.82	11.11	5.07
1980	**—**	**1.12**	**1.12**	**2.85**	**6.72**	**6.47**	**5.82**	**9.55**	**3.52**	**[R] 5.47**	**[R] 7.87**	**0.44**	**1.74**	**[R] 4.41**	**0.91**	**13.26**	**6.91**
1981	—	1.22	1.22	3.65	7.84	7.60	6.34	10.56	4.52	[R] 7.91	[R] 9.16	0.46	—	5.06	0.96	14.57	[R] 8.10
1982	—	1.40	1.40	4.57	7.94	7.19	7.20	10.51	4.09	[R] 6.31	[R] 8.97	0.44	1.28	[R] 5.41	1.02	16.13	[R] 8.47
1983	—	1.49	1.49	5.18	7.75	6.39	7.56	9.52	3.99	[R] 6.18	[R] 8.41	0.49	1.12	[R] 5.24	1.06	16.46	[R] 8.52
1984	—	1.45	1.45	5.32	7.78	6.27	7.52	9.39	4.44	[R] 6.69	[R] 8.36	0.53	1.28	[R] 5.42	1.14	15.70	[R] 8.44
1985	**—**	**1.51**	**1.51**	**5.13**	**7.59**	**5.93**	**[R] 8.36**	**9.73**	**4.05**	**[R] 6.41**	**[R] 8.41**	**0.50**	**—**	**[R] 5.26**	**1.09**	**15.81**	**[R] 8.40**
1986	—	1.44	1.44	4.61	5.69	4.04	[R] 8.20	7.42	2.88	[R] 5.24	[R] 6.44	0.50	—	[R] 4.36	1.03	16.07	[R] 7.28
1987	—	1.26	1.26	3.72	6.01	4.15	[R] 6.96	7.71	2.43	[R] 4.83	[R] 6.64	0.51	0.95	4.02	0.99	15.72	[R] 7.27
1988	—	1.25	1.25	3.87	5.89	3.94	[R] 7.60	7.81	2.36	[R] 4.99	[R] 6.74	0.49	0.87	[R] 3.97	0.99	15.80	[R] 7.35
1989	—	1.26	1.26	3.87	6.57	4.47	[R] 8.85	8.72	2.38	[R] 4.47	[R] 7.43	0.49	0.88	4.24	1.01	15.57	[R] 7.60
1990	**—**	**1.32**	**1.32**	**3.87**	**8.05**	**5.68**	**[R] 9.13**	**9.56**	**2.50**	**[R] 4.50**	**[R] 8.24**	**0.48**	**[d R] 1.72**	**[d R] 4.49**	**1.03**	**15.68**	**[d R] 8.02**
1991	—	1.30	1.30	3.70	7.09	4.87	[R] 8.15	9.31	2.11	[R] 4.70	[R] 7.83	0.47	[R] 1.77	[R] 4.40	1.02	[R] 16.06	[R] 7.84
1992	—	1.24	1.24	3.99	6.94	4.64	[R] 7.24	9.11	1.79	[R] 4.55	[R] 7.55	0.44	[R] 1.74	[R] 4.44	0.97	16.23	[R] 7.77
1993	—	1.21	1.21	4.36	6.98	4.33	[R] 8.81	9.26	2.18	[R] 4.71	[R] 7.66	0.41	1.63	4.52	0.93	16.46	[R] 7.91
1994	—	1.22	1.22	4.16	7.00	3.96	[R] 7.95	9.42	2.17	[R] 4.90	[R] 7.67	0.47	[R] 1.62	[R] 4.52	0.95	16.55	[R] 7.92
1995	**—**	**1.21**	**1.21**	**3.73**	**6.98**	**4.00**	**8.12**	**9.39**	**2.41**	**4.83**	**7.66**	**0.48**	**1.60**	**4.41**	**0.94**	**16.40**	**7.72**
	Expenditures in Million Nominal Dollars																
1970	**8.6**	**65.5**	**74.1**	**220.6**	**140.5**	**14.7**	**60.1**	**688.9**	**14.9**	**[R] 69.4**	**[R] 988.5**	**—**	**0.1**	**[R] 1,283.3**	**-65.3**	**427.5**	**[R] 1,645.5**
1971	10.0	65.1	75.1	246.1	152.5	17.7	62.7	715.1	11.9	[R] 80.6	[R] 1,040.5	2.3	0.1	[R] 1,364.1	-65.0	460.4	[R] 1,759.4
1972	11.0	63.2	74.2	269.9	164.8	20.0	72.8	743.9	24.7	[R] 86.1	[R] 1,112.4	6.2	0.2	[R] 1,462.8	-86.8	517.1	[R] 1,893.1
1973	24.0	62.0	85.9	289.2	218.5	27.2	110.1	806.5	29.2	[R] 89.7	[R] 1,281.3	5.6	0.2	[R] 1,662.1	-93.0	546.8	[R] 2,116.0
1974	29.2	94.9	124.1	333.3	343.8	50.3	110.1	1,089.0	52.6	[R] 149.9	[R] 1,795.7	11.2	(s)	[R] 2,264.4	-120.8	626.0	[R] 2,769.5
1975	**45.4**	**114.4**	**159.8**	**381.4**	**355.7**	**66.5**	**124.8**	**1,172.9**	**38.4**	**[R] 145.5**	**[R] 1,903.9**	**25.5**	**(s)**	**[R] 2,470.6**	**-144.2**	**769.9**	**[R] 3,096.3**
1976	31.4	155.3	186.7	437.6	441.7	68.0	133.8	1,285.7	50.0	[R] 150.6	[R] 2,129.7	26.8	(s)	[R] 2,780.9	-182.1	874.2	[R] 3,473.0
1977	31.5	199.6	231.1	466.3	479.0	80.2	129.4	1,394.2	45.1	[R] 153.1	[R] 2,280.9	32.3	(s)	[R] 3,010.6	-229.3	981.6	[R] 3,763.0
1978	35.8	209.9	245.7	570.4	536.4	83.6	116.5	1,407.6	43.3	[R] 165.5	[R] 2,353.0	38.7	(s)	[R] 3,207.8	-242.3	1,150.0	[R] 4,115.4
1979	2.7	244.3	247.0	696.9	748.6	128.6	135.7	1,857.8	22.5	[R] 200.5	[R] 3,093.8	43.7	(s)	[R] 4,081.5	-274.9	1,251.0	[R] 5,057.7
1980	**—**	**270.7**	**270.7**	**785.0**	**837.2**	**188.3**	**163.0**	**2,319.4**	**56.3**	**[R] 222.6**	**[R] 3,786.8**	**48.6**	**(s)**	**[R] 4,891.1**	**-311.3**	**1,481.2**	**[R] 6,061.1**
1981	—	297.5	297.5	915.5	853.1	194.2	136.7	2,497.5	37.9	[R] 314.8	[R] 4,034.0	51.9	—	[R] 5,298.8	-325.0	1,704.2	[R] 6,678.0
1982	—	296.7	296.7	1,149.6	966.2	173.3	192.1	2,477.9	33.9	[R] 251.6	[R] 4,095.2	50.0	0.1	[R] 5,591.6	-312.4	1,836.9	[R] 7,116.1
1983	—	314.6	314.6	1,240.0	784.4	146.0	204.3	2,303.1	27.4	[R] 285.7	[R] 3,750.8	62.8	(s)	[R] 5,368.3	-338.7	1,998.7	[R] 7,028.3
1984	—	335.9	335.9	1,313.5	824.2	260.1	133.5	2,371.3	19.4	[R] 319.7	[R] 3,928.2	48.3	(s)	[R] 5,625.9	-342.9	2,026.6	[R] 7,309.6
1985	**—**	**341.4**	**341.4**	**1,283.0**	**856.7**	**261.4**	**[R] 159.2**	**2,335.5**	**15.8**	**[R] 317.5**	**[R] 3,946.1**	**62.5**	**—**	**[R] 5,633.1**	**-355.5**	**2,062.8**	**[R] 7,340.4**
1986	—	290.7	290.7	1,084.8	625.5	178.6	[R] 185.2	1,784.2	22.2	[R] 271.5	[R] 3,067.2	59.2	—	[R] 4,501.8	-307.0	2,097.2	[R] 6,292.0
1987	—	323.6	323.6	856.2	639.4	132.8	[R] 136.6	1,899.3	13.6	[R] 264.3	[R] 3,085.9	63.1	0.4	[R] 4,329.3	-362.5	2,211.9	[R] 6,178.7
1988	—	378.2	378.2	1,051.7	682.0	114.7	[R] 154.5	2,005.6	14.4	[R] 247.2	[R] 3,218.3	64.2	1.4	[R] 4,713.8	-419.5	2,433.7	[R] 6,728.0
1989	—	405.5	405.5	1,108.8	734.0	118.0	[R] 194.3	2,224.8	12.4	[R] 240.2	[R] 3,523.8	57.4	2.3	[R] 5,097.7	-432.8	2,409.9	[R] 7,074.7
1990	**—**	**429.1**	**429.1**	**1,066.5**	**866.5**	**164.0**	**[R] 193.7**	**2,385.6**	**12.2**	**[R] 273.4**	**[R] 3,895.4**	**61.7**	**[d R] 31.6**	**[d R] 5,484.3**	**-452.8**	**[R] 2,491.4**	**[d R] 7,523.0**
1991	—	390.2	390.2	1,110.6	876.8	137.3	[R] 191.8	2,398.2	10.0	[R] 276.9	[R] 3,891.0	60.7	[R] 33.9	[R] 5,486.3	-438.2	[R] 2,637.3	[R] 7,685.4
1992	—	371.0	371.0	1,170.0	874.6	173.8	[R] 207.9	2,379.8	9.2	[R] 282.5	[R] 3,927.9	52.0	[R] 34.1	[R] 5,554.9	-401.8	[R] 2,592.1	[R] 7,745.3
1993	—	392.2	392.2	1,354.6	855.8	231.3	[R] 280.7	2,496.0	12.0	[R] 278.4	[R] 4,154.3	52.9	[R] 32.6	[R] 5,986.5	-409.7	[R] 2,727.8	[R] 8,304.6
1994	—	406.4	406.4	1,270.4	965.1	219.2	[R] 267.9	2,600.4	10.2	[R] 292.0	[R] 4,354.8	61.2	[R] 32.8	[R] 6,125.6	-425.3	2,851.7	[R] 8,552.0
1995	**—**	**409.5**	**409.5**	**1,241.8**	**998.1**	**226.1**	**283.4**	**2,679.9**	**6.0**	**332.0**	**4,525.5**	**67.1**	**37.1**	**6,281.0**	**-438.3**	**2,983.1**	**8,825.8**

[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 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.
(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 150. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Minnesota

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.55**	**1.09**	**1.26**	**1.52**	**2.03**	**1.54**	**—**	**1.29**	**7.30**	**2.17**
1971	1.14	1.18	1.30	1.54	1.95	1.54	—	1.33	7.53	2.24
1972	1.04	1.23	1.30	1.57	2.08	1.58	—	1.38	7.86	2.35
1973	1.13	1.30	1.62	1.79	3.69	2.32	—	1.73	7.97	2.72
1974	3.23	1.41	2.52	2.77	3.50	2.86	—	1.98	8.94	3.06
1975	**3.04**	**1.57**	**2.55**	**2.91**	**4.22**	**3.12**	**—**	**2.15**	**9.90**	**3.38**
1976	2.98	1.74	2.80	3.16	4.66	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	4.26
1978	3.88	2.41	3.45	3.92	4.79	3.78	—	2.96	12.34	4.64
1979	4.17	2.88	5.22	5.41	5.96	5.39	—	3.70	12.61	5.39
1980	**4.32**	**3.24**	**7.20**	**8.02**	**7.34**	**7.25**	**—**	**4.47**	**16.06**	**6.92**
1981	3.53	4.11	8.54	9.82	7.37	8.26	—	5.29	17.29	8.14
1982	5.14	4.94	8.30	9.82	9.19	8.53	—	6.02	18.37	8.71
1983	4.53	5.77	7.88	8.93	8.71	8.22	—	6.34	19.41	9.70
1984	5.09	5.98	7.96	9.01	8.70	8.22	—	6.47	18.89	9.57
1985	**4.10**	**5.78**	**7.79**	**8.82**	**7.79**	**7.81**	**—**	**6.22**	**19.01**	**9.34**
1986	3.89	5.28	6.05	6.85	7.53	6.51	—	5.57	19.41	8.98
1987	3.81	4.58	5.70	6.45	7.40	6.22	—	5.01	19.38	8.98
1988	3.51	4.61	5.62	6.36	7.03	6.03	—	4.95	19.82	8.76
1989	3.49	4.54	6.30	7.13	10.03	7.43	—	5.24	19.71	8.74
1990	**3.46**	**4.61**	**7.75**	**8.77**	**8.35**	**7.97**	**[d] 3.56**	**[d] 5.28**	**19.94**	**[d] 8.78**
1991	3.81	4.47	6.96	7.88	7.42	7.12	3.56	5.04	[R] 20.27	8.54
1992	3.47	4.81	6.29	7.12	8.37	7.11	3.56	5.27	[R] 20.54	8.71
1993	3.28	5.25	6.36	7.20	8.24	7.22	3.56	5.63	[R] 20.77	9.03
1994	3.28	5.12	6.16	6.97	[R] 8.56	[R] 7.22	3.56	[R] 5.53	[R] 20.99	[R] 9.09
1995	**3.48**	**4.74**	**6.15**	**6.96**	**8.56**	**7.24**	**3.56**	**5.22**	**21.01**	**8.89**
	Expenditures in Million Nominal Dollars									
1970	**6.5**	**111.5**	**52.9**	**10.3**	**48.9**	**112.2**	**—**	**230.2**	**225.0**	**455.3**
1971	4.4	121.0	59.3	8.5	50.4	118.2	—	243.7	239.0	482.6
1972	2.2	131.9	63.9	6.1	59.4	129.4	—	263.5	266.6	530.1
1973	2.2	133.9	77.6	6.5	95.7	179.8	—	315.9	272.0	587.9
1974	7.4	159.2	109.7	11.3	83.3	204.2	—	370.9	305.4	676.3
1975	**4.8**	**179.5**	**107.6**	**9.2**	**94.8**	**211.6**	**—**	**395.8**	**344.1**	**739.9**
1976	3.8	183.8	144.4	11.8	106.0	262.3	—	449.8	375.7	825.6
1977	2.8	214.2	158.2	12.0	98.4	268.6	—	485.6	409.4	895.0
1978	5.9	257.0	172.4	8.8	77.9	259.1	—	522.0	476.3	998.3
1979	8.2	321.5	217.9	3.0	71.3	292.1	—	621.8	495.3	1,117.2
1980	**4.5**	**333.8**	**249.5**	**5.2**	**79.0**	**333.7**	**—**	**672.0**	**643.8**	**1,315.8**
1981	3.0	392.5	239.6	6.4	71.6	317.5	—	713.0	724.4	1,437.4
1982	5.3	534.2	300.0	10.6	93.6	404.2	—	943.7	800.8	1,744.4
1983	5.4	576.5	143.7	4.6	105.5	253.8	—	835.7	886.7	1,722.4
1984	7.8	611.5	156.7	11.2	75.1	243.0	—	862.3	839.9	1,702.2
1985	**6.0**	**618.7**	**173.6**	**6.8**	**67.4**	**247.8**	**—**	**872.5**	**860.3**	**1,732.8**
1986	5.0	545.1	141.0	3.4	76.6	221.0	—	771.0	878.1	1,649.1
1987	4.1	411.9	129.1	2.7	73.2	205.0	—	621.0	914.7	1,535.7
1988	5.2	508.9	143.2	4.1	73.0	220.3	—	734.4	1,014.0	1,748.4
1989	5.9	534.3	164.9	10.9	115.4	291.2	—	831.4	994.0	1,825.3
1990	**3.9**	**495.3**	**145.5**	**1.5**	**88.8**	**235.7**	**[d] 12.7**	**[d] 747.5**	**[R] 1,010.6**	**[d R] 1,758.1**
1991	2.2	529.5	166.2	1.8	85.4	253.4	13.3	798.5	[R] 1,082.9	[R] 1,881.4
1992	0.5	551.9	125.5	1.5	107.9	235.0	14.0	801.5	[R] 1,040.7	[R] 1,842.2
1993	2.3	655.3	118.9	1.4	130.0	250.4	11.8	919.7	[R] 1,105.3	[R] 2,025.0
1994	5.2	633.2	121.4	1.8	[R] 134.0	[R] 257.3	11.6	[R] 907.2	[R] 1,146.1	[R] 2,053.4
1995	**6.5**	**617.9**	**119.5**	**2.0**	**137.8**	**259.3**	**12.9**	**896.6**	**1,216.6**	**2,113.2**

[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 151. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Minnesota

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.47**	**0.69**	**1.05**	**0.89**	**1.20**	**2.97**	**0.58**	**1.13**	**0.76**	**7.72**	**1.42**
1971	0.71	0.76	1.07	0.89	1.28	2.97	0.86	1.20	0.84	7.89	1.55
1972	0.51	0.83	1.06	0.88	1.29	2.97	0.80	1.17	0.89	8.15	1.65
1973	0.49	0.85	1.35	1.16	1.33	3.12	0.89	1.39	0.95	8.25	1.76
1974	0.76	0.98	2.28	2.25	2.52	4.33	1.85	2.42	1.22	9.29	2.05
1975	**0.87**	**1.16**	**2.34**	**2.54**	**2.61**	**4.63**	**1.97**	**2.61**	**1.39**	**10.38**	**2.56**
1976	1.12	1.41	2.56	2.66	2.90	4.90	1.74	2.74	1.69	10.90	3.07
1977	1.38	1.73	2.93	2.97	3.26	5.21	2.09	3.14	2.04	11.62	3.63
1978	1.20	2.03	3.10	3.22	3.74	5.06	2.05	3.34	2.25	11.90	3.71
1979	1.25	2.60	4.75	4.23	3.58	7.01	2.65	4.82	2.97	12.51	4.81
1980	**1.77**	**2.89**	**6.60**	**—**	**4.87**	**9.55**	**4.48**	**6.73**	**3.47**	**12.95**	**5.37**
1981	1.93	3.66	7.93	6.76	5.50	10.56	5.52	7.97	4.10	14.73	6.48
1982	2.15	4.53	7.58	7.74	5.97	10.51	4.63	7.53	4.84	15.92	7.18
1983	2.29	5.15	6.66	6.52	6.63	9.52	3.66	6.78	5.44	16.99	7.67
1984	2.01	5.37	6.50	7.06	6.40	9.39	4.44	6.87	5.61	17.39	7.93
1985	**2.04**	**5.18**	**6.27**	**6.68**	**[R] 8.82**	**9.73**	**4.10**	**[R] 6.61**	**[R] 5.39**	**17.53**	**[R] 7.84**
1986	1.96	4.62	3.98	4.43	[R] 8.75	7.42	2.86	[R] 5.03	[R] 4.60	17.81	7.60
1987	1.85	3.89	4.37	4.85	[R] 6.52	7.71	2.43	[R] 5.03	3.98	17.19	7.43
1988	1.85	4.00	3.84	4.54	[R] 8.19	7.81	2.37	[R] 4.74	[R] 4.03	17.52	[R] 7.22
1989	1.86	3.98	4.65	5.09	[R] 7.55	8.72	2.38	[R] 5.22	4.04	17.61	[R] 7.09
1990	**2.05**	**3.96**	**5.57**	**6.84**	**[R] 9.92**	**9.56**	**2.50**	**[R] 7.65**	**[R] 4.57**	**[R] 17.70**	**[R] 7.66**
1991	1.87	3.76	4.99	5.60	[R] 8.84	9.31	2.11	[R] 5.67	[R] 3.94	[R] 17.98	7.33
1992	1.93	4.06	4.95	5.72	[R] 6.33	9.11	1.79	[R] 5.16	[R] 4.15	[R] 18.15	7.65
1993	1.99	4.47	4.78	5.42	[R] 9.37	9.26	2.18	[R] 6.30	[R] 4.58	[R] 18.37	7.97
1994	1.97	4.31	4.40	[R] 5.44	[R] 8.22	9.42	2.17	[R] 5.43	[R] 4.35	[R] 18.51	[R] 7.95
1995	**1.83**	**3.93**	**4.39**	**5.47**	**8.28**	**9.39**	**2.41**	**5.58**	**4.01**	**18.35**	**7.64**
	Expenditures in Million Nominal Dollars										
1970	**3.7**	**53.2**	**10.7**	**1.3**	**5.1**	**3.7**	**1.4**	**22.3**	**79.2**	**83.7**	**163.0**
1971	5.1	58.0	11.9	1.1	5.9	3.8	1.7	24.3	87.5	91.1	178.5
1972	2.0	66.7	12.8	0.7	6.5	4.0	3.0	27.0	95.8	101.8	197.6
1973	1.7	68.2	15.8	0.9	6.1	4.7	3.1	30.6	100.5	108.2	208.7
1974	3.3	88.5	24.2	2.0	10.6	6.8	5.5	49.0	140.8	122.1	262.9
1975	**2.5**	**104.2**	**24.1**	**1.7**	**10.3**	**8.6**	**2.8**	**47.6**	**154.3**	**171.6**	**325.9**
1976	2.6	108.6	32.3	2.2	11.6	8.9	3.8	58.8	170.0	194.1	364.1
1977	2.4	116.9	35.5	2.1	12.0	10.1	3.6	63.3	182.6	207.7	390.3
1978	3.4	164.1	37.9	1.6	10.7	11.1	3.1	64.4	231.9	217.8	449.7
1979	4.6	156.5	48.4	0.5	7.6	16.2	1.9	74.6	235.7	237.9	473.6
1980	**3.4**	**183.6**	**55.5**	**—**	**9.3**	**17.1**	**0.9**	**82.7**	**269.7**	**252.8**	**522.6**
1981	3.1	242.8	38.6	0.2	9.4	19.5	0.7	68.4	314.3	324.5	638.8
1982	4.1	338.1	43.6	0.2	10.7	20.0	5.0	79.5	421.8	372.5	794.3
1983	5.0	372.6	106.2	0.1	14.2	17.5	3.2	141.1	518.7	388.8	907.6
1984	5.8	404.8	112.0	0.1	9.8	31.3	2.6	155.7	566.3	430.4	996.7
1985	**5.6**	**400.2**	**100.2**	**0.9**	**[R] 13.5**	**17.1**	**5.8**	**[R] 137.4**	**[R] 543.2**	**446.9**	**[R] 990.1**
1986	4.7	343.8	25.0	0.1	[R] 15.7	12.7	5.5	[R] 59.1	[R] 407.5	463.3	[R] 870.9
1987	3.7	256.4	25.7	0.1	[R] 11.4	9.7	2.0	[R] 48.9	[R] 309.0	471.2	[R] 780.2
1988	5.1	322.4	24.6	0.1	[R] 15.0	9.9	4.4	[R] 54.1	[R] 381.6	514.0	[R] 895.6
1989	5.9	340.7	28.0	0.1	[R] 15.3	8.7	4.0	[R] 56.2	[R] 402.8	508.0	[R] 910.8
1990	**4.3**	**310.5**	**30.5**	**0.2**	**[R] 18.6**	**78.3**	**4.1**	**[R] 131.8**	**[R] 446.5**	**[R] 532.2**	**[R] 978.7**
1991	2.0	327.2	26.5	0.1	[R] 18.0	9.7	3.9	[R] 58.1	[R] 387.4	[R] 562.2	[R] 949.5
1992	0.5	337.8	21.9	0.2	[R] 14.4	5.6	2.2	[R] 44.4	[R] 382.7	[R] 557.7	[R] 940.4
1993	2.5	391.6	18.2	0.3	[R] 26.1	2.4	1.8	[R] 48.8	[R] 442.9	[R] 578.5	[R] 1,021.4
1994	5.7	365.9	23.2	[R] 0.4	[R] 22.7	2.4	2.2	[R] 50.9	[R] 422.6	[R] 612.4	[R] 1,035.0
1995	**6.3**	**360.8**	**23.8**	**0.7**	**23.6**	**2.5**	**1.7**	**52.3**	**419.4**	**651.7**	**1,071.1**

[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.
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, 1970-1995, Minnesota

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.83**	**0.89**	**1.20**	**5.08**	**2.97**	**0.55**	R **0.78**	**1.16**	**—**	**0.78**	**4.17**	**1.11**
1971	0.71	0.71	0.71	0.45	0.86	0.82	0.89	1.28	5.27	2.97	0.61	R 0.98	1.23	—	0.82	4.34	1.17
1972	0.68	0.51	0.59	0.48	0.83	0.82	0.88	1.29	5.58	2.97	0.61	R 0.97	1.16	—	0.84	4.56	1.22
1973	0.79	0.49	0.68	0.54	0.92	1.07	1.16	1.33	5.33	3.12	0.76	R 0.94	R 1.25	—	0.90	4.62	1.29
1974	1.44	0.76	1.12	0.64	2.04	2.09	2.25	2.52	7.22	4.33	1.67	R 1.23	R 2.30	—	1.52	5.54	R 1.97
1975	**1.80**	**0.87**	**1.33**	**0.83**	**2.19**	**2.39**	**2.54**	**2.61**	**7.48**	**4.63**	**1.74**	R **1.72**	R **2.61**	**—**	R **1.72**	**6.73**	**2.33**
1976	1.82	1.12	1.41	1.13	1.86	2.47	2.66	2.90	7.05	4.90	1.74	R 1.71	R 2.56	—	1.84	7.41	R 2.50
1977	1.81	1.38	1.57	1.13	1.91	2.76	2.97	3.26	6.97	5.21	2.04	R 1.96	R 2.78	—	1.95	8.75	2.82
1978	2.44	1.20	1.65	1.24	2.08	2.96	3.22	3.74	7.60	5.06	2.10	R 1.80	R 2.95	—	2.07	9.18	3.11
1979	2.20	1.25	1.29	1.46	2.70	4.01	4.23	3.58	10.21	7.01	2.60	R 2.31	R 3.90	—	2.45	9.53	3.57
1980	**—**	**1.77**	**1.77**	**2.51**	**3.31**	**5.66**	**5.92**	**4.87**	**14.36**	**9.55**	**2.97**	R **3.64**	R **5.05**	**—**	R **3.59**	**11.22**	R **5.07**
1981	—	1.93	1.93	3.20	6.06	6.42	6.76	5.50	18.00	10.56	4.29	R 4.24	R 6.45	—	R 4.52	12.36	R 6.24
1982	—	2.15	2.15	4.08	4.22	7.31	7.74	5.97	17.25	10.51	3.95	R 3.44	R 6.49	—	R 5.18	14.15	R 7.00
1983	—	2.29	2.29	4.36	4.63	6.66	6.52	6.63	16.98	9.52	4.07	R 3.10	R 5.97	—	R 4.96	13.69	R 7.03
1984	—	2.01	2.01	4.29	4.98	6.73	7.06	6.40	17.63	9.39	4.44	R 3.58	R 6.13	—	R 4.93	12.64	R 6.97
1985	**—**	**2.04**	**2.04**	**4.04**	**4.99**	**6.37**	**6.68**	R **8.82**	**17.61**	**9.73**	**4.10**	R **3.23**	R **6.32**	**—**	R **4.97**	**12.65**	R **6.92**
1986	—	1.96	1.96	3.42	3.86	4.22	4.43	R 8.75	15.59	7.42	2.86	R 3.05	R 4.83	—	R 4.07	12.76	R 6.23
1987	—	1.85	1.85	2.55	3.53	4.62	4.85	R 6.52	R 13.58	7.71	2.43	R 3.19	R 4.55	—	R 3.54	12.50	R 5.92
1988	—	1.85	1.85	2.79	3.60	4.33	4.54	R 8.19	R 14.62	7.81	2.37	R 2.77	R 4.65	—	R 3.65	12.32	R 6.14
1989	—	1.86	1.86	2.84	3.01	4.85	5.09	R 7.55	14.48	8.72	2.38	R 2.87	R 4.66	—	R 3.60	12.02	R 6.04
1990	**—**	**2.05**	**2.05**	**2.96**	**3.31**	**6.51**	**6.84**	R **9.92**	**14.60**	**9.56**	**2.50**	R **3.02**	R **5.40**	d R **1.53**	d R **3.87**	**12.14**	d R **6.08**
1991	—	1.87	1.87	2.75	3.19	5.33	5.60	R 8.84	R 16.80	9.31	2.11	R 4.17	R 5.23	R 1.56	R 3.78	R 12.47	R 6.12
1992	—	1.93	1.93	3.02	2.71	5.45	5.72	R 6.33	R 18.32	9.11	1.79	R 4.52	R 4.90	R 1.52	R 3.75	12.69	R 6.01
1993	—	1.99	1.99	3.17	2.93	5.16	5.42	R 9.37	R 18.96	9.26	2.18	R 3.80	R 5.20	R 1.49	R 3.85	R 12.89	R 6.16
1994	—	1.97	1.97	2.84	2.93	5.18	5.44	R 7.21	R 19.11	9.42	2.17	R 4.10	R 5.07	R 1.48	R 3.69	12.91	R 6.09
1995	**—**	**1.83**	**1.83**	**2.42**	**3.13**	**5.21**	**5.47**	**7.60**	**19.40**	**9.39**	**2.41**	**4.23**	**5.07**	**1.45**	**3.50**	**12.61**	**5.79**
	Expenditures in Million Nominal Dollars																
1970	**8.6**	**12.2**	**20.8**	**40.6**	**20.0**	**37.5**	**1.2**	**5.6**	**9.1**	**56.3**	**9.4**	R **4.8**	R **144.1**	**—**	R **205.4**	**118.8**	R **324.2**
1971	10.0	12.4	22.4	54.4	25.3	40.1	1.1	5.9	11.5	51.5	6.7	R 6.7	R 148.8	—	R 225.5	130.3	R 355.8
1972	11.0	10.4	21.4	50.7	28.9	42.1	0.7	6.4	13.1	55.8	16.2	R 6.9	R 170.0	—	R 242.1	148.6	R 390.7
1973	24.0	9.1	33.1	62.2	36.4	55.8	0.7	7.7	9.9	48.6	18.7	R 8.0	R 185.7	—	R 281.1	166.6	R 447.7
1974	29.2	13.6	42.8	67.5	75.9	98.2	2.3	15.3	12.8	66.8	34.0	R 10.3	R 315.7	—	R 425.9	198.5	R 624.5
1975	**45.4**	**22.2**	**67.6**	**83.5**	**67.2**	**111.0**	**2.5**	**18.8**	**11.4**	**76.1**	**19.0**	R **15.3**	R **321.5**	**—**	R **472.6**	**254.2**	R **726.7**
1976	31.4	27.4	58.8	134.5	66.9	135.9	3.6	15.1	12.0	87.9	30.0	R 14.6	R 366.0	—	R 559.2	304.5	R 863.7
1977	31.5	29.0	60.5	129.5	67.2	145.2	3.7	17.9	13.7	77.7	22.8	R 16.7	R 364.9	—	R 554.9	364.5	R 919.5
1978	35.8	30.1	65.9	147.2	75.3	159.1	3.6	26.1	16.0	76.9	18.2	R 15.7	R 390.8	—	R 603.9	455.9	R 1,059.9
1979	2.7	34.2	36.9	207.0	91.2	181.7	2.4	56.0	22.5	91.1	1.7	R 19.4	R 465.9	—	R 709.8	517.8	R 1,227.5
1980	**—**	**31.9**	**31.9**	**251.7**	**78.4**	**188.2**	**3.3**	**73.5**	**28.2**	**67.1**	**22.0**	R **29.5**	R **490.1**	**—**	R **773.6**	**584.6**	R **1,358.2**
1981	—	40.8	40.8	265.8	156.3	192.6	1.1	52.7	33.9	60.7	24.7	R 24.6	R 546.5	—	R 853.1	655.4	R 1,508.5
1982	—	40.9	40.9	266.3	108.7	225.3	1.6	85.1	29.6	149.9	25.5	R 21.6	R 647.3	—	R 954.6	663.6	R 1,618.2
1983	—	42.6	42.6	279.9	145.0	133.7	1.6	81.1	30.5	85.7	22.9	R 22.7	R 523.1	—	R 845.6	723.2	R 1,568.8
1984	—	37.1	37.1	289.9	154.3	146.1	2.0	44.5	33.8	69.7	13.8	R 28.7	R 493.0	—	R 819.9	756.3	R 1,576.2
1985	**—**	**43.3**	**43.3**	**259.4**	**165.1**	**177.6**	**0.9**	R **74.4**	**31.4**	**87.8**	**6.2**	R **27.3**	R **570.7**	**—**	R **873.4**	**755.7**	R **1,629.0**
1986	—	39.6	39.6	190.8	140.3	138.6	0.8	R 88.9	27.2	62.0	15.8	R 23.1	R 496.7	—	R 727.1	755.8	R 1,482.9
1987	—	31.3	31.3	176.0	137.2	127.3	0.3	R 50.3	R 26.8	60.9	11.5	R 24.3	R 438.7	—	R 646.1	826.1	R 1,472.2
1988	—	28.0	28.0	210.1	117.1	132.8	0.9	R 64.2	27.8	52.3	9.9	R 21.6	R 426.5	—	R 664.6	905.7	R 1,570.3
1989	—	35.5	35.5	224.2	98.5	130.9	1.4	R 61.9	28.3	57.4	8.2	R 21.7	R 408.3	—	R 668.0	907.9	R 1,575.9
1990	**—**	**48.8**	**48.8**	**250.7**	**132.5**	**178.9**	**0.3**	R **84.2**	**29.3**	**55.8**	**8.0**	R **24.0**	R **513.1**	d R **16.4**	d R **828.9**	R **948.6**	d R **1,777.5**
1991	—	28.5	28.5	243.8	106.6	174.2	0.3	R 86.7	30.2	70.5	6.0	R 50.9	R 525.4	R 17.5	R 815.2	R 992.2	R 1,807.4
1992	—	37.8	37.8	271.2	95.9	196.3	0.3	R 84.3	R 33.6	67.8	6.9	R 58.2	R 543.4	R 17.5	R 869.9	993.8	R 1,863.7
1993	—	49.5	49.5	298.1	93.2	172.9	0.5	R 121.2	R 35.4	59.4	10.1	R 50.5	R 543.2	R 18.4	R 909.2	R 1,044.0	R 1,953.2
1994	—	53.0	53.0	258.7	92.2	193.2	2.3	R 107.0	R 37.3	62.0	8.0	R 57.1	R 559.1	R 18.9	R 889.6	R 1,093.1	R 1,982.8
1995	**—**	**48.8**	**48.8**	**248.3**	**132.8**	**197.2**	**0.9**	**117.4**	**37.2**	**58.8**	**4.2**	**58.2**	**606.8**	**22.0**	**925.9**	**1,114.8**	**2,040.7**

[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.

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 153. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Minnesota

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.47**	**—**	**2.17**	**1.24**	**0.75**	**1.20**	**5.08**	**2.97**	**0.57**	**2.64**	**2.64**	**—**	**2.64**
1971	0.71	—	2.21	1.28	0.78	1.28	5.27	2.97	0.83	2.64	2.64	—	2.64
1972	0.51	—	2.19	1.25	0.78	1.29	5.58	2.97	0.71	2.62	2.62	—	2.62
1973	0.49	—	2.36	1.61	0.93	1.33	5.33	3.12	0.79	2.75	2.75	—	2.75
1974	0.76	—	3.23	2.55	1.60	2.52	7.22	4.33	1.63	3.84	3.84	—	3.84
1975	**0.87**	**—**	**3.45**	**2.67**	**2.09**	**2.61**	**7.48**	**4.63**	**1.70**	**4.13**	**4.13**	**—**	**4.13**
1976	1.12	—	3.59	2.88	2.26	2.90	7.05	4.90	1.59	4.40	4.40	—	4.40
1977	1.38	—	3.97	3.32	2.69	3.26	6.97	5.21	1.85	4.76	4.76	—	4.76
1978	—	—	4.29	3.34	2.90	3.74	7.60	5.06	1.78	4.66	4.66	—	4.66
1979	—	—	5.73	5.08	4.03	3.58	10.21	7.01	2.36	6.42	6.42	—	6.42
1980	**—**	**—**	**9.02**	**7.16**	**6.47**	**4.87**	**14.36**	**9.55**	**3.81**	**8.88**	**8.88**	**—**	**8.88**
1981	—	—	10.84	8.34	7.60	5.50	18.00	10.56	4.77	10.06	10.06	—	10.06
1982	—	—	10.92	8.12	7.19	5.97	17.25	10.51	4.43	9.93	9.93	—	9.93
1983	—	—	10.44	8.56	6.39	6.63	16.98	9.52	3.43	9.24	9.24	—	9.24
1984	—	—	10.27	8.68	6.27	6.40	17.63	9.39	4.41	9.01	9.01	—	9.01
1985	**—**	**—**	**9.99**	**8.68**	**5.93**	**[R] 8.82**	**17.61**	**9.73**	**3.91**	**9.16**	**9.16**	**—**	**9.16**
1986	—	—	8.41	6.78	4.04	[R] 8.75	15.59	7.42	3.65	6.98	6.98	—	6.98
1987	—	—	7.55	7.15	4.15	[R] 6.52	[R] 13.58	7.71	2.25	[R] 7.36	[R] 7.36	—	[R] 7.36
1988	—	—	7.41	7.21	3.94	[R] 8.19	[R] 14.62	7.81	1.83	7.48	7.48	—	7.48
1989	—	—	8.28	7.83	4.47	[R] 7.55	14.48	8.72	1.84	8.33	8.33	—	8.33
1990	**—**	**—**	**9.32**	**9.19**	**5.68**	**[R] 9.92**	**14.60**	**9.56**	**—**	**9.23**	**9.23**	**—**	**9.23**
1991	—	—	8.71	8.28	4.87	[R] 8.84	[R] 16.80	9.31	1.98	8.86	8.86	—	8.86
1992	—	—	8.54	8.12	4.64	[R] 6.33	[R] 18.32	9.11	1.32	[R] 8.58	[R] 8.58	—	[R] 8.58
1993	—	6.01	8.24	8.22	4.33	[R] 9.37	[R] 18.96	9.26	1.51	8.51	8.51	—	8.51
1994	—	1.88	7.96	8.32	3.96	[R] 9.20	[R] 19.11	9.42	1.65	8.58	8.58	—	8.58
1995	**—**	**1.80**	**8.36**	**8.23**	**4.00**	**9.59**	**19.40**	**9.39**	**—**	**8.56**	**8.56**	**—**	**8.56**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**3.0**	**36.6**	**14.7**	**0.4**	**19.3**	**628.9**	**0.1**	**703.1**	**703.1**	**—**	**703.1**
1971	(s)	—	2.8	38.1	17.7	0.5	23.6	659.8	(s)	742.4	742.4	—	742.4
1972	(s)	—	2.9	39.8	20.0	0.5	26.7	684.1	0.5	774.6	774.6	—	774.6
1973	(s)	—	3.1	61.5	27.2	0.6	23.9	753.2	2.0	871.6	871.7	—	871.7
1974	(s)	—	3.9	99.3	50.3	1.0	31.1	1,015.4	5.0	1,205.9	1,205.9	—	1,205.9
1975	**(s)**	**—**	**3.7**	**104.1**	**66.5**	**0.9**	**34.1**	**1,088.1**	**6.2**	**1,303.7**	**1,303.8**	**—**	**1,303.8**
1976	(s)	—	3.9	117.5	68.0	1.1	35.7	1,188.8	4.7	1,419.7	1,419.7	—	1,419.7
1977	(s)	—	4.1	130.9	80.2	1.1	33.6	1,306.3	1.9	1,558.2	1,558.2	—	1,558.2
1978	—	—	5.2	153.0	83.6	1.8	39.4	1,319.6	5.0	1,607.6	1,607.6	—	1,607.6
1979	—	—	6.3	291.6	128.6	0.9	55.3	1,750.6	6.1	2,239.4	2,239.4	—	2,239.4
1980	**—**	**—**	**8.8**	**338.4**	**188.3**	**1.2**	**69.3**	**2,235.3**	**23.2**	**2,864.5**	**2,864.5**	**—**	**2,864.5**
1981	—	—	8.9	378.6	194.2	3.0	83.3	2,417.3	8.1	3,093.4	3,093.4	—	3,093.4
1982	—	—	6.5	393.5	173.3	2.7	72.8	2,308.0	2.2	2,959.2	2,959.2	—	2,959.2
1983	—	—	6.2	397.8	146.0	3.6	75.1	2,199.9	1.1	2,829.6	2,829.6	—	2,829.6
1984	—	—	6.5	407.4	260.1	4.1	83.1	2,270.3	2.8	3,034.4	3,034.4	—	3,034.4
1985	**—**	**—**	**7.8**	**403.6**	**261.4**	**[R] 3.9**	**77.4**	**2,230.6**	**3.8**	**[R] 2,988.6**	**[R] 2,988.6**	**—**	**[R] 2,988.6**
1986	—	—	9.6	319.6	178.6	[R] 4.0	67.0	1,709.5	0.8	[R] 2,289.1	[R] 2,289.1	—	[R] 2,289.1
1987	—	—	6.8	354.7	132.8	[R] 1.7	[R] 65.9	1,828.6	0.1	[R] 2,390.7	[R] 2,390.7	—	[R] 2,390.7
1988	—	—	6.2	378.6	114.7	[R] 2.2	68.4	1,943.4	0.1	[R] 2,513.7	[R] 2,513.7	—	[R] 2,513.7
1989	—	—	6.6	408.2	118.0	[R] 1.7	69.6	2,158.7	(s)	[R] 2,762.7	[R] 2,762.7	—	[R] 2,762.7
1990	**—**	**—**	**10.0**	**508.9**	**164.0**	**[R] 2.1**	**72.2**	**2,251.5**	**—**	**[R] 3,008.7**	**[R] 3,008.7**	**—**	**[R] 3,008.7**
1991	—	—	8.3	507.6	137.3	[R] 1.7	74.3	2,318.0	(s)	[R] 3,047.1	[R] 3,047.1	—	[R] 3,047.1
1992	—	—	5.8	529.2	173.8	1.2	[R] 82.6	2,306.4	(s)	[R] 3,099.0	[R] 3,099.0	—	[R] 3,099.0
1993	—	(s)	5.5	543.6	231.3	[R] 3.3	87.0	2,434.3	(s)	[R] 3,305.0	[R] 3,305.0	—	[R] 3,305.0
1994	—	0.1	5.0	624.7	219.2	[R] 4.2	[R] 91.7	2,535.9	(s)	[R] 3,480.8	[R] 3,480.8	—	[R] 3,480.8
1995	**—**	**(s)**	**5.4**	**654.5**	**226.1**	**4.7**	**91.5**	**2,618.6**	**—**	**3,600.7**	**3,600.8**	**—**	**3,600.8**

[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 154. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Minnesota

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.34**	**0.26**	**0.74**	**0.85**	**0.28**	**0.73**	**—**	**0.65**	**0.34**
1971	0.38	0.29	0.81	0.94	0.30	0.83	0.15	0.69	0.36
1972	0.41	0.40	0.81	0.94	0.31	0.85	0.16	0.72	0.39
1973	0.39	0.44	0.88	1.30	0.31	1.01	0.16	0.77	0.40
1974	0.49	0.48	1.82	2.23	0.29	1.87	0.23	0.84	0.50
1975	**0.62**	**0.64**	**1.95**	**2.26**	**0.54**	**2.03**	**0.24**	**0.92**	**0.52**
1976	0.69	0.82	1.75	2.25	—	1.97	0.25	0.98	0.58
1977	0.74	1.11	2.05	2.63	—	2.22	0.27	1.04	0.64
1978	0.81	1.46	2.04	2.64	—	2.28	0.31	1.12	0.69
1979	1.01	1.73	2.56	3.38	—	2.84	0.35	1.56	0.82
1980	**1.04**	**1.99**	**4.46**	**5.80**	**—**	**4.86**	**0.44**	**1.74**	**0.91**
1981	1.14	2.60	5.46	8.00	—	6.38	0.46	—	0.96
1982	1.29	3.36	4.65	7.21	—	6.37	0.44	1.28	1.02
1983	1.38	3.80	3.69	6.32	—	5.96	0.49	1.12	1.06
1984	1.37	3.73	4.50	6.22	—	6.12	0.53	1.28	1.14
1985	**1.43**	**3.69**	**3.99**	**5.97**	**—**	**5.96**	**0.50**	**—**	**1.09**
1986	1.36	2.95	—	3.91	—	3.91	0.50	—	1.03
1987	1.21	2.08	2.39	4.47	—	4.46	0.51	0.95	0.99
1988	1.20	1.98	2.06	3.69	0.82	2.07	0.49	0.87	0.99
1989	1.20	2.15	2.13	4.42	0.77	1.16	0.49	0.88	1.01
1990	**1.25**	**1.92**	**1.86**	**5.33**	**0.76**	**1.25**	**0.48**	**0.62**	**1.03**
1991	1.26	1.70	2.16	4.63	0.77	1.09	0.47	0.72	1.02
1992	1.19	1.84	1.47	4.51	0.70	0.90	0.44	0.61	0.97
1993	1.13	2.45	1.65	4.42	0.71	0.99	0.41	0.55	0.93
1994	1.14	2.13	—	4.20	0.69	1.03	0.47	0.54	0.95
1995	**1.14**	**1.76**	**—**	**4.07**	**0.69**	**1.17**	**0.48**	**0.51**	**0.94**
	Expenditures in Million Nominal Dollars								
1970	**43.1**	**15.3**	**3.9**	**2.7**	**0.2**	**6.9**	**—**	**0.1**	**65.3**
1971	43.2	12.6	3.4	3.2	0.2	6.8	2.3	0.1	65.0
1972	48.5	20.6	5.0	6.1	0.2	11.3	6.2	0.2	86.8
1973	48.9	24.9	5.4	7.7	0.4	13.5	5.6	0.2	93.0
1974	70.6	18.1	8.2	12.4	0.3	20.9	11.2	(s)	120.8
1975	**84.9**	**14.2**	**10.4**	**8.9**	**0.2**	**19.5**	**25.5**	**(s)**	**144.2**
1976	121.5	10.7	11.5	11.5	—	23.0	26.8	(s)	182.1
1977	165.4	5.6	16.8	9.2	—	26.0	32.3	(s)	229.3
1978	170.5	2.1	17.0	14.0	—	31.0	38.7	(s)	242.3
1979	197.4	11.9	12.8	9.0	—	21.8	43.7	(s)	274.9
1980	**230.9**	**16.0**	**10.1**	**5.6**	**—**	**15.8**	**48.6**	**(s)**	**311.3**
1981	250.6	14.3	4.5	3.7	—	8.2	51.9	—	325.0
1982	246.4	11.0	1.2	3.7	—	4.9	50.0	0.1	312.4
1983	261.6	11.0	0.3	3.0	—	3.3	62.8	(s)	338.7
1984	285.2	7.4	0.1	1.9	—	2.0	48.3	(s)	342.9
1985	**286.5**	**4.7**	**(s)**	**1.7**	**—**	**1.7**	**62.5**	**—**	**355.5**
1986	241.4	5.1	—	1.4	—	1.4	59.2	—	307.0
1987	284.5	11.8	(s)	2.6	—	2.6	63.1	0.4	362.5
1988	339.9	10.4	0.1	2.8	0.8	3.7	64.2	1.4	419.5
1989	358.3	9.5	0.1	2.1	3.2	5.4	57.4	2.3	432.8
1990	**372.2**	**10.1**	**(s)**	**2.8**	**3.3**	**6.2**	**61.7**	**2.5**	**452.8**
1991	357.4	10.1	(s)	2.4	4.4	6.9	60.7	3.0	438.2
1992	332.1	9.1	(s)	1.6	4.5	6.1	52.0	2.6	401.8
1993	337.8	9.7	(s)	2.3	4.6	6.9	52.9	2.4	409.7
1994	342.5	12.5	—	2.7	4.1	6.8	61.2	2.3	425.3
1995	**347.9**	**14.7**	**—**	**3.2**	**3.2**	**6.3**	**67.1**	**2.3**	**438.3**

[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 155. Energy Price and Expenditure Estimates by Source, 1970-1995, Mississippi

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	**—**	**0.26**	**0.26**	**0.38**	**1.32**	**0.73**	**1.83**	**2.84**	**0.45**	**[R] 1.14**	**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	0.69	1.20	2.18	—	—	1.21	0.32	4.81	1.80
1972	—	0.37	0.37	0.45	1.23	0.76	1.90	2.99	0.66	[R] 1.23	2.09	—	—	1.24	0.37	5.28	1.91
1973	—	0.41	0.41	0.53	1.41	0.90	2.80	3.08	0.84	1.25	2.14	—	—	1.43	0.54	5.35	[R] 2.08
1974	—	0.62	0.62	0.67	2.26	1.56	3.31	4.17	1.61	[R] 2.02	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**	**2.42**	**[R] 3.09**	**—**	**—**	**2.27**	**1.24**	**7.58**	**[R] 3.19**
1976	—	1.03	1.03	1.22	2.65	2.18	3.69	4.57	1.68	[R] 2.58	3.21	—	—	2.53	1.44	9.12	3.72
1977	—	1.10	1.10	1.55	3.20	2.55	4.14	4.99	1.79	[R] 2.77	3.45	—	—	2.85	1.57	9.96	[R] 4.24
1978	—	1.44	1.44	1.70	3.33	2.88	4.04	5.17	1.74	[R] 2.97	3.45	—	—	2.92	1.64	10.51	4.45
1979	—	1.67	1.67	2.18	4.84	3.90	4.71	7.49	2.19	[R] 3.84	[R] 4.83	—	—	3.78	1.87	11.77	5.47
1980	**—**	**1.84**	**1.84**	**2.55**	**6.89**	**6.39**	**6.31**	**10.53**	**2.84**	**[R] 5.42**	**[R] 7.03**	**—**	**—**	**[R] 4.91**	**2.16**	**13.69**	**[R] 7.31**
1981	—	2.27	2.27	3.11	7.79	7.67	7.06	11.69	3.74	[R] 7.10	[R] 8.62	—	—	[R] 6.01	2.59	16.82	[R] 8.79
1982	—	2.42	2.42	3.81	7.99	7.42	7.94	11.02	3.73	[R] 6.53	[R] 8.77	—	—	[R] 5.99	2.79	17.69	[R] 8.91
1983	—	2.47	2.47	4.29	7.03	6.15	8.24	8.89	3.63	[R] 6.32	[R] 7.72	—	—	[R] 5.70	2.80	16.69	[R] 8.21
1984	—	2.40	2.40	3.85	6.99	6.04	7.87	8.72	3.78	[R] 5.90	[R] 7.51	1.08	—	[R] 5.37	2.60	16.47	[R] 7.89
1985	**—**	**2.50**	**2.50**	**3.76**	**6.70**	**5.84**	**[R] 7.66**	**8.75**	**4.06**	**[R] 6.10**	**[R] 7.51**	**1.13**	**—**	**[R] 5.15**	**2.30**	**17.05**	**[R] 8.14**
1986	—	2.27	2.27	3.40	5.22	3.41	[R] 8.31	6.54	2.01	[R] 5.62	[R] 5.57	1.15	—	[R] 4.15	2.05	18.01	[R] 7.24
1987	—	1.94	1.94	3.33	5.64	3.97	[R] 8.68	6.97	1.94	[R] 4.65	[R] 5.92	0.89	—	[R] 4.07	1.57	17.87	[R] 7.36
1988	—	1.81	1.81	3.19	5.59	3.43	[R] 9.01	7.27	2.79	[R] 4.35	[R] 5.89	1.40	—	[R] 4.04	1.70	18.21	[R] 7.30
1989	—	1.67	1.67	2.89	6.23	3.92	[R] 9.31	8.07	2.41	[R] 4.67	[R] 6.60	1.17	—	[R] 4.36	1.56	18.25	[R] 7.79
1990	**—**	**1.66**	**1.66**	**2.76**	**7.32**	**5.16**	**[R] 6.59**	**9.21**	**2.33**	**[R] 4.67**	**[R] 7.30**	**1.11**	**[d R] 1.54**	**[d] 4.53**	**1.54**	**18.05**	**[d R] 8.00**
1991	—	1.67	1.67	2.59	6.79	4.59	[R] 7.44	8.92	1.75	[R] 5.01	[R] 6.89	0.88	1.60	[R] 4.26	1.35	17.79	[R] 7.64
1992	—	1.60	1.60	2.71	6.75	4.33	[R] 6.21	8.62	1.70	[R] 4.76	[R] 6.67	0.70	1.60	[R] 4.27	1.31	17.84	[R] 7.51
1993	—	1.64	1.64	3.31	6.85	3.96	[R] 6.98	8.58	1.69	[R] 4.84	[R] 6.37	0.56	1.52	[R] 4.31	1.42	[R] 18.29	[R] 7.82
1994	—	1.58	1.58	[R] 2.95	6.71	3.70	[R] 7.35	8.68	1.58	[R] 5.27	[R] 6.77	0.52	1.52	[R] 4.23	1.30	[R] 17.94	[R] 8.00
1995	**—**	**1.54**	**1.54**	**2.62**	**6.74**	**3.73**	**7.00**	**8.83**	**1.92**	**5.26**	**7.07**	**0.52**	**1.52**	**4.21**	**1.31**	**17.74**	**8.04**
	Expenditures in Million Nominal Dollars																
1970	**—**	**3.5**	**3.5**	**111.2**	**46.2**	**6.3**	**59.4**	**362.5**	**1.9**	**[R] 42.8**	**[R] 519.1**	**—**	**—**	**[R] 633.8**	**-31.7**	**225.9**	**[R] 828.0**
1971	—	4.0	4.0	129.8	55.2	6.9	59.6	400.1	4.8	[R] 47.7	[R] 574.2	—	—	[R] 708.1	-39.9	263.5	[R] 931.7
1972	—	5.1	5.1	137.5	54.2	6.6	68.6	433.1	17.0	[R] 53.5	[R] 633.1	—	—	[R] 775.7	-51.0	316.1	[R] 1,040.8
1973	—	12.0	12.0	130.2	75.0	7.4	98.2	456.8	40.4	[R] 70.5	[R] 748.2	—	—	[R] 890.4	-69.0	349.8	[R] 1,171.3
1974	—	21.3	21.3	144.1	128.5	13.0	111.0	617.9	108.5	[R] 85.4	[R] 1,064.3	—	—	[R] 1,229.7	-133.1	444.2	[R] 1,540.8
1975	**—**	**27.5**	**27.5**	**154.3**	**127.6**	**16.3**	**102.3**	**633.5**	**126.6**	**[R] 93.3**	**[R] 1,099.6**	**—**	**—**	**[R] 1,281.4**	**-154.7**	**486.0**	**[R] 1,612.8**
1976	—	44.0	44.0	193.2	184.3	16.9	114.1	695.5	166.6	[R] 93.7	[R] 1,271.1	—	—	[R] 1,508.2	-221.3	612.9	[R] 1,899.8
1977	—	42.4	42.4	242.4	261.8	20.8	135.1	800.7	232.3	[R] 104.4	[R] 1,555.0	—	—	[R] 1,839.9	-286.6	719.7	[R] 2,272.9
1978	—	59.1	59.1	271.2	299.4	21.4	116.9	836.2	266.6	[R] 129.3	[R] 1,669.7	—	—	[R] 2,000.0	-342.0	796.3	[R] 2,454.3
1979	—	99.6	99.6	436.5	308.9	30.9	102.8	1,157.3	303.9	[R] 134.2	[R] 2,038.0	—	—	[R] 2,574.0	-353.1	886.6	[R] 3,107.4
1980	**—**	**137.6**	**137.6**	**553.4**	**383.8**	**53.3**	**125.9**	**1,481.0**	**284.7**	**[R] 148.3**	**[R] 2,476.9**	**—**	**—**	**[R] 3,168.0**	**-438.6**	**1,075.9**	**[R] 3,805.3**
1981	—	188.3	188.3	603.9	607.2	72.8	116.6	1,698.9	239.4	[R] 163.2	[R] 2,898.0	—	—	[R] 3,690.2	-451.0	1,302.0	[R] 4,541.3
1982	—	242.7	242.7	829.0	549.4	137.6	127.8	1,530.3	123.6	[R] 155.8	[R] 2,624.4	—	—	[R] 3,696.1	-518.8	1,351.0	[R] 4,528.3
1983	—	237.0	237.0	829.9	538.1	101.0	134.1	1,247.1	53.0	[R] 160.7	[R] 2,233.9	—	—	[R] 3,300.8	-405.5	1,315.8	[R] 4,211.1
1984	—	249.4	249.4	848.6	570.0	77.4	127.7	1,231.5	50.0	[R] 235.8	[R] 2,292.5	1.9	—	[R] 3,392.4	-431.5	1,364.4	[R] 4,325.3
1985	**—**	**273.2**	**273.2**	**710.7**	**621.3**	**134.1**	**[R] 128.7**	**1,267.2**	**33.5**	**[R] 167.8**	**[R] 2,352.5**	**53.1**	**—**	**[R] 3,389.6**	**-476.1**	**1,455.8**	**[R] 4,369.3**
1986	—	246.5	246.5	581.3	450.4	93.8	[R] 110.6	980.8	53.0	[R] 145.3	[R] 1,833.9	50.6	—	[R] 2,712.4	-420.1	1,582.5	[R] 3,874.8
1987	—	237.6	237.6	530.0	549.6	171.0	[R] 117.2	1,070.9	24.8	[R] 129.2	[R] 2,062.7	74.1	—	[R] 2,904.4	-381.2	1,606.2	[R] 4,129.4
1988	—	234.1	234.1	515.9	619.6	154.5	[R] 129.2	1,126.9	59.2	[R] 136.1	[R] 2,225.5	143.8	—	[R] 3,119.3	-453.7	1,694.2	[R] 4,359.8
1989	—	161.3	161.3	520.5	621.0	144.6	[R] 168.3	1,229.4	48.8	[R] 125.4	[R] 2,337.5	97.9	—	[R] 3,117.3	-355.7	1,786.8	[R] 4,548.3
1990	**—**	**172.3**	**172.3**	**557.5**	**687.4**	**201.1**	**[R] 169.2**	**1,399.1**	**50.2**	**[R] 145.0**	**[R] 2,651.9**	**87.9**	**[d R] 41.8**	**[d R] 3,511.5**	**-387.1**	**[R] 1,914.8**	**[d R] 5,039.2**
1991	—	159.4	159.4	524.1	610.7	208.6	[R] 164.0	1,396.1	51.3	[R] 170.8	[R] 2,601.5	86.7	[R] 47.3	[R] 3,419.0	-346.5	[R] 1,940.3	[R] 5,012.8
1992	—	139.2	139.2	529.3	601.9	269.5	[R] 139.5	1,382.8	35.6	[R] 153.0	[R] 2,582.2	61.3	[R] 48.0	[R] 3,360.1	-298.8	[R] 1,959.0	[R] 5,020.3
1993	—	163.0	163.0	589.9	586.2	186.0	[R] 156.2	1,437.2	94.9	[R] 152.1	[R] 2,612.5	47.0	[R] 45.5	[R] 3,457.9	-359.5	[R] 2,088.1	[R] 5,186.5
1994	—	153.5	153.5	[R] 619.9	605.2	141.4	[R] 173.6	1,498.3	53.5	[R] 159.8	[R] 2,631.8	53.5	[R] 45.1	[R] 3,503.7	-376.5	[R] 2,138.9	[R] 5,266.1
1995	**—**	**159.9**	**159.9**	**625.9**	**530.8**	**159.9**	**172.5**	**1,577.3**	**31.8**	**169.5**	**2,641.8**	**44.8**	**54.0**	**3,526.3**	**-392.0**	**2,190.4**	**5,324.8**

[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 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 156. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Mississippi

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**—**	**0.86**	**1.24**	**2.06**	**2.16**	**2.14**	**—**	**1.31**	**5.06**	**2.39**
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	6.06	2.91
1973	—	1.07	1.57	2.26	3.73	3.58	—	2.09	5.89	3.50
1974	—	1.20	2.41	3.16	3.84	3.75	—	2.24	7.42	4.23
1975	**—**	**1.38**	**2.49**	**3.79**	**4.10**	**3.98**	**—**	**2.34**	**8.06**	**4.43**
1976	—	1.67	2.77	4.09	4.40	4.26	—	2.71	9.89	5.45
1977	—	2.05	3.20	4.41	4.81	4.64	—	3.15	10.88	6.23
1978	2.91	2.34	3.36	4.88	4.39	4.32	—	3.07	11.37	6.33
1979	2.76	2.75	4.62	7.78	6.12	5.99	—	3.38	12.50	7.00
1980	**2.97**	**3.36**	**6.89**	**10.48**	**8.35**	**8.41**	**—**	**4.45**	**14.38**	**9.08**
1981	—	3.88	8.54	12.79	7.92	8.02	—	4.75	17.37	10.68
1982	—	4.78	—	12.61	9.83	9.93	—	5.86	18.23	11.79
1983	3.56	5.74	6.62	11.19	9.39	9.51	—	6.66	17.43	11.69
1984	3.27	5.35	6.77	10.49	9.39	9.55	—	6.14	17.41	11.62
1985	**2.74**	**5.33**	**7.07**	**10.96**	**7.71**	**7.78**	**—**	**5.85**	**18.12**	**12.18**
1986	2.89	5.47	5.15	7.99	8.61	8.58	—	6.09	19.13	13.06
1987	2.88	6.01	4.89	7.58	8.90	8.82	—	6.62	19.01	13.10
1988	2.62	5.76	4.42	6.85	9.17	9.11	—	6.49	19.15	13.14
1989	2.64	4.95	3.86	5.99	9.77	9.69	—	6.08	20.00	13.38
1990	**2.70**	**5.16**	**4.59**	**7.12**	**9.50**	**9.47**	**[d] 3.53**	**[d] 5.92**	**20.19**	**[d] 12.58**
1991	2.81	5.06	4.23	6.55	10.70	10.61	3.53	5.93	20.16	12.61
1992	2.69	4.70	7.66	11.88	9.28	9.31	3.53	5.35	20.55	12.39
1993	2.73	5.11	7.16	11.10	10.29	10.30	3.53	6.04	[R] 20.88	[R] 13.18
1994	—	5.29	7.63	11.83	[R] 10.82	[R] 10.83	3.53	[R] 6.30	[R] 20.70	[R] 13.45
1995	**—**	**5.19**	**5.32**	**8.25**	**10.95**	**10.91**	**3.53**	**6.13**	**20.49**	**13.40**
	Expenditures in Million Nominal Dollars									
1970	**—**	**32.4**	**0.6**	**0.9**	**42.0**	**43.5**	**—**	**75.9**	**118.7**	**194.5**
1971	—	37.9	0.8	0.7	41.4	42.9	—	80.9	139.5	220.4
1972	—	42.6	1.0	0.9	47.0	48.9	—	91.4	172.7	264.1
1973	—	34.2	1.3	2.5	74.7	78.5	—	112.7	188.7	301.3
1974	—	35.5	2.3	2.7	71.4	76.4	—	112.0	230.2	342.2
1975	**—**	**41.6**	**2.8**	**2.7**	**64.4**	**70.0**	**—**	**111.5**	**222.5**	**334.1**
1976	—	45.5	4.0	2.5	71.5	78.0	—	123.5	277.9	401.4
1977	—	54.7	5.7	3.7	81.1	90.5	—	145.2	333.3	478.5
1978	0.1	72.9	6.2	5.3	67.6	79.1	—	152.1	363.1	515.2
1979	0.1	104.7	3.9	0.4	50.9	55.3	—	160.1	388.4	548.5
1980	**(s)**	**102.6**	**0.3**	**2.6**	**67.5**	**70.4**	**—**	**173.0**	**488.9**	**661.9**
1981	—	113.0	0.1	2.1	60.3	62.5	—	175.5	569.5	745.0
1982	—	135.7	—	3.6	70.7	74.3	—	210.0	602.0	812.0
1983	0.2	162.2	0.2	7.1	80.3	87.6	—	250.0	574.5	824.5
1984	0.1	158.7	0.2	10.7	54.2	65.1	—	223.9	601.4	825.3
1985	**(s)**	**140.4**	**0.1**	**1.7**	**53.2**	**54.9**	**—**	**195.3**	**646.0**	**841.3**
1986	0.1	141.4	0.1	1.7	53.1	54.9	—	196.3	709.4	905.7
1987	0.1	162.3	0.5	1.2	65.3	66.9	—	229.3	721.8	951.1
1988	0.3	157.3	0.1	1.1	69.7	70.9	—	228.5	746.0	974.4
1989	(s)	134.2	0.1	0.8	81.7	82.6	—	216.9	786.0	1,002.9
1990	**(s)**	**133.5**	**(s)**	**0.5**	**74.3**	**74.8**	**[d] 12.6**	**[d] 220.9**	**[R] 845.1**	**[d R] 1,066.0**
1991	(s)	134.2	(s)	0.8	72.0	72.9	13.3	220.4	861.0	1,081.4
1992	(s)	131.1	0.1	1.0	58.6	59.6	14.0	204.7	[R] 870.9	[R] 1,075.7
1993	(s)	148.3	0.1	1.5	81.6	83.3	10.5	242.0	[R] 940.4	[R] 1,182.4
1994	—	[R] 147.4	(s)	1.4	[R] 84.9	[R] 86.3	10.3	[R] 244.0	[R] 963.6	[R] 1,207.6
1995	**—**	**142.3**	**(s)**	**0.9**	**77.2**	**78.2**	**11.4**	**231.9**	**991.3**	**1,223.2**

[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.
(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 157. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Mississippi

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**—**	**0.57**	**0.96**	**—**	**1.33**	**2.84**	**0.49**	**1.39**	**0.70**	**5.53**	**1.96**
1971	—	0.61	1.09	—	1.39	3.00	0.70	1.48	0.74	5.90	2.10
1972	—	0.66	1.10	—	1.44	2.99	0.68	1.34	0.80	6.35	2.38
1973	—	0.71	1.20	—	1.56	3.08	0.90	1.36	0.87	6.40	2.53
1974	—	0.74	2.02	—	2.65	4.17	1.64	2.18	1.12	8.08	3.05
1975	**—**	**0.92**	**2.18**	**—**	**2.66**	**4.34**	**1.72**	**2.17**	**1.29**	**8.59**	**3.34**
1976	—	1.26	2.44	—	2.91	4.57	1.69	2.20	1.62	10.46	4.28
1977	—	1.72	2.79	—	3.42	4.99	1.81	2.36	2.00	11.39	4.82
1978	1.50	1.98	2.91	—	3.63	5.17	1.74	2.39	2.14	11.90	5.13
1979	1.54	2.39	4.29	—	3.85	7.49	2.24	2.43	2.41	13.56	4.62
1980	**1.65**	**2.97**	**6.27**	**—**	**4.92**	**10.53**	**3.02**	**3.36**	**3.17**	**15.87**	**6.70**
1981	—	3.47	7.78	6.73	6.33	11.69	3.84	4.44	3.96	19.21	9.03
1982	—	4.40	7.27	7.47	6.41	11.02	3.82	7.58	4.93	19.69	12.12
1983	1.85	5.33	6.19	6.51	6.97	8.89	—	6.65	5.74	18.32	11.28
1984	1.84	4.99	6.26	7.41	7.02	8.72	—	6.72	5.49	18.81	11.28
1985	**1.85**	**4.95**	**6.24**	**7.04**	**[R] 7.62**	**8.75**	**4.33**	**[R] 6.66**	**[R] 5.51**	**19.50**	**[R] 11.82**
1986	1.78	4.88	3.66	4.25	[R] 8.06	6.54	2.12	[R] 4.99	[R] 4.90	20.66	[R] 12.58
1987	1.70	5.21	4.12	4.96	[R] 8.42	6.97	2.18	[R] 5.29	[R] 5.22	20.22	[R] 12.13
1988	1.68	4.94	3.70	4.40	[R] 8.84	7.27	1.94	[R] 5.42	[R] 5.03	21.34	[R] 12.81
1989	1.70	4.59	4.23	5.22	[R] 8.92	8.07	2.71	[R] 5.59	[R] 4.87	21.18	[R] 12.81
1990	**1.74**	**4.34**	**5.57**	**6.68**	**[R] 5.32**	**9.21**	**—**	**[R] 6.07**	**[R] 4.75**	**[R] 21.34**	**[R] 13.29**
1991	1.74	4.15	4.86	5.82	[R] 6.01	8.92	2.03	[R] 5.46	[R] 4.44	[R] 21.22	13.18
1992	1.71	3.92	4.54	5.57	[R] 5.02	8.62	2.08	[R] 5.39	[R] 4.23	[R] 21.58	[R] 13.10
1993	1.64	4.28	4.43	5.45	[R] 5.16	8.58	—	[R] 5.02	[R] 4.40	[R] 22.16	[R] 13.59
1994	—	4.42	4.10	[R] 5.15	[R] 8.84	8.68	—	[R] 6.26	[R] 4.77	21.50	[R] 13.45
1995	**—**	**4.21**	**4.19**	**5.12**	**9.25**	**8.83**	**—**	**6.64**	**4.53**	**20.92**	**13.47**
	Expenditures in Million Nominal Dollars										
1970	**—**	**13.9**	**0.6**	**—**	**4.6**	**1.4**	**0.1**	**6.7**	**20.5**	**57.0**	**77.5**
1971	—	16.2	0.7	—	4.7	1.5	0.2	7.1	23.3	66.1	89.4
1972	—	16.6	1.0	—	5.3	1.5	1.0	8.8	25.4	79.8	105.2
1973	—	17.1	1.2	—	5.5	1.6	2.8	11.2	28.3	88.6	116.8
1974	—	19.2	2.4	—	8.7	2.3	7.5	20.8	40.0	110.4	150.4
1975	**—**	**22.6**	**3.0**	**—**	**7.4**	**2.4**	**9.7**	**22.5**	**45.1**	**116.7**	**161.8**
1976	—	26.1	4.3	—	8.3	2.6	12.5	27.7	53.8	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	80.1	94.4	161.4	224.4	385.8
1980	**(s)**	**64.1**	**0.9**	**—**	**7.0**	**6.8**	**64.7**	**79.4**	**143.5**	**276.8**	**420.3**
1981	—	68.8	6.2	0.5	8.5	8.1	66.2	89.6	158.4	382.7	541.1
1982	—	78.0	4.8	5.4	8.1	7.8	0.7	26.8	104.8	397.9	502.7
1983	0.2	93.9	32.3	3.8	10.5	8.1	—	54.6	148.8	374.4	523.2
1984	0.1	91.9	32.1	4.8	7.2	7.0	—	51.0	143.0	376.3	519.3
1985	**(s)**	**84.1**	**38.8**	**1.6**	**[R] 9.3**	**6.2**	**0.3**	**[R] 56.1**	**[R] 140.3**	**407.9**	**[R] 548.1**
1986	0.1	84.1	9.4	0.4	[R] 8.8	7.5	1.2	[R] 27.3	[R] 111.5	446.7	[R] 558.1
1987	0.1	94.8	19.1	0.2	[R] 10.9	7.7	0.3	[R] 38.2	[R] 133.1	439.8	[R] 572.9
1988	0.3	90.9	12.9	0.1	[R] 11.9	7.1	0.2	[R] 32.2	[R] 123.4	477.0	[R] 600.4
1989	(s)	83.1	21.1	0.1	[R] 13.2	6.8	0.2	[R] 41.4	[R] 124.5	513.0	[R] 637.6
1990	**(s)**	**78.6**	**19.1**	**0.2**	**[R] 7.3**	**8.0**	**—**	**[R] 34.6**	**[R] 113.2**	**[R] 539.3**	**[R] 652.5**
1991	(s)	75.9	17.2	0.2	[R] 7.1	3.8	(s)	[R] 28.4	[R] 104.3	[R] 541.5	[R] 645.8
1992	(s)	74.1	13.5	0.3	[R] 5.6	7.8	(s)	[R] 27.2	[R] 101.3	[R] 539.6	[R] 640.9
1993	(s)	84.1	8.5	0.2	[R] 7.2	2.2	—	[R] 18.1	[R] 102.2	[R] 553.4	[R] 655.6
1994	—	[R] 87.4	10.3	0.1	[R] 12.2	6.8	—	[R] 29.4	[R] 116.9	567.0	[R] 683.9
1995	**—**	**85.2**	**6.4**	**0.2**	**11.5**	**2.3**	**—**	**20.4**	**105.6**	**586.1**	**691.7**

[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.
(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 158. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Mississippi

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.33**	**0.33**	**0.29**	**0.66**	**0.74**	**0.79**	**1.33**	**5.08**	**2.84**	**0.40**	**0.50**	**0.94**	**—**	**0.50**	**2.94**	**0.70**
1971	—	0.41	0.41	0.32	0.71	0.83	0.90	1.39	5.27	3.00	0.55	0.67	1.00	—	0.54	3.16	0.76
1972	—	0.42	0.42	0.34	0.76	0.83	0.90	1.44	5.58	2.99	0.50	0.66	1.00	—	0.56	3.38	0.80
1973	—	0.45	0.45	0.43	0.79	0.90	0.97	1.56	5.33	3.08	0.59	0.68	1.07	—	0.69	3.71	0.94
1974	—	0.93	0.93	0.56	1.36	1.73	1.87	2.65	7.22	4.17	1.69	R 0.94	R 1.87	—	1.08	5.22	R 1.46
1975	**—**	**1.11**	**1.11**	**0.71**	**1.77**	**1.70**	**1.86**	**2.66**	**7.48**	**4.34**	**1.77**	**R 1.47**	**R 2.04**	**—**	**1.32**	**6.39**	**R 1.93**
1976	—	1.18	1.18	1.02	1.80	2.08	2.27	2.91	7.05	4.57	1.65	1.60	2.25	—	1.64	7.46	2.42
1977	—	1.23	1.23	1.42	1.96	2.72	2.81	3.42	6.97	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	R 2.81	—	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	R 2.18	R 3.45	—	R 2.91	9.87	R 3.92
1980	**—**	**1.65**	**1.65**	**2.66**	**3.56**	**5.55**	**6.21**	**4.92**	**14.36**	**10.53**	**2.82**	**R 3.25**	**R 4.58**	**—**	**R 3.60**	**11.42**	**R 4.89**
1981	—	1.89	1.89	3.22	4.79	6.15	6.73	6.33	18.00	11.69	4.31	R 4.17	R 5.89	—	R 4.55	14.17	R 5.94
1982	—	1.86	1.86	4.00	4.62	6.82	7.47	6.41	17.25	—	4.00	R 3.32	R 5.76	—	R 4.75	15.17	R 6.07
1983	—	1.85	1.85	4.19	4.67	6.47	6.51	6.97	16.98	—	4.02	R 3.03	R 5.94	—	R 4.78	14.41	R 6.11
1984	—	1.84	1.84	3.82	4.44	6.53	7.41	7.02	17.63	8.72	4.83	R 3.46	R 5.92	—	R 4.62	13.68	R 5.79
1985	**—**	**1.85**	**1.85**	**3.68**	**4.81**	**6.21**	**7.04**	**R 7.62**	**17.61**	**8.75**	**4.33**	**R 3.15**	**R 6.13**	**—**	**R 4.64**	**13.94**	**R 6.03**
1986	—	1.78	1.78	3.08	4.90	3.75	4.25	R 8.06	15.59	6.54	2.12	R 2.31	R 4.47	—	R 3.63	14.63	R 5.44
1987	—	1.70	1.70	2.71	3.27	4.37	4.96	R 8.42	R 13.58	6.97	2.18	R 2.49	R 4.57	—	R 3.51	14.74	R 5.46
1988	—	1.68	1.68	2.50	3.03	3.88	4.40	R 8.84	R 14.62	7.27	1.94	R 2.20	R 4.18	—	R 3.22	14.84	R 5.15
1989	—	1.70	1.70	2.46	2.86	4.60	5.22	R 8.92	14.48	8.07	2.71	R 2.58	R 4.83	—	R 3.42	14.18	R 5.29
1990	**—**	**1.74**	**1.74**	**2.49**	**2.93**	**5.89**	**6.68**	**R 5.32**	**14.60**	**9.21**	**3.02**	**R 3.04**	**R 5.08**	**d R 1.24**	**d 3.39**	**R 13.62**	**d R 5.02**
1991	—	1.74	1.74	2.28	3.29	5.13	5.82	R 6.01	R 16.80	8.92	2.03	R 3.73	R 5.08	1.32	R 3.22	R 13.17	R 4.89
1992	—	1.71	1.71	2.40	2.04	4.91	5.57	R 5.02	R 18.32	8.62	2.08	R 3.73	R 4.66	1.31	R 3.08	12.93	R 4.81
1993	—	1.64	1.64	2.92	2.36	4.81	5.45	R 5.16	R 18.96	8.58	2.02	R 3.13	R 4.54	1.30	R 3.22	R 13.46	R 5.16
1994	—	1.65	1.65	2.89	2.47	4.54	5.15	R 5.17	R 19.11	8.68	2.32	R 3.81	R 4.66	1.30	R 3.28	13.14	R 5.30
1995	**—**	**1.64**	**1.64**	**2.66**	**2.63**	**4.51**	**5.12**	**5.06**	**19.40**	**8.83**	**2.47**	**4.02**	**4.69**	**1.32**	**3.13**	**13.03**	**5.17**
	Expenditures in Million Nominal Dollars																
1970	**—**	**0.4**	**0.4**	**37.6**	**7.7**	**13.3**	**11.6**	**10.5**	**7.5**	**4.6**	**0.5**	**R 3.0**	**R 58.6**	**—**	**R 96.6**	**50.2**	**R 146.9**
1971	—	0.5	0.5	43.8	11.5	16.0	9.9	10.7	6.7	4.9	0.3	R 4.8	R 64.8	—	R 109.1	57.8	R 166.9
1972	—	0.5	0.5	45.9	14.1	15.5	10.7	13.3	7.6	4.1	1.6	R 4.7	R 71.8	—	R 118.3	63.7	R 181.9
1973	—	0.5	0.5	53.7	17.1	19.2	19.7	14.9	11.7	4.9	3.4	R 5.4	R 96.3	—	R 150.5	72.6	R 223.1
1974	—	1.1	1.1	64.8	27.4	39.5	15.8	25.9	15.2	4.8	7.6	R 7.3	R 143.4	—	R 209.3	103.6	R 312.9
1975	**—**	**0.6**	**0.6**	**63.2**	**30.4**	**43.4**	**13.8**	**25.9**	**17.0**	**5.0**	**8.3**	**R 12.0**	**R 155.6**	**—**	**R 219.5**	**146.7**	**R 366.2**
1976	—	3.2	3.2	79.2	28.0	65.9	14.5	28.5	17.8	4.9	9.0	R 13.2	R 181.8	—	R 264.2	185.1	R 449.3
1977	—	3.1	3.1	99.8	28.6	106.0	25.9	36.6	14.4	4.7	13.8	R 15.3	R 245.4	—	R 348.3	213.4	R 561.7
1978	—	2.5	2.5	93.5	38.3	125.7	36.1	31.1	16.9	4.4	12.1	R 14.0	R 278.5	—	R 374.4	239.5	R 613.9
1979	—	2.4	2.4	152.1	46.4	113.2	21.8	46.1	23.7	5.5	48.0	R 16.6	R 321.2	—	R 475.7	273.8	R 749.5
1980	**—**	**2.0**	**2.0**	**182.6**	**48.1**	**111.3**	**7.0**	**48.6**	**29.7**	**4.1**	**37.3**	**R 24.2**	**R 310.2**	**—**	**R 494.9**	**310.2**	**R 805.1**
1981	—	4.9	4.9	224.3	56.3	226.5	2.2	43.5	35.7	4.5	42.5	R 25.7	R 436.9	—	R 666.0	349.7	R 1,015.8
1982	—	4.6	4.6	345.8	52.7	192.9	6.4	43.0	31.2	—	61.9	R 21.8	R 409.9	—	R 760.2	351.1	R 1,111.4
1983	—	6.7	6.7	403.5	52.8	185.4	5.4	35.5	32.1	—	9.7	R 23.9	R 344.8	—	R 755.0	366.9	R 1,121.9
1984	—	9.3	9.3	412.9	104.9	184.2	10.1	59.0	35.6	20.5	7.7	R 30.6	R 452.6	—	R 874.8	386.7	R 1,261.5
1985	**—**	**10.7**	**10.7**	**330.6**	**65.5**	**194.8**	**0.8**	**R 59.8**	**33.1**	**34.5**	**2.2**	**R 29.1**	**R 419.9**	**—**	**R 761.3**	**401.9**	**R 1,163.2**
1986	—	10.3	10.3	241.5	61.9	97.4	0.7	R 43.1	28.7	21.6	13.0	R 19.6	R 285.9	—	R 537.7	426.5	R 964.1
1987	—	11.3	11.3	194.7	47.2	140.6	1.2	R 36.2	R 28.2	23.0	0.6	R 20.8	R 297.8	—	R 503.8	444.6	R 948.4
1988	—	10.5	10.5	204.7	52.8	124.5	1.4	R 43.3	29.3	24.2	6.2	R 19.5	R 301.2	—	R 516.4	471.2	R 987.6
1989	—	10.5	10.5	218.8	37.5	133.2	1.1	R 69.7	29.8	23.8	12.4	R 22.3	R 329.8	—	R 559.0	487.7	R 1,046.7
1990	**—**	**10.9**	**10.9**	**226.3**	**48.8**	**194.3**	**1.3**	**R 85.0**	**30.9**	**27.8**	**13.1**	**R 28.5**	**R 429.8**	**d R 29.2**	**d R 696.2**	**530.5**	**d R 1,226.7**
1991	—	9.8	9.8	213.4	55.2	144.2	1.1	R 82.5	31.8	31.4	1.6	R 47.5	R 395.2	R 34.0	R 652.4	R 537.7	R 1,190.1
1992	—	9.9	9.9	223.9	29.4	124.1	0.5	R 73.6	R 35.3	28.9	1.1	R 49.8	R 342.7	R 34.0	R 610.6	R 548.4	R 1,159.0
1993	—	10.4	10.4	259.0	30.5	105.1	1.1	R 65.4	37.2	17.3	2.2	R 43.6	R 302.4	R 35.0	R 606.8	R 594.3	R 1,201.1
1994	—	11.7	11.7	R 221.6	34.6	109.0	0.8	R 71.5	R 39.2	19.1	1.9	R 44.5	R 320.6	R 34.8	R 588.8	608.3	R 1,197.1
1995	**—**	**11.3**	**11.3**	**200.3**	**42.4**	**84.2**	**0.6**	**81.4**	**39.1**	**19.8**	**0.9**	**45.9**	**314.4**	**42.6**	**568.6**	**613.0**	**1,181.6**

[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.

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 159. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Mississippi

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.33**	**—**	**2.17**	**2.02**	**0.73**	**1.33**	**5.08**	**2.84**	**0.43**	**2.64**	**2.64**	**—**	**2.64**
1971	0.41	—	2.21	1.76	0.76	1.39	5.27	3.00	—	2.72	2.72	—	2.72
1972	0.42	—	2.19	1.55	0.76	1.44	5.58	2.99	0.59	2.69	2.69	—	2.69
1973	0.45	—	2.36	1.77	0.90	1.56	5.33	3.08	0.79	2.75	2.75	—	2.75
1974	0.93	—	3.23	2.65	1.56	2.65	7.22	4.17	1.44	3.76	3.76	—	3.76
1975	**1.11**	**—**	**3.45**	**2.75**	**2.03**	**2.66**	**7.48**	**4.34**	**1.49**	**3.91**	**3.91**	**—**	**3.91**
1976	1.18	—	3.59	3.23	2.18	2.91	7.05	4.57	1.54	4.16	4.16	—	4.16
1977	1.23	—	3.97	3.79	2.55	3.42	6.97	4.99	1.60	4.56	4.56	—	4.56
1978	—	—	4.29	3.86	2.88	3.63	7.60	5.17	1.51	4.66	4.66	—	4.66
1979	—	—	5.73	5.43	3.90	3.85	10.21	7.49	1.97	6.61	6.61	—	6.61
1980	**—**	**—**	**9.02**	**7.67**	**6.39**	**4.92**	**14.36**	**10.53**	**2.55**	**8.71**	**8.71**	**—**	**8.71**
1981	—	—	10.84	9.32	7.67	6.33	18.00	11.69	3.31	10.36	10.36	—	10.36
1982	—	—	10.92	8.85	7.42	6.41	17.25	11.02	3.45	9.80	9.80	—	9.80
1983	—	—	10.44	7.52	6.15	6.97	16.98	8.89	3.53	8.19	8.19	—	8.19
1984	—	—	10.27	7.35	6.04	7.02	17.63	8.72	3.62	8.06	8.06	—	8.06
1985	**—**	**—**	**9.99**	**7.05**	**5.84**	**[R] 7.62**	**17.61**	**8.75**	**4.03**	**7.97**	**7.97**	**—**	**7.97**
1986	—	—	8.41	5.96	3.41	[R] 8.06	15.59	6.54	1.90	5.91	5.91	—	5.91
1987	—	—	7.55	6.44	3.97	[R] 8.42	[R] 13.58	6.97	1.92	6.20	6.20	—	6.20
1988	—	—	7.41	6.42	3.43	[R] 8.84	[R] 14.62	7.27	2.79	6.31	6.31	—	6.31
1989	—	—	8.28	7.12	3.92	[R] 8.92	14.48	8.07	2.15	7.12	7.12	—	7.12
1990	**—**	**—**	**9.32**	**8.25**	**5.16**	**[R] 5.32**	**14.60**	**9.21**	**2.01**	**8.15**	**8.15**	**—**	**8.15**
1991	—	—	8.71	7.73	4.59	[R] 6.01	[R] 16.80	8.92	1.71	7.40	7.40	—	7.40
1992	—	—	8.54	7.63	4.33	[R] 5.02	[R] 18.32	8.62	1.65	[R] 7.19	[R] 7.19	—	[R] 7.19
1993	—	—	8.24	7.66	3.96	[R] 5.16	[R] 18.96	8.58	1.58	7.23	7.23	—	7.23
1994	—	2.73	7.96	7.65	3.70	[R] 8.60	[R] 19.11	8.68	[R] 1.55	7.34	7.34	—	7.34
1995	**—**	**1.60**	**8.36**	**7.53**	**3.73**	**8.91**	**19.40**	**8.83**	**1.91**	**7.52**	**7.52**	**—**	**7.52**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**3.5**	**31.6**	**6.3**	**2.4**	**8.7**	**356.5**	**(s)**	**409.1**	**409.1**	**—**	**409.1**
1971	(s)	—	3.7	37.6	6.9	2.8	10.3	393.7	—	455.0	455.0	—	455.0
1972	(s)	—	3.7	36.4	6.6	3.0	11.7	427.5	0.6	489.5	489.5	—	489.5
1973	(s)	—	4.1	52.8	7.4	3.1	10.1	450.3	2.1	529.9	529.9	—	529.9
1974	(s)	—	3.9	82.8	13.0	5.0	13.1	610.8	6.6	735.3	735.3	—	735.3
1975	**(s)**	**—**	**3.5**	**75.1**	**16.3**	**4.6**	**13.9**	**626.2**	**11.1**	**750.7**	**750.7**	**—**	**750.7**
1976	(s)	—	3.1	105.3	16.9	5.8	14.6	688.1	11.6	845.4	845.4	—	845.4
1977	(s)	—	3.2	137.5	20.8	7.2	13.3	793.1	13.6	988.7	988.7	—	988.7
1978	—	—	3.2	155.9	21.4	8.3	15.6	828.9	18.9	1,052.2	1,052.2	—	1,052.2
1979	—	—	3.3	186.3	30.9	0.1	21.9	1,147.6	33.5	1,423.6	1,423.6	—	1,423.6
1980	**—**	**—**	**9.4**	**269.0**	**53.3**	**2.7**	**27.4**	**1,470.2**	**86.0**	**1,918.0**	**1,918.0**	**—**	**1,918.0**
1981	—	—	7.8	371.0	72.8	4.2	32.9	1,686.4	64.3	2,239.3	2,239.3	—	2,239.3
1982	—	—	5.8	349.3	137.6	6.0	28.8	1,522.4	52.3	2,102.2	2,102.2	—	2,102.2
1983	—	—	6.0	318.8	101.0	7.7	29.7	1,239.0	39.3	1,741.5	1,741.5	—	1,741.5
1984	—	—	6.3	351.9	77.4	7.3	32.9	1,204.0	39.4	1,719.3	1,719.3	—	1,719.3
1985	**—**	**—**	**5.4**	**385.5**	**134.1**	**[R] 6.4**	**30.6**	**1,226.6**	**28.1**	**[R] 1,816.6**	**[R] 1,816.6**	**—**	**[R] 1,816.6**
1986	—	—	5.8	342.3	93.8	[R] 5.6	26.5	951.8	21.1	[R] 1,446.8	[R] 1,446.8	—	[R] 1,446.8
1987	—	—	4.3	388.7	171.0	[R] 4.9	[R] 26.1	1,040.3	21.9	[R] 1,657.0	[R] 1,657.0	—	[R] 1,657.0
1988	—	—	4.8	480.4	154.5	[R] 4.3	27.1	1,095.6	30.7	[R] 1,797.4	[R] 1,797.4	—	[R] 1,797.4
1989	—	—	6.4	463.9	144.6	[R] 3.7	27.5	1,198.8	16.2	[R] 1,861.1	[R] 1,861.1	—	[R] 1,861.1
1990	**—**	**—**	**6.2**	**472.5**	**201.1**	**[R] 2.6**	**28.5**	**1,363.4**	**19.7**	**[R] 2,094.0**	**[R] 2,094.0**	**—**	**[R] 2,094.0**
1991	—	—	4.8	447.1	208.6	[R] 2.4	29.4	1,360.9	42.3	[R] 2,095.5	[R] 2,095.5	—	[R] 2,095.5
1992	—	—	4.1	463.4	269.5	[R] 1.7	[R] 32.6	1,346.1	27.2	[R] 2,144.7	[R] 2,144.7	—	[R] 2,144.7
1993	—	—	3.5	471.6	186.0	[R] 2.0	34.4	1,417.7	32.3	[R] 2,147.4	[R] 2,147.4	—	[R] 2,147.4
1994	—	(s)	2.9	484.6	141.4	[R] 4.9	[R] 36.2	1,472.5	[R] 34.9	[R] 2,177.5	[R] 2,177.5	—	[R] 2,177.5
1995	**—**	**0.4**	**4.2**	**439.3**	**159.9**	**2.3**	**36.2**	**1,555.2**	**30.7**	**2,227.9**	**2,228.3**	**—**	**2,228.3**

[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 160. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Mississippi

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.26**	**0.27**	**0.48**	**0.61**	**—**	**0.48**	**—**	**—**	**0.27**
1971	0.29	0.30	0.70	0.93	—	0.71	—	—	0.32
1972	0.36	0.31	0.69	0.92	—	0.69	—	—	0.37
1973	0.40	0.40	0.88	1.03	—	0.88	—	—	0.54
1974	0.61	0.56	1.62	2.09	—	1.62	—	—	1.01
1975	**0.82**	**0.83**	**1.69**	**2.08**	**—**	**1.70**	**—**	**—**	**1.24**
1976	1.03	1.27	1.70	2.24	—	1.71	—	—	1.44
1977	1.09	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	2.18	3.73	—	2.19	—	—	1.87
1980	**1.84**	**2.11**	**3.03**	**5.47**	**—**	**3.06**	**—**	**—**	**2.16**
1981	2.28	2.61	3.79	7.13	—	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	2.88	3.76	6.09	—	4.36	1.08	—	2.60
1985	**2.54**	**2.80**	**4.16**	**5.97**	**—**	**4.78**	**1.13**	**—**	**2.30**
1986	2.29	2.32	2.06	4.45	—	2.13	1.15	—	2.05
1987	1.96	1.85	2.07	3.76	—	2.38	0.89	—	1.57
1988	1.81	1.85	3.18	4.99	—	3.26	1.40	—	1.70
1989	1.67	1.83	2.48	5.32	—	2.65	1.17	—	1.56
1990	**1.65**	**1.76**	**2.35**	**4.80**	**—**	**2.44**	**1.11**	**—**	**1.54**
1991	1.67	1.57	1.94	4.74	—	2.25	0.88	—	1.35
1992	1.60	1.80	1.85	4.68	—	1.96	0.70	—	1.31
1993	1.64	2.42	1.75	4.39	—	1.76	0.56	—	1.42
1994	1.57	1.90	1.58	4.16	—	1.65	0.52	—	1.30
1995	**1.53**	**1.71**	**1.87**	**3.79**	**—**	**3.48**	**0.52**	**—**	**1.31**
	Expenditures in Million Nominal Dollars								
1970	**3.1**	**27.3**	**1.2**	**(s)**	**—**	**1.3**	**—**	**—**	**31.7**
1971	3.5	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	20.3	24.5	86.9	1.4	—	88.3	—	—	133.1
1975	**26.9**	**26.9**	**97.6**	**3.2**	**—**	**100.8**	**—**	**—**	**154.7**
1976	40.8	42.4	133.4	4.7	—	138.1	—	—	221.3
1977	39.3	53.8	186.9	6.6	—	193.5	—	—	286.6
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**	**96.7**	**2.2**	**—**	**98.9**	**—**	**—**	**438.6**
1981	183.4	197.8	66.4	3.4	—	69.8	—	—	451.0
1982	238.1	269.5	8.8	2.3	—	11.1	—	—	518.8
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**	**155.6**	**2.8**	**2.1**	**—**	**4.9**	**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	—	23.8	143.8	—	453.7
1989	150.8	84.5	19.9	2.7	—	22.6	97.9	—	355.7
1990	**161.3**	**119.1**	**17.4**	**1.4**	**—**	**18.8**	**87.9**	**—**	**387.1**
1991	149.6	100.6	7.4	2.2	—	9.5	86.7	—	346.5
1992	129.3	100.2	7.2	0.8	—	8.0	61.3	—	298.8
1993	152.6	98.5	60.4	0.9	—	61.3	47.0	—	359.5
1994	141.8	163.4	16.7	1.2	—	17.9	53.5	—	376.5
1995	**148.6**	**197.6**	**0.1**	**0.9**	**—**	**1.0**	**44.8**	**—**	**392.0**

[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 161. Energy Price and Expenditure Estimates by Source, 1970-1995, 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**	**1.05**	**0.75**	**1.79**	**2.73**	**0.56**	**1.39**	**1.97**	**—**	**—**	**1.16**	**0.26**	**6.17**	**[R] 1.83**
1971	0.44	0.30	0.30	0.67	1.11	0.78	1.79	2.89	0.66	[R] 1.50	2.12	—	—	1.24	0.29	6.32	1.97
1972	0.57	0.32	0.33	0.75	1.11	0.78	1.83	2.86	0.60	[R] 1.59	[R] 2.12	—	—	1.25	0.31	6.54	2.02
1973	0.66	0.36	0.37	0.78	1.33	0.93	2.89	3.13	0.79	[R] 1.61	2.38	—	—	1.37	0.34	6.81	2.23
1974	1.23	0.46	0.48	0.89	2.36	1.60	2.89	4.32	1.71	[R] 2.54	[R] 3.41	—	—	1.87	0.44	7.60	2.91
1975	**1.60**	**0.60**	**0.62**	**1.16**	**2.52**	**2.09**	**3.06**	**4.55**	**1.78**	**[R] 2.97**	**[R] 3.67**	**—**	**—**	**2.08**	**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	[R] 3.13	[R] 3.85	—	—	2.23	0.66	9.87	[R] 3.61
1977	1.76	0.80	0.81	1.84	2.98	2.69	3.99	5.04	2.05	[R] 3.29	[R] 4.12	—	—	2.50	0.81	10.29	4.03
1978	1.89	1.04	1.05	1.95	3.10	2.90	3.90	5.01	2.01	[R] 3.40	[R] 4.12	—	—	2.66	1.06	11.49	[R] 4.30
1979	1.75	1.10	1.11	2.52	4.49	4.03	5.22	6.93	2.48	[R] 4.61	[R] 5.67	—	—	[R] 3.45	1.11	12.24	[R] 5.48
1980	**1.81**	**1.21**	**1.22**	**2.95**	**6.61**	**6.47**	**6.32**	**9.33**	**3.33**	**[R] 7.04**	**[R] 8.06**	**—**	**—**	**[R] 4.39**	**1.25**	**13.91**	**[R] 7.21**
1981	2.03	1.37	1.38	3.65	7.86	7.60	6.80	10.15	3.83	[R] 9.05	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	9.88	4.16	[R] 8.74	[R] 8.91	—	—	[R] 5.19	1.48	16.09	[R] 8.57
1983	1.58	1.50	1.50	5.56	6.99	6.44	7.42	8.74	4.16	[R] 8.63	[R] 8.17	—	—	[R] 4.92	1.53	16.96	[R] 8.62
1984	1.91	1.50	1.50	5.35	7.07	6.27	7.27	8.48	4.64	[R] 8.79	[R] 8.05	0.78	—	[R] 4.75	1.50	16.11	[R] 8.33
1985	**1.93**	**1.51**	**1.51**	**4.94**	**6.79**	**5.90**	**[R] 8.26**	**8.56**	**4.09**	**[R] 8.27**	**[R] 7.96**	**0.82**	**—**	**[R] 4.60**	**1.41**	**17.16**	**[R] 8.35**
1986	1.75	1.46	1.46	4.52	5.27	3.95	[R] 6.72	6.11	2.25	[R] 6.15	[R] 5.82	0.82	—	[R] 3.74	1.38	18.45	[R] 7.38
1987	1.63	1.40	1.40	4.28	5.75	4.13	[R] 6.82	6.81	2.60	[R] 6.39	[R] 6.33	0.52	—	[R] 3.88	1.31	18.90	[R] 7.77
1988	—	1.37	1.37	4.37	5.50	3.89	[R] 7.13	6.82	2.14	[R] 5.70	[R] 6.19	0.73	—	[R] 3.79	1.29	18.94	[R] 7.70
1989	—	1.35	1.35	4.51	6.15	4.36	[R] 7.45	7.45	2.35	[R] 6.30	[R] 6.80	0.71	—	[R] 4.06	1.26	18.92	[R] 8.10
1990	**—**	**1.35**	**1.35**	**4.69**	**7.43**	**5.68**	**[R] 9.04**	**8.61**	**2.54**	**[R] 6.58**	**[R] 7.91**	**0.74**	**[d R] 3.03**	**[d R] 4.53**	**1.27**	**18.94**	**[d R] 8.88**
1991	—	1.34	1.34	4.52	6.91	4.81	[R] 8.06	8.30	2.15	[R] 6.62	[R] 7.57	0.71	3.04	[R] 4.29	1.24	18.95	[R] 8.76
1992	—	1.34	1.34	4.60	6.80	4.57	[R] 7.43	8.11	2.22	[R] 6.78	[R] 7.39	0.58	[R] 3.08	[R] 4.33	1.23	18.79	[R] 8.57
1993	—	1.25	1.25	4.88	6.75	4.24	[R] 8.15	7.92	2.23	[R] 6.22	[R] 7.18	0.56	[R] 3.00	[R] 4.44	1.14	18.55	[R] 8.51
1994	—	1.12	1.12	4.86	6.77	3.94	[R] 7.80	8.16	1.63	[R] 5.60	[R] 7.16	0.49	[R] 2.96	[R] 4.24	1.01	18.41	[R] 8.51
1995	**—**	**1.00**	**1.00**	**4.36**	**6.72**	**3.99**	**7.82**	**8.31**	**2.30**	**6.08**	**7.29**	**0.48**	**2.91**	**4.16**	**0.94**	**18.32**	**8.52**
	Expenditures in Million Nominal Dollars																
1970	**3.1**	**77.2**	**80.3**	**265.4**	**99.1**	**34.1**	**79.5**	**803.2**	**11.4**	**[R] 100.2**	**[R] 1,127.5**	**—**	**—**	**[R] 1,473.1**	**-76.3**	**542.4**	**[R] 1,939.3**
1971	3.7	85.9	89.6	280.3	105.6	35.6	80.3	891.7	10.5	[R] 98.4	[R] 1,222.1	—	—	[R] 1,592.0	-93.8	584.9	[R] 2,083.1
1972	4.9	105.2	110.1	313.5	118.1	37.0	85.6	919.7	8.7	[R] 103.0	[R] 1,272.1	—	—	[R] 1,695.7	-107.6	639.6	[R] 2,227.7
1973	6.0	134.0	140.0	320.7	147.6	42.1	131.7	1,027.9	14.0	[R] 121.8	[R] 1,485.1	—	—	[R] 1,945.8	-135.1	705.6	[R] 2,516.3
1974	10.1	173.5	183.6	358.1	241.6	69.3	134.1	1,396.2	22.3	[R] 186.8	[R] 2,050.2	—	—	[R] 2,591.8	-168.6	784.5	[R] 3,207.7
1975	**11.9**	**254.9**	**266.8**	**423.0**	**261.8**	**98.2**	**147.5**	**1,490.4**	**21.7**	**[R] 187.4**	**[R] 2,207.0**	**—**	**—**	**[R] 2,896.7**	**-234.0**	**974.3**	**[R] 3,637.0**
1976	13.1	315.0	328.1	513.9	312.8	100.7	171.5	1,625.9	27.7	[R] 248.1	[R] 2,486.8	—	—	[R] 3,328.8	-294.2	1,144.8	[R] 4,179.5
1977	15.1	395.5	410.6	665.7	359.8	121.1	195.9	1,762.3	39.9	[R] 292.5	[R] 2,771.6	—	—	[R] 3,847.9	-394.9	1,281.4	[R] 4,734.4
1978	10.2	500.4	510.6	691.0	418.3	133.3	188.5	1,787.3	40.6	[R] 339.0	[R] 2,907.0	—	—	[R] 4,108.6	-511.5	1,544.7	[R] 5,141.9
1979	13.0	553.6	566.6	835.9	605.1	170.6	260.1	2,305.7	45.9	[R] 457.9	[R] 3,845.3	—	—	[R] 5,247.8	-547.3	1,688.5	[R] 6,389.0
1980	**9.6**	**637.7**	**647.4**	**928.2**	**708.2**	**229.5**	**211.7**	**2,889.0**	**23.2**	**[R] 632.7**	**[R] 4,694.2**	**—**	**—**	**[R] 6,269.8**	**-639.6**	**2,022.4**	**[R] 7,652.7**
1981	10.0	727.1	737.1	1,014.9	833.7	203.8	182.4	3,122.9	13.0	[R] 735.3	[R] 5,091.1	—	—	[R] 6,843.1	-700.0	2,106.7	[R] 8,249.9
1982	8.1	752.5	760.6	1,342.0	921.7	177.8	235.7	3,002.6	19.1	[R] 604.0	[R] 4,960.8	—	—	[R] 7,063.4	-731.8	2,301.9	[R] 8,633.5
1983	5.4	841.5	846.9	1,454.6	689.9	199.0	241.5	2,697.9	15.6	[R] 574.9	[R] 4,418.7	—	—	[R] 6,720.3	-813.9	2,612.8	[R] 8,519.2
1984	5.4	887.1	892.5	1,414.0	766.4	199.0	145.7	2,668.1	10.9	[R] 628.8	[R] 4,418.9	7.8	—	[R] 6,733.2	-850.7	2,496.6	[R] 8,379.1
1985	**12.0**	**788.8**	**800.8**	**1,284.0**	**774.5**	**196.6**	**[R] 166.2**	**2,699.9**	**18.8**	**[R] 585.4**	**[R] 4,441.5**	**71.3**	**—**	**[R] 6,597.7**	**-811.7**	**2,712.0**	**[R] 8,498.0**
1986	10.8	739.3	750.1	1,089.0	562.2	149.9	[R] 144.6	2,034.0	7.8	[R] 456.4	[R] 3,355.0	63.1	—	[R] 5,257.2	-761.7	3,038.6	[R] 7,534.1
1987	3.4	738.0	741.4	994.0	645.3	174.6	[R] 155.3	2,274.5	11.1	[R] 466.0	[R] 3,726.7	34.9	—	[R] 5,497.0	-733.5	3,232.6	[R] 7,996.1
1988	—	751.9	751.9	1,090.0	680.0	160.8	[R] 170.6	2,326.8	10.1	[R] 467.7	[R] 3,816.0	70.3	—	[R] 5,728.3	-781.9	3,377.0	[R] 8,323.4
1989	—	740.3	740.3	1,124.5	793.4	179.6	[R] 227.8	2,492.9	8.3	[R] 470.3	[R] 4,172.4	63.1	—	[R] 6,100.4	-762.9	3,396.0	[R] 8,733.4
1990	**—**	**728.0**	**728.0**	**1,107.8**	**898.0**	**213.8**	**[R] 225.3**	**2,879.3**	**10.0**	**[R] 507.4**	**[R] 4,733.8**	**62.9**	**[d R] 17.9**	**[d R] 6,650.4**	**-754.7**	**[R] 3,484.6**	**[d R] 9,380.3**
1991	—	717.7	717.7	1,157.2	817.1	204.2	[R] 251.6	2,786.1	7.4	[R] 331.3	[R] 4,397.6	76.5	18.8	[R] 6,367.8	-774.2	[R] 3,653.4	[R] 9,247.1
1992	—	699.3	699.3	1,099.3	889.4	194.6	[R] 228.1	2,780.7	9.3	[R] 332.9	[R] 4,435.1	49.7	[R] 19.5	[R] 6,302.9	-715.7	[R] 3,489.1	[R] 9,076.3
1993	—	582.1	582.1	1,322.7	896.3	216.8	[R] 281.8	2,750.9	15.1	[R] 349.8	[R] 4,510.6	50.1	[R] 16.8	[R] 6,482.2	-609.6	[R] 3,709.7	[R] 9,582.3
1994	—	606.0	606.0	1,294.1	968.6	237.2	[R] 266.8	2,893.9	5.5	[R] 388.0	[R] 4,759.8	52.4	[R] 16.6	[R] 6,728.9	-636.0	[R] 3,749.1	[R] 9,842.0
1995	**—**	**594.2**	**594.2**	**1,192.9**	**1,000.4**	**258.6**	**314.1**	**3,008.0**	**5.2**	**395.8**	**4,982.1**	**41.9**	**18.3**	**6,829.4**	**-627.3**	**3,891.8**	**10,093.9**

[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 162. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Missouri

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**0.86**	**0.96**	**1.19**	**1.43**	**1.95**	**1.81**	**—**	**1.13**	**7.86**	**2.09**
1971	1.04	1.01	1.29	1.56	1.93	1.81	—	1.18	7.85	2.20
1972	1.05	1.08	1.30	1.58	1.99	1.85	—	1.25	8.05	2.30
1973	0.77	1.16	1.41	1.83	3.34	2.94	—	1.56	8.27	2.70
1974	1.40	1.26	2.43	2.78	2.98	2.87	—	1.61	9.17	2.88
1975	**1.72**	**1.48**	**2.62**	**2.88**	**3.26**	**3.14**	**—**	**1.85**	**10.06**	**3.39**
1976	1.63	1.69	2.86	3.15	3.78	3.59	—	2.09	11.10	3.72
1977	2.00	2.17	3.22	3.66	4.26	4.05	—	2.58	11.75	4.41
1978	2.04	2.27	3.30	3.89	4.03	3.87	—	2.60	12.92	4.79
1979	1.88	2.82	4.91	5.36	6.53	6.07	—	3.41	13.66	5.67
1980	**1.70**	**3.23**	**6.85**	**7.95**	**7.06**	**7.01**	**—**	**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	1.66	5.11	7.84	9.73	8.21	8.16	—	5.56	17.92	8.75
1983	2.10	5.96	7.22	8.86	7.78	7.71	—	6.22	19.07	9.99
1984	2.04	5.75	7.08	8.93	7.56	7.48	—	5.91	17.94	9.47
1985	**1.73**	**5.40**	**6.70**	**8.45**	**7.53**	**7.33**	**—**	**5.60**	**19.27**	**9.66**
1986	1.54	4.98	4.95	6.24	5.81	5.60	—	5.04	20.87	10.09
1987	1.37	4.71	4.66	5.87	6.41	6.05	—	4.85	21.59	10.44
1988	1.25	4.73	4.71	5.94	6.82	6.37	—	4.89	21.49	10.34
1989	1.43	4.80	5.88	7.41	8.02	7.74	—	5.17	21.50	10.37
1990	**1.56**	**5.15**	**7.27**	**9.16**	**9.61**	**9.33**	**[d] 3.56**	**[d] 5.57**	**21.56**	**[d] 10.61**
1991	1.53	5.10	6.75	8.51	8.54	8.34	3.56	5.49	[R] 21.65	[R] 10.63
1992	1.33	5.10	5.36	6.76	7.52	7.31	3.56	5.34	21.80	[R] 10.33
1993	1.72	5.35	5.46	6.88	7.23	7.05	3.56	5.51	21.29	10.42
1994	0.98	5.40	6.32	7.97	[R] 8.01	[R] 7.86	3.56	[R] 5.68	21.37	[R] 10.79
1995	**0.95**	**5.12**	**5.33**	**6.72**	**8.01**	**7.70**	**3.56**	**5.43**	**21.26**	**10.68**
	Expenditures in Million Nominal Dollars									
1970	**0.6**	**150.9**	**9.1**	**0.6**	**65.9**	**75.5**	**—**	**227.1**	**259.5**	**486.6**
1971	0.6	155.8	9.9	0.7	65.7	76.3	—	232.8	279.6	512.4
1972	0.7	175.6	11.6	0.4	71.0	82.9	—	259.3	306.8	566.1
1973	1.2	178.3	12.7	0.4	116.9	130.1	—	309.5	336.6	646.2
1974	2.3	194.1	19.8	0.6	101.8	122.2	—	318.5	370.1	688.6
1975	**2.0**	**232.0**	**21.9**	**0.5**	**115.5**	**137.9**	**—**	**371.9**	**468.8**	**840.7**
1976	2.2	272.2	25.7	0.8	130.9	157.3	—	431.7	503.6	935.3
1977	1.7	336.5	27.3	0.8	145.5	173.6	—	511.7	582.6	1,094.3
1978	3.8	364.0	31.6	0.7	131.8	164.1	—	531.9	709.9	1,241.8
1979	4.4	444.6	50.7	1.4	169.7	221.7	—	670.7	763.1	1,433.8
1980	**1.1**	**471.2**	**49.7**	**2.6**	**129.4**	**181.7**	**—**	**654.0**	**967.9**	**1,622.0**
1981	1.4	516.9	66.5	4.2	119.4	190.1	—	708.4	914.4	1,622.7
1982	1.1	707.3	51.4	6.8	143.2	201.3	—	909.8	1,021.8	1,931.6
1983	2.1	775.2	29.5	3.5	161.3	194.3	—	971.6	1,236.3	2,208.0
1984	2.0	763.9	31.3	5.1	86.2	122.6	—	888.5	1,131.8	2,020.3
1985	**2.2**	**703.3**	**31.8**	**4.5**	**94.8**	**131.2**	**—**	**836.7**	**1,215.3**	**2,052.0**
1986	1.3	606.9	23.6	2.0	82.6	108.3	—	716.4	1,386.2	2,102.6
1987	2.6	552.4	17.8	1.8	96.1	115.6	—	670.6	1,496.5	2,167.1
1988	2.1	610.8	17.4	2.0	96.2	115.6	—	728.5	1,565.0	2,293.5
1989	2.8	625.1	16.2	2.9	147.4	166.5	—	794.3	1,545.0	2,339.4
1990	**3.4**	**604.1**	**15.0**	**1.5**	**146.1**	**162.6**	**[d] 15.1**	**[d] 785.2**	**[R] 1,592.7**	**[d R] 2,377.9**
1991	3.0	620.3	16.9	1.8	169.4	188.1	15.9	827.2	[R] 1,727.7	[R] 2,554.9
1992	2.3	596.1	11.2	0.8	151.0	163.0	16.7	778.1	[R] 1,583.5	[R] 2,361.7
1993	3.5	720.5	13.2	1.5	152.9	167.5	13.9	905.5	[R] 1,756.7	[R] 2,662.1
1994	1.7	665.5	13.0	1.1	[R] 168.0	[R] 182.1	13.6	[R] 863.0	[R] 1,754.4	[R] 2,617.3
1995	**1.6**	**645.6**	**14.6**	**1.2**	**169.5**	**185.4**	**15.1**	**847.7**	**1,842.9**	**2,690.6**

[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.

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 163. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Missouri

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.49**	**0.62**	**1.03**	**0.82**	**1.27**	**2.73**	**0.57**	**0.93**	**0.69**	**7.00**	**1.66**
1971	0.43	0.65	1.11	0.89	1.36	2.89	0.67	1.06	0.73	7.23	1.78
1972	0.53	0.74	1.12	0.89	1.32	2.86	0.59	1.08	0.80	7.37	1.88
1973	0.55	0.78	1.24	1.06	1.41	3.13	0.78	1.23	0.86	7.60	2.09
1974	0.82	0.89	2.29	2.26	2.65	4.32	1.79	2.34	1.14	8.43	2.43
1975	**1.17**	**1.14**	**2.45**	**2.40**	**2.49**	**4.55**	**1.77**	**2.38**	**1.36**	**9.46**	**2.87**
1976	1.23	1.35	2.67	2.60	2.80	4.75	1.72	2.52	1.55	10.58	3.67
1977	1.27	1.86	3.01	2.88	3.38	5.04	2.03	2.86	2.04	10.65	4.22
1978	1.42	1.99	3.07	3.09	3.63	5.01	1.99	2.95	2.15	12.01	4.57
1979	1.51	2.58	4.80	3.78	3.79	6.93	2.52	3.86	2.79	12.79	5.40
1980	**1.58**	**2.88**	**6.49**	**6.10**	**5.42**	**9.33**	**3.47**	**5.74**	**3.32**	**14.33**	**6.87**
1981	1.69	3.54	7.80	7.37	6.39	10.15	4.50	7.62	4.07	15.42	7.91
1982	1.71	4.68	7.46	7.15	6.21	9.88	4.29	7.27	5.06	16.70	8.96
1983	1.61	5.46	6.38	6.74	6.80	8.74	4.20	6.44	5.56	17.55	9.70
1984	1.60	5.18	6.37	6.83	6.89	8.48	4.66	6.55	5.34	17.01	9.65
1985	**1.56**	**4.88**	**6.04**	**6.50**	**[R] 9.50**	**8.56**	**4.11**	**[R] 6.79**	**[R] 5.11**	**17.94**	**[R] 10.28**
1986	1.38	4.35	3.70	4.20	[R] 8.51	6.11	2.25	[R] 4.79	[R] 4.37	19.02	[R] 10.43
1987	1.27	4.06	4.22	4.65	[R] 7.60	6.81	2.61	[R] 4.97	[R] 4.12	19.04	[R] 10.53
1988	1.27	4.17	3.81	4.30	[R] 7.58	6.82	2.20	[R] 4.68	[R] 4.15	19.06	10.62
1989	1.29	4.31	4.45	4.88	[R] 6.58	7.45	2.41	[R] 5.43	[R] 4.31	19.03	10.98
1990	**1.31**	**4.48**	**5.46**	**6.01**	**[R] 8.15**	**8.61**	**2.60**	**[R] 6.52**	**[R] 4.57**	**18.98**	**[R] 11.38**
1991	1.34	4.46	4.84	5.35	[R] 7.23	8.30	2.21	[R] 5.78	[R] 4.50	18.79	[R] 11.16
1992	1.35	4.46	4.64	5.29	[R] 7.27	8.11	2.28	[R] 5.68	[R] 4.51	[R] 18.81	[R] 11.24
1993	1.36	4.74	4.46	5.13	[R] 9.60	7.92	2.26	[R] 6.36	[R] 4.80	18.45	[R] 11.02
1994	1.43	4.82	4.25	[R] 4.98	[R] 8.08	8.16	1.62	[R] 5.66	[R] 4.80	18.28	[R] 11.20
1995	**1.42**	**4.36**	**4.27**	**4.99**	**8.11**	**8.31**	**2.36**	**5.66**	**4.44**	**18.20**	**11.16**
	Expenditures in Million Nominal Dollars										
1970	**0.6**	**54.9**	**6.5**	**2.0**	**7.5**	**2.2**	**6.0**	**24.2**	**79.8**	**147.3**	**227.1**
1971	0.5	58.2	7.0	2.5	8.2	2.3	5.6	25.6	84.3	161.6	245.9
1972	0.7	73.5	8.2	1.3	8.3	2.3	3.5	23.6	97.8	176.7	274.5
1973	1.6	71.0	9.3	1.6	8.7	2.6	4.4	26.6	99.2	195.7	295.0
1974	2.5	80.9	15.4	2.9	16.0	3.6	10.1	48.0	131.3	206.8	338.0
1975	**2.5**	**104.7**	**16.9**	**2.4**	**15.5**	**3.8**	**8.5**	**47.2**	**154.4**	**246.5**	**400.9**
1976	3.1	133.3	19.8	4.0	17.1	4.0	10.6	55.5	191.8	399.4	591.2
1977	2.0	173.9	21.1	3.8	20.4	4.3	15.3	64.8	240.7	426.8	667.4
1978	4.9	197.5	24.4	3.3	20.9	4.3	14.0	66.9	269.3	490.2	759.5
1979	6.6	239.1	41.0	6.1	17.4	6.0	19.3	89.7	335.3	544.8	880.0
1980	**1.8**	**222.7**	**37.9**	**5.9**	**17.5**	**10.9**	**12.1**	**84.4**	**308.8**	**634.8**	**943.7**
1981	2.5	245.9	35.1	16.6	19.1	15.9	0.8	87.6	336.0	651.1	987.0
1982	2.1	333.2	45.5	23.7	19.1	11.7	0.8	100.9	436.2	727.4	1,163.6
1983	3.0	370.7	60.3	1.3	24.9	9.7	6.2	102.3	476.0	793.1	1,269.1
1984	2.9	354.2	65.0	1.1	13.9	12.8	4.6	97.4	454.4	846.0	1,300.4
1985	**3.6**	**299.5**	**51.6**	**1.2**	**[R] 21.1**	**11.8**	**3.1**	**[R] 88.8**	**[R] 391.9**	**930.8**	**[R] 1,322.7**
1986	2.1	272.1	31.9	0.2	[R] 21.4	10.4	1.8	[R] 65.7	[R] 340.0	1,043.8	[R] 1,383.7
1987	4.4	239.2	45.6	0.2	[R] 20.1	11.2	2.0	[R] 79.0	[R] 322.7	1,121.0	[R] 1,443.7
1988	4.1	268.1	36.9	0.4	[R] 18.9	8.9	1.4	[R] 66.5	[R] 338.7	1,193.0	[R] 1,531.7
1989	4.7	273.6	24.0	0.3	[R] 21.4	8.3	0.5	[R] 54.5	[R] 332.8	1,218.0	[R] 1,550.8
1990	**5.3**	**269.0**	**28.1**	**0.3**	**[R] 21.9**	**10.7**	**1.0**	**[R] 61.9**	**[R] 336.3**	**1,252.0**	**[R] 1,588.3**
1991	4.8	284.4	31.3	0.1	[R] 25.3	5.6	0.4	[R] 62.7	[R] 351.9	[R] 1,282.9	[R] 1,634.8
1992	4.4	272.5	31.8	0.5	[R] 25.8	5.1	(s)	[R] 63.2	[R] 340.1	[R] 1,262.9	[R] 1,603.0
1993	5.1	331.6	29.8	0.4	[R] 35.8	4.7	0.1	[R] 70.8	[R] 407.6	[R] 1,311.1	[R] 1,718.7
1994	4.6	321.1	29.6	0.4	[R] 29.9	4.4	0.2	[R] 64.5	[R] 390.2	[R] 1,342.0	[R] 1,732.1
1995	**4.4**	**285.7**	**32.0**	**0.3**	**30.3**	**4.3**	**(s)**	**66.9**	**357.0**	**1,398.6**	**1,755.6**

[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.

(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 164. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Missouri

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.49**	**0.47**	**0.40**	**0.71**	**0.77**	**0.82**	**1.27**	**5.08**	**2.73**	**0.53**	R **1.41**	**1.19**	**—**	**0.77**	**4.01**	**1.12**
1971	0.44	0.43	0.43	0.43	0.82	0.82	0.89	1.36	5.27	2.89	0.63	R 1.66	R 1.30	—	0.81	4.15	R 1.21
1972	0.57	0.53	0.54	0.44	0.84	0.82	0.89	1.32	5.58	2.86	0.64	R 1.66	R 1.29	—	0.83	4.37	R 1.26
1973	0.66	0.55	0.58	0.46	0.81	0.98	1.06	1.41	5.33	3.13	0.81	R 1.82	R 1.43	—	0.92	4.65	1.34
1974	1.23	0.82	0.90	0.57	1.70	2.10	2.26	2.65	7.22	4.32	1.60	R 2.41	R 2.39	—	R 1.44	5.41	R 1.93
1975	**1.60**	**1.17**	**1.24**	**0.80**	**2.05**	**2.25**	**2.40**	**2.49**	**7.48**	**4.55**	**1.82**	R **2.87**	R **2.70**	**—**	**1.75**	**6.46**	**2.40**
1976	1.67	1.23	1.30	0.99	1.98	2.42	2.60	2.80	7.05	4.75	1.83	R 3.19	R 2.87	—	R 1.97	7.38	R 2.55
1977	1.76	1.27	1.36	1.44	2.03	2.68	2.88	3.38	6.97	5.04	2.15	R 3.46	R 3.10	—	R 2.28	7.79	R 2.89
1978	1.89	1.42	1.48	1.45	2.10	2.84	3.09	3.63	7.60	5.01	2.10	R 3.62	R 3.19	—	R 2.49	8.91	R 3.30
1979	1.75	1.51	1.56	1.99	2.51	3.58	3.78	3.79	10.21	6.93	2.50	R 4.89	R 4.12	—	R 3.25	9.64	R 4.06
1980	**1.81**	**1.58**	**1.61**	**2.61**	**3.59**	**5.83**	**6.10**	**5.42**	**14.36**	**9.33**	**3.09**	R **7.52**	R **6.45**	**—**	R **4.55**	**11.21**	R **5.43**
1981	2.03	1.69	1.73	3.28	4.54	7.00	7.37	6.39	18.00	10.15	3.75	R 9.34	R 7.93	—	5.45	11.80	6.51
1982	2.04	1.71	1.75	4.34	4.63	6.75	7.15	6.21	17.25	9.88	4.13	R 9.37	R 7.47	—	R 5.64	13.02	R 6.86
1983	1.58	1.61	1.61	4.88	4.93	6.67	6.74	6.80	16.98	8.74	4.12	R 8.91	R 7.55	—	R 5.59	13.25	R 7.05
1984	1.91	1.60	1.62	4.73	5.19	6.61	6.83	6.89	17.63	8.48	4.66	R 9.08	R 7.67	—	R 5.56	12.32	R 6.75
1985	**1.93**	**1.56**	**1.62**	**4.14**	**4.77**	**6.30**	**6.50**	R **9.50**	**17.61**	**8.56**	**4.11**	R **8.79**	R **7.27**	**—**	R **5.16**	**13.14**	R **6.52**
1986	1.75	1.38	1.44	3.75	3.81	4.07	4.20	R 8.51	15.59	6.11	2.25	R 5.82	R 5.29	—	R 4.05	14.02	R 5.91
1987	1.63	1.27	1.29	3.61	3.70	4.51	4.65	R 7.60	R 13.58	6.81	2.61	R 6.61	R 5.56	—	R 4.20	14.36	R 6.09
1988	—	1.27	1.27	3.79	3.53	4.17	4.30	R 7.58	R 14.62	6.82	2.20	R 5.58	R 5.01	—	R 4.02	14.45	R 5.84
1989	—	1.29	1.29	4.10	3.12	4.73	4.88	R 6.58	14.48	7.45	2.41	R 6.76	R 5.51	—	R 4.37	14.50	R 6.27
1990	**—**	**1.31**	**1.31**	**4.14**	**3.11**	**5.82**	**6.01**	R **8.15**	**14.60**	**8.61**	**2.60**	R **7.14**	R **6.01**	d R **1.69**	d R **4.67**	**14.50**	d R **6.53**
1991	—	1.34	1.34	4.04	3.22	5.19	5.35	R 7.23	R 16.80	8.30	2.21	R 6.61	R 5.55	1.69	R 4.24	14.37	R 6.41
1992	—	1.35	1.35	3.86	2.46	5.13	5.29	R 7.27	R 18.32	8.11	2.28	R 7.09	R 5.43	R 1.69	R 4.16	R 14.01	R 6.32
1993	—	1.36	1.36	4.23	2.86	4.97	5.13	R 9.60	R 18.96	7.92	2.26	R 6.38	R 5.75	R 1.69	R 4.48	R 13.81	R 6.44
1994	—	1.43	1.43	4.15	2.74	4.82	4.98	R 7.09	R 19.11	8.16	1.62	R 6.43	R 5.24	R 1.69	R 4.32	13.55	R 6.15
1995	**—**	**1.42**	**1.42**	**3.46**	**3.23**	**4.83**	**4.99**	**7.43**	**19.40**	**8.31**	**2.36**	**6.75**	**5.77**	**1.69**	**4.33**	**13.29**	**6.13**
	Expenditures in Million Nominal Dollars																
1970	**3.1**	**17.3**	**20.4**	**42.9**	**26.8**	**25.4**	**0.7**	**5.6**	**12.8**	**39.7**	**4.4**	R **32.8**	R **148.1**	**—**	R **211.4**	**135.6**	R **347.0**
1971	3.7	13.5	17.2	45.5	31.6	25.7	0.9	5.9	11.3	41.7	3.7	R 25.7	R 146.5	—	R 209.2	143.7	R 352.9
1972	4.9	20.7	25.7	42.8	31.2	29.2	0.9	5.9	12.9	37.9	3.2	R 27.7	R 148.8	—	R 217.2	156.1	R 373.4
1973	6.0	18.4	24.4	53.3	36.4	35.0	0.6	5.6	15.4	57.9	7.3	R 33.1	R 191.3	—	R 269.1	173.3	R 442.3
1974	10.1	28.2	38.2	62.3	74.0	68.0	0.7	15.4	20.0	61.9	7.9	R 44.2	R 292.1	—	R 392.6	207.7	R 600.3
1975	**11.9**	**44.9**	**56.8**	**71.3**	**73.3**	**75.7**	**1.0**	**15.8**	**22.3**	**64.7**	**7.5**	R **48.6**	R **309.0**	**—**	R **437.0**	**259.0**	R **696.0**
1976	13.1	50.5	63.6	89.4	60.6	88.1	3.5	22.8	23.3	61.2	9.2	R 115.4	R 384.0	—	R 537.1	241.9	R 778.9
1977	15.1	50.7	65.8	127.3	67.1	99.0	3.7	29.1	28.3	61.3	13.1	R 145.6	R 447.2	—	R 640.3	272.0	R 912.3
1978	10.2	49.5	59.7	99.1	80.6	121.2	3.5	34.4	33.2	56.1	11.6	R 165.9	R 506.5	—	R 665.3	344.6	R 1,009.9
1979	13.0	51.0	64.0	121.9	83.6	162.2	2.9	71.9	46.6	68.3	15.4	R 246.3	R 697.1	—	R 882.9	380.6	R 1,263.6
1980	**9.6**	**48.4**	**58.0**	**201.1**	**95.3**	**162.3**	**3.0**	**63.4**	**58.4**	**91.4**	**7.5**	R **378.6**	R **859.8**	**—**	R **1,118.9**	**419.6**	R **1,538.5**
1981	10.0	56.7	66.7	232.0	95.6	211.3	3.0	40.5	70.2	79.5	11.5	R 436.6	R 948.2	—	R 1,247.0	541.3	R 1,788.3
1982	8.1	49.2	57.3	285.0	101.1	236.0	3.0	70.7	61.3	62.2	14.6	R 314.8	R 863.8	—	R 1,206.0	552.7	R 1,758.7
1983	5.4	49.8	55.2	297.1	111.8	114.4	1.2	51.8	63.2	42.2	7.2	R 298.4	R 690.2	—	R 1,042.4	583.4	R 1,625.8
1984	5.4	57.5	62.9	286.1	136.5	122.4	1.1	41.1	70.0	50.7	5.4	R 310.7	R 738.0	—	R 1,087.0	518.8	R 1,605.8
1985	**12.0**	**54.7**	**66.7**	**276.4**	**135.9**	**146.5**	**0.8**	R **45.6**	**65.2**	**48.4**	**14.4**	R **280.4**	R **737.1**	**—**	R **1,080.1**	**565.9**	R **1,646.0**
1986	10.8	45.5	56.3	206.6	116.9	64.8	0.2	R 35.8	56.4	30.8	5.3	R 195.3	R 505.4	—	R 768.3	608.6	R 1,376.9
1987	3.4	41.8	45.2	198.3	106.8	82.7	0.3	R 35.4	R 55.5	34.2	8.8	R 219.1	R 542.8	—	R 786.3	615.0	R 1,401.4
1988	—	45.3	45.3	206.7	132.6	91.4	0.6	R 52.7	R 57.7	31.9	7.3	R 188.3	R 562.5	—	R 814.4	619.0	R 1,433.4
1989	—	42.5	42.5	222.8	94.1	89.0	0.9	R 56.3	58.6	30.4	6.4	R 223.5	R 559.2	—	R 824.4	633.0	R 1,457.4
1990	**—**	**39.9**	**39.9**	**228.5**	**92.2**	**102.0**	**0.3**	R **53.8**	**60.8**	**29.8**	**8.6**	R **261.9**	R **609.5**	d R **2.8**	d R **880.8**	R **639.9**	d R **1,520.7**
1991	—	38.6	38.6	233.3	86.7	89.0	0.7	R 53.5	62.6	33.0	6.6	R 87.3	R 419.4	3.0	R 694.3	R 642.8	R 1,337.1
1992	—	35.9	35.9	226.3	62.6	97.3	0.2	R 49.0	R 69.6	28.5	8.9	R 97.6	R 413.6	R 2.8	R 678.5	R 642.7	R 1,321.2
1993	—	37.7	37.7	259.2	77.0	81.1	0.1	R 89.9	R 73.3	61.1	14.4	R 88.1	R 485.2	R 2.8	R 784.9	R 641.8	R 1,426.7
1994	—	35.2	35.2	299.3	103.9	97.9	0.3	R 62.2	R 77.2	69.6	4.7	R 88.1	R 503.9	R 2.9	R 841.2	R 652.1	R 1,493.3
1995	**—**	**36.2**	**36.2**	**239.9**	**113.4**	**91.8**	**0.3**	**110.5**	**77.1**	**73.2**	**4.8**	**87.0**	**557.9**	**3.0**	**837.0**	**649.4**	**1,486.3**

[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 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 165. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Missouri

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.49**	**—**	**2.17**	**1.24**	**0.75**	**1.27**	**5.08**	**2.73**	**0.55**	**2.32**	**2.32**	**—**	**2.32**
1971	0.43	—	2.21	1.27	0.78	1.36	5.27	2.89	0.66	2.47	2.47	—	2.47
1972	0.53	—	2.19	1.29	0.78	1.32	5.58	2.86	0.55	2.45	2.45	—	2.45
1973	0.55	—	2.36	1.55	0.93	1.41	5.33	3.13	0.73	2.70	2.70	—	2.70
1974	0.82	—	3.23	2.52	1.60	2.65	7.22	4.32	1.70	3.83	3.83	—	3.83
1975	**1.17**	**—**	**3.45**	**2.72**	**2.09**	**2.49**	**7.48**	**4.55**	**1.73**	**4.07**	**4.07**	**—**	**4.07**
1976	1.23	—	3.59	2.88	2.26	2.80	7.05	4.75	1.69	4.27	4.27	—	4.27
1977	1.27	—	3.97	3.15	2.69	3.38	6.97	5.04	1.97	4.56	4.56	—	4.56
1978	—	—	4.29	3.31	2.90	3.63	7.60	5.01	1.95	4.59	4.59	—	4.59
1979	—	—	5.73	5.02	4.03	3.79	10.21	6.93	2.38	6.39	6.39	—	6.39
1980	**—**	**—**	**9.02**	**6.97**	**6.47**	**5.42**	**14.36**	**9.33**	**3.38**	**8.76**	**8.76**	**—**	**8.76**
1981	—	—	10.84	8.28	7.60	6.39	18.00	10.15	4.36	9.79	9.79	—	9.79
1982	—	—	10.92	7.96	7.19	6.21	17.25	9.88	4.20	9.45	9.45	—	9.45
1983	—	—	10.44	7.17	6.44	6.80	16.98	8.74	4.05	8.42	8.42	—	8.42
1984	—	—	10.27	7.29	6.27	6.89	17.63	8.48	4.31	8.22	8.22	—	8.22
1985	**—**	**—**	**9.99**	**7.04**	**5.90**	**[R] 9.50**	**17.61**	**8.56**	**3.88**	**8.19**	**8.19**	**—**	**8.19**
1986	—	—	8.41	5.75	3.95	[R] 8.51	15.59	6.11	2.24	5.98	5.98	—	5.98
1987	—	—	7.55	6.33	4.13	[R] 7.60	[R] 13.58	6.81	—	[R] 6.56	[R] 6.56	—	[R] 6.56
1988	—	—	7.41	6.10	3.89	[R] 7.58	[R] 14.62	6.82	1.80	6.52	6.52	—	6.52
1989	—	—	8.28	6.54	4.36	[R] 6.58	14.48	7.45	2.08	7.07	7.07	—	7.07
1990	**—**	**—**	**9.32**	**7.87**	**5.68**	**[R] 8.15**	**14.60**	**8.61**	**1.65**	**8.30**	**8.30**	**—**	**8.30**
1991	—	—	8.71	7.42	4.81	[R] 7.23	[R] 16.80	8.30	—	7.91	7.91	—	7.91
1992	—	—	8.54	7.31	4.57	[R] 7.27	[R] 18.32	8.11	1.31	[R] 7.74	[R] 7.74	—	[R] 7.74
1993	—	—	8.24	7.26	4.24	[R] 9.60	[R] 18.96	7.92	1.61	7.53	7.53	—	7.53
1994	—	4.34	7.96	7.33	3.94	[R] 9.04	[R] 19.11	8.16	1.65	7.61	7.61	[R] 20.73	7.61
1995	**—**	**2.72**	**8.36**	**7.26**	**3.99**	**9.39**	**19.40**	**8.31**	**1.73**	**7.68**	**7.68**	**20.67**	**7.68**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**2.0**	**57.5**	**34.1**	**0.4**	**22.7**	**761.4**	**0.6**	**878.5**	**878.6**	**—**	**878.6**
1971	(s)	—	2.3	62.3	35.6	0.5	23.5	847.6	0.1	971.9	972.0	—	972.0
1972	(s)	—	2.0	68.0	37.0	0.4	26.6	879.4	0.2	1,013.8	1,013.8	—	1,013.8
1973	(s)	—	3.8	88.4	42.1	0.4	30.5	967.4	0.2	1,132.8	1,132.9	—	1,132.9
1974	(s)	—	4.9	134.6	69.3	0.8	39.6	1,330.7	0.9	1,580.8	1,580.8	—	1,580.8
1975	**(s)**	**—**	**3.2**	**137.9**	**98.2**	**0.7**	**36.0**	**1,421.9**	**1.5**	**1,699.4**	**1,699.4**	**—**	**1,699.4**
1976	(s)	—	3.0	170.0	100.7	0.8	37.6	1,560.7	1.4	1,874.1	1,874.1	—	1,874.1
1977	(s)	—	3.5	197.9	121.1	0.9	39.4	1,696.7	0.8	2,060.3	2,060.3	—	2,060.3
1978	—	—	4.6	218.1	133.3	1.3	46.1	1,727.0	0.3	2,130.6	2,130.6	—	2,130.6
1979	—	—	5.5	335.9	170.6	1.1	64.8	2,231.5	2.1	2,811.5	2,811.5	—	2,811.5
1980	**—**	**—**	**7.4**	**439.5**	**229.5**	**1.3**	**81.2**	**2,786.6**	**3.0**	**3,548.5**	**3,548.5**	**—**	**3,548.5**
1981	—	—	11.5	507.8	203.8	3.4	97.6	3,027.5	0.2	3,851.8	3,851.8	—	3,851.8
1982	—	—	8.0	574.2	177.8	2.6	85.3	2,928.7	3.0	3,779.6	3,779.6	—	3,779.6
1983	—	—	7.5	471.9	199.0	3.4	87.9	2,646.0	0.6	3,416.3	3,416.3	—	3,416.3
1984	—	—	6.9	540.0	199.0	4.6	97.4	2,604.5	0.3	3,452.6	3,452.6	—	3,452.6
1985	**—**	**—**	**6.8**	**537.8**	**196.6**	**[R] 4.7**	**90.6**	**2,639.7**	**0.9**	**[R] 3,477.3**	**[R] 3,477.3**	**—**	**[R] 3,477.3**
1986	—	—	6.9	437.4	149.9	[R] 4.9	78.4	1,992.9	0.4	[R] 2,670.8	[R] 2,670.8	—	[R] 2,670.8
1987	—	—	5.1	494.3	174.6	[R] 3.7	[R] 77.2	2,229.1	—	[R] 2,983.9	[R] 2,983.9	—	[R] 2,983.9
1988	—	—	6.1	528.0	160.8	[R] 2.8	80.2	2,286.0	1.0	[R] 3,064.8	[R] 3,064.8	—	[R] 3,064.8
1989	—	—	8.4	658.5	179.6	[R] 2.8	81.5	2,454.2	0.9	[R] 3,385.9	[R] 3,385.9	—	[R] 3,385.9
1990	**—**	**—**	**5.9**	**746.7**	**213.8**	**[R] 3.5**	**84.5**	**2,838.7**	**0.4**	**[R] 3,893.5**	**[R] 3,893.5**	**—**	**[R] 3,893.5**
1991	—	—	5.1	673.0	204.2	[R] 3.4	87.0	2,747.4	—	[R] 3,720.2	[R] 3,720.2	—	[R] 3,720.2
1992	—	—	4.9	744.6	194.6	[R] 2.3	[R] 96.7	2,747.1	0.1	[R] 3,790.5	[R] 3,790.5	—	[R] 3,790.5
1993	—	—	3.9	763.6	216.8	[R] 3.1	[R] 101.9	2,685.1	0.3	[R] 3,774.7	[R] 3,774.7	—	[R] 3,774.7
1994	—	(s)	4.5	822.6	237.2	[R] 6.6	[R] 107.4	2,819.9	0.2	[R] 3,998.5	[R] 3,998.5	0.7	[R] 3,999.2
1995	**—**	**(s)**	**4.6**	**855.6**	**258.6**	**3.8**	**107.1**	**2,930.5**	**0.2**	**4,160.5**	**4,160.5**	**0.9**	**4,161.4**

[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.
(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 166. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Missouri

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.25**	**0.26**	**0.55**	**0.69**	**—**	**0.62**	**—**	**—**	**0.26**
1971	0.28	0.30	0.65	0.83	—	0.71	—	—	0.29
1972	0.29	0.38	0.55	0.70	—	0.60	—	—	0.31
1973	0.34	0.34	0.77	1.31	0.26	0.97	—	—	0.34
1974	0.42	0.45	1.77	2.25	0.33	1.91	—	—	0.44
1975	**0.54**	**0.59**	**1.74**	**2.26**	**0.65**	**2.05**	**—**	**—**	**0.57**
1976	0.62	0.77	1.72	2.31	—	2.03	—	—	0.66
1977	0.75	1.12	1.98	2.68	0.63	2.25	—	—	0.81
1978	1.01	1.14	1.97	2.67	0.78	2.22	—	—	1.06
1979	1.06	1.53	2.41	4.07	0.67	2.87	—	—	1.11
1980	**1.19**	**2.22**	**3.45**	**6.02**	**0.67**	**5.07**	**—**	**—**	**1.25**
1981	1.35	2.66	4.50	7.25	—	7.08	—	—	1.39
1982	1.43	3.64	4.36	6.96	—	6.79	—	—	1.48
1983	1.49	4.16	4.19	6.08	1.33	5.70	—	—	1.53
1984	1.50	3.93	4.40	6.09	—	5.94	0.78	—	1.50
1985	**1.50**	**3.31**	**3.99**	**5.76**	**1.38**	**5.60**	**0.82**	**—**	**1.41**
1986	1.47	2.92	2.32	3.49	—	3.38	0.82	—	1.38
1987	1.41	2.96	2.41	4.14	—	3.93	0.52	—	1.31
1988	1.38	2.77	1.83	3.55	0.97	3.35	0.73	—	1.29
1989	1.35	2.46	2.12	4.45	0.80	3.90	0.71	—	1.26
1990	**1.35**	**1.72**	**1.80**	**5.11**	**—**	**4.99**	**0.74**	**—**	**1.27**
1991	1.34	1.49	1.33	4.78	—	4.23	0.71	—	1.24
1992	1.34	1.87	1.45	4.26	—	3.92	0.58	—	1.23
1993	1.24	2.32	1.64	4.01	0.64	1.58	0.56	0.52	1.14
1994	1.10	1.90	1.66	3.75	0.70	1.23	0.49	0.68	1.01
1995	**0.98**	**1.68**	**1.64**	**3.89**	**0.73**	**1.35**	**0.48**	**0.61**	**0.94**
	Expenditures in Million Nominal Dollars								
1970	**58.6**	**16.6**	**0.5**	**0.6**	**—**	**1.1**	**—**	**—**	**76.3**
1971	71.3	20.7	1.1	0.6	—	1.7	—	—	93.8
1972	83.0	21.7	1.9	1.0	—	2.9	—	—	107.6
1973	112.8	18.1	2.1	2.2	(s)	4.3	—	—	135.1
1974	140.6	20.8	3.4	3.7	0.1	7.1	—	—	168.6
1975	**205.4**	**15.0**	**4.1**	**9.3**	**0.1**	**13.5**	**—**	**—**	**234.0**
1976	259.3	19.1	6.5	9.3	—	15.8	—	—	294.2
1977	341.1	28.0	10.8	14.6	0.3	25.7	—	—	394.9
1978	442.2	30.4	14.7	23.1	1.1	38.9	—	—	511.5
1979	491.7	30.4	9.1	15.3	0.8	25.2	—	—	547.3
1980	**586.4**	**33.3**	**0.6**	**18.8**	**0.4**	**19.9**	**—**	**—**	**639.6**
1981	666.5	20.1	0.5	12.9	—	13.4	—	—	700.0
1982	700.1	16.5	0.6	14.6	—	15.2	—	—	731.8
1983	786.7	11.6	1.7	13.8	0.1	15.6	—	—	813.9
1984	824.8	9.8	0.5	7.8	—	8.3	7.8	—	850.7
1985	**728.4**	**4.8**	**0.4**	**6.8**	**(s)**	**7.2**	**71.3**	**—**	**811.7**
1986	690.4	3.4	0.3	4.5	—	4.8	63.1	—	761.7
1987	689.2	4.0	0.4	5.0	—	5.4	34.9	—	733.5
1988	700.4	4.5	0.4	6.3	(s)	6.7	70.3	—	781.9
1989	690.4	3.1	0.5	5.7	0.1	6.3	63.1	—	762.9
1990	**679.4**	**6.2**	**0.1**	**6.2**	**—**	**6.3**	**62.9**	**—**	**754.7**
1991	671.3	19.2	0.4	6.8	—	7.2	76.5	—	774.2
1992	656.8	4.4	0.2	4.6	—	4.8	49.7	—	715.7
1993	535.7	11.4	0.2	8.6	3.5	12.3	50.1	(s)	609.6
1994	564.4	8.3	0.3	5.6	5.1	11.0	52.4	(s)	636.0
1995	**552.1**	**21.7**	**0.1**	**6.4**	**4.9**	**11.4**	**41.9**	**0.2**	**627.3**

[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 167. Energy Price and Expenditure Estimates by Source, 1970-1995, Montana

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	**—**	**0.22**	**0.22**	**0.57**	**1.14**	**0.76**	**2.10**	**2.89**	**0.39**	**R 0.98**	**R 1.96**	**—**	**0.65**	**R 1.28**	**0.23**	**2.88**	**R 1.58**
1971	—	0.29	0.29	0.60	1.14	0.80	2.16	2.94	0.43	R 1.12	R 1.96	—	0.69	R 1.33	0.28	2.96	R 1.61
1972	—	0.29	0.29	0.63	1.15	0.79	2.13	2.82	0.51	R 1.15	R 1.91	—	0.72	R 1.34	0.28	3.14	R 1.64
1973	—	0.24	0.24	0.69	1.40	0.94	3.12	3.17	0.69	R 1.19	R 2.16	—	0.77	R 1.51	0.29	3.62	R 1.84
1974	—	0.31	0.31	0.80	2.41	1.62	3.78	4.30	1.82	R 1.98	R 3.12	—	0.84	R 2.19	0.29	3.49	R 2.48
1975	**—**	**0.33**	**0.33**	**1.07**	**2.58**	**2.12**	**3.62**	**4.78**	**1.99**	**R 2.31**	**R 3.47**	**—**	**0.92**	**R 2.42**	**0.34**	**4.05**	**R 2.80**
1976	—	0.34	0.34	1.16	2.61	2.32	4.04	4.87	1.83	R 2.18	R 3.49	—	0.98	R 2.36	0.33	3.92	R 2.91
1977	—	0.34	0.34	1.63	2.90	2.71	4.20	5.25	2.08	R 2.41	R 3.79	—	1.04	R 2.51	0.34	4.16	R 3.26
1978	—	0.39	0.39	1.72	3.10	2.92	4.35	5.54	2.16	R 2.60	R 4.13	—	1.12	R 2.76	0.36	4.84	R 3.58
1979	—	0.42	0.42	2.03	4.66	4.08	5.51	7.39	2.44	R 3.28	R 5.07	—	1.56	R 3.41	0.48	5.12	R 4.35
1980	**—**	**0.53**	**0.53**	**3.14**	**6.59**	**6.59**	**6.49**	**9.99**	**3.28**	**R 4.66**	**R 7.21**	**—**	**1.74**	**R 4.81**	**0.72**	**5.80**	**R 6.06**
1981	—	0.63	0.63	4.00	7.91	7.67	7.55	11.02	4.19	R 5.89	R 8.72	—	1.24	R 5.64	0.66	7.03	R 7.27
1982	—	0.69	0.69	4.76	7.59	7.38	7.59	10.47	4.00	R 5.24	R 8.50	—	1.28	R 5.87	0.61	8.83	7.54
1983	—	0.83	0.83	4.54	6.72	7.27	7.67	9.19	4.11	R 4.94	R 7.49	—	1.12	R 5.63	0.80	10.51	R 7.26
1984	—	0.78	0.78	5.00	6.73	7.03	7.35	9.11	4.49	R 5.23	R 7.52	—	1.28	R 4.83	0.77	10.16	R 7.53
1985	**—**	**0.75**	**0.75**	**4.84**	**6.42**	**6.64**	**7.60**	**9.16**	**3.03**	**R 5.16**	**R 7.31**	**—**	**0.79**	**R 4.68**	**0.72**	**10.72**	**R 7.44**
1986	—	0.72	0.72	4.32	5.66	4.81	6.60	6.74	2.63	R 4.56	R 5.95	—	0.32	R 3.37	0.68	11.18	R 6.70
1987	—	0.67	0.67	4.05	6.06	4.38	6.15	7.57	2.34	R 3.67	R 6.34	—	0.95	R 3.43	0.66	11.81	R 7.01
1988	—	0.57	0.57	3.92	6.22	4.33	6.15	7.75	2.12	R 3.86	R 6.52	—	0.87	3.02	0.55	12.09	R 7.13
1989	—	0.60	0.60	3.95	6.65	4.79	7.33	8.59	2.16	R 3.56	R 6.99	—	([d])	R 3.34	0.58	12.00	R 7.30
1990	**—**	**0.70**	**0.70**	**4.16**	**7.79**	**6.26**	**9.11**	**9.56**	**3.03**	**R 3.76**	**R 8.01**	**—**	**e R 1.84**	**e R 3.84**	**0.68**	**R 11.68**	**e R 7.83**
1991	—	0.70	0.70	4.06	7.11	5.47	9.87	9.07	2.36	R 4.13	R 7.61	—	R 1.94	R 3.59	0.68	R 12.23	R 7.64
1992	—	0.73	0.73	4.42	7.42	5.46	8.72	9.39	1.70	R 3.82	R 7.81	—	1.89	R 3.63	0.71	R 12.37	R 7.87
1993	—	0.73	0.73	4.22	7.45	5.39	8.43	9.57	2.32	R 3.61	R 7.76	—	1.85	R 4.00	0.70	12.87	R 7.73
1994	—	0.74	0.74	4.87	7.68	5.02	R 7.69	9.99	2.14	R 3.67	R 7.95	—	R 2.03	R 3.88	0.70	R 13.29	R 8.00
1995	**—**	**0.73**	**0.73**	**4.84**	**7.73**	**5.32**	**7.62**	**10.04**	**2.20**	**4.14**	**8.20**	**—**	**2.25**	**4.14**	**0.69**	**13.71**	**8.11**
	Expenditures in Million Nominal Dollars																
1970	**—**	**2.6**	**2.6**	**45.1**	**31.9**	**2.7**	**9.9**	**140.7**	**0.7**	**R 15.8**	**R 201.7**	**—**	**0.5**	**R 249.9**	**-3.4**	**84.1**	**R 330.6**
1971	—	3.4	3.4	47.3	38.1	3.4	10.2	146.6	1.1	R 18.0	R 217.4	—	0.4	R 268.5	-3.3	87.3	R 352.5
1972	—	3.8	3.8	47.0	41.5	3.4	12.0	150.3	1.6	R 20.3	R 229.1	—	0.4	R 280.3	-4.0	92.7	R 369.0
1973	—	3.7	3.7	56.5	57.0	4.0	16.2	181.1	4.2	R 22.1	R 284.7	—	0.4	R 345.3	-5.3	98.0	R 438.0
1974	—	4.6	4.6	56.7	110.2	7.1	19.5	238.2	15.9	R 31.1	R 422.0	—	0.1	R 483.5	-4.3	105.9	R 585.1
1975	**—**	**6.2**	**6.2**	**78.2**	**114.2**	**9.7**	**17.1**	**266.6**	**17.6**	**R 30.4**	**R 455.6**	**—**	**0.1**	**R 540.1**	**-6.4**	**119.8**	**R 653.5**
1976	—	14.6	14.6	77.0	127.7	9.8	19.2	297.0	20.4	R 33.9	R 507.9	—	0.4	R 599.9	-13.5	128.6	R 714.9
1977	—	19.8	19.8	102.5	139.4	11.7	19.2	306.0	23.2	R 35.6	R 535.2	—	0.5	R 658.0	-19.3	137.9	R 776.6
1978	—	22.4	22.4	113.0	148.5	11.4	25.4	373.0	23.5	R 35.5	R 617.4	—	0.6	R 753.4	-20.1	172.8	R 906.1
1979	—	26.9	26.9	122.7	245.2	20.8	14.8	433.1	77.8	R 48.5	R 840.1	—	0.8	R 990.6	-29.9	188.5	R 1,149.2
1980	**—**	**31.8**	**31.8**	**166.0**	**288.2**	**34.1**	**41.9**	**546.8**	**68.3**	**R 66.4**	**R 1,045.7**	**—**	**0.3**	**R 1,243.8**	**-44.3**	**207.7**	**R 1,407.2**
1981	—	39.6	39.6	189.3	298.1	34.5	28.0	624.8	48.6	R 78.8	R 1,112.7	—	0.4	R 1,342.1	-39.8	253.4	R 1,555.8
1982	—	33.6	33.6	225.2	257.5	25.8	39.4	573.6	26.3	R 61.7	R 984.3	—	0.4	R 1,243.5	-27.4	301.5	R 1,517.5
1983	—	35.7	35.7	190.9	347.1	26.6	40.8	508.1	22.6	R 69.4	R 1,014.7	—	0.5	R 1,241.7	-32.1	322.2	R 1,531.8
1984	—	70.4	70.4	210.6	370.5	25.3	25.8	500.0	11.4	R 77.6	R 1,010.5	—	0.8	R 1,292.2	-67.8	471.5	R 1,696.0
1985	**—**	**74.0**	**74.0**	**204.7**	**423.0**	**25.2**	**39.8**	**490.2**	**2.4**	**R 87.0**	**R 1,067.7**	**—**	**0.5**	**R 1,346.9**	**-69.2**	**488.6**	**R 1,766.3**
1986	—	96.3	96.3	157.7	230.9	23.3	33.9	359.8	0.6	R 90.6	R 739.2	—	0.2	R 993.3	-87.0	515.8	R 1,422.1
1987	—	89.7	89.7	140.4	231.5	17.7	35.8	407.0	0.2	R 64.3	R 756.6	—	0.5	R 987.1	-85.9	488.8	R 1,390.0
1988	—	102.9	102.9	149.0	228.4	19.6	31.8	425.5	0.1	R 64.8	R 770.2	—	0.5	R 1,022.7	-99.1	521.6	R 1,445.2
1989	—	107.3	107.3	164.9	297.2	20.0	42.0	464.8	0.2	R 66.5	R 890.7	—	([d])	R 1,162.9	-102.2	519.2	R 1,579.9
1990	**—**	**115.6**	**115.6**	**162.9**	**336.9**	**24.8**	**55.5**	**515.5**	**0.2**	**R 64.3**	**R 997.3**	**—**	**e R 7.4**	**e R 1,283.3**	**-110.6**	**R 510.9**	**e R 1,683.6**
1991	—	126.3	126.3	169.1	344.8	19.0	36.7	493.3	(s)	R 66.2	R 960.1	—	R 7.8	R 1,263.3	-119.3	R 546.3	R 1,690.3
1992	—	138.5	138.5	179.8	333.5	26.3	31.1	529.3	(s)	R 60.8	R 981.0	—	R 7.9	R 1,307.1	-132.7	R 541.1	R 1,715.6
1993	—	115.0	115.0	197.8	347.1	27.1	65.0	553.0	2.5	R 67.9	R 1,062.6	—	R 7.6	R 1,383.1	-106.7	R 555.5	R 1,831.9
1994	—	140.1	140.1	225.8	369.1	24.0	R 29.1	582.8	1.5	R 74.8	R 1,081.3	—	R 7.5	R 1,454.7	-125.8	R 585.2	R 1,914.1
1995	**—**	**125.4**	**125.4**	**251.4**	**401.7**	**31.3**	**25.2**	**597.6**	**0.6**	**66.0**	**1,122.4**	**—**	**8.4**	**1,507.6**	**-110.5**	**614.1**	**2,011.2**

[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] Utilities used biomass fuels at no charge or received a fee for accepting them.
[e] 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.
(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 168. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Montana

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**0.80**	**0.88**	**1.28**	**—**	**2.35**	**2.03**	**—**	**1.06**	**6.57**	**1.87**
1971	1.14	0.91	1.36	—	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	0.89	1.06	1.58	—	3.73	2.78	—	1.40	6.89	2.29
1974	1.06	1.10	2.51	—	4.16	3.41	—	1.65	7.16	2.65
1975	**1.06**	**1.27**	**2.84**	**—**	**3.88**	**3.37**	**—**	**1.74**	**7.02**	**2.73**
1976	2.07	1.35	2.94	—	4.30	3.61	—	1.89	7.06	2.91
1977	1.18	1.80	3.27	—	4.39	3.83	—	2.31	7.44	3.45
1978	1.29	1.90	3.32	—	4.72	4.09	—	2.49	8.18	3.79
1979	1.09	2.24	4.67	—	5.80	5.08	—	2.85	8.36	4.29
1980	**1.35**	**3.02**	**6.92**	**—**	**7.21**	**7.08**	**—**	**3.91**	**9.04**	**5.36**
1981	1.64	3.72	8.27	—	8.25	8.26	—	4.46	10.50	6.41
1982	1.90	4.42	8.41	—	8.85	8.66	—	5.21	11.20	7.02
1983	0.68	4.60	6.97	9.49	8.33	7.75	—	5.40	12.96	7.77
1984	0.84	4.84	6.56	9.44	8.19	7.20	—	5.28	12.58	7.73
1985	**0.98**	**4.82**	**7.92**	**11.40**	**8.18**	**8.10**	**—**	**5.40**	**13.77**	**8.27**
1986	1.37	4.46	4.87	7.00	7.12	6.08	—	4.77	14.68	8.13
1987	1.44	4.33	5.15	7.41	6.62	6.10	—	4.69	16.19	8.74
1988	0.95	4.20	4.61	6.62	6.55	5.88	—	4.51	15.89	8.44
1989	1.25	4.29	5.08	7.31	8.51	7.10	—	4.85	15.77	8.44
1990	**1.32**	**4.47**	**6.42**	**9.23**	**9.99**	**8.69**	**[d] 4.75**	**[d] 5.28**	**15.97**	**[d] 8.57**
1991	1.16	4.40	6.11	8.79	10.42	8.48	4.75	5.14	[R] 16.88	8.68
1992	1.26	4.70	5.99	8.61	8.65	7.67	4.75	5.15	[R] 17.11	[R] 8.94
1993	1.27	4.84	6.02	8.66	7.36	6.79	4.75	5.10	[R] 16.92	[R] 8.73
1994	1.36	5.11	5.67	8.15	[R] 8.03	[R] 7.19	4.75	[R] 5.37	[R] 17.47	[R] 9.28
1995	**1.39**	**5.00**	**6.09**	**8.75**	**8.02**	**7.13**	**4.75**	**5.26**	**17.85**	**9.23**
	Expenditures in Million Nominal Dollars									
1970	**0.1**	**22.5**	**1.9**	**—**	**7.9**	**9.7**	**—**	**32.3**	**34.4**	**66.7**
1971	0.2	23.7	3.1	—	8.2	11.3	—	35.2	36.6	71.8
1972	0.1	23.0	3.5	—	9.6	13.1	—	36.2	39.9	76.0
1973	0.1	27.1	4.6	—	13.5	18.1	—	45.2	42.6	87.8
1974	0.1	24.2	7.9	—	15.9	23.9	—	48.1	45.8	93.9
1975	**0.1**	**31.2**	**9.7**	**—**	**14.0**	**23.8**	**—**	**55.1**	**51.3**	**106.4**
1976	0.1	32.1	11.1	—	15.8	26.9	—	59.2	54.4	113.6
1977	(s)	39.2	11.7	—	16.0	27.7	—	67.0	61.9	128.9
1978	0.1	43.5	12.7	—	22.1	34.8	—	78.4	76.9	155.3
1979	0.1	50.0	18.3	—	12.9	31.3	—	81.3	84.4	165.7
1980	**0.1**	**58.9**	**17.0**	**—**	**21.9**	**38.9**	**—**	**98.0**	**89.9**	**187.8**
1981	0.1	64.7	13.2	—	15.1	28.3	—	93.1	104.1	197.2
1982	0.1	89.1	17.3	—	23.5	40.8	—	130.1	121.4	251.5
1983	(s)	78.5	18.2	0.8	27.1	46.1	—	124.7	137.0	261.7
1984	(s)	89.6	17.5	0.8	12.6	31.0	—	120.7	144.8	265.5
1985	**(s)**	**93.2**	**15.9**	**0.6**	**17.8**	**34.3**	**—**	**127.6**	**169.8**	**297.4**
1986	0.2	74.8	10.0	0.5	16.6	27.1	—	102.1	161.0	263.1
1987	0.1	67.7	7.4	0.1	17.2	24.6	—	92.4	173.4	265.8
1988	0.1	72.7	6.3	0.1	17.1	23.4	—	96.2	179.0	275.2
1989	0.5	79.5	10.8	(s)	26.0	36.9	—	116.9	186.0	302.9
1990	**0.5**	**77.3**	**10.8**	**0.1**	**29.4**	**40.3**	**[d] 3.6**	**[d] 121.7**	**183.0**	**[d] 304.7**
1991	0.3	83.2	12.7	(s)	26.5	39.2	3.8	126.5	[R] 199.2	[R] 325.7
1992	0.2	80.0	7.6	(s)	18.7	26.3	4.0	110.5	[R] 191.8	[R] 302.3
1993	0.1	100.2	9.4	0.3	14.5	24.2	3.7	128.2	[R] 207.7	[R] 335.8
1994	(s)	97.9	6.2	0.3	[R] 15.8	[R] 22.3	3.6	[R] 123.8	[R] 212.6	[R] 336.4
1995	**0.1**	**101.1**	**8.9**	**(s)**	**13.7**	**22.7**	**4.0**	**127.9**	**221.6**	**349.6**

[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.

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 169. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Montana

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.48**	**0.60**	**1.06**	**0.94**	**1.49**	**2.89**	**0.34**	**1.64**	**0.78**	**5.74**	**1.51**
1971	0.64	0.63	1.09	0.93	1.56	2.94	0.16	1.42	0.78	5.78	1.56
1972	0.51	0.64	1.09	0.92	1.55	2.82	0.53	1.45	0.80	5.90	1.59
1973	0.51	0.75	1.33	1.22	1.71	3.17	0.98	1.62	0.93	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**	**1.07**	**2.49**	**2.63**	**2.77**	**4.78**	**2.03**	**2.89**	**1.49**	**6.39**	**2.39**
1976	1.07	1.17	2.64	2.42	3.14	4.87	2.07	3.00	1.63	6.37	2.56
1977	1.25	1.59	2.92	2.63	3.48	5.25	2.20	3.30	2.03	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	4.39	4.55	4.11	7.39	2.80	4.83	2.74	7.84	3.92
1980	**2.04**	**3.12**	**6.45**	**—**	**5.85**	**9.99**	**4.42**	**6.87**	**3.76**	**8.50**	**5.12**
1981	1.89	4.15	7.78	—	6.85	11.02	—	8.28	4.89	9.81	6.40
1982	1.82	4.83	7.78	—	6.26	10.47	4.63	8.22	5.22	10.10	6.69
1983	1.59	5.03	6.24	7.49	6.63	9.19	4.08	6.13	5.43	11.76	7.19
1984	1.98	5.22	6.11	7.21	6.70	9.11	4.49	6.12	5.53	11.44	8.06
1985	**1.66**	**5.10**	**5.76**	**6.95**	**7.19**	**9.16**	**3.03**	**5.71**	**5.27**	**12.49**	**8.18**
1986	1.75	4.48	3.58	4.43	6.17	6.74	2.63	4.21	4.38	13.45	8.78
1987	1.64	4.26	4.01	4.77	5.77	7.57	2.34	4.80	4.35	14.04	8.43
1988	1.54	4.20	3.71	4.54	5.75	7.75	2.12	4.90	4.28	13.46	8.22
1989	1.53	4.28	4.41	5.41	5.98	8.59	2.16	5.47	4.33	13.46	7.90
1990	**1.54**	**4.52**	**5.53**	**6.79**	**8.30**	**9.56**	**3.03**	**7.11**	**4.71**	**[R] 13.53**	**[R] 8.44**
1991	1.59	4.23	4.88	5.93	8.68	9.07	2.36	6.41	4.42	14.36	8.59
1992	1.52	4.36	4.73	5.82	8.82	9.39	1.70	6.41	4.56	[R] 14.83	[R] 9.26
1993	1.51	4.59	4.74	5.86	8.79	9.57	2.32	5.78	4.68	[R] 14.71	[R] 8.99
1994	1.53	4.80	4.43	[R] 5.73	8.27	9.99	2.14	5.55	4.87	[R] 14.85	[R] 9.42
1995	**1.56**	**4.78**	**4.56**	**5.89**	**8.02**	**10.04**	**2.20**	**5.83**	**4.82**	**15.78**	**9.59**
	Expenditures in Million Nominal Dollars										
1970	**0.1**	**11.5**	**1.7**	**0.5**	**0.9**	**3.3**	**(s)**	**6.5**	**18.0**	**23.3**	**41.3**
1971	0.2	11.8	2.9	0.4	0.9	2.0	(s)	6.2	18.2	24.8	43.0
1972	0.1	12.7	3.2	0.4	1.1	2.5	(s)	7.2	20.0	26.6	46.6
1973	0.1	14.8	4.4	0.6	1.1	2.3	(s)	8.3	23.2	28.7	51.9
1974	0.1	14.9	8.1	0.8	1.8	2.8	(s)	13.6	28.6	29.3	57.9
1975	**0.1**	**20.4**	**9.7**	**0.8**	**1.8**	**4.4**	**(s)**	**16.7**	**37.2**	**35.9**	**73.1**
1976	0.1	21.1	11.3	0.6	2.0	4.2	(s)	18.1	39.3	37.6	76.9
1977	(s)	26.7	11.9	0.8	2.2	4.3	(s)	19.3	46.0	36.9	82.9
1978	0.3	29.5	13.1	0.8	2.4	4.9	(s)	21.2	50.9	51.2	102.1
1979	0.2	34.7	19.6	0.4	1.6	6.9	0.2	28.8	63.7	55.2	118.8
1980	**0.4**	**44.9**	**13.0**	**—**	**3.1**	**4.8**	**0.2**	**21.2**	**66.4**	**60.7**	**127.1**
1981	0.2	57.4	17.2	—	2.2	6.4	—	25.8	83.4	73.7	157.1
1982	0.2	77.9	8.3	—	2.9	7.0	0.1	18.4	96.5	80.6	177.1
1983	0.2	68.5	40.1	(s)	3.8	3.6	4.4	52.0	120.7	100.3	221.0
1984	0.1	74.7	40.1	(s)	1.8	2.9	3.0	47.9	122.7	190.2	312.9
1985	**0.2**	**75.5**	**28.9**	**(s)**	**2.8**	**3.5**	**2.4**	**37.6**	**113.2**	**180.8**	**294.1**
1986	0.4	56.1	8.4	0.2	2.5	2.7	0.6	14.4	71.0	204.5	275.5
1987	0.1	47.7	7.1	(s)	2.6	3.2	0.2	13.1	61.0	142.7	203.7
1988	0.2	51.8	4.3	(s)	2.6	3.1	0.1	10.2	62.1	147.0	209.1
1989	1.0	57.3	5.2	(s)	3.2	3.5	0.2	12.1	70.4	141.0	211.4
1990	**1.1**	**56.4**	**4.9**	**(s)**	**4.3**	**4.2**	**0.2**	**13.6**	**71.1**	**[R] 149.4**	**[R] 220.5**
1991	0.8	55.9	5.8	(s)	3.9	3.0	(s)	12.7	69.4	163.0	232.4
1992	0.4	51.5	4.7	(s)	3.4	2.7	(s)	10.8	62.7	[R] 171.8	[R] 234.5
1993	0.2	64.8	5.4	(s)	3.1	0.6	0.1	9.1	74.1	[R] 175.4	[R] 249.5
1994	0.1	63.7	4.9	(s)	2.9	0.8	(s)	8.6	72.4	[R] 185.2	[R] 257.7
1995	**0.2**	**66.4**	**3.1**	**(s)**	**2.4**	**0.7**	**(s)**	**6.3**	**72.9**	**183.6**	**256.5**

[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.
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 170. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Montana

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.48**	**0.48**	**0.33**	**0.59**	**0.87**	**0.94**	**1.49**	**5.08**	**2.89**	**0.45**	**R 0.51**	**R 1.03**	**—**	**R 0.65**	**1.33**	**R 0.82**
1971	—	0.64	0.64	0.35	0.82	0.87	0.93	1.56	5.27	2.94	0.50	R 0.61	R 1.06	—	R 0.69	1.32	R 0.84
1972	—	0.51	0.51	0.37	0.83	0.86	0.92	1.55	5.58	2.82	0.50	R 0.58	R 1.06	—	R 0.73	1.38	R 0.88
1973	—	0.51	0.51	0.41	0.85	1.13	1.22	1.71	5.33	3.17	0.63	0.60	R 1.14	—	R 0.79	1.65	R 0.95
1974	—	0.68	0.68	0.57	1.73	2.13	2.29	2.67	7.22	4.30	1.82	R 0.82	R 2.02	—	R 1.37	1.60	R 1.42
1975	**—**	**0.79**	**0.79**	**0.93**	**1.84**	**2.44**	**2.63**	**2.77**	**7.48**	**4.78**	**1.99**	**1.40**	**R 2.42**	**—**	**R 1.77**	**1.96**	**R 1.81**
1976	—	1.07	1.07	0.99	1.65	2.27	2.42	3.14	7.05	4.87	1.80	R 1.53	R 2.25	—	R 1.78	1.91	R 1.81
1977	—	1.25	1.25	1.55	1.78	2.48	2.63	3.48	6.97	5.25	2.05	R 1.80	R 2.46	—	R 2.10	2.10	R 2.10
1978	—	1.32	1.32	1.64	1.95	2.70	2.93	2.86	7.60	5.54	2.19	R 1.58	R 2.58	—	R 2.17	2.26	R 2.19
1979	—	1.30	1.30	1.77	2.49	4.42	—	4.11	10.21	7.39	2.43	R 1.84	R 3.21	—	R 2.81	2.49	R 2.75
1980	**—**	**2.04**	**2.04**	**3.11**	**3.67**	**5.19**	**—**	**5.85**	**14.36**	**9.99**	**3.28**	**R 2.46**	**R 4.32**	**—**	**R 3.96**	**3.05**	**R 3.76**
1981	—	1.89	1.89	4.22	4.41	7.04	7.42	6.85	18.00	11.02	4.19	R 2.92	R 5.74	—	R 5.03	4.06	R 4.79
1982	—	1.82	1.82	5.43	4.24	5.90	—	6.26	17.25	10.47	4.00	R 2.21	R 5.29	—	R 4.99	6.48	R 5.37
1983	—	1.59	1.59	3.96	4.22	6.29	7.49	6.63	16.98	9.19	4.12	R 1.78	R 5.41	—	R 4.88	7.34	R 5.32
1984	—	1.98	1.98	5.15	4.65	6.37	7.21	6.70	17.63	9.11	4.49	R 1.93	R 5.67	—	R 5.35	7.47	R 5.91
1985	**—**	**1.66**	**1.66**	**4.71**	**4.83**	**6.14**	**6.95**	**7.19**	**17.61**	**9.16**	**3.03**	**R 2.05**	**R 5.82**	**—**	**R 5.44**	**7.35**	**R 5.86**
1986	—	1.75	1.75	3.92	4.35	3.92	4.43	6.17	15.59	6.74	2.63	1.53	R 4.25	—	R 3.91	7.52	R 4.97
1987	—	1.64	1.64	3.36	3.07	4.22	4.77	5.77	R 13.58	7.57	2.34	1.50	R 3.97	—	R 3.68	8.42	R 5.22
1988	—	1.54	1.54	3.01	3.29	4.02	4.54	5.75	R 14.62	7.75	2.12	1.45	R 3.94	—	R 3.53	9.33	R 5.48
1989	—	1.53	1.53	2.93	2.75	4.79	5.41	5.98	14.48	8.59	2.16	1.74	R 4.24	—	R 3.81	9.15	R 5.35
1990	**—**	**1.54**	**1.54**	**3.19**	**2.64**	**6.01**	**6.79**	**8.30**	**14.60**	**9.56**	**3.03**	**2.02**	**R 5.08**	**d R 1.54**	**d R 4.32**	**R 8.40**	**d R 5.50**
1991	—	1.59	1.59	3.13	3.29	5.24	5.93	8.68	R 16.80	9.07	2.36	1.72	R 4.78	R 1.57	R 4.06	R 8.55	R 5.31
1992	—	1.52	1.52	4.10	2.86	5.15	5.82	8.82	R 18.32	9.39	1.70	1.29	R 4.52	R 1.55	R 4.01	R 8.48	R 5.29
1993	—	1.51	1.51	2.71	2.80	5.18	5.86	8.79	R 18.96	9.57	2.32	1.06	R 4.77	1.56	R 3.92	R 9.10	R 5.11
1994	—	1.53	1.53	4.80	2.82	5.07	5.73	7.03	R 19.11	9.99	2.14	1.14	R 4.25	1.57	R 3.81	R 9.66	R 5.18
1995	**—**	**1.56**	**1.56**	**4.73**	**3.13**	**5.21**	**5.89**	**6.96**	**19.40**	**10.04**	**2.20**	**1.34**	**4.72**	**1.53**	**4.04**	**10.07**	**5.48**
	Expenditures in Million Nominal Dollars																
1970	**—**	**0.3**	**0.3**	**10.4**	**5.3**	**6.5**	**1.5**	**0.9**	**1.4**	**9.6**	**0.4**	**R 1.9**	**R 27.5**	**—**	**R 38.2**	**26.5**	**R 64.7**
1971	—	0.5	0.5	11.4	7.3	8.8	1.5	0.8	1.4	8.8	1.0	R 2.3	R 31.9	—	R 43.8	25.9	R 69.7
1972	—	0.5	0.5	10.9	8.2	9.3	1.6	0.8	1.6	10.4	1.3	R 2.3	R 35.5	—	R 46.9	26.2	R 73.1
1973	—	0.5	0.5	13.8	7.9	13.7	2.2	1.2	1.9	9.5	3.1	R 3.0	R 42.5	—	R 56.8	26.7	R 83.4
1974	—	0.8	0.8	17.3	14.0	30.0	1.4	1.2	2.5	11.4	14.3	R 3.9	R 78.8	—	R 96.9	30.8	R 127.7
1975	**—**	**0.8**	**0.8**	**26.1**	**11.3**	**35.5**	**1.0**	**0.8**	**2.1**	**19.4**	**14.9**	**R 6.5**	**R 91.4**	**—**	**R 118.3**	**32.6**	**R 150.9**
1976	—	2.6	2.6	23.4	14.1	38.6	0.5	0.7	2.2	19.8	17.5	R 7.1	R 100.6	—	R 126.6	36.6	R 163.2
1977	—	4.3	4.3	35.9	13.4	41.7	0.6	0.5	2.2	19.4	18.7	R 8.6	R 104.9	—	R 145.1	39.1	R 184.2
1978	—	4.6	4.6	39.3	12.2	37.3	0.8	0.5	2.5	16.8	20.6	R 7.6	R 98.4	—	R 142.3	44.7	R 187.0
1979	—	5.4	5.4	32.8	17.4	71.8	—	(s)	3.6	25.7	75.0	R 9.9	R 203.4	—	R 241.6	49.0	R 290.6
1980	**—**	**6.0**	**6.0**	**45.2**	**24.9**	**58.2**	**—**	**15.9**	**4.4**	**32.5**	**68.1**	**R 12.7**	**R 216.7**	**—**	**R 267.9**	**57.1**	**R 324.9**
1981	—	10.1	10.1	58.4	30.3	79.7	1.1	9.3	5.4	38.4	48.6	R 11.7	R 224.5	—	R 293.0	75.6	R 368.6
1982	—	7.9	7.9	57.5	24.8	47.9	—	12.2	4.7	34.7	26.2	R 9.1	R 159.7	—	R 225.0	99.4	R 324.4
1983	—	5.3	5.3	43.6	31.7	116.3	0.1	8.6	4.8	24.6	18.1	R 8.1	R 212.4	—	R 261.2	85.0	R 346.1
1984	—	6.2	6.2	46.0	37.5	120.3	0.1	9.7	5.3	26.7	8.3	R 9.3	R 217.3	—	R 269.5	136.5	R 405.9
1985	**—**	**6.8**	**6.8**	**35.7**	**46.9**	**207.4**	**(s)**	**17.9**	**5.0**	**32.6**	**(s)**	**R 10.8**	**R 320.6**	**—**	**R 363.0**	**138.0**	**R 501.0**
1986	—	9.9	9.9	26.3	57.4	48.4	(s)	13.6	4.3	22.6	(s)	R 7.2	R 153.5	—	R 189.8	150.2	R 340.0
1987	—	5.6	5.6	24.4	33.5	44.3	0.2	15.2	R 4.2	22.8	(s)	R 7.0	R 127.1	—	R 157.2	172.7	R 329.8
1988	—	6.0	6.0	24.1	32.2	37.9	0.1	11.1	4.4	23.4	(s)	R 7.2	R 116.2	—	R 146.4	195.6	R 342.0
1989	—	5.6	5.6	27.6	31.9	77.5	0.1	11.6	4.5	28.4	(s)	R 8.8	R 162.9	—	R 196.0	192.2	R 388.2
1990	**—**	**6.2**	**6.2**	**28.4**	**26.0**	**96.2**	**0.3**	**19.8**	**4.6**	**30.7**	**(s)**	**R 10.3**	**R 187.9**	**d R 3.9**	**d R 226.4**	**R 178.5**	**d R 404.9**
1991	—	8.2	8.2	28.7	29.5	108.7	0.1	4.8	4.8	29.1	(s)	R 8.8	R 185.7	R 4.0	R 226.7	R 184.1	R 410.9
1992	—	7.2	7.2	47.3	24.8	77.6	(s)	7.8	R 5.3	28.2	(s)	R 7.0	R 150.9	R 3.9	R 209.3	R 177.5	R 386.8
1993	—	10.3	10.3	32.0	31.7	82.6	(s)	46.0	5.6	28.5	2.4	R 6.0	R 203.0	R 3.9	R 249.2	R 172.5	R 421.7
1994	—	16.1	16.1	63.4	36.7	67.2	(s)	8.9	5.9	31.7	1.5	R 6.2	R 158.0	R 4.0	R 241.5	R 187.4	R 428.8
1995	**—**	**17.5**	**17.5**	**82.3**	**26.8**	**80.3**	**(s)**	**8.3**	**5.9**	**34.1**	**0.6**	**7.4**	**163.3**	**4.5**	**267.7**	**208.8**	**476.5**

[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=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 171. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Montana

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.48**	**—**	**2.17**	**1.24**	**0.76**	**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	2.94	0.16	2.38	2.38	—	2.38
1972	0.51	—	2.19	1.29	0.79	1.55	5.58	2.82	0.52	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**	**2.65**	**2.12**	**2.77**	**7.48**	**4.78**	**2.01**	**4.02**	**4.02**	**—**	**4.02**
1976	1.07	—	3.59	2.79	2.32	3.14	7.05	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	2.86	7.60	5.54	1.98	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	**—**	**—**	**9.02**	**7.15**	**6.59**	**5.85**	**14.36**	**9.99**	**—**	**8.92**	**8.92**	**—**	**8.92**
1981	—	—	10.84	8.36	7.67	6.85	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	7.27	6.63	16.98	9.19	4.10	8.62	8.62	—	8.62
1984	—	—	10.27	7.18	7.03	6.70	17.63	9.11	4.57	8.52	8.52	—	8.52
1985	**—**	**—**	**9.99**	**6.80**	**6.64**	**7.19**	**17.61**	**9.16**	**4.01**	**8.42**	**8.42**	**—**	**8.42**
1986	—	—	8.41	6.84	4.81	6.17	15.59	6.74	—	6.78	6.78	—	6.78
1987	—	—	7.55	7.09	4.38	5.77	R 13.58	7.57	—	R 7.35	R 7.35	—	R 7.35
1988	—	—	7.41	7.31	4.33	5.75	R 14.62	7.75	—	7.52	7.52	—	7.52
1989	—	—	8.28	8.13	4.79	5.98	14.48	8.59	—	8.33	8.33	—	8.33
1990	**—**	**4.47**	**9.32**	**9.18**	**6.26**	**8.30**	**14.60**	**9.56**	**—**	**9.35**	**9.35**	**—**	**9.35**
1991	—	4.38	8.71	8.94	5.47	8.68	R 16.80	9.07	—	8.97	8.97	—	8.97
1992	—	4.41	8.54	8.85	5.46	8.82	R 18.32	9.39	—	R 9.11	R 9.11	—	R 9.11
1993	—	5.08	8.24	8.96	5.39	8.79	R 18.96	9.57	—	9.26	9.26	—	9.26
1994	—	4.24	7.96	8.95	5.02	7.56	R 19.11	9.99	—	9.48	9.48	—	9.48
1995	**—**	**4.48**	**8.36**	**9.03**	**5.32**	**7.38**	**19.40**	**10.04**	**—**	**9.50**	**9.50**	**—**	**9.50**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**0.5**	**21.9**	**2.7**	**0.2**	**4.7**	**127.7**	**0.3**	**157.9**	**157.9**	**—**	**157.9**
1971	(s)	—	0.5	23.3	3.4	0.3	4.6	135.9	0.1	168.0	168.0	—	168.0
1972	(s)	—	1.0	25.5	3.4	0.5	5.2	137.4	0.2	173.3	173.3	—	173.3
1973	(s)	—	1.3	34.3	4.0	0.4	5.1	169.4	0.3	214.8	214.8	—	214.8
1974	(s)	—	1.7	64.1	7.1	0.5	6.7	224.0	1.4	305.5	305.5	—	305.5
1975	**(s)**	**—**	**1.4**	**59.2**	**9.7**	**0.5**	**7.3**	**242.9**	**2.0**	**323.1**	**323.1**	**—**	**323.1**
1976	(s)	—	1.7	66.7	9.8	0.6	7.7	273.0	1.9	361.3	361.3	—	361.3
1977	(s)	—	1.9	74.1	11.7	0.5	8.3	282.3	1.8	380.5	380.5	—	380.5
1978	—	—	1.9	85.3	11.4	0.5	9.7	351.3	1.7	461.8	461.8	—	461.8
1979	—	—	3.5	135.1	20.8	0.3	13.6	400.4	0.4	574.1	574.1	—	574.1
1980	**—**	**—**	**7.3**	**198.3**	**34.1**	**1.0**	**17.1**	**509.5**	**—**	**767.3**	**767.3**	**—**	**767.3**
1981	—	—	9.7	186.7	34.5	1.3	20.6	580.1	—	832.8	832.8	—	832.8
1982	—	—	5.1	183.1	25.8	0.6	18.0	531.9	—	764.5	764.5	—	764.5
1983	—	—	5.4	171.3	26.6	1.3	18.5	479.9	0.1	703.0	703.0	—	703.0
1984	—	—	4.0	189.8	25.3	1.7	20.5	470.3	(s)	711.6	711.6	—	711.6
1985	**—**	**—**	**4.6**	**169.4**	**25.2**	**1.3**	**19.1**	**454.2**	**(s)**	**673.8**	**673.8**	**—**	**673.8**
1986	—	—	4.4	163.5	23.3	1.2	16.5	334.6	—	543.5	543.5	—	543.5
1987	—	—	3.1	171.7	17.7	0.8	R 16.3	381.1	—	R 590.7	R 590.7	—	R 590.7
1988	—	—	4.0	178.4	19.6	1.0	16.9	398.9	—	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**	**2.0**	**17.8**	**480.6**	**—**	**753.6**	**753.6**	**—**	**753.6**
1991	—	(s)	4.8	216.6	19.0	1.5	18.3	461.2	—	721.3	721.4	—	721.4
1992	—	(s)	3.3	242.6	26.3	1.1	R 20.4	498.4	—	R 792.0	R 792.0	—	R 792.0
1993	—	(s)	2.6	248.3	27.1	1.4	R 21.5	524.0	—	824.8	824.8	—	824.8
1994	—	(s)	3.0	289.7	24.0	1.6	R 22.6	550.3	—	R 891.2	891.3	—	891.3
1995	**—**	**(s)**	**3.3**	**307.9**	**31.3**	**0.7**	**22.6**	**562.8**	**—**	**928.6**	**928.6**	**—**	**928.6**

[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.
(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, 1970-1995, Montana

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.19**	**0.27**	**0.33**	**0.36**	**—**	**0.33**	**—**	**0.65**	**0.23**
1971	0.25	0.32	0.16	0.17	—	0.17	—	0.69	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	—	1.83	—	0.84	0.29
1975	**0.30**	**0.38**	**1.99**	**2.30**	**—**	**2.00**	**—**	**0.92**	**0.34**
1976	0.30	0.41	2.11	2.53	—	2.12	—	0.98	0.33
1977	0.28	0.67	2.18	2.66	—	2.19	—	1.04	0.34
1978	0.32	0.71	2.02	2.97	—	2.05	—	1.12	0.36
1979	0.36	2.10	2.74	3.43	—	2.81	—	1.56	0.48
1980	**0.44**	**3.87**	**—**	**5.01**	**—**	**5.01**	**—**	**1.74**	**0.72**
1981	0.51	3.94	—	5.84	—	5.84	—	1.24	0.66
1982	0.58	1.71	—	5.42	—	5.42	—	1.28	0.61
1983	0.77	0.80	—	6.21	—	6.21	—	1.12	0.80
1984	0.74	0.66	—	5.80	—	5.80	—	1.28	0.77
1985	**0.71**	**0.59**	**—**	**6.11**	**—**	**6.11**	**—**	**0.79**	**0.72**
1986	0.67	0.86	—	4.28	—	4.28	—	0.32	0.68
1987	0.65	0.92	—	4.11	—	4.11	—	0.95	0.66
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	2.68	—	5.26	—	5.26	—	([b])	0.70
1994	0.69	1.15	—	4.63	—	4.63	—	([b])	0.70
1995	**0.67**	**3.58**	**—**	**4.91**	**—**	**4.91**	**—**	**—**	**0.69**
	Expenditures in Million Nominal Dollars								
1970	**2.2**	**0.7**	**0.1**	**(s)**	**—**	**0.1**	**—**	**0.5**	**3.4**
1971	2.5	0.4	(s)	(s)	—	(s)	—	0.4	3.3
1972	3.1	0.4	(s)	(s)	—	0.1	—	0.4	4.0
1973	3.1	0.8	0.9	0.2	—	1.0	—	0.4	5.3
1974	3.6	0.4	0.1	(s)	—	0.2	—	0.1	4.3
1975	**5.2**	**0.5**	**0.7**	**(s)**	**—**	**0.7**	**—**	**0.1**	**6.4**
1976	11.7	0.3	1.0	0.1	—	1.1	—	0.4	13.5
1977	15.4	0.8	2.6	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	—	0.8	29.9
1980	**25.3**	**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	—	1.0	—	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	—	0.8	67.8
1985	**67.1**	**0.3**	**—**	**1.4**	**—**	**1.4**	**—**	**0.5**	**69.2**
1986	85.7	0.4	—	0.6	—	0.6	—	0.2	87.0
1987	83.8	0.5	—	1.1	—	1.1	—	0.5	85.9
1988	96.7	0.4	—	1.5	—	1.5	—	([b])	99.1
1989	100.2	0.5	—	1.5	—	1.5	—	**([b])**	102.2
1990	**107.9**	**0.7**	**—**	**2.0**	**—**	**2.0**	**—**	([b])	**110.6**
1991	116.9	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])	106.7
1994	123.9	0.8	—	1.1	—	1.1	—	—	125.8
1995	**107.5**	**1.5**	**—**	**1.5**	**—**	**1.5**	**—**	**—**	**110.5**

[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.

(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 173. Energy Price and Expenditure Estimates by Source, 1970-1995, Nebraska

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	**—**	**0.32**	**0.32**	**0.50**	**0.95**	**0.75**	**1.56**	**3.03**	**0.48**	**1.76**	**[R] 2.11**	**—**	**—**	**1.21**	**0.30**	**5.12**	**1.72**
1971	—	0.41	0.41	0.55	0.99	0.78	1.54	3.00	0.60	1.84	2.14	—	—	1.26	0.34	5.36	1.80
1972	—	0.40	0.40	0.62	1.01	0.78	1.59	3.00	0.71	2.04	2.14	—	—	1.31	0.41	5.67	1.84
1973	—	0.43	0.43	0.63	1.28	0.93	2.49	3.21	0.70	2.20	2.43	0.17	—	1.42	0.43	5.58	2.01
1974	—	0.60	0.60	0.72	2.20	1.60	2.93	4.27	1.62	3.25	[R] 3.35	0.16	—	1.77	0.43	6.05	2.56
1975	**—**	**0.86**	**0.86**	**0.90**	**2.38**	**2.09**	**3.07**	**4.76**	**1.74**	**3.65**	**3.74**	**0.17**	**—**	**1.96**	**0.50**	**6.89**	**2.90**
1976	—	0.96	0.96	1.08	2.61	2.26	3.41	5.06	1.76	3.86	3.92	0.20	—	2.18	0.62	7.93	3.19
1977	—	1.07	1.07	1.35	2.92	2.69	3.84	5.29	1.86	3.33	4.17	0.20	—	2.35	0.62	8.59	3.54
1978	—	1.18	1.18	1.50	3.06	2.90	3.62	5.50	1.70	3.38	4.23	0.20	—	2.50	0.65	9.23	3.85
1979	—	1.21	1.21	1.83	4.24	4.03	4.21	7.41	2.26	5.16	5.75	0.29	—	3.07	0.75	9.84	4.78
1980	**—**	**1.27**	**1.27**	**2.40**	**6.24**	**6.47**	**5.70**	**10.06**	**3.21**	**7.50**	**8.27**	**0.44**	**—**	**4.18**	**1.00**	**11.76**	**6.52**
1981	—	1.21	1.21	3.11	7.60	7.60	5.84	11.37	4.38	[R] 9.82	[R] 9.62	0.55	—	4.80	0.95	13.27	[R] 7.70
1982	—	1.22	1.22	3.83	7.07	7.19	6.09	10.71	4.22	8.71	8.93	0.68	—	4.59	0.96	13.52	7.62
1983	—	1.25	1.25	4.42	6.82	6.63	6.52	9.61	4.46	9.17	8.22	0.62	—	4.74	1.01	15.97	7.96
1984	—	1.32	1.32	4.46	6.81	6.50	6.29	9.55	4.65	9.59	8.26	0.57	—	4.62	1.06	15.50	7.89
1985	**—**	**1.17**	**1.17**	**4.43**	**6.52**	**6.19**	**[R] 7.15**	**9.67**	**4.28**	**10.21**	**[R] 8.22**	**0.65**	**—**	**4.79**	**1.01**	**15.70**	**8.02**
1986	—	1.08	1.08	4.08	5.67	4.43	[R] 7.38	7.28	2.71	6.75	[R] 6.52	0.64	—	3.78	0.89	15.62	[R] 7.17
1987	—	0.98	0.98	3.71	6.09	4.38	[R] 7.04	7.58	2.53	[R] 6.20	[R] 6.76	0.64	—	[R] 3.72	0.82	15.65	[R] 7.19
1988	—	0.87	0.87	3.81	5.65	4.14	[R] 7.17	7.22	2.17	5.99	[R] 6.37	0.63	—	[R] 3.65	0.79	15.52	[R] 6.95
1989	—	0.85	0.85	3.84	6.42	4.54	[R] 7.55	8.42	2.04	6.29	[R] 7.30	0.65	—	3.91	0.78	16.22	[R] 7.63
1990	**—**	**0.78**	**0.78**	**3.93**	**7.64**	**6.03**	**[R] 9.15**	**9.49**	**2.22**	**5.98**	**[R] 8.38**	**0.61**	**[d R] 3.25**	**[d] 4.28**	**0.73**	**[R] 16.33**	**[d] 8.37**
1991	—	0.78	0.78	3.93	7.20	5.01	[R] 8.05	9.43	2.02	5.95	[R] 8.11	0.62	3.25	4.06	0.72	16.05	8.13
1992	—	0.78	0.78	4.10	7.04	4.64	[R] 7.55	9.09	1.97	[R] 7.24	[R] 7.92	0.57	[R] 3.19	4.07	0.69	[R] 16.20	8.12
1993	—	0.79	0.79	4.25	7.01	4.33	[R] 6.73	9.08	2.27	7.92	[R] 7.87	0.64	[R] 3.14	4.07	0.74	16.24	8.02
1994	—	0.80	0.80	4.19	6.82	3.99	[R] 7.12	9.17	2.08	[R] 7.37	[R] 7.77	0.73	[R] 3.07	[R] 4.18	0.77	[R] 16.08	[R] 7.99
1995	**—**	**0.78**	**0.78**	**3.89**	**6.89**	**4.01**	**7.30**	**9.15**	**2.38**	**7.97**	**7.91**	**0.68**	**3.00**	**3.99**	**0.74**	**15.82**	**7.93**
	Expenditures in Million Nominal Dollars																
1970	**—**	**9.6**	**9.6**	**104.1**	**41.4**	**7.3**	**33.2**	**294.4**	**2.3**	**[R] 26.3**	**[R] 404.9**	**—**	**—**	**518.6**	**-22.3**	**170.3**	**666.6**
1971	—	10.8	10.8	115.7	43.9	7.8	31.8	303.0	2.0	28.2	416.7	—	—	[R] 543.3	-24.9	187.9	706.2
1972	—	13.6	13.6	130.7	53.4	7.4	36.0	321.3	3.0	[R] 28.7	449.7	—	—	594.0	-32.8	191.9	753.1
1973	—	16.0	16.0	134.4	69.4	8.5	49.6	352.8	2.9	32.9	516.1	1.1	—	667.6	-39.5	203.7	831.7
1974	—	19.6	19.6	150.9	113.2	15.8	57.9	457.5	10.1	47.2	701.8	7.0	—	879.3	-53.2	226.0	1,052.1
1975	**—**	**28.4**	**28.4**	**184.3**	**117.9**	**19.3**	**65.4**	**516.3**	**11.2**	**45.0**	**775.1**	**11.0**	**—**	**[R] 998.8**	**-68.1**	**271.2**	**1,201.8**
1976	—	51.4	51.4	200.6	158.2	21.1	82.8	573.0	15.9	46.1	897.2	12.9	—	1,162.0	-82.2	326.6	1,406.4
1977	—	63.8	63.8	236.1	185.6	26.2	83.6	606.3	11.9	47.4	[R] 961.1	16.0	—	1,276.9	-92.6	363.4	[R] 1,547.7
1978	—	70.8	70.8	227.2	225.4	31.9	72.7	638.0	13.0	[R] 58.6	1,039.5	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	796.6	9.8	50.6	1,289.4	27.5	—	1,702.2	-133.8	447.6	2,016.1
1980	**—**	**119.4**	**119.4**	**354.1**	**332.7**	**56.2**	**94.2**	**1,008.9**	**4.3**	**67.8**	**1,564.1**	**27.7**	**—**	**[R] 2,065.4**	**-164.7**	**550.6**	**[R] 2,451.3**
1981	—	119.0	119.0	395.7	362.4	60.9	84.9	1,095.0	1.7	[R] 87.9	[R] 1,692.7	36.3	—	[R] 2,243.6	-154.8	628.9	[R] 2,717.8
1982	—	117.7	117.7	499.6	380.8	57.2	105.4	1,027.3	5.1	73.8	1,649.6	66.2	—	2,333.1	-181.3	644.5	2,796.4
1983	—	131.1	131.1	542.5	459.0	53.9	113.5	904.3	2.9	73.7	1,607.4	41.1	—	2,322.1	-169.7	816.8	2,969.2
1984	—	164.0	164.0	567.2	475.5	49.3	47.9	896.6	2.0	77.2	1,548.6	35.5	—	2,315.3	-191.7	826.9	2,950.5
1985	**—**	**135.5**	**135.5**	**523.7**	**470.2**	**45.9**	**[R] 66.7**	**901.2**	**1.7**	**67.5**	**[R] 1,553.2**	**29.3**	**—**	**[R] 2,241.7**	**-158.7**	**841.2**	**[R] 2,924.2**
1986	—	118.5	118.5	408.4	398.3	32.8	[R] 65.8	679.4	4.3	76.4	[R] 1,257.0	52.8	—	[R] 1,836.7	-167.8	846.3	[R] 2,515.3
1987	—	114.1	114.1	383.6	436.7	32.9	[R] 82.9	710.3	4.2	[R] 80.5	[R] 1,347.4	59.0	—	[R] 1,904.0	-169.4	864.2	[R] 2,598.8
1988	—	121.7	121.7	439.0	460.7	34.2	[R] 91.6	706.3	5.6	77.8	[R] 1,376.1	46.5	—	[R] 1,983.3	-166.5	914.0	[R] 2,730.9
1989	—	112.7	112.7	436.6	465.1	37.1	[R] 100.7	814.2	4.8	74.4	[R] 1,496.3	56.3	—	[R] 2,101.9	-168.9	972.0	[R] 2,905.0
1990	**—**	**110.2**	**110.2**	**415.4**	**554.4**	**50.0**	**[R] 96.5**	**914.9**	**3.6**	**82.5**	**[R] 1,702.0**	**49.3**	**[d R] 5.1**	**[d R] 2,281.9**	**-161.1**	**[R] 995.7**	**[d R] 3,116.5**
1991	—	118.4	118.4	438.4	545.9	33.1	[R] 92.1	881.7	2.5	72.9	[R] 1,628.3	53.4	5.4	[R] 2,243.9	-169.5	[R] 1,019.1	[R] 3,093.5
1992	—	110.2	110.2	418.8	577.6	30.7	[R] 88.3	857.8	2.3	[R] 64.0	[R] 1,620.6	53.6	[R] 5.6	[R] 2,208.9	-159.2	[R] 983.2	[R] 3,032.9
1993	—	131.0	131.0	512.2	573.9	27.8	[R] 72.4	859.4	4.0	[R] 65.0	[R] 1,602.4	46.5	[R] 4.8	[R] 2,296.8	-172.8	[R] 1,038.7	[R] 3,162.8
1994	—	128.8	128.8	509.1	623.6	28.1	[R] 79.7	869.7	2.8	[R] 72.6	[R] 1,676.5	49.1	[R] 4.8	[R] 2,368.3	-172.9	[R] 1,090.5	[R] 3,285.9
1995	**—**	**139.2**	**139.2**	**506.1**	**624.4**	**22.7**	**79.9**	**928.0**	**1.8**	**72.7**	**1,729.6**	**54.3**	**5.3**	**2,434.5**	**-190.2**	**1,127.9**	**3,372.2**

[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 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 174. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Nebraska

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.08**	**0.84**	**1.19**	**1.39**	**1.78**	**1.69**	**—**	**1.04**	**6.21**	**1.84**
1971	1.03	0.91	1.29	1.39	1.71	1.64	—	1.08	6.52	1.96
1972	1.10	0.98	1.30	1.40	1.82	1.72	—	1.16	6.92	2.01
1973	1.16	1.03	1.41	1.73	3.10	2.75	—	1.47	6.60	2.39
1974	1.52	1.13	2.43	2.63	3.33	3.15	—	1.59	7.22	2.68
1975	**2.16**	**1.29**	**2.62**	**2.74**	**3.57**	**3.39**	**—**	**1.74**	**8.13**	**2.95**
1976	2.22	1.37	2.86	3.04	4.18	3.88	—	1.93	9.32	3.30
1977	2.57	1.80	3.22	3.48	4.60	4.29	—	2.31	10.20	3.88
1978	3.42	1.97	3.30	3.69	3.87	3.78	—	2.37	10.81	4.29
1979	3.68	2.31	4.91	5.09	6.17	5.74	—	2.77	11.52	4.73
1980	**3.60**	**2.78**	**6.85**	**7.55**	**6.82**	**6.84**	**—**	**3.32**	**13.22**	**5.83**
1981	3.75	3.52	8.12	9.24	7.08	7.45	—	4.09	15.07	7.11
1982	4.26	4.24	7.84	9.24	7.67	7.75	—	4.69	14.34	7.16
1983	4.23	5.05	7.20	8.41	7.46	7.44	—	5.38	17.88	8.96
1984	4.09	5.18	6.89	8.47	7.18	7.19	—	5.35	17.35	8.83
1985	**2.76**	**5.10**	**7.92**	**9.74**	**7.12**	**7.49**	**—**	**5.37**	**17.30**	**8.83**
1986	2.40	4.62	4.88	6.00	5.35	5.21	—	4.68	17.27	8.64
1987	2.43	4.43	4.50	5.54	5.35	5.18	—	4.52	17.52	8.82
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	6.61	7.82	7.21	—	4.85	18.05	8.99
1990	**2.42**	**4.67**	**6.74**	**8.28**	**7.79**	**7.57**	**[d] 3.56**	**[d] 4.92**	**[R] 18.25**	**[d] 8.99**
1991	2.36	4.71	6.25	7.69	6.92	6.79	3.56	4.90	17.86	8.75
1992	2.39	4.92	5.51	6.78	6.65	6.48	3.56	5.06	[R] 18.38	[R] 8.94
1993	2.44	5.09	5.65	6.95	6.45	6.31	3.56	5.17	[R] 18.31	[R] 9.02
1994	2.47	5.09	5.56	6.84	[R] 6.78	[R] 6.55	3.56	[R] 5.19	[R] 18.48	[R] 9.34
1995	**2.44**	**4.93**	**5.92**	**7.28**	**6.84**	**6.74**	**3.56**	**5.07**	**18.68**	**9.35**
	Expenditures in Million Nominal Dollars									
1970	**0.3**	**49.6**	**1.4**	**3.0**	**26.1**	**30.4**	**—**	**80.3**	**87.0**	**167.4**
1971	0.2	53.2	1.4	3.6	24.1	29.1	—	82.5	95.9	178.4
1972	0.3	59.4	1.6	4.2	27.3	33.2	—	92.9	96.3	189.3
1973	0.2	52.4	1.7	5.3	40.9	47.9	—	100.5	99.9	200.4
1974	0.1	56.3	2.6	6.1	37.8	46.5	—	103.0	111.2	214.1
1975	**0.1**	**68.9**	**2.6**	**5.8**	**41.7**	**50.1**	**—**	**119.2**	**130.3**	**249.4**
1976	0.1	75.1	4.2	7.4	49.2	60.8	—	136.0	150.1	286.2
1977	0.3	95.1	4.3	7.4	47.5	59.2	—	154.6	169.1	323.7
1978	0.5	94.8	5.1	6.0	40.6	51.8	—	147.1	197.1	344.3
1979	1.4	123.3	13.0	0.7	32.4	46.2	—	170.9	206.8	377.7
1980	**0.4**	**133.5**	**14.4**	**0.4**	**35.2**	**50.0**	**—**	**184.0**	**249.1**	**433.0**
1981	0.4	151.5	18.2	1.5	33.8	53.5	—	205.4	288.0	493.4
1982	0.8	213.6	16.7	1.5	39.8	58.0	—	272.4	286.0	558.4
1983	1.8	234.1	10.4	2.2	46.1	58.7	—	294.6	392.7	687.2
1984	2.8	243.3	10.8	3.3	19.8	33.8	—	279.9	371.0	650.9
1985	**0.3**	**233.9**	**15.7**	**2.2**	**25.6**	**43.5**	**—**	**277.7**	**365.5**	**643.2**
1986	0.1	194.0	8.0	0.6	17.3	26.0	—	220.0	372.6	592.6
1987	0.1	169.5	5.3	0.4	23.9	29.6	—	199.1	381.4	580.5
1988	0.7	194.0	4.9	0.5	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	**0.1**	**190.9**	**6.6**	**0.2**	**27.6**	**34.4**	**[d] 4.5**	**[d] 229.9**	**[R] 423.4**	**[d R] 653.3**
1991	0.3	207.3	7.2	0.2	30.7	38.1	4.8	250.4	435.0	685.4
1992	0.1	199.6	4.7	0.4	30.0	35.1	5.0	239.8	[R] 411.4	[R] 651.3
1993	0.1	239.3	5.5	0.4	27.2	33.2	4.2	276.8	[R] 451.6	[R] 728.3
1994	0.1	222.4	5.2	0.2	[R] 26.9	[R] 32.3	4.1	[R] 258.9	[R] 465.4	[R] 724.3
1995	**0.2**	**217.6**	**3.3**	**0.2**	**29.1**	**32.5**	**4.5**	**254.8**	**484.1**	**738.9**

[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 175. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Nebraska

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.16**	**0.52**	**1.03**	**0.79**	**1.09**	**3.03**	**0.50**	**1.09**	**0.59**	**4.87**	**1.36**
1971	0.41	0.58	1.11	0.85	1.18	3.00	0.59	1.19	0.65	5.08	1.50
1972	0.22	0.57	1.12	0.85	1.15	3.00	0.72	1.21	0.65	5.37	1.56
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	1.67	2.36	0.99	5.94	2.04
1975	**0.81**	**1.00**	**2.45**	**2.39**	**2.46**	**4.76**	**1.75**	**2.60**	**1.17**	**6.96**	**2.36**
1976	1.03	1.16	2.67	2.57	2.68	5.06	1.73	2.63	1.33	8.16	2.64
1977	1.17	1.39	3.01	2.73	3.16	5.29	1.83	2.96	1.57	8.94	3.06
1978	1.47	1.54	3.07	3.00	3.36	5.50	1.69	3.15	1.73	9.66	3.51
1979	1.72	2.01	4.80	3.53	3.35	7.41	2.33	4.58	2.27	10.43	4.05
1980	**1.69**	**2.33**	**6.49**	**5.17**	**5.19**	**10.06**	**3.22**	**6.81**	**2.62**	**12.86**	**5.01**
1981	1.97	3.02	7.80	6.74	5.24	11.37	4.64	7.89	3.44	14.06	6.21
1982	1.79	3.56	7.46	6.06	5.41	10.71	4.03	6.98	3.84	14.32	6.51
1983	1.67	4.29	6.37	6.74	6.01	9.61	—	6.63	4.59	16.66	7.81
1984	1.70	4.35	6.34	6.64	5.78	9.55	—	6.55	4.57	16.44	7.93
1985	**2.46**	**4.29**	**6.00**	**6.32**	**R 7.17**	**9.67**	**—**	**R 6.62**	**4.60**	**16.78**	**8.28**
1986	1.70	3.95	3.67	4.08	R 8.54	7.28	—	R 5.34	R 4.07	16.55	8.23
1987	1.63	3.76	4.21	4.55	R 8.07	7.58	2.60	R 5.73	3.94	16.43	8.34
1988	1.56	3.81	3.80	4.21	R 8.04	7.22	2.13	R 5.48	3.91	16.22	8.06
1989	1.47	3.82	4.44	4.77	R 7.41	8.42	2.02	R 5.85	R 3.97	16.93	8.58
1990	**1.48**	**3.92**	**5.50**	**5.93**	**R 9.83**	**9.49**	**2.22**	**R 7.28**	**R 4.19**	**R 17.21**	**8.88**
1991	1.54	3.93	4.88	5.28	R 8.76	9.43	2.03	R 6.82	4.09	R 16.84	R 8.59
1992	1.57	4.07	4.68	5.22	R 8.12	9.09	1.97	R 6.02	R 4.23	R 17.15	R 9.06
1993	1.55	4.38	4.50	5.06	R 6.91	9.08	2.27	R 5.23	R 4.44	R 17.28	9.30
1994	1.52	4.30	4.29	R 4.91	R 8.14	9.17	2.08	R 5.26	R 4.37	R 16.88	R 9.00
1995	**1.48**	**4.04**	**4.30**	**4.92**	**8.17**	**9.15**	**2.38**	**6.11**	**4.13**	**16.46**	**8.85**
	Expenditures in Million Nominal Dollars										
1970	**0.1**	**24.7**	**1.2**	**0.3**	**2.8**	**1.7**	**0.8**	**6.8**	**31.7**	**58.3**	**89.9**
1971	0.2	27.7	1.2	0.4	2.9	1.8	0.8	7.2	35.1	65.3	100.4
1972	0.1	26.5	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	72.8	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**	**5.1**	**3.0**	**1.7**	**13.3**	**56.2**	**86.9**	**143.1**
1976	0.1	56.2	3.9	1.2	5.6	3.3	3.4	17.4	73.8	106.3	180.1
1977	0.2	65.5	4.0	1.1	5.8	3.6	3.1	17.6	83.3	120.6	203.9
1978	0.4	62.6	4.8	0.9	6.2	3.9	2.1	18.0	81.0	130.7	211.7
1979	1.2	87.2	12.8	0.1	3.1	5.5	1.6	23.0	111.4	142.9	254.3
1980	**0.4**	**99.1**	**6.8**	**0.6**	**4.7**	**7.9**	**0.5**	**20.5**	**120.0**	**178.5**	**298.5**
1981	0.4	120.3	15.4	0.4	4.4	9.2	0.5	29.9	150.5	217.0	367.5
1982	0.6	150.2	13.0	0.5	5.0	7.3	2.6	28.3	179.2	227.9	407.1
1983	1.3	164.7	30.9	0.2	6.5	6.1	—	43.7	209.7	277.7	487.4
1984	2.1	179.0	33.2	0.4	2.8	4.8	—	41.1	222.2	316.6	538.8
1985	**0.4**	**166.0**	**28.0**	**0.4**	**R 4.5**	**8.0**	**—**	**R 41.0**	**R 207.4**	**327.2**	**R 534.6**
1986	0.1	142.8	7.1	0.2	R 4.9	5.4	—	R 17.6	R 160.5	327.3	R 487.8
1987	0.1	126.6	8.7	0.1	R 6.4	5.5	(s)	R 20.7	R 147.3	333.8	R 481.1
1988	0.8	147.7	6.6	(s)	R 6.2	5.1	0.2	R 18.1	R 166.7	351.0	R 517.7
1989	0.1	140.8	5.9	0.1	R 5.8	5.6	0.6	R 17.9	R 158.8	374.0	R 532.8
1990	**0.1**	**140.8**	**7.9**	**0.8**	**R 6.1**	**7.7**	**0.3**	**R 22.8**	**R 163.8**	**R 378.7**	**542.5**
1991	0.2	155.9	5.2	0.1	R 6.9	5.0	0.3	R 17.4	R 173.6	R 389.5	R 563.1
1992	0.1	137.6	7.4	(s)	R 6.5	4.4	0.5	R 18.8	R 156.5	R 378.6	R 535.1
1993	0.1	148.4	8.0	0.1	R 5.1	1.0	0.3	R 14.6	R 163.0	R 386.8	549.8
1994	0.2	165.1	9.0	R 0.1	R 5.7	1.0	0.2	R 16.1	R 181.4	R 411.8	R 593.3
1995	**0.2**	**158.6**	**4.4**	**0.1**	**6.1**	**1.0**	**(s)**	**11.6**	**170.4**	**420.9**	**591.3**

[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.

—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 176. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Nebraska

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.16**	**0.16**	**0.32**	**0.71**	**0.73**	**0.79**	**1.09**	**5.08**	**3.03**	**0.40**	**0.51**	**1.26**	**—**	**0.69**	**3.42**	**0.88**
1971	—	0.41	0.41	0.36	0.83	0.79	0.85	1.18	5.27	3.00	0.65	R 2.50	1.36	—	0.77	3.57	0.97
1972	—	0.22	0.22	0.48	0.86	0.79	0.85	1.15	5.58	3.00	0.64	R 2.64	R 1.31	—	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	R 3.02	1.36	—	0.72	3.95	0.93
1974	—	0.57	0.57	0.54	1.79	1.85	2.00	2.40	7.22	4.27	1.14	R 2.98	2.54	—	1.26	4.20	1.47
1975	**—**	**0.81**	**0.81**	**0.69**	**2.07**	**2.25**	**2.39**	**2.46**	**7.48**	**4.76**	**1.74**	**R 3.30**	**2.93**	**—**	**1.48**	**4.96**	**1.77**
1976	—	1.03	1.03	0.85	2.04	2.39	2.57	2.68	7.05	5.06	1.93	R 3.84	3.00	—	1.73	5.83	2.09
1977	—	1.17	1.17	1.02	2.05	2.53	2.73	3.16	6.97	5.29	2.27	R 4.19	3.09	—	1.89	6.02	2.27
1978	—	1.47	1.47	1.11	2.20	2.76	3.00	3.36	7.60	5.50	2.03	R 4.93	3.19	—	2.12	6.54	2.57
1979	—	1.72	1.72	1.26	2.58	3.34	3.53	3.35	10.21	7.41	2.28	R 5.87	3.91	—	2.60	7.07	3.08
1980	**—**	**1.69**	**1.69**	**2.21**	**3.89**	**4.94**	**5.17**	**5.19**	**14.36**	**10.06**	**3.13**	**R 7.58**	**5.88**	**—**	**3.87**	**8.71**	**4.50**
1981	—	1.97	1.97	2.84	5.50	6.40	6.74	5.24	18.00	11.37	4.09	R 10.88	R 7.10	—	4.70	9.66	R 5.34
1982	—	1.79	1.79	3.62	4.46	5.72	6.06	5.41	17.25	10.71	4.44	15.76	6.37	—	4.87	11.06	5.62
1983	—	1.67	1.67	3.79	4.85	6.67	6.74	6.01	16.98	9.61	4.47	14.29	6.83	—	5.22	11.71	6.07
1984	—	1.70	1.70	3.71	4.96	6.57	6.64	5.78	17.63	9.55	4.65	13.48	6.84	—	5.01	10.96	5.83
1985	**—**	**2.46**	**2.46**	**3.67**	**5.04**	**6.25**	**6.32**	**R 7.17**	**17.61**	**9.67**	**4.28**	**13.38**	**R 6.99**	**—**	**R 5.34**	**11.47**	**R 6.20**
1986	—	1.70	1.70	3.28	3.93	4.04	4.08	R 8.54	15.59	7.28	2.81	7.20	R 5.07	—	R 4.28	11.42	R 5.35
1987	—	1.63	1.63	2.81	3.85	4.50	4.55	R 8.07	R 13.58	7.58	2.60	7.78	R 5.38	—	R 4.20	11.34	R 5.18
1988	—	1.56	1.56	2.90	3.54	4.16	4.21	R 8.04	R 14.62	7.22	2.13	6.53	R 5.00	—	R 4.04	11.28	R 5.04
1989	—	1.47	1.47	2.96	3.09	4.72	4.77	R 7.41	14.48	8.42	2.02	9.15	R 5.42	—	R 4.27	12.34	R 5.50
1990	**—**	**1.48**	**1.48**	**3.02**	**3.15**	**5.87**	**5.93**	**R 9.83**	**14.60**	**9.49**	**2.22**	**8.55**	**R 6.25**	**[d] 1.89**	**[d] R 4.91**	**R 12.28**	**[d] R 6.15**
1991	—	1.54	1.54	2.80	3.18	5.22	5.28	R 8.76	R 16.80	9.43	2.03	16.33	R 5.71	1.89	R 4.48	R 12.17	R 5.77
1992	—	1.57	1.57	2.98	2.62	5.16	5.22	R 8.12	R 18.32	9.09	1.97	24.75	R 5.67	1.89	R 4.46	R 11.91	R 5.73
1993	—	1.55	1.55	3.17	2.92	5.00	5.06	R 6.91	R 18.96	9.08	2.27	19.10	R 5.35	1.89	R 4.14	R 11.83	R 5.36
1994	—	1.52	1.52	3.17	2.91	4.86	4.91	R 7.14	R 19.11	9.17	2.08	24.75	R 5.26	1.89	R 4.16	R 11.70	R 5.35
1995	**—**	**1.48**	**1.48**	**2.85**	**3.27**	**4.87**	**4.92**	**7.49**	**19.40**	**9.15**	**2.38**	**23.89**	**5.45**	**1.89**	**4.01**	**11.26**	**5.23**
	Expenditures in Million Nominal Dollars																
1970	**—**	**0.8**	**0.8**	**17.0**	**5.3**	**14.0**	**0.6**	**3.4**	**4.9**	**21.0**	**0.3**	**0.1**	**49.6**	**—**	**67.4**	**25.0**	**R 92.4**
1971	—	1.6	1.6	19.6	6.1	15.2	0.7	3.6	4.1	23.6	0.3	1.0	54.7	—	75.9	26.7	102.5
1972	—	1.0	1.0	26.5	5.1	16.2	0.7	4.6	4.7	19.5	0.4	1.1	R 52.4	—	R 79.9	26.8	106.7
1973	—	1.5	1.5	30.5	5.1	19.2	0.8	4.6	6.4	11.8	0.8	1.5	50.2	—	82.3	31.0	113.3
1974	—	3.6	3.6	37.2	11.6	35.7	1.5	13.1	8.3	36.1	0.6	R 1.6	108.5	—	149.3	37.2	186.5
1975	**—**	**4.8**	**4.8**	**49.2**	**10.3**	**42.3**	**1.5**	**16.5**	**8.8**	**41.1**	**0.8**	**1.6**	**R 123.0**	**—**	**177.0**	**54.0**	**R 231.0**
1976	—	12.0	12.0	53.8	7.7	62.0	1.8	25.3	9.2	42.7	1.2	2.1	152.0	—	217.7	70.2	287.9
1977	—	12.3	12.3	60.9	15.0	56.4	1.7	27.8	1.7	45.4	1.6	2.1	R 151.7	—	224.8	73.7	R 298.5
1978	—	15.8	15.8	55.9	23.5	73.2	1.9	22.7	2.0	46.6	1.0	2.5	173.4	—	R 245.1	84.2	329.2
1979	—	17.4	17.4	61.3	14.0	108.6	0.5	34.8	2.9	60.8	0.4	R 3.0	224.9	—	303.7	98.0	401.7
1980	**—**	**8.7**	**8.7**	**101.1**	**18.6**	**98.1**	**0.9**	**51.0**	**3.6**	**77.7**	**0.3**	**3.7**	**253.9**	**—**	**363.7**	**123.0**	**R 486.7**
1981	—	13.8	13.8	113.6	24.5	113.9	1.8	42.6	4.3	81.0	0.7	R 7.2	R 276.1	—	R 403.5	123.9	R 527.4
1982	—	11.0	11.0	131.1	21.8	111.8	1.7	57.2	3.8	67.8	2.5	6.0	272.6	—	414.7	130.7	545.4
1983	—	7.1	7.1	138.8	21.5	137.9	0.9	56.4	3.9	55.2	2.9	5.9	284.6	—	430.5	146.4	576.9
1984	—	9.2	9.2	140.1	20.8	146.8	1.1	23.8	4.3	48.2	2.0	5.5	252.7	—	402.0	139.3	541.3
1985	**—**	**11.9**	**11.9**	**119.4**	**15.8**	**156.4**	**0.8**	**R 35.1**	**4.0**	**70.7**	**1.7**	**5.6**	**R 290.0**	**—**	**R 421.4**	**148.5**	**R 569.9**
1986	—	10.6	10.6	66.3	24.9	100.3	3.3	R 42.4	3.5	45.5	3.5	9.7	R 233.1	—	R 310.0	146.4	R 456.4
1987	—	9.4	9.4	83.2	31.7	101.7	2.2	R 51.1	R 3.4	49.6	3.4	10.4	R 253.5	—	R 346.1	149.0	R 495.1
1988	—	7.8	7.8	92.1	29.7	105.5	1.4	R 60.0	3.5	40.4	4.3	9.2	R 253.9	—	R 353.8	158.0	R 511.8
1989	—	7.9	7.9	89.2	23.2	109.8	0.3	R 58.2	3.6	46.8	3.4	12.6	R 258.0	—	R 355.0	184.0	R 539.0
1990	**—**	**6.6**	**6.6**	**76.5**	**29.0**	**141.5**	**0.5**	**R 60.6**	**3.7**	**47.1**	**3.3**	**12.9**	**R 298.6**	**[d] R 0.6**	**[d] R 382.3**	**R 193.5**	**[d] R 575.8**
1991	—	9.4	9.4	68.3	29.9	141.6	0.3	R 52.5	3.8	46.6	2.2	2.4	R 279.3	0.6	R 357.7	R 194.7	R 552.3
1992	—	9.4	9.4	77.2	15.6	147.8	0.2	R 50.4	R 4.3	39.4	1.8	3.8	R 263.4	R 0.6	R 350.6	R 193.2	R 543.7
1993	—	10.6	10.6	119.5	15.5	143.5	0.3	R 38.9	4.5	33.2	3.7	3.2	R 242.6	R 0.6	R 373.2	R 200.4	R 573.6
1994	—	12.0	12.0	115.3	19.9	166.6	0.3	R 44.8	4.8	35.4	2.6	4.2	R 278.4	R 0.6	R 406.4	R 213.3	R 619.7
1995	**—**	**9.7**	**9.7**	**124.9**	**20.2**	**145.5**	**0.2**	**43.9**	**4.7**	**36.5**	**1.8**	**4.0**	**256.9**	**0.6**	**392.1**	**222.9**	**615.0**

[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 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 177. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Nebraska

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.16**	**—**	**2.17**	**1.14**	**0.75**	**1.09**	**5.08**	**3.03**	**0.50**	**2.51**	**2.51**	**—**	**2.51**
1971	0.41	—	2.21	1.16	0.78	1.18	5.27	3.00	0.59	2.51	2.51	—	2.51
1972	0.22	—	2.19	1.15	0.78	1.15	5.58	3.00	0.72	2.49	2.49	—	2.49
1973	0.24	—	2.36	1.52	0.93	1.28	5.33	3.21	0.65	2.72	2.72	—	2.72
1974	0.57	—	3.23	2.45	1.60	2.40	7.22	4.27	1.66	3.72	3.72	—	3.72
1975	**0.81**	**—**	**3.45**	**2.50**	**2.09**	**2.46**	**7.48**	**4.76**	**1.74**	**4.15**	**4.15**	**—**	**4.15**
1976	1.03	—	3.59	2.79	2.26	2.68	7.05	5.06	1.75	4.41	4.41	—	4.41
1977	1.17	—	3.97	3.16	2.69	3.16	6.97	5.29	1.80	4.62	4.62	—	4.62
1978	—	—	4.29	3.26	2.90	3.36	7.60	5.50	1.69	4.76	4.76	—	4.76
1979	—	—	5.73	4.95	4.03	3.35	10.21	7.41	2.27	6.59	6.59	—	6.59
1980	**—**	**—**	**9.02**	**7.06**	**6.47**	**5.19**	**14.36**	**10.06**	**—**	**9.20**	**9.20**	**—**	**9.20**
1981	—	—	10.84	8.39	7.60	5.24	18.00	11.37	4.63	10.59	10.59	—	10.59
1982	—	—	10.92	7.88	7.19	5.41	17.25	10.71	—	9.91	9.91	—	9.91
1983	—	—	10.44	6.96	6.63	6.01	16.98	9.61	—	8.76	8.76	—	8.76
1984	—	—	10.27	7.00	6.50	5.78	17.63	9.55	—	8.76	8.76	—	8.76
1985	**—**	**—**	**9.99**	**6.68**	**6.19**	**[R] 7.17**	**17.61**	**9.67**	**—**	**8.70**	**8.70**	**—**	**8.70**
1986	—	—	8.41	6.79	4.43	[R] 8.54	15.59	7.28	2.32	7.10	7.10	—	7.10
1987	—	—	7.55	7.02	4.38	[R] 8.07	[R] 13.58	7.58	2.29	[R] 7.32	[R] 7.32	—	[R] 7.32
1988	—	—	7.41	6.47	4.14	[R] 8.04	[R] 14.62	7.22	—	6.90	6.90	—	6.90
1989	—	—	8.28	7.39	4.54	[R] 7.41	14.48	8.42	—	7.96	7.96	—	7.96
1990	**—**	**—**	**9.32**	**8.66**	**6.03**	**[R] 9.83**	**14.60**	**9.49**	**—**	**9.12**	**9.12**	**—**	**9.12**
1991	—	—	8.71	8.44	5.01	[R] 8.76	[R] 16.80	9.43	—	9.00	9.00	—	9.00
1992	—	4.17	8.54	8.20	4.64	[R] 8.12	[R] 18.32	9.09	—	[R] 8.71	[R] 8.71	—	[R] 8.71
1993	—	4.30	8.24	8.29	4.33	[R] 6.91	[R] 18.96	9.08	—	8.74	8.74	—	8.74
1994	—	4.74	7.96	8.21	3.99	[R] 9.11	[R] 19.11	9.17	—	8.73	8.73	—	8.73
1995	**—**	**3.97**	**8.36**	**7.99**	**4.01**	**9.46**	**19.40**	**9.15**	**—**	**8.69**	**8.69**	**—**	**8.69**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**2.2**	**24.4**	**7.3**	**0.9**	**9.8**	**271.7**	**0.7**	**317.0**	**317.0**	**—**	**317.0**
1971	(s)	—	2.2	25.5	7.8	1.1	10.1	277.6	0.6	324.9	324.9	—	324.9
1972	(s)	—	1.0	32.5	7.4	1.0	11.5	299.9	0.8	354.1	354.1	—	354.1
1973	(s)	—	2.0	45.5	8.5	1.1	11.1	338.9	0.7	407.9	407.9	—	407.9
1974	(s)	—	2.8	70.3	15.8	2.2	14.4	418.7	1.8	526.1	526.1	—	526.1
1975	**(s)**	**—**	**2.5**	**67.2**	**19.3**	**2.1**	**13.6**	**472.2**	**1.5**	**578.3**	**578.3**	**—**	**578.3**
1976	(s)	—	2.5	84.4	21.1	2.7	14.2	527.0	0.4	652.3	652.3	—	652.3
1977	(s)	—	3.7	116.8	26.2	2.6	14.7	557.4	0.3	721.6	721.6	—	721.6
1978	—	—	4.5	136.9	31.9	3.1	17.2	587.5	(s)	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	**—**	**—**	**9.7**	**210.2**	**56.2**	**3.3**	**30.3**	**923.3**	**—**	**1,233.0**	**1,233.0**	**—**	**1,233.0**
1981	—	—	11.7	211.5	60.9	4.0	36.4	1,004.8	0.1	1,329.4	1,329.4	—	1,329.4
1982	—	—	6.8	234.3	57.2	3.4	31.8	952.2	—	1,285.6	1,285.6	—	1,285.6
1983	—	—	6.3	277.2	53.9	4.5	32.8	843.0	—	1,217.6	1,217.6	—	1,217.6
1984	—	—	5.5	283.3	49.3	1.5	36.3	843.6	—	1,219.6	1,219.6	—	1,219.6
1985	**—**	**—**	**4.9**	**268.1**	**45.9**	**[R] 1.5**	**33.8**	**822.4**	**—**	**[R] 1,176.6**	**[R] 1,176.6**	**—**	**[R] 1,176.6**
1986	—	—	5.0	281.8	32.8	[R] 1.2	29.3	628.5	(s)	[R] 978.5	[R] 978.5	—	[R] 978.5
1987	—	—	3.4	320.3	32.9	[R] 1.5	[R] 28.8	655.2	(s)	[R] 1,042.0	[R] 1,042.0	—	[R] 1,042.0
1988	—	—	3.6	342.3	34.2	[R] 1.5	29.9	660.8	—	1,072.3	1,072.3	—	1,072.3
1989	—	—	3.9	340.4	37.1	[R] 1.8	30.4	761.8	—	[R] 1,175.4	[R] 1,175.4	—	[R] 1,175.4
1990	**—**	**—**	**3.9**	**397.2**	**50.0**	**[R] 2.2**	**31.5**	**860.1**	**—**	**[R] 1,344.8**	**[R] 1,344.8**	**—**	**[R] 1,344.8**
1991	—	—	3.7	391.2	33.1	[R] 2.0	32.5	830.2	—	[R] 1,292.7	[R] 1,292.7	—	[R] 1,292.7
1992	—	(s)	3.5	417.1	30.7	[R] 1.4	[R] 36.1	814.0	—	[R] 1,302.7	[R] 1,302.7	—	[R] 1,302.7
1993	—	(s)	3.0	415.8	27.8	[R] 1.2	38.0	825.2	—	[R] 1,311.0	[R] 1,311.0	—	[R] 1,311.0
1994	—	(s)	3.0	441.7	28.1	[R] 2.4	[R] 40.1	833.3	—	1,348.6	[R] 1,348.6	—	[R] 1,348.6
1995	**—**	**(s)**	**3.2**	**469.8**	**22.7**	**0.8**	**40.0**	**890.5**	**—**	**1,427.0**	**1,427.0**	**—**	**1,427.0**

[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.
(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 178. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Nebraska

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.35**	**0.27**	**0.49**	**0.63**	**—**	**0.54**	**—**	**—**	**0.30**
1971	0.40	0.31	0.58	0.75	—	0.69	—	—	0.34
1972	0.43	0.38	0.74	0.98	—	0.88	—	—	0.41
1973	0.47	0.42	0.65	1.09	—	0.91	0.17	—	0.43
1974	0.60	0.49	1.66	1.47	—	1.60	0.16	—	0.43
1975	**0.87**	**0.63**	**1.73**	**1.85**	**—**	**1.77**	**0.17**	**—**	**0.50**
1976	0.93	0.81	1.75	2.26	—	1.86	0.20	—	0.62
1977	1.05	0.97	1.79	2.58	—	2.02	0.20	—	0.62
1978	1.11	1.11	1.68	2.75	—	1.95	0.20	—	0.65
1979	1.12	1.45	2.24	4.36	—	2.79	0.29	—	0.75
1980	**1.24**	**1.82**	**3.21**	**6.19**	**—**	**4.14**	**0.44**	**—**	**1.00**
1981	1.14	2.40	4.63	7.22	—	6.82	0.55	—	0.95
1982	1.17	3.02	4.06	6.66	—	6.65	0.68	—	0.96
1983	1.22	3.26	4.20	5.86	—	5.85	0.62	—	1.01
1984	1.28	3.40	—	6.04	—	6.04	0.57	—	1.06
1985	**1.11**	**3.58**	**—**	**5.89**	**—**	**5.89**	**0.65**	**—**	**1.01**
1986	1.04	3.21	2.32	3.87	—	3.05	0.64	—	0.89
1987	0.95	2.56	2.29	3.98	—	2.87	0.64	—	0.82
1988	0.84	2.69	2.34	3.47	—	2.83	0.63	—	0.79
1989	0.83	2.36	2.15	4.35	—	3.09	0.65	—	0.78
1990	**0.75**	**2.01**	**1.86**	**7.03**	**—**	**6.89**	**0.61**	**—**	**0.73**
1991	0.75	1.97	1.41	4.57	—	4.20	0.62	—	0.72
1992	0.75	2.38	—	4.65	—	4.65	0.57	0.99	0.69
1993	0.76	2.73	—	4.20	—	4.20	0.64	1.09	0.74
1994	0.77	2.05	1.67	4.02	—	3.98	0.73	0.86	0.77
1995	**0.75**	**1.66**	**—**	**4.15**	**—**	**4.15**	**0.68**	**0.77**	**0.74**
	Expenditures in Million Nominal Dollars								
1970	**8.5**	**12.8**	**0.6**	**0.5**	**—**	**1.0**	**—**	**—**	**22.3**
1971	8.8	15.2	0.3	0.6	—	0.9	—	—	24.9
1972	12.2	18.2	0.8	1.6	—	2.4	—	—	32.8
1973	14.2	22.1	0.6	1.5	—	2.1	1.1	—	39.5
1974	15.7	23.0	5.2	2.2	—	7.3	7.0	—	53.2
1975	**23.4**	**23.3**	**7.2**	**3.3**	**—**	**10.5**	**11.0**	**—**	**68.1**
1976	39.1	15.5	11.0	3.7	—	14.7	12.9	—	82.2
1977	51.0	14.6	6.9	4.2	—	11.0	16.0	—	92.6
1978	54.1	13.8	9.8	5.4	—	15.2	16.6	—	99.7
1979	74.1	19.3	7.7	5.2	—	12.9	27.5	—	133.8
1980	**109.8**	**20.5**	**3.6**	**3.1**	**—**	**6.7**	**27.7**	**—**	**164.7**
1981	104.4	10.3	0.4	3.3	—	3.7	36.3	—	154.8
1982	105.3	4.6	(s)	5.1	—	5.1	66.2	—	181.3
1983	121.0	4.9	(s)	2.7	—	2.7	41.1	—	169.7
1984	149.9	4.8	—	1.5	—	1.5	35.5	—	191.7
1985	**122.9**	**4.4**	**—**	**2.1**	**—**	**2.1**	**29.3**	**—**	**158.7**
1986	107.7	5.3	0.8	1.1	—	1.9	52.8	—	167.8
1987	104.5	4.4	0.8	0.8	—	1.6	59.0	—	169.4
1988	112.3	5.2	1.1	1.3	—	2.4	46.5	—	166.5
1989	104.7	5.9	0.8	1.2	—	2.1	56.3	—	168.9
1990	**103.4**	**7.2**	**(s)**	**1.3**	**—**	**1.3**	**49.3**	**—**	**161.1**
1991	108.5	6.8	(s)	0.7	—	0.8	53.4	—	169.5
1992	100.6	4.3	—	0.7	—	0.7	53.6	0.1	159.2
1993	120.2	5.0	—	1.0	—	1.0	46.5	0.1	172.8
1994	116.4	6.2	(s)	1.0	—	1.1	49.1	0.1	172.9
1995	**129.2**	**5.1**	**—**	**1.5**	**—**	**1.5**	**54.3**	**0.1**	**190.2**

[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 179. Energy Price and Expenditure Estimates by Source, 1970-1995, Nevada

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	**—**	**0.37**	**0.37**	**0.61**	**1.29**	**0.76**	**2.91**	**3.07**	**0.58**	**1.35**	**1.95**	**—**	**—**	**1.32**	**0.36**	**3.89**	**1.96**
1971	—	0.33	0.33	0.60	1.30	0.80	3.02	2.99	0.76	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	1.98	—	—	1.06	0.35	4.31	2.07
1973	—	0.29	0.29	0.71	1.61	0.94	3.38	3.34	1.13	1.44	2.18	—	—	1.16	0.36	4.50	2.26
1974	—	0.30	0.30	0.93	2.58	1.62	3.71	4.38	1.94	2.35	3.06	—	—	1.54	0.44	5.67	3.06
1975	**—**	**0.35**	**0.35**	**1.31**	**2.75**	**2.12**	**4.03**	**4.74**	**1.98**	**2.61**	**3.40**	**—**	**—**	**1.82**	**0.59**	**6.86**	**3.52**
1976	—	0.52	0.52	1.55	2.87	2.32	4.02	4.74	1.98	2.58	3.52	—	—	1.93	0.72	8.18	3.72
1977	—	0.58	0.58	2.00	3.05	2.71	5.24	5.12	2.14	2.64	3.80	—	—	2.20	0.90	9.24	4.28
1978	—	0.80	0.80	2.07	3.20	2.92	4.73	5.45	2.02	2.86	3.91	—	—	2.59	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	5.50	—	—	3.35	1.51	10.35	5.83
1980	**—**	**1.06**	**1.06**	**3.10**	**6.97**	**6.59**	**7.07**	**9.96**	**3.58**	**5.86**	**7.67**	**—**	**—**	**4.69**	**1.68**	**13.18**	**8.18**
1981	—	1.12	1.12	3.53	8.20	7.67	8.83	11.46	4.75	7.68	9.51	—	—	5.12	1.76	13.84	9.31
1982	—	1.21	1.21	4.63	8.06	7.38	8.77	11.09	4.22	6.39	9.17	—	—	4.87	1.49	15.88	9.54
1983	—	1.29	1.29	5.38	7.20	6.76	10.14	9.21	4.73	6.31	7.96	—	—	4.70	1.51	16.97	8.97
1984	—	1.34	1.34	5.50	6.87	6.45	10.48	8.78	4.49	6.63	7.66	—	—	4.45	1.52	15.89	8.72
1985	**—**	**1.62**	**1.62**	**5.44**	**6.73**	**6.22**	**[R] 11.65**	**8.77**	**4.45**	**6.65**	**[R] 7.64**	**—**	**—**	**4.83**	**1.79**	**16.75**	**8.94**
1986	—	1.40	1.40	4.60	5.25	4.25	[R] 11.03	6.75	2.04	6.53	5.78	—	—	3.56	1.47	17.16	7.78
1987	—	1.40	1.40	4.25	5.75	4.27	[R] 10.33	6.79	2.41	[R] 4.69	5.84	—	—	3.70	1.47	15.45	7.38
1988	—	1.37	1.37	4.49	5.66	4.08	[R] 10.26	7.32	2.39	4.68	[R] 6.00	—	—	3.68	1.47	15.93	7.71
1989	—	1.52	1.52	3.84	6.52	4.79	[R] 12.86	8.19	2.73	3.88	6.87	—	—	[R] 4.17	1.62	15.46	[R] 8.18
1990	**—**	**1.49**	**1.49**	**3.68**	**7.28**	**6.26**	**[R] 11.58**	**9.10**	**2.93**	**4.08**	**7.80**	**—**	**[d R] 4.51**	**[d] 4.53**	**1.59**	**15.77**	**[d] 8.93**
1991	—	1.41	1.41	3.72	7.18	5.00	[R] 12.36	8.83	3.69	4.69	[R] 7.43	—	4.52	4.26	1.48	16.47	8.74
1992	—	1.46	1.46	3.65	7.09	4.70	[R] 12.93	9.30	3.15	[R] 4.85	7.63	—	[R] 4.54	4.37	1.55	[R] 16.71	[R] 9.03
1993	—	1.47	1.47	4.05	7.41	4.69	[R] 12.13	9.21	3.38	4.41	[R] 7.58	—	[R] 4.54	4.49	1.60	[R] 17.27	8.84
1994	—	1.44	1.44	4.47	7.36	4.23	[R] 11.44	9.51	3.03	4.21	[R] 7.63	—	[R] 4.53	4.58	1.53	[R] 18.73	9.41
1995	**—**	**1.32**	**1.32**	**4.14**	**7.29**	**4.36**	**11.38**	**9.23**	**2.83**	**4.27**	**7.36**	**—**	**4.55**	**4.53**	**1.39**	**17.95**	**9.00**
	Expenditures in Million Nominal Dollars																
1970	**—**	**6.4**	**6.4**	**34.5**	**21.2**	**19.2**	**9.2**	**118.7**	**0.5**	**7.7**	**176.6**	**—**	**—**	**217.5**	**-15.1**	**75.7**	**278.1**
1971	—	12.0	12.0	43.3	23.9	21.3	9.5	121.2	1.1	8.6	185.7	—	—	241.1	-27.8	83.7	296.9
1972	—	25.8	25.8	48.3	22.4	23.3	8.1	139.0	1.4	10.3	204.5	—	—	278.7	-43.4	99.0	334.3
1973	—	25.7	25.7	55.4	30.6	29.3	8.8	157.9	3.0	11.6	241.2	—	—	322.3	-48.1	114.3	388.5
1974	—	30.0	30.0	62.6	38.0	50.4	9.5	205.9	9.9	20.2	333.8	—	—	426.4	-59.7	149.4	516.1
1975	**—**	**35.8**	**35.8**	**85.5**	**41.1**	**69.2**	**7.4**	**239.7**	**16.7**	**19.4**	**393.4**	**—**	**—**	**514.7**	**-79.8**	**179.0**	**613.9**
1976	—	57.4	57.4	110.5	46.1	79.7	6.6	248.9	9.0	16.3	406.6	—	—	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	16.6	482.5	—	—	698.0	-140.2	253.2	811.0
1978	—	72.7	72.7	137.2	73.3	112.3	6.6	334.7	36.2	19.9	582.9	—	—	792.8	-142.6	303.5	953.7
1979	—	106.1	106.1	216.6	85.1	168.5	17.1	439.1	24.2	25.9	760.0	—	—	1,082.7	-224.9	365.2	1,222.9
1980	**—**	**99.1**	**99.1**	**191.5**	**160.9**	**266.2**	**22.9**	**587.0**	**55.0**	**34.0**	**1,125.9**	**—**	**—**	**1,416.5**	**-226.1**	**468.2**	**1,658.6**
1981	—	125.5	125.5	271.5	166.5	301.0	24.3	695.8	8.3	40.7	1,236.5	—	—	1,633.6	-275.2	472.1	1,830.5
1982	—	176.8	176.8	225.0	165.3	276.4	28.3	658.9	6.2	36.5	1,171.5	—	—	1,573.3	-238.8	555.2	1,889.7
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	533.0	5.6	42.6	1,043.0	—	—	1,491.0	-248.0	580.8	1,823.8
1985	**—**	**204.2**	**204.2**	**222.8**	**211.7**	**197.0**	**[R] 41.3**	**535.6**	**4.4**	**46.9**	**[R] 1,036.9**	**—**	**—**	**[R] 1,463.8**	**-238.1**	**634.3**	**[R] 1,860.0**
1986	—	225.6	225.6	162.3	166.7	140.5	[R] 34.0	432.9	8.0	34.4	[R] 816.5	—	—	[R] 1,204.4	-249.1	655.8	[R] 1,611.1
1987	—	217.1	217.1	173.6	216.5	152.5	[R] 32.7	465.1	7.8	[R] 33.3	[R] 907.9	—	—	[R] 1,298.7	-239.1	638.7	[R] 1,698.4
1988	—	250.6	250.6	213.0	222.8	145.3	[R] 37.5	541.6	14.8	35.5	[R] 997.5	—	—	[R] 1,461.1	-290.8	717.3	[R] 1,887.6
1989	—	259.5	259.5	245.9	282.4	162.6	[R] 73.7	626.3	11.1	41.4	[R] 1,197.5	—	—	[R] 1,702.9	-315.8	773.1	[R] 2,160.2
1990	**—**	**247.5**	**247.5**	**243.0**	**311.8**	**212.9**	**[R] 60.0**	**710.2**	**8.4**	**34.8**	**[R] 1,338.1**	**—**	**[d R] 5.3**	**[d R] 1,833.8**	**-301.8**	**[R] 879.8**	**[d R] 2,411.8**
1991	—	254.1	254.1	245.1	296.2	182.5	[R] 46.5	712.1	10.2	39.4	[R] 1,286.9	—	5.6	[R] 1,791.6	-296.7	[R] 914.0	[R] 2,408.9
1992	—	261.9	261.9	252.7	302.8	161.8	[R] 42.2	783.8	11.4	[R] 33.3	[R] 1,335.3	—	[R] 5.9	1,855.8	-314.8	[R] 988.2	[R] 2,529.3
1993	—	253.1	253.1	345.6	327.7	171.1	[R] 36.5	785.0	9.8	39.2	[R] 1,369.4	—	[R] 6.1	[R] 1,974.1	-308.1	[R] 1,066.1	[R] 2,732.1
1994	—	258.6	258.6	[R] 458.2	323.6	163.3	[R] 48.7	860.8	6.3	40.4	[R] 1,443.2	—	[R] 6.0	[R] 2,166.0	-321.7	[R] 1,253.0	[R] 3,097.3
1995	**—**	**214.3**	**214.3**	**462.7**	**325.5**	**182.1**	**30.6**	**872.4**	**15.6**	**46.4**	**1,472.5**	**—**	**6.6**	**2,156.1**	**-275.3**	**1,236.0**	**3,116.8**

[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 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 180. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Nevada

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.31**	**1.39**	**1.27**	**—**	**3.52**	**2.51**	**—**	**1.76**	**4.46**	**2.70**
1971	0.85	1.40	1.34	—	3.64	2.40	—	1.75	4.49	2.72
1972	0.90	1.39	1.35	—	3.43	2.33	—	1.68	4.81	2.82
1973	0.79	1.44	1.57	—	4.09	2.67	—	1.83	4.86	3.04
1974	1.52	1.62	2.49	—	4.39	3.55	—	2.08	6.03	3.74
1975	**1.55**	**1.83**	**2.82**	**—**	**4.90**	**3.72**	**—**	**2.18**	**7.54**	**4.30**
1976	2.81	1.92	3.03	—	4.68	3.73	—	2.27	8.97	4.97
1977	3.33	2.68	3.14	—	5.91	4.22	—	3.00	10.11	5.85
1978	3.42	2.79	3.27	—	5.54	3.93	—	3.04	10.65	6.32
1979	4.87	2.93	4.48	—	7.18	5.95	—	3.46	11.25	6.99
1980	**5.13**	**3.87**	**6.92**	**—**	**9.28**	**8.31**	**—**	**4.58**	**14.21**	**8.74**
1981	5.43	4.49	7.90	14.85	10.19	9.77	—	5.30	14.47	9.12
1982	5.68	5.20	7.85	14.80	11.09	10.04	—	5.83	17.33	10.38
1983	4.62	6.39	7.97	13.82	12.23	10.76	—	7.34	18.42	12.26
1984	4.63	6.57	6.92	13.80	12.24	10.14	—	7.30	17.46	11.97
1985	**4.54**	**6.63**	**7.55**	**15.04**	**12.40**	**10.68**	**—**	**7.61**	**18.83**	**12.59**
1986	4.49	5.62	7.26	14.46	11.84	10.22	—	6.63	19.28	12.41
1987	4.11	5.29	5.79	11.54	11.19	8.59	—	6.00	17.05	11.09
1988	3.83	5.89	6.02	11.99	10.98	8.93	—	6.53	17.58	11.70
1989	4.14	5.38	8.26	16.46	14.68	12.70	—	6.94	16.78	11.32
1990	**5.03**	**5.49**	**6.76**	**13.48**	**13.10**	**11.10**	**[d] 4.75**	**[d] 6.52**	**[R] 16.71**	**[d R] 10.70**
1991	4.07	5.41	6.58	13.11	13.42	11.21	4.75	6.31	[R] 17.27	10.76
1992	4.14	5.40	7.74	15.41	14.23	11.98	4.75	6.37	[R] 18.14	[R] 11.42
1993	3.87	5.49	6.96	13.88	12.92	11.08	4.75	6.18	19.08	[R] 11.56
1994	4.49	6.43	6.98	13.91	[R] 12.03	[R] 10.68	4.75	[R] 6.87	[R] 20.97	[R] 13.01
1995	**3.95**	**6.53**	**6.96**	**13.86**	**11.79**	**10.43**	**4.75**	**6.84**	**20.84**	**12.90**
	Expenditures in Million Nominal Dollars									
1970	**0.7**	**10.9**	**2.4**	**—**	**8.3**	**10.7**	**—**	**22.4**	**30.3**	**52.6**
1971	0.2	12.1	3.7	—	8.6	12.2	—	24.6	34.5	59.1
1972	(s)	13.8	3.2	—	7.3	10.6	—	24.4	40.1	64.5
1973	(s)	13.9	3.9	—	7.9	11.8	—	25.7	45.4	71.1
1974	0.1	16.1	3.5	—	7.8	11.4	—	27.6	57.7	85.2
1975	**0.1**	**21.6**	**4.4**	**—**	**5.8**	**10.1**	**—**	**31.9**	**72.1**	**104.0**
1976	0.3	21.8	4.6	—	5.3	9.9	—	32.0	85.6	117.6
1977	1.4	31.1	5.6	—	6.8	12.3	—	44.8	100.8	145.6
1978	0.1	33.0	7.7	—	5.4	13.0	—	46.1	122.5	168.6
1979	0.2	37.4	5.5	—	10.6	16.1	—	53.7	144.6	198.3
1980	**0.2**	**53.6**	**7.5**	**—**	**14.6**	**22.1**	**—**	**75.9**	**179.2**	**255.1**
1981	0.3	63.5	6.9	3.0	15.0	24.9	—	88.7	172.9	261.6
1982	0.2	88.9	7.2	1.0	17.9	26.2	—	115.3	223.6	338.9
1983	0.1	77.9	10.1	3.4	23.4	36.8	—	114.9	230.1	345.0
1984	1.0	82.7	9.9	3.0	22.2	35.2	—	118.8	241.6	360.4
1985	**0.1**	**88.7**	**12.5**	**4.0**	**29.1**	**45.6**	**—**	**134.3**	**265.1**	**399.4**
1986	0.1	72.9	10.4	3.5	23.5	37.4	—	110.4	269.5	380.0
1987	0.1	75.1	11.0	1.3	21.4	33.7	—	108.9	263.9	372.8
1988	0.1	89.7	10.2	1.1	25.0	36.3	—	126.0	298.0	424.0
1989	0.1	93.0	12.1	1.3	46.1	59.6	—	152.7	296.0	448.7
1990	**0.2**	**97.1**	**9.4**	**0.6**	**38.8**	**48.9**	**[d] 5.1**	**[d] 151.2**	**[R] 315.9**	**[d] 467.2**
1991	0.1	107.3	8.5	0.8	35.6	44.8	5.4	157.7	[R] 340.7	[R] 498.3
1992	(s)	101.6	9.8	0.8	32.6	43.2	5.7	150.6	[R] 375.3	[R] 525.9
1993	0.1	117.7	7.3	0.8	29.0	37.1	5.9	160.8	[R] 408.8	[R] 569.6
1994	(s)	141.6	6.1	0.3	[R] 28.1	[R] 34.6	5.8	[R] 182.0	[R] 489.8	[R] 671.8
1995	**(s)**	**139.8**	**5.3**	**0.4**	**21.7**	**27.4**	**6.4**	**173.8**	**473.3**	**647.0**

[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.

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 181. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Nevada

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.52**	**0.70**	**1.12**	**0.77**	**1.16**	**3.07**	**0.62**	**1.34**	**0.77**	**4.74**	**2.15**
1971	0.49	0.71	1.18	0.80	1.22	2.99	0.76	1.35	0.81	4.88	2.19
1972	0.50	0.73	1.18	0.81	1.07	3.11	0.82	1.32	0.82	5.20	2.30
1973	0.48	0.82	1.41	1.07	1.35	3.34	1.15	1.62	0.93	5.34	2.51
1974	0.78	0.99	2.37	2.11	2.15	4.38	1.94	2.59	1.16	6.42	3.04
1975	**0.82**	**1.45**	**2.62**	**2.42**	**2.45**	**4.74**	**2.00**	**2.99**	**1.59**	**8.01**	**3.88**
1976	1.07	1.66	2.84	2.63	2.56	4.74	1.98	2.99	1.76	9.24	3.92
1977	1.15	2.12	2.94	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	2.86	5.45	2.01	3.30	2.47	11.37	5.25
1979	1.39	2.89	4.38	3.87	3.95	7.38	2.69	5.01	3.01	11.67	5.34
1980	**1.36**	**3.68**	**6.60**	**—**	**4.99**	**9.96**	**3.53**	**6.78**	**4.29**	**15.39**	**7.73**
1981	1.52	4.25	7.54	6.86	7.26	11.46	4.63	7.83	5.08	17.21	9.56
1982	2.09	5.18	7.49	7.21	6.44	11.09	4.16	8.19	5.51	18.53	10.54
1983	1.81	5.66	6.33	6.91	7.03	9.21	4.49	6.99	5.91	19.54	9.97
1984	1.78	5.80	6.06	6.82	6.94	8.78	4.55	6.82	5.94	17.56	10.47
1985	**1.58**	**5.77**	**5.99**	**6.70**	**[R] 10.19**	**8.77**	**4.80**	**[R] 6.93**	**[R] 5.98**	**18.24**	**[R] 11.15**
1986	1.72	4.63	3.55	4.16	[R] 9.58	6.75	2.30	[R] 4.46	[R] 4.58	18.66	[R] 10.57
1987	1.56	4.27	4.19	4.79	[R] 9.01	6.79	2.64	[R] 4.72	[R] 4.39	16.59	9.31
1988	1.53	4.64	3.86	4.41	[R] 9.07	7.32	2.32	[R] 4.85	[R] 4.67	16.94	[R] 9.92
1989	1.69	4.30	4.83	5.39	[R] 10.66	8.19	2.52	[R] 6.27	[R] 4.64	16.85	[R] 9.98
1990	**1.56**	**4.25**	**5.67**	**6.15**	**[R] 9.55**	**9.10**	**2.85**	**[R] 6.83**	**[R] 4.66**	**[R] 17.38**	**[R] 10.45**
1991	1.56	4.19	5.28	5.81	[R] 9.82	8.83	2.54	[R] 6.63	[R] 4.50	[R] 17.92	[R] 10.42
1992	1.53	4.19	5.03	5.87	[R] 9.86	9.30	2.44	[R] 6.42	[R] 4.48	[R] 17.89	[R] 10.73
1993	1.53	4.25	5.26	6.12	[R] 9.81	9.21	—	[R] 5.78	[R] 4.52	18.38	[R] 10.57
1994	1.55	5.17	4.83	[R] 5.70	[R] 10.75	9.51	—	[R] 5.60	[R] 5.24	[R] 19.66	[R] 11.67
1995	**1.50**	**5.22**	**5.13**	**5.86**	**10.89**	**9.23**	**—**	**5.67**	**5.29**	**19.06**	**11.43**
	Expenditures in Million Nominal Dollars										
1970	**0.5**	**7.3**	**1.0**	**(s)**	**0.5**	**0.8**	**0.1**	**2.5**	**10.3**	**33.4**	**43.7**
1971	0.2	8.5	1.6	(s)	0.5	0.9	0.2	3.2	12.0	36.9	48.9
1972	(s)	10.2	1.4	(s)	0.4	0.9	0.4	3.2	13.4	43.7	57.1
1973	(s)	11.5	1.7	(s)	0.5	1.0	0.4	3.7	15.2	48.7	63.9
1974	(s)	14.9	1.6	0.2	0.7	1.4	0.7	4.5	19.4	59.9	79.3
1975	**0.1**	**23.2**	**2.0**	**0.2**	**0.5**	**1.7**	**0.4**	**4.8**	**28.1**	**78.6**	**106.6**
1976	0.2	32.6	2.1	0.3	0.5	1.3	0.5	4.7	37.5	80.4	117.8
1977	0.9	38.3	2.6	0.4	0.7	1.4	0.3	5.4	44.6	89.4	134.0
1978	0.1	48.0	3.5	0.5	0.5	1.5	0.3	6.2	54.2	112.9	167.2
1979	0.1	55.0	2.6	0.1	1.0	2.2	(s)	6.0	61.0	86.9	148.0
1980	**0.1**	**39.6**	**13.6**	**—**	**1.4**	**3.2**	**0.2**	**18.3**	**57.9**	**93.2**	**151.1**
1981	0.1	38.0	14.6	0.7	1.9	4.1	0.7	22.0	60.1	119.5	179.6
1982	0.2	46.8	3.3	0.2	1.8	4.3	0.3	10.0	57.0	120.5	177.5
1983	0.1	70.9	12.8	0.1	2.4	6.2	0.3	21.9	92.9	130.2	223.1
1984	0.7	73.7	13.9	0.2	2.2	9.3	0.8	26.4	100.8	190.8	291.6
1985	**(s)**	**74.9**	**11.3**	**0.2**	**[R] 4.2**	**3.8**	**0.8**	**[R] 20.2**	**[R] 95.2**	**212.0**	**[R] 307.2**
1986	0.1	56.2	10.2	0.1	[R] 3.4	2.9	0.2	[R] 16.8	[R] 73.1	219.9	[R] 293.0
1987	(s)	59.0	17.4	0.1	[R] 3.0	3.0	0.2	[R] 23.8	[R] 82.8	211.6	[R] 294.4
1988	(s)	68.7	10.2	0.2	[R] 3.6	3.1	0.1	[R] 17.3	[R] 86.1	233.0	[R] 319.0
1989	0.1	67.1	10.6	0.1	[R] 5.9	3.5	(s)	[R] 20.2	[R] 87.4	247.0	[R] 334.3
1990	**0.1**	**66.0**	**11.5**	**0.1**	**[R] 5.0**	**4.0**	**(s)**	**[R] 20.7**	**[R] 86.7**	**[R] 269.8**	**[R] 356.6**
1991	(s)	73.6	9.0	0.1	[R] 4.6	3.6	(s)	[R] 17.4	[R] 91.0	[R] 285.6	[R] 376.6
1992	(s)	69.7	8.7	0.1	[R] 4.0	3.4	(s)	[R] 16.2	[R] 86.0	[R] 299.7	[R] 385.7
1993	(s)	77.2	18.6	0.1	[R] 3.9	0.6	—	[R] 23.2	[R] 100.5	[R] 315.9	[R] 416.4
1994	(s)	100.2	14.8	0.1	[R] 4.4	0.6	—	[R] 20.0	[R] 120.2	[R] 363.3	[R] 483.5
1995	**(s)**	**101.0**	**18.3**	**(s)**	**3.5**	**0.6**	**—**	**22.5**	**123.6**	**358.2**	**481.8**

[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.

—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 182. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Nevada

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.52**	**0.52**	**0.52**	**0.59**	**0.96**	**0.77**	**1.16**	**5.08**	**3.07**	**0.49**	**0.43**	**1.04**	**—**	**0.75**	**2.14**	**1.02**
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	1.05
1972	—	0.50	0.50	0.65	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	—	0.95	2.92	1.34
1974	—	0.78	0.78	0.83	1.72	1.96	2.11	2.15	7.22	4.38	1.72	1.15	2.00	—	1.39	4.27	2.05
1975	**—**	**0.82**	**0.82**	**1.06**	**1.83**	**2.25**	**2.42**	**2.45**	**7.48**	**4.74**	**1.83**	**—**	**2.25**	**—**	**1.61**	**4.23**	**2.18**
1976	—	1.07	1.07	1.34	1.64	2.46	2.63	2.56	7.05	4.74	1.74	—	2.30	—	1.68	6.12	2.71
1977	—	1.15	1.15	1.90	1.76	2.60	2.77	3.40	6.97	5.12	1.98	1.66	2.46	—	2.07	7.11	3.41
1978	—	1.21	1.21	1.77	1.92	2.72	2.95	2.86	7.60	5.45	1.96	1.19	2.58	—	2.13	7.63	3.54
1979	—	1.39	1.39	2.41	2.46	3.76	—	3.95	10.21	7.38	2.50	2.88	3.50	—	2.81	8.92	5.08
1980	**—**	**1.36**	**1.36**	**2.83**	**3.69**	**5.56**	**—**	**4.99**	**14.36**	**9.96**	**3.75**	**4.04**	**5.10**	**—**	**3.67**	**11.63**	**7.20**
1981	—	1.52	1.52	3.35	4.44	6.51	6.86	7.26	18.00	11.46	4.82	4.46	6.30	—	4.26	11.80	7.58
1982	—	2.09	2.09	4.12	4.21	6.73	—	6.44	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	3.67	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	4.55	3.62	5.88	—	5.18	12.52	7.39
1985	**—**	**1.58**	**1.58**	**4.05**	**4.78**	**6.24**	**6.70**	**[R] 10.19**	**17.61**	**8.77**	**4.80**	**3.39**	**[R] 6.06**	**—**	**[R] 5.12**	**12.91**	**[R] 7.66**
1986	—	1.72	1.72	3.76	4.34	3.88	4.16	[R] 9.58	15.59	6.75	2.30	—	[R] 4.43	—	[R] 4.00	13.36	[R] 7.55
1987	—	1.56	1.56	3.72	3.27	4.46	4.79	[R] 9.01	[R] 13.58	6.79	2.64	—	[R] 4.43	—	[R] 3.98	12.46	[R] 6.85
1988	—	1.53	1.53	3.84	3.28	4.11	4.41	[R] 9.07	[R] 14.62	7.32	2.32	—	[R] 4.21	—	[R] 3.89	13.01	[R] 6.75
1989	—	1.69	1.69	4.83	2.73	5.02	5.39	[R] 10.66	14.48	8.19	2.52	—	[R] 4.79	—	[R] 4.51	12.99	[R] 7.08
1990	**—**	**1.56**	**1.56**	**3.98**	**2.60**	**5.73**	**6.15**	**[R] 9.55**	**14.60**	**9.10**	**2.85**	**—**	**[R] 5.32**	**[d] 1.89**	**[d] [R] 4.69**	**13.76**	**[d] [R] 7.82**
1991	—	1.56	1.56	4.06	3.27	5.41	5.81	[R] 9.82	[R] 16.80	8.83	2.54	—	[R] 5.08	1.89	[R] 4.47	[R] 14.51	7.95
1992	—	1.53	1.53	3.93	2.91	5.47	5.87	[R] 9.86	[R] 18.32	9.30	2.44	—	[R] 5.15	1.89	4.47	14.43	8.11
1993	—	1.53	1.53	4.15	2.84	5.71	6.12	[R] 9.81	[R] 18.96	9.21	2.36	—	[R] 4.98	1.89	4.30	[R] 14.78	7.50
1994	—	1.55	1.55	5.47	2.76	5.31	5.70	[R] 10.79	[R] 19.11	9.51	2.51	—	[R] 4.96	1.89	[R] 4.93	[R] 15.96	[R] 8.24
1995	**—**	**1.50**	**1.50**	**5.16**	**3.11**	**5.46**	**5.86**	**10.23**	**19.40**	**9.23**	**2.82**	**—**	**4.54**	**1.89**	**4.55**	**14.79**	**7.52**
	Expenditures in Million Nominal Dollars																
1970	**—**	**0.9**	**0.9**	**5.8**	**2.4**	**4.7**	**(s)**	**0.4**	**0.7**	**2.7**	**0.1**	**(s)**	**11.0**	**—**	**17.7**	**12.0**	**29.7**
1971	—	1.4	1.4	5.7	3.4	6.7	(s)	0.4	0.7	2.3	0.2	—	13.7	—	20.9	12.2	33.1
1972	—	1.9	1.9	5.5	4.7	6.6	(s)	0.4	0.8	2.5	0.4	—	15.4	—	22.8	15.1	37.8
1973	—	1.6	1.6	8.2	5.5	7.7	(s)	0.4	0.8	1.9	0.4	—	16.7	—	26.5	20.2	46.7
1974	—	2.4	2.4	8.2	11.7	7.4	0.1	0.9	1.0	2.5	0.6	(s)	24.3	—	34.9	31.8	66.8
1975	**—**	**1.5**	**1.5**	**11.4**	**10.2**	**9.3**	**0.2**	**1.0**	**1.2**	**2.9**	**0.5**	**—**	**25.2**	**—**	**38.1**	**28.3**	**66.4**
1976	—	3.4	3.4	18.0	7.6	10.9	0.1	0.7	1.2	3.2	0.8	—	24.7	—	46.1	50.1	96.1
1977	—	3.4	3.4	18.9	8.0	14.1	0.4	0.6	1.1	3.2	0.7	(s)	28.0	—	50.3	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	(s)	33.4	—	55.4	68.1	123.6
1979	—	3.4	3.4	27.4	13.0	15.7	—	4.6	1.7	5.2	(s)	0.1	40.2	—	71.0	133.7	204.7
1980	**—**	**4.6**	**4.6**	**21.9**	**15.0**	**21.1**	**—**	**6.9**	**2.2**	**5.8**	**(s)**	**0.1**	**51.1**	**—**	**77.6**	**195.8**	**273.4**
1981	—	6.8	6.8	20.8	14.7	22.0	0.7	7.1	2.6	6.8	1.0	(s)	54.9	—	82.4	179.7	262.1
1982	—	10.1	10.1	23.6	18.5	21.0	—	8.0	2.3	8.2	0.5	(s)	58.6	—	92.4	211.0	303.4
1983	—	7.1	7.1	37.4	20.9	57.6	0.4	6.0	2.4	3.5	1.4	0.1	92.3	—	136.9	227.0	363.9
1984	—	4.5	4.5	39.3	22.6	62.7	0.4	3.0	2.6	3.0	4.3	0.1	98.6	—	142.5	148.5	291.0
1985	**—**	**4.1**	**4.1**	**24.2**	**26.8**	**55.7**	**(s)**	**[R] 6.9**	**2.4**	**6.0**	**2.5**	**0.1**	**[R] 100.4**	**—**	**[R] 128.7**	**157.2**	**[R] 285.9**
1986	—	4.3	4.3	12.1	16.3	33.6	0.1	[R] 6.4	2.1	4.9	1.6	—	[R] 64.9	—	[R] 81.3	166.3	[R] 247.6
1987	—	4.1	4.1	20.7	18.7	41.5	0.3	[R] 7.7	[R] 2.1	5.5	1.3	—	[R] 77.1	—	[R] 101.8	163.2	[R] 265.0
1988	—	4.3	4.3	24.8	20.3	55.2	0.1	[R] 8.1	2.2	5.6	1.5	—	[R] 93.0	—	[R] 122.1	186.4	[R] 308.4
1989	—	6.4	6.4	35.3	25.3	86.4	0.2	[R] 21.0	2.2	6.4	0.7	—	[R] 142.1	—	[R] 183.8	230.1	[R] 413.9
1990	**—**	**6.1**	**6.1**	**30.8**	**18.7**	**108.8**	**0.2**	**[R] 15.4**	**2.3**	**8.1**	**0.1**	**—**	**[R] 153.7**	**[d] [R] 0.2**	**[d] [R] 190.8**	**294.0**	**[d] [R] 484.8**
1991	—	7.1	7.1	25.5	23.3	93.5	0.3	[R] 5.6	2.3	8.3	0.9	—	[R] 134.2	0.2	[R] 167.0	[R] 287.7	[R] 454.7
1992	—	6.1	6.1	34.7	16.2	94.7	0.3	[R] 4.7	[R] 2.6	8.4	0.8	—	[R] 127.9	[R] 0.2	[R] 168.8	[R] 313.3	[R] 482.1
1993	—	7.0	7.0	98.5	21.6	85.0	(s)	[R] 2.7	2.7	6.8	1.0	—	[R] 119.9	[R] 0.2	[R] 225.5	341.3	[R] 566.8
1994	—	7.0	7.0	[R] 152.2	23.1	77.4	(s)	[R] 14.6	2.9	9.5	1.5	—	[R] 129.0	[R] 0.2	[R] 288.5	[R] 399.8	[R] 688.3
1995	**—**	**8.7**	**8.7**	**153.0**	**30.7**	**79.8**	**0.1**	**4.6**	**2.9**	**9.8**	**15.1**	**—**	**142.8**	**0.2**	**304.7**	**404.5**	**709.2**

[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 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.
(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 183. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Nevada

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.52**	**—**	**2.17**	**1.50**	**0.76**	**1.16**	**5.08**	**3.07**	**0.60**	**2.08**	**2.08**	**—**	**2.08**
1971	0.49	—	2.21	1.59	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	—	2.36	1.82	0.94	1.35	5.33	3.34	1.11	2.34	2.34	—	2.34
1974	0.78	—	3.23	2.88	1.62	2.15	7.22	4.38	1.87	3.26	3.26	—	3.26
1975	**0.82**	**—**	**3.45**	**3.01**	**2.12**	**2.45**	**7.48**	**4.74**	**2.36**	**3.66**	**3.66**	**—**	**3.66**
1976	1.07	—	3.59	3.06	2.32	2.56	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	2.92	2.86	7.60	5.45	2.45	4.36	4.36	—	4.36
1979	—	—	5.73	4.98	4.08	3.95	10.21	7.38	—	5.92	5.92	—	5.92
1980	**—**	**—**	**9.02**	**7.36**	**6.59**	**4.99**	**14.36**	**9.96**	**—**	**8.44**	**8.44**	**—**	**8.44**
1981	—	—	10.84	8.73	7.67	7.26	18.00	11.46	—	9.85	9.85	—	9.85
1982	—	—	10.92	8.36	7.38	6.44	17.25	11.09	—	9.49	9.49	—	9.49
1983	—	—	10.44	7.58	6.76	7.03	16.98	9.21	4.27	8.19	8.19	—	8.19
1984	—	—	10.27	7.25	6.45	6.94	17.63	8.78	3.80	7.89	7.89	—	7.89
1985	**—**	**—**	**9.99**	**6.97**	**6.22**	**[R] 10.19**	**17.61**	**8.77**	**—**	**7.79**	**7.79**	**—**	**7.79**
1986	—	—	8.41	6.01	4.25	[R] 9.58	15.59	6.75	1.86	5.96	5.96	—	5.96
1987	—	—	7.55	6.59	4.27	[R] 9.01	[R] 13.58	6.79	—	6.07	6.07	—	6.07
1988	—	—	7.41	6.87	4.08	[R] 9.07	[R] 14.62	7.32	—	6.40	6.40	—	6.40
1989	—	—	8.28	7.76	4.79	[R] 10.66	14.48	8.19	—	7.27	7.27	—	7.27
1990	**—**	**—**	**9.32**	**8.97**	**6.26**	**[R] 9.55**	**14.60**	**9.10**	**—**	**8.37**	**8.37**	**—**	**8.37**
1991	—	3.59	8.71	8.89	5.00	[R] 9.82	[R] 16.80	8.83	—	7.85	7.85	—	7.85
1992	—	3.34	8.54	8.53	4.70	[R] 9.86	[R] 18.32	9.30	—	[R] 8.08	[R] 8.08	—	[R] 8.08
1993	—	3.22	8.24	8.80	4.69	[R] 9.81	[R] 18.96	9.21	—	8.04	8.04	—	8.04
1994	—	3.68	7.96	8.90	4.23	[R] 9.88	[R] 19.11	9.51	—	[R] 8.12	8.11	—	8.11
1995	**—**	**3.60**	**8.36**	**8.67**	**4.36**	**10.12**	**19.40**	**9.23**	**—**	**7.91**	**7.91**	**—**	**7.91**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**2.0**	**13.0**	**19.2**	**(s)**	**2.6**	**115.3**	**(s)**	**152.1**	**152.1**	**—**	**152.1**
1971	(s)	—	1.9	11.9	21.3	(s)	2.6	118.0	—	155.9	155.9	—	155.9
1972	(s)	—	1.8	11.1	23.3	(s)	3.0	135.6	(s)	174.8	174.8	—	174.8
1973	(s)	—	2.0	17.1	29.3	(s)	3.3	155.0	(s)	206.7	206.8	—	206.8
1974	(s)	—	2.9	25.0	50.4	0.1	4.3	202.0	(s)	284.7	284.7	—	284.7
1975	**(s)**	**—**	**3.4**	**24.7**	**69.2**	**0.1**	**4.2**	**235.2**	**0.1**	**336.9**	**336.9**	**—**	**336.9**
1976	(s)	—	2.6	27.8	79.7	0.1	4.4	244.4	0.1	359.0	359.0	—	359.0
1977	(s)	—	3.3	32.4	98.4	0.1	3.5	280.5	0.1	418.3	418.3	—	418.3
1978	—	—	4.0	43.8	112.3	0.1	4.1	330.0	(s)	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**	**118.0**	**266.2**	**0.1**	**7.3**	**578.0**	**—**	**978.9**	**978.9**	**—**	**978.9**
1981	—	—	10.2	122.0	301.0	0.3	8.7	685.0	—	1,127.1	1,127.1	—	1,127.1
1982	—	—	6.7	132.2	276.4	0.5	7.6	646.4	—	1,069.8	1,069.8	—	1,069.8
1983	—	—	5.8	139.2	254.4	0.6	7.9	536.2	0.1	944.1	944.1	—	944.1
1984	—	—	5.1	133.2	212.0	1.1	8.7	520.7	(s)	880.8	880.8	—	880.8
1985	**—**	**—**	**5.3**	**130.3**	**197.0**	**1.1**	**8.1**	**525.7**	**—**	**867.5**	**867.5**	**—**	**867.5**
1986	—	—	5.2	111.9	140.5	[R] 0.8	7.0	425.0	(s)	690.5	690.5	—	690.5
1987	—	—	3.8	145.7	152.5	[R] 0.6	[R] 6.9	456.6	—	[R] 766.2	[R] 766.2	—	[R] 766.2
1988	—	—	4.5	145.5	145.3	0.7	7.2	532.9	—	[R] 836.2	[R] 836.2	—	[R] 836.2
1989	—	—	4.9	171.2	162.6	[R] 0.8	7.3	616.5	—	963.2	963.2	—	963.2
1990	**—**	**—**	**5.2**	**178.7**	**212.9**	**[R] 0.8**	**7.6**	**698.1**	**—**	**[R] 1,103.3**	**[R] 1,103.3**	**—**	**[R] 1,103.3**
1991	—	(s)	4.9	183.1	182.5	0.7	7.8	700.2	—	[R] 1,079.3	1,079.3	—	1,079.3
1992	—	(s)	4.5	187.7	161.8	[R] 0.9	[R] 8.6	772.0	—	[R] 1,135.6	[R] 1,135.6	—	[R] 1,135.6
1993	—	0.1	4.7	215.6	171.1	0.9	9.1	777.6	—	1,179.1	[R] 1,179.2	—	[R] 1,179.2
1994	—	0.1	4.3	224.0	163.3	[R] 1.5	9.6	850.6	—	[R] 1,253.5	1,253.6	—	1,253.6
1995	**—**	**0.4**	**2.7**	**221.4**	**182.1**	**0.7**	**9.6**	**862.0**	**—**	**1,278.4**	**1,278.8**	**—**	**1,278.8**

[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 184. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Nevada

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.31**	**0.38**	**0.61**	**0.70**	**—**	**0.62**	**—**	**—**	**0.36**
1971	0.31	0.42	0.74	0.88	—	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	—	1.96	—	—	0.44
1975	**0.34**	**1.09**	**1.98**	**2.47**	**—**	**2.00**	**—**	**—**	**0.59**
1976	0.50	1.42	2.01	2.28	—	2.03	—	—	0.72
1977	0.55	1.74	2.15	2.52	—	2.15	—	—	0.90
1978	0.79	1.56	2.02	2.57	—	2.02	—	—	1.09
1979	1.06	2.28	2.67	4.90	—	2.74	—	—	1.51
1980	**1.05**	**2.59**	**3.58**	**5.58**	**—**	**3.60**	**—**	**—**	**1.68**
1981	1.10	3.14	4.76	6.77	—	4.94	—	—	1.76
1982	1.18	3.92	4.17	7.28	—	4.62	—	—	1.49
1983	1.27	4.54	4.59	6.20	—	5.62	—	—	1.51
1984	1.33	4.33	4.03	6.14	—	5.38	—	—	1.52
1985	**1.62**	**4.07**	**3.71**	**6.12**	**—**	**4.91**	**—**	**—**	**1.79**
1986	1.39	3.04	1.97	3.94	—	2.06	—	—	1.47
1987	1.40	2.58	2.36	4.41	—	2.51	—	—	1.47
1988	1.36	2.72	2.40	4.05	—	2.51	—	—	1.47
1989	1.52	2.11	2.74	5.19	—	2.97	—	—	1.62
1990	**1.49**	**1.96**	**2.93**	**6.47**	**—**	**3.50**	**—**	**—**	**1.59**
1991	1.41	1.73	3.86	5.20	—	4.05	—	—	1.48
1992	1.46	1.87	3.23	4.90	—	3.41	—	—	1.55
1993	1.47	2.38	3.55	5.08	—	3.68	—	—	1.60
1994	1.43	1.92	3.22	4.37	—	3.40	—	—	1.53
1995	**1.31**	**1.66**	**2.99**	**4.93**	**—**	**3.94**	**—**	**—**	**1.39**
	Expenditures in Million Nominal Dollars								
1970	**4.3**	**10.5**	**0.3**	**0.1**	**—**	**0.4**	**—**	**—**	**15.1**
1971	10.2	17.0	0.6	(s)	—	0.7	—	—	27.8
1972	23.9	18.9	0.6	0.1	—	0.7	—	—	43.4
1973	24.1	21.8	2.1	0.2	—	2.3	—	—	48.1
1974	27.4	23.4	8.5	0.4	—	8.9	—	—	59.7
1975	**34.1**	**29.3**	**15.7**	**0.8**	**—**	**16.5**	**—**	**—**	**79.8**
1976	53.5	38.0	7.7	0.7	—	8.4	—	—	99.9
1977	61.1	60.6	18.3	0.2	—	18.5	—	—	140.2
1978	70.1	36.6	35.5	0.4	—	35.9	—	—	142.6
1979	102.5	96.8	24.2	1.4	—	25.6	—	—	224.9
1980	**94.2**	**76.4**	**54.8**	**0.7**	**—**	**55.5**	**—**	**—**	**226.1**
1981	118.2	149.4	6.6	0.9	—	7.6	—	—	275.2
1982	166.3	65.6	5.3	1.6	—	6.9	—	—	238.8
1983	173.1	46.2	0.7	1.6	—	2.3	—	—	221.6
1984	202.9	43.1	0.5	1.5	—	2.0	—	—	248.0
1985	**199.9**	**35.0**	**1.2**	**1.9**	**—**	**3.1**	**—**	**—**	**238.1**
1986	221.2	21.1	6.2	0.6	—	6.8	—	—	249.1
1987	213.0	18.9	6.3	0.9	—	7.2	—	—	239.1
1988	246.2	29.8	13.2	1.6	—	14.8	—	—	290.8
1989	253.0	50.4	10.4	2.0	—	12.4	—	—	315.8
1990	**241.1**	**49.1**	**8.2**	**3.4**	**—**	**11.6**	**—**	**—**	**301.8**
1991	246.8	38.6	9.2	2.0	—	11.3	—	—	296.7
1992	255.7	46.6	10.5	1.9	—	12.4	—	—	314.8
1993	246.0	52.1	8.8	1.2	—	10.0	—	—	308.1
1994	251.5	64.1	4.9	1.2	—	6.1	—	—	321.7
1995	**205.6**	**68.5**	**0.5**	**0.8**	**—**	**1.3**	**—**	**—**	**275.3**

[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 185. Energy Price and Expenditure Estimates by Source, 1970-1995, New Hampshire

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	**—**	**0.37**	**0.37**	**1.65**	**1.38**	**0.75**	**2.06**	**2.92**	**0.42**	**1.41**	**1.60**	**—**	**—**	**1.41**	**0.36**	**6.74**	**2.20**
1971	—	0.45	0.45	1.67	1.46	0.79	2.06	3.06	0.50	1.53	1.69	—	—	1.51	0.40	6.70	2.29
1972	—	0.49	0.49	1.79	1.47	0.81	2.09	3.01	0.49	1.53	1.70	—	—	1.51	0.46	6.91	2.32
1973	—	0.51	0.51	1.81	1.69	0.95	2.87	3.20	0.64	1.55	1.95	—	—	1.72	0.54	7.38	2.60
1974	—	0.82	0.82	1.97	2.65	1.62	3.50	4.37	1.80	2.61	3.08	—	—	2.69	1.17	10.39	3.90
1975	**—**	**1.22**	**1.22**	**2.24**	**2.80**	**2.10**	**3.53**	**4.54**	**1.85**	**2.99**	**3.24**	**—**	**—**	**2.88**	**1.43**	**12.68**	**4.38**
1976	—	1.26	1.26	2.58	2.98	2.29	4.03	4.76	1.76	3.07	3.30	—	—	3.05	1.49	12.77	4.46
1977	—	1.33	1.33	3.35	3.36	2.64	4.41	5.04	2.10	3.36	3.67	—	—	3.34	1.61	13.44	4.89
1978	—	1.48	1.48	3.32	3.56	2.97	5.11	5.23	1.98	3.64	3.85	—	—	3.57	1.71	15.18	5.43
1979	—	1.53	1.53	3.63	5.03	3.98	5.45	7.25	2.70	4.68	5.21	—	—	4.52	2.09	16.17	7.19
1980	**—**	**1.60**	**1.60**	**4.27**	**6.97**	**6.51**	**6.89**	**10.11**	**3.82**	**7.45**	**7.29**	**—**	**—**	**6.16**	**2.68**	**19.55**	**9.59**
1981	—	1.73	1.73	5.17	8.57	7.80	8.25	11.22	4.69	9.09	8.63	—	—	7.34	3.23	25.11	11.76
1982	—	1.91	1.91	6.25	8.19	7.51	8.66	10.52	4.20	8.27	8.33	—	—	7.03	2.76	23.90	11.06
1983	—	1.95	1.95	6.85	7.66	7.95	9.41	9.53	4.27	7.78	7.84	—	—	6.64	2.79	24.78	10.97
1984	—	2.03	2.03	6.38	7.87	6.21	9.70	9.04	4.39	6.46	7.41	—	—	6.30	2.92	24.75	10.54
1985	**—**	**2.03**	**2.03**	**6.44**	**7.49**	**6.53**	**11.42**	**9.26**	**3.81**	**7.54**	**7.78**	**—**	**—**	**6.41**	**2.46**	**23.28**	**10.67**
1986	—	2.01	2.01	6.53	5.51	4.93	10.87	7.32	2.02	6.61	5.44	—	—	5.04	1.95	22.14	8.89
1987	—	1.93	1.93	5.75	5.56	4.18	10.68	7.60	2.67	[R] 5.51	5.93	—	—	5.30	2.20	23.25	9.09
1988	—	1.79	1.79	5.50	5.68	4.22	10.55	7.82	1.94	6.07	5.82	—	—	5.17	1.83	24.24	9.64
1989	—	1.75	1.75	6.06	6.33	4.83	10.32	8.60	2.33	6.01	6.44	—	—	5.73	2.01	24.49	10.18
1990	**—**	**1.82**	**1.82**	**6.38**	**7.36**	**6.40**	**11.55**	**9.66**	**2.43**	**5.21**	**7.26**	**1.03**	**[d R] 1.46**	**[d R] 5.19**	**1.58**	**[R] 26.64**	**[d R] 10.64**
1991	—	1.81	1.81	6.12	6.70	5.36	12.82	9.55	1.90	5.37	7.29	0.84	[R] 1.55	[R] 4.57	1.22	26.76	[R] 10.42
1992	—	1.73	1.73	[R] 6.11	6.31	4.86	11.54	9.50	1.93	[R] 4.94	[R] 7.14	0.95	1.53	[R] 4.39	1.24	[R] 29.22	[R] 10.57
1993	—	1.66	1.66	6.56	6.15	4.58	11.37	9.16	1.91	6.52	7.02	0.57	1.51	4.09	0.95	[R] 31.80	10.71
1994	—	1.53	1.53	6.37	6.03	4.29	[R] 11.47	9.29	2.14	[R] 6.38	[R] 7.10	0.52	1.51	[R] 4.56	1.02	[R] 33.18	[R] 11.10
1995	**—**	**1.60**	**1.60**	**5.49**	**5.98**	**4.12**	**11.48**	**9.93**	**2.42**	**6.51**	**7.64**	**0.54**	**1.54**	**4.47**	**0.98**	**34.36**	**11.32**
	Expenditures in Million Nominal Dollars																
1970	**—**	**10.1**	**10.1**	**11.2**	**61.9**	**4.2**	**6.5**	**124.4**	**14.7**	**13.4**	**225.2**	**—**	**—**	**246.4**	**-15.6**	**83.5**	**314.3**
1971	—	11.4	11.4	12.8	68.7	4.6	7.1	138.0	19.0	14.4	251.8	—	—	276.0	-17.2	91.4	350.2
1972	—	14.9	14.9	14.3	71.7	4.6	9.0	142.6	18.2	14.8	260.8	—	—	290.1	-21.0	104.8	373.8
1973	—	14.4	14.4	14.7	82.9	4.9	12.4	156.8	21.6	14.5	293.2	—	—	322.4	-22.4	121.3	421.3
1974	—	20.8	20.8	16.5	119.3	8.4	15.1	211.6	48.5	19.9	422.9	—	—	460.3	-43.8	168.2	584.6
1975	**—**	**31.9**	**31.9**	**17.2**	**116.9**	**10.3**	**18.7**	**223.4**	**53.2**	**19.4**	**441.9**	**—**	**—**	**491.0**	**-58.2**	**207.7**	**640.5**
1976	—	25.6	25.6	20.4	153.0	10.8	23.3	247.9	65.2	24.6	524.9	—	—	570.8	-59.1	226.6	738.3
1977	—	35.1	35.1	25.4	162.7	13.0	30.4	273.1	75.5	24.6	579.3	—	—	639.9	-70.1	245.1	814.9
1978	—	30.3	30.3	27.2	174.9	13.5	33.6	289.6	68.9	27.1	607.4	—	—	664.8	-72.5	295.2	887.5
1979	—	44.4	44.4	31.5	171.6	16.6	27.2	372.8	97.6	29.7	715.5	—	—	791.4	-117.3	324.9	999.0
1980	**—**	**46.9**	**46.9**	**41.0**	**236.1**	**27.3**	**31.3**	**498.1**	**135.5**	**42.9**	**971.1**	**—**	**—**	**1,059.1**	**-150.9**	**394.5**	**1,302.6**
1981	—	41.9	41.9	53.6	264.6	24.5	36.5	545.3	145.0	47.2	1,063.2	—	—	1,158.7	-159.1	521.3	1,520.8
1982	—	52.7	52.7	63.7	242.0	25.7	41.3	505.6	101.4	43.0	958.9	—	—	1,075.3	-116.8	491.6	1,450.0
1983	—	57.4	57.4	67.4	201.6	24.5	45.1	470.6	103.2	40.8	886.0	—	—	1,010.8	-124.2	530.1	1,416.6
1984	—	69.2	69.2	68.9	219.8	27.8	42.1	476.7	138.0	56.2	960.6	—	—	1,098.7	-157.5	573.0	1,514.2
1985	**—**	**80.5**	**80.5**	**69.7**	**228.9**	**18.4**	**65.3**	**502.8**	**82.4**	**91.4**	**989.1**	**—**	**—**	**1,139.3**	**-131.5**	**588.4**	**1,596.2**
1986	—	50.4	50.4	68.8	185.4	16.5	66.5	427.7	90.1	47.2	833.4	—	—	952.6	-104.3	594.8	1,443.1
1987	—	60.9	60.9	70.7	244.1	14.6	80.3	471.6	92.4	[R] 50.4	[R] 953.4	—	—	[R] 1,085.0	-118.2	664.3	[R] 1,631.2
1988	—	58.7	58.7	73.2	225.2	16.6	80.3	506.7	77.6	42.7	949.1	—	—	1,081.0	-115.5	731.9	1,697.5
1989	—	55.3	55.3	86.0	278.8	20.0	93.8	554.9	90.5	56.2	1,094.2	—	—	1,235.5	-127.3	759.1	1,867.3
1990	**—**	**57.2**	**57.2**	**92.2**	**271.2**	**22.7**	**88.9**	**594.2**	**80.3**	**56.4**	**1,113.7**	**45.0**	**[d R] 18.1**	**[d R] 1,326.3**	**-156.9**	**[R] 816.3**	**[d R] 1,985.7**
1991	—	62.7	62.7	86.9	248.0	13.9	76.5	608.8	48.0	39.4	1,034.6	61.4	[R] 20.4	[R] 1,266.0	-149.3	[R] 800.1	[R] 1,916.8
1992	—	60.1	60.1	[R] 103.4	243.0	10.2	73.7	604.4	45.8	[R] 39.6	[R] 1,016.7	80.0	21.4	[R] 1,281.6	[R] -164.3	[R] 892.9	[R] 2,010.2
1993	—	62.1	62.1	109.8	240.8	9.9	88.7	601.3	49.2	36.7	1,026.5	55.5	22.3	1,276.2	-139.4	[R] 950.7	[R] 2,087.4
1994	—	51.4	51.4	120.9	240.7	8.2	[R] 92.6	625.5	56.4	36.3	[R] 1,059.7	34.2	[R] 21.6	[R] 1,287.7	-118.2	[R] 1,014.0	[R] 2,183.4
1995	**—**	**56.7**	**56.7**	**110.2**	**258.1**	**7.8**	**95.1**	**704.0**	**50.5**	**37.8**	**1,153.3**	**48.2**	**24.9**	**1,393.4**	**-135.3**	**1,055.9**	**2,314.0**

[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 186. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, New Hampshire

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.29**	**1.97**	**1.51**	**1.58**	**2.58**	**1.56**	**—**	**1.59**	**8.29**	**2.27**
1971	1.57	2.03	1.58	1.66	2.57	1.63	—	1.67	8.09	2.36
1972	1.59	2.12	1.59	1.69	2.66	1.65	—	1.69	8.24	2.46
1973	1.83	2.16	1.79	1.94	4.28	1.92	—	1.94	8.74	2.82
1974	2.19	2.36	2.72	3.01	4.72	2.84	—	2.80	11.74	4.04
1975	**2.62**	**2.62**	**2.87**	**3.16**	**4.70**	**3.01**	**—**	**2.98**	**14.25**	**4.65**
1976	2.64	2.65	3.06	3.35	4.44	3.15	—	3.11	14.39	4.64
1977	3.12	3.62	3.42	3.75	5.66	3.58	—	3.58	15.08	5.24
1978	3.68	3.55	3.63	4.01	5.57	3.78	—	3.77	17.06	5.71
1979	3.64	3.94	5.23	5.33	7.86	5.42	—	5.24	17.97	7.87
1980	**3.90**	**4.57**	**7.24**	**8.15**	**9.22**	**7.48**	**—**	**7.03**	**20.93**	**10.17**
1981	4.87	5.55	8.92	10.54	9.98	9.10	—	8.51	26.80	12.73
1982	4.43	6.72	8.46	10.79	10.66	8.82	—	8.43	26.24	12.65
1983	4.06	7.32	7.51	9.36	11.11	8.04	—	7.89	27.60	12.78
1984	4.76	6.83	7.82	9.33	11.52	8.34	—	8.05	27.34	13.09
1985	**4.39**	**6.96**	**7.38**	**8.81**	**11.14**	**8.07**	**—**	**7.89**	**26.15**	**12.17**
1986	4.93	6.88	5.47	6.53	10.35	6.30	—	6.40	25.02	11.22
1987	4.04	6.32	5.52	6.58	10.37	6.33	—	6.32	26.68	11.16
1988	4.08	6.13	5.64	6.73	10.37	6.54	—	6.46	27.75	11.81
1989	4.09	6.72	6.44	7.68	10.37	7.23	—	7.14	27.97	11.95
1990	**4.23**	**7.31**	**7.41**	**8.84**	**11.90**	**8.38**	**[d] 2.83**	**[d] 7.82**	**30.30**	**[d] 13.08**
1991	4.15	7.09	6.60	7.88	13.12	7.76	2.83	7.29	[R] 30.42	[R] 12.56
1992	3.96	7.20	6.17	7.36	12.13	7.24	2.83	6.92	[R] 33.29	[R] 12.86
1993	3.94	7.58	5.97	7.12	12.00	7.14	2.83	6.92	[R] 36.07	13.21
1994	3.81	7.86	5.71	6.81	[R] 12.62	[R] 7.08	2.83	[R] 6.93	[R] 37.82	[R] 13.66
1995	**3.94**	**7.09**	**5.62**	**6.70**	**12.58**	**6.95**	**2.83**	**6.69**	**39.57**	**13.24**
	Expenditures in Million Nominal Dollars									
1970	**0.1**	**7.3**	**53.0**	**6.3**	**4.6**	**63.9**	**—**	**71.3**	**41.8**	**113.1**
1971	0.2	8.0	58.8	6.5	5.0	70.3	—	78.5	46.0	124.5
1972	0.1	9.0	61.4	6.0	6.1	73.5	—	82.7	53.7	136.3
1973	0.1	9.2	69.1	5.0	9.5	83.6	—	92.9	61.6	154.5
1974	0.1	10.3	96.6	7.5	9.9	114.0	—	124.4	84.9	209.3
1975	**0.1**	**9.9**	**95.5**	**7.3**	**12.1**	**114.8**	**—**	**124.9**	**104.5**	**229.3**
1976	0.1	11.0	125.6	8.9	12.1	146.6	—	157.7	114.0	271.7
1977	0.2	14.0	132.0	8.4	15.7	156.0	—	170.1	120.7	290.8
1978	0.2	14.1	141.3	8.3	17.8	167.3	—	181.6	140.9	322.5
1979	0.1	15.4	131.3	6.5	16.2	154.1	—	169.5	151.1	320.6
1980	**0.2**	**20.2**	**148.4**	**14.9**	**19.9**	**183.2**	**—**	**203.6**	**177.0**	**380.5**
1981	0.5	25.3	180.6	12.3	21.3	214.2	—	240.1	226.9	467.0
1982	0.7	31.0	158.9	14.3	23.0	196.2	—	227.9	220.3	448.3
1983	0.8	32.2	132.2	11.5	28.5	172.2	—	205.2	236.7	441.9
1984	0.9	32.4	141.2	8.5	30.9	180.6	—	213.8	257.2	471.0
1985	**0.5**	**33.6**	**139.4**	**42.7**	**34.3**	**216.4**	**—**	**250.5**	**254.4**	**504.9**
1986	0.9	36.1	103.3	13.1	38.9	155.3	—	192.2	262.5	454.7
1987	0.6	36.4	126.7	15.0	46.5	188.2	—	225.3	296.9	522.2
1988	0.7	37.2	121.3	16.7	51.3	189.3	—	227.2	328.0	555.1
1989	0.5	43.1	161.6	20.4	61.6	243.6	—	287.2	338.0	625.3
1990	**0.7**	**43.7**	**146.6**	**11.7**	**62.5**	**220.8**	**[d] 6.3**	**[d] 271.6**	**[R] 356.1**	**[d R] 627.7**
1991	1.4	40.0	137.2	12.0	58.2	207.5	6.7	255.5	[R] 348.4	[R] 603.9
1992	0.8	[R] 46.8	132.4	10.4	56.5	199.3	7.0	[R] 254.0	[R] 389.4	[R] 643.5
1993	0.6	49.7	132.7	14.2	64.0	210.9	7.2	268.4	421.0	[R] 689.4
1994	0.5	52.3	126.9	10.9	[R] 70.3	[R] 208.1	7.1	[R] 268.0	[R] 442.7	[R] 710.7
1995	**0.4**	**46.6**	**140.9**	**12.6**	**75.7**	**229.2**	**7.9**	**284.1**	**454.2**	**738.3**

[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 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 187. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, New Hampshire

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	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	0.67	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	0.58	1.40	1.49	9.68	3.85
1974	1.85	1.87	2.32	2.38	2.35	4.37	1.91	2.40	2.22	12.81	5.33
1975	**2.65**	**2.10**	**2.46**	**2.54**	**2.43**	**4.54**	**1.85**	**2.54**	**2.38**	**15.39**	**6.18**
1976	1.85	2.63	2.64	2.52	3.67	4.76	1.70	2.76	2.71	16.06	6.42
1977	2.08	3.23	2.99	2.92	3.58	5.04	2.07	3.07	3.12	16.90	7.19
1978	1.80	3.24	3.14	3.13	4.68	5.23	1.90	3.35	3.31	18.93	7.96
1979	1.55	3.47	4.55	3.05	3.76	7.25	2.74	4.63	4.03	19.96	9.54
1980	**1.69**	**4.05**	**6.44**	**6.27**	**4.78**	**10.11**	**3.76**	**5.95**	**5.36**	**24.30**	**9.46**
1981	1.90	5.00	8.13	6.96	6.64	11.22	4.65	6.77	6.05	28.47	11.89
1982	2.04	5.95	7.76	7.00	7.00	10.52	4.09	6.09	6.01	26.60	11.07
1983	1.98	6.59	6.86	7.66	7.46	9.53	4.20	6.09	6.26	27.05	12.88
1984	2.40	6.46	6.87	7.32	6.74	9.04	4.60	5.97	6.13	26.88	12.99
1985	**2.40**	**6.13**	**6.53**	**6.92**	**11.75**	**9.26**	**4.20**	**7.20**	**6.64**	**25.55**	**13.12**
1986	2.13	6.36	4.17	4.09	11.70	7.32	2.23	4.27	4.90	24.03	10.35
1987	2.39	5.65	4.50	5.01	11.14	7.60	2.86	4.84	5.04	25.01	10.34
1988	2.56	5.52	4.47	4.87	10.88	7.82	2.22	4.58	4.85	25.78	10.96
1989	2.60	6.11	4.99	5.50	10.22	8.60	2.63	5.07	5.38	26.23	11.48
1990	**2.62**	**6.64**	**5.83**	**6.90**	**10.80**	**9.66**	**3.06**	**5.42**	**5.75**	**[R] 28.33**	**[R] 12.27**
1991	2.62	6.31	5.57	5.87	11.94	9.55	2.26	4.92	5.29	[R] 28.61	[R] 12.19
1992	2.62	6.43	5.13	5.47	9.96	9.50	2.11	5.02	[R] 5.52	[R] 30.89	[R] 13.63
1993	2.32	6.76	4.98	5.04	10.02	9.16	2.05	4.78	5.52	[R] 32.64	[R] 14.13
1994	2.23	7.08	4.90	5.32	9.83	9.29	2.35	4.72	5.56	[R] 32.24	[R] 15.86
1995	**2.30**	**6.38**	**4.68**	**5.37**	**10.09**	**9.93**	**2.55**	**4.71**	**5.33**	**33.45**	**16.58**
	Expenditures in Million Nominal Dollars										
1970	**0.1**	**3.2**	**4.1**	**0.1**	**0.4**	**0.7**	**0.2**	**5.5**	**8.8**	**21.0**	**29.8**
1971	(s)	3.8	4.5	0.1	0.5	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	41.5
1974	0.1	4.5	8.5	0.2	0.9	1.1	0.7	11.5	16.1	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	6.8	11.3	0.2	1.8	1.3	0.8	15.4	22.2	50.7	72.9
1977	0.1	8.4	12.0	0.2	1.7	1.4	0.9	16.3	24.7	56.3	81.1
1978	0.1	9.8	12.7	0.2	2.6	1.6	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**	**39.2**	**0.3**	**1.8**	**6.2**	**8.8**	**56.3**	**73.3**	**92.0**	**165.4**
1981	0.1	22.3	25.2	0.2	2.5	5.4	13.7	46.9	69.4	114.8	184.3
1982	0.2	26.8	26.7	0.3	2.7	4.2	16.1	50.0	77.0	111.0	188.0
1983	0.3	29.9	16.2	0.2	3.4	3.3	8.2	31.3	61.4	123.9	185.3
1984	0.3	27.2	16.6	0.2	3.2	3.2	12.2	35.4	62.9	136.1	199.0
1985	**0.2**	**31.2**	**20.9**	**1.6**	**6.4**	**6.1**	**2.3**	**37.4**	**68.7**	**137.9**	**206.7**
1986	0.3	29.0	21.8	0.5	7.8	5.6	7.3	42.9	72.2	140.9	213.1
1987	0.3	26.7	43.9	1.0	8.8	5.1	5.1	64.0	91.0	163.0	253.9
1988	0.3	28.5	30.0	1.2	9.5	5.8	6.8	53.4	82.2	180.0	262.2
1989	0.2	33.5	34.5	1.7	10.7	5.8	7.9	60.6	94.3	190.0	284.3
1990	**0.3**	**34.1**	**40.5**	**1.0**	**10.0**	**3.7**	**12.6**	**67.8**	**102.3**	**[R] 204.7**	**[R] 306.9**
1991	0.6	31.9	37.0	0.7	9.4	2.8	9.6	59.4	91.9	[R] 208.9	[R] 300.8
1992	0.5	[R] 38.0	33.8	0.7	8.2	2.4	4.3	49.4	[R] 87.9	[R] 231.2	[R] 319.0
1993	0.2	41.9	32.6	1.0	9.4	0.5	4.9	48.4	90.6	[R] 249.6	[R] 340.2
1994	0.2	46.0	36.5	1.2	9.7	0.5	6.7	54.6	100.8	[R] 367.8	[R] 468.6
1995	**0.2**	**42.0**	**29.8**	**1.3**	**10.7**	**0.6**	**7.1**	**49.5**	**91.7**	**383.1**	**474.8**

[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 sum of components due to independent rounding.
Sources: Data sources, estimation procedures, and assumptions are described in Appendix A.

Table 188. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, New Hampshire

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.95**	**0.95**	**0.84**	**0.70**	**0.69**	**0.74**	**1.37**	**5.08**	**2.92**	**0.51**	**1.76**	**0.67**	**—**	**0.67**	**4.18**	**1.20**
1971	—	0.67	0.67	0.93	0.88	0.73	0.79	1.40	5.27	3.06	0.62	3.24	0.76	—	0.76	4.09	1.24
1972	—	1.11	1.11	1.00	0.88	0.73	0.79	1.43	5.58	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	0.68	3.82	0.84	—	0.85	4.71	1.47
1974	—	1.85	1.85	1.19	1.64	2.19	2.38	2.35	7.22	4.37	1.70	3.59	1.89	—	1.85	7.52	2.93
1975	**—**	**2.65**	**2.65**	**1.44**	**2.05**	**2.29**	**2.54**	**2.43**	**7.48**	**4.54**	**1.85**	**4.01**	**2.08**	**—**	**2.06**	**9.42**	**3.55**
1976	—	1.85	1.85	2.24	2.07	2.34	2.52	3.67	7.05	4.76	1.78	3.77	2.18	—	2.18	9.27	3.51
1977	—	2.08	2.08	2.69	2.15	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	2.76	2.36	2.90	3.13	4.68	7.60	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	3.76	10.21	7.25	2.78	5.73	3.42	—	3.39	12.55	6.68
1980	**—**	**1.69**	**1.69**	**3.85**	**4.00**	**5.73**	**6.27**	**4.78**	**14.36**	**10.11**	**3.95**	**8.04**	**5.07**	**—**	**4.94**	**15.82**	**8.68**
1981	—	1.90	1.90	4.53	5.41	6.33	6.96	6.64	18.00	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	11.94	5.96	—	5.54	20.03	10.65
1983	—	1.98	1.98	5.87	4.25	6.70	7.66	7.46	16.98	9.53	4.57	11.12	5.77	—	5.41	20.59	10.85
1984	—	2.40	2.40	5.09	4.62	6.38	7.32	6.74	17.63	9.04	4.60	10.75	5.31	—	5.10	20.69	9.70
1985	**—**	**2.40**	**2.40**	**5.41**	**5.20**	**6.04**	**6.92**	**11.75**	**17.61**	**9.26**	**4.20**	**10.67**	**6.09**	**—**	**5.87**	**19.32**	**10.48**
1986	—	2.13	2.13	5.04	4.86	3.57	4.09	11.70	15.59	7.32	2.23	10.51	3.99	—	4.02	18.22	8.65
1987	—	2.39	2.39	4.22	3.54	4.37	5.01	11.14	R 13.58	7.60	2.86	10.58	R 4.54	—	R 4.51	18.71	9.12
1988	—	2.56	2.56	3.63	3.34	4.25	4.87	10.88	R 14.62	7.82	2.22	8.98	4.49	—	4.38	19.66	10.62
1989	—	2.60	2.60	4.12	3.17	4.79	5.50	10.22	14.48	8.60	2.63	13.28	5.05	—	4.88	19.80	10.74
1990	**—**	**2.62**	**2.62**	**4.30**	**3.34**	**6.02**	**6.90**	**10.80**	**14.60**	**9.66**	**3.06**	**11.23**	**4.93**	**d R 1.16**	**d R 3.56**	**R 21.91**	**d R 8.61**
1991	—	2.62	2.62	4.28	3.05	5.12	5.87	11.94	R 16.80	9.55	2.26	6.19	4.34	R 1.27	R 3.03	R 21.79	R 8.47
1992	—	2.62	2.62	R 4.45	2.78	4.77	5.47	9.96	R 18.32	9.50	2.11	6.82	R 3.63	1.25	R 2.86	R 23.95	R 8.25
1993	—	2.32	2.32	4.63	3.30	4.39	5.04	10.02	R 18.96	9.16	2.05	5.89	3.77	1.23	2.88	R 26.49	R 8.45
1994	—	—	—	4.38	3.64	4.64	5.32	8.35	R 19.11	9.29	2.35	6.21	3.95	1.23	3.01	R 27.32	R 7.60
1995	**—**	**2.30**	**2.30**	**3.76**	**3.79**	**4.69**	**5.37**	**7.15**	**19.40**	**9.93**	**2.55**	**6.62**	**4.12**	**1.27**	**2.89**	**28.01**	**7.77**
	Expenditures in Million Nominal Dollars																
1970	**—**	**0.2**	**0.2**	**0.7**	**2.5**	**2.0**	**0.2**	**1.4**	**0.5**	**0.6**	**9.1**	**1.6**	**18.0**	**—**	**18.8**	**20.7**	**39.6**
1971	—	0.2	0.2	0.9	3.6	2.4	0.2	1.6	0.6	0.6	13.1	1.0	23.2	—	24.2	21.8	46.0
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	1.5	4.7	3.0	0.1	2.4	0.6	0.5	13.8	1.5	26.7	—	28.3	29.7	58.0
1974	—	0.4	0.4	1.5	6.2	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**	**5.9**	**5.7**	**0.6**	**5.5**	**1.0**	**0.7**	**26.1**	**1.7**	**47.0**	**—**	**49.0**	**56.9**	**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	6.2	7.5	0.5	12.9	1.0	0.7	38.0	5.0	71.8	—	76.5	68.1	144.5
1978	—	0.1	0.1	3.3	7.1	7.6	0.5	12.7	1.2	0.6	25.9	5.9	61.5	—	64.9	87.3	152.1
1979	—	0.1	0.1	3.9	7.7	6.9	0.2	9.2	1.6	0.6	10.0	8.2	44.5	—	48.4	100.6	149.0
1980	**—**	**0.4**	**0.4**	**3.9**	**6.7**	**18.6**	**0.3**	**8.3**	**2.0**	**1.4**	**21.7**	**11.6**	**70.7**	**—**	**75.0**	**125.5**	**200.4**
1981	—	0.1	0.1	5.4	12.6	21.0	0.2	12.5	2.4	1.0	13.4	11.6	74.7	—	80.3	179.5	259.8
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	160.2	241.7
1983	—	2.8	2.8	5.2	11.0	10.5	0.1	12.9	2.2	1.0	25.1	8.7	71.7	—	79.8	169.5	249.3
1984	—	3.1	3.1	9.0	29.7	10.3	0.1	7.4	2.4	1.5	34.5	8.1	93.9	—	106.0	179.6	285.7
1985	**—**	**2.4**	**2.4**	**5.0**	**29.5**	**13.5**	**0.2**	**23.5**	**2.3**	**3.0**	**27.0**	**8.1**	**107.1**	**—**	**114.4**	**196.1**	**310.5**
1986	—	0.2	0.2	3.8	17.8	7.1	0.2	19.1	2.0	2.6	27.7	7.0	83.4	—	87.4	191.4	278.8
1987	—	0.2	0.2	7.5	18.3	13.6	0.8	24.2	R 1.9	2.6	25.9	7.2	R 94.5	—	R 102.2	204.4	R 306.6
1988	—	0.1	0.1	7.3	9.5	12.3	0.3	18.9	2.0	2.8	12.7	6.4	64.9	—	72.3	224.0	296.3
1989	—	1.0	1.0	9.4	15.6	15.1	0.4	21.0	2.0	4.1	10.1	9.3	77.7	—	88.1	231.0	319.1
1990	**—**	**1.8**	**1.8**	**14.3**	**26.6**	**15.3**	**0.3**	**15.7**	**2.1**	**2.8**	**10.2**	**8.3**	**81.2**	**d R 11.8**	**d R 109.2**	**R 255.5**	**d R 364.7**
1991	—	3.4	3.4	14.9	13.3	13.3	1.0	8.5	2.2	2.5	6.5	3.4	50.8	R 13.7	R 82.8	R 242.8	R 325.6
1992	—	2.9	2.9	17.2	14.6	13.9	0.6	8.6	R 2.4	2.5	13.7	3.8	R 60.2	14.4	R 94.7	R 272.3	R 367.0
1993	—	4.6	4.6	17.8	7.0	10.8	0.3	14.6	2.5	4.4	18.5	3.3	61.4	15.0	98.8	R 280.2	R 379.0
1994	—	—	—	19.9	9.2	9.9	0.4	11.9	2.7	4.8	19.6	3.6	62.1	14.5	96.5	R 203.4	R 299.9
1995	**—**	**(s)**	**(s)**	**17.5**	**9.2**	**11.4**	**0.6**	**8.1**	**2.7**	**5.7**	**17.7**	**3.7**	**59.0**	**17.0**	**93.6**	**218.5**	**312.1**

[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=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 189. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, New Hampshire

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.95**	**—**	**2.17**	**1.32**	**0.75**	**1.37**	**5.08**	**2.92**	**0.01**	**2.60**	**2.60**	**—**	**2.60**
1971	0.67	—	2.21	1.49	0.79	1.40	5.27	3.06	0.34	2.76	2.76	—	2.76
1972	1.11	—	2.19	1.50	0.78	1.43	5.58	3.01	0.40	2.74	2.74	—	2.74
1973	1.35	—	2.36	1.80	0.93	1.40	5.33	3.20	0.58	2.94	2.94	—	2.94
1974	1.85	—	3.23	2.73	1.61	2.35	7.22	4.37	1.80	4.04	4.04	—	4.04
1975	**2.65**	**—**	**3.45**	**2.90**	**2.09**	**2.43**	**7.48**	**4.54**	**1.90**	**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	2.08	—	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	2.67	6.56	6.56	—	6.56
1980	**—**	**—**	**9.02**	**7.38**	**6.51**	**4.78**	**14.36**	**10.11**	**3.18**	**9.62**	**9.62**	**—**	**9.62**
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	7.95	7.46	16.98	9.53	—	9.45	9.45	—	9.45
1984	—	—	10.27	8.96	6.21	6.74	17.63	9.04	—	8.88	8.88	—	8.88
1985	**—**	**—**	**9.99**	**8.95**	**6.53**	**11.75**	**17.61**	**9.26**	**—**	**9.16**	**9.16**	**—**	**9.16**
1986	—	—	8.41	7.11	4.93	11.70	15.59	7.32	1.97	7.20	7.20	—	7.20
1987	—	—	7.55	7.48	4.18	11.14	R 13.58	7.60	2.69	7.36	7.36	—	7.36
1988	—	—	7.41	7.39	4.22	10.88	R 14.62	7.82	1.90	7.55	7.55	—	7.55
1989	—	—	8.28	7.76	4.83	10.22	14.48	8.60	2.36	8.32	8.32	—	8.32
1990	**—**	**—**	**9.32**	**9.17**	**6.40**	**10.80**	**14.60**	**9.66**	**2.32**	**9.42**	**9.42**	**—**	**9.42**
1991	—	—	8.71	8.77	5.36	11.94	R 16.80	9.55	1.84	9.24	9.24	—	9.24
1992	—	—	8.54	8.41	4.86	9.96	R 18.32	9.50	1.91	9.22	9.22	—	9.22
1993	—	—	8.24	8.31	4.58	10.02	R 18.96	9.16	1.64	8.99	8.99	—	8.99
1994	—	6.13	7.96	8.42	4.29	8.09	R 19.11	9.29	1.94	9.11	9.11	—	9.11
1995	**—**	**6.10**	**8.36**	**8.34**	**4.12**	**8.17**	**19.40**	**9.93**	**—**	**9.66**	**9.66**	**—**	**9.66**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**0.4**	**2.4**	**4.2**	**(s)**	**1.7**	**123.1**	**(s)**	**131.9**	**131.9**	**—**	**131.9**
1971	(s)	—	0.5	2.4	4.6	(s)	1.8	136.7	0.1	146.2	146.2	—	146.2
1972	(s)	—	0.5	2.6	4.3	(s)	2.1	141.2	0.1	150.8	150.8	—	150.8
1973	(s)	—	0.5	4.6	4.7	(s)	1.9	155.5	0.1	167.3	167.3	—	167.3
1974	(s)	—	0.7	7.7	8.2	(s)	2.5	209.6	0.3	229.0	229.0	—	229.0
1975	**(s)**	**—**	**0.6**	**7.1**	**10.2**	**(s)**	**2.2**	**221.4**	**0.1**	**241.5**	**241.5**	**—**	**241.5**
1976	—	—	0.5	9.2	10.7	0.1	2.3	245.8	0.1	268.6	268.6	—	268.6
1977	(s)	—	0.7	11.2	12.9	0.1	2.5	271.0	—	298.5	298.5	—	298.5
1978	—	—	0.9	13.2	13.4	0.4	3.0	287.4	—	318.3	318.3	—	318.3
1979	—	—	1.2	21.3	16.5	0.5	4.2	370.0	14.5	428.2	428.2	—	428.2
1980	**—**	**—**	**1.8**	**29.5**	**27.0**	**1.3**	**5.2**	**490.5**	**1.0**	**556.4**	**556.4**	**—**	**556.4**
1981	—	—	1.6	37.0	24.4	0.2	6.3	538.9	1.2	609.7	609.7	—	609.7
1982	—	—	1.4	38.3	25.5	0.2	5.5	500.3	0.7	572.0	572.0	—	572.0
1983	—	—	1.4	42.0	24.5	0.3	5.7	466.3	—	540.1	540.1	—	540.1
1984	—	—	1.0	50.7	27.8	0.6	6.3	472.0	—	558.5	558.5	—	558.5
1985	**—**	**—**	**1.2**	**54.1**	**18.4**	**1.0**	**5.8**	**493.6**	**—**	**574.2**	**574.2**	**—**	**574.2**
1986	—	—	1.6	52.6	16.5	0.7	5.1	419.5	0.6	496.6	496.6	—	496.6
1987	—	—	1.1	59.3	14.6	0.8	R 5.0	463.9	3.8	R 548.4	R 548.4	—	R 548.4
1988	—	—	1.4	60.3	16.6	0.6	5.2	498.1	1.7	583.9	583.9	—	583.9
1989	—	—	1.4	66.2	20.0	0.5	5.2	545.0	0.3	638.6	638.6	—	638.6
1990	**—**	**—**	**1.0**	**67.7**	**22.7**	**0.6**	**5.4**	**587.7**	**1.2**	**686.3**	**686.3**	**—**	**686.3**
1991	—	—	1.1	59.6	13.9	0.4	5.6	603.5	2.3	686.4	686.4	—	686.4
1992	—	—	0.8	62.1	10.2	0.3	R 6.2	599.5	1.5	R 680.7	R 680.7	—	R 680.7
1993	—	—	1.8	63.6	9.9	0.6	6.6	596.4	(s)	678.9	678.9	—	678.9
1994	—	(s)	1.3	66.8	8.2	0.7	6.9	620.1	0.1	704.2	704.2	—	704.2
1995	**—**	**(s)**	**0.9**	**74.9**	**7.8**	**0.5**	**6.9**	**697.7**	**—**	**788.8**	**788.8**	**—**	**788.8**

[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 190. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, New Hampshire

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.36**	**—**	**0.34**	**0.40**	**—**	**0.35**	**—**	**—**	**0.36**
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	1.26	—	0.62	—	—	0.54
1974	0.81	0.61	1.92	2.08	—	1.93	—	—	1.17
1975	**1.21**	**1.01**	**1.84**	**2.26**	**—**	**1.84**	**—**	**—**	**1.43**
1976	1.25	1.80	1.74	2.40	—	1.75	—	—	1.49
1977	1.30	2.01	2.06	2.81	—	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**	**6.17**	**—**	**3.81**	**—**	**—**	**2.68**
1981	1.72	3.44	4.66	7.59	—	4.67	—	—	3.23
1982	1.88	—	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	6.18	—	4.31	—	—	2.92
1985	**2.01**	**—**	**3.62**	**5.80**	**—**	**3.64**	**—**	**—**	**2.46**
1986	1.99	—	1.91	3.61	—	1.92	—	—	1.95
1987	1.92	2.93	2.58	4.04	—	2.59	—	—	2.20
1988	1.78	2.41	1.86	3.68	—	1.89	—	—	1.83
1989	1.73	3.08	2.26	4.26	—	2.28	—	—	2.01
1990	**1.78**	**—**	**2.25**	**5.69**	**—**	**2.28**	**1.03**	**—**	**1.58**
1991	1.74	—	1.76	4.83	—	1.79	0.84	—	1.22
1992	1.69	R 2.06	1.83	4.44	—	1.86	0.95	—	1.24
1993	1.61	2.17	1.79	4.05	—	1.83	0.57	—	0.95
1994	1.52	2.10	1.98	3.72	—	2.00	0.52	—	1.02
1995	**1.59**	**1.83**	**2.31**	**3.73**	**—**	**2.35**	**0.54**	**—**	**0.98**
	Expenditures in Million Nominal Dollars								
1970	**9.7**	**—**	**5.5**	**0.4**	**—**	**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	22.5	0.9	—	23.4	—	—	43.8
1975	**31.3**	**0.2**	**26.4**	**0.3**	**—**	**26.7**	**—**	**—**	**58.2**
1976	25.3	(s)	33.4	0.3	—	33.7	—	—	59.1
1977	33.3	(s)	36.6	0.2	—	36.8	—	—	70.1
1978	29.9	—	42.4	0.1	—	42.5	—	—	72.5
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	48.9	—	67.2	0.8	—	68.0	—	—	116.8
1983	53.5	0.1	69.9	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**	**—**	**—**	**131.5**
1986	49.1	—	54.5	0.7	—	55.2	—	—	104.3
1987	59.9	(s)	57.6	0.7	—	58.3	—	—	118.2
1988	57.7	0.1	56.3	1.3	—	57.7	—	—	115.5
1989	53.5	0.1	72.2	1.5	—	73.7	—	—	127.3
1990	**54.3**	**—**	**56.3**	**1.2**	**—**	**57.5**	**45.0**	**—**	**156.9**
1991	57.4	—	29.5	1.0	—	30.5	61.4	—	149.3
1992	55.9	R 1.3	26.3	0.8	—	27.1	80.0	—	R 164.3
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
1995	**56.1**	**4.2**	**25.7**	**1.0**	**—**	**26.8**	**48.2**	**—**	**135.3**

[a] There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
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 191. Energy Price and Expenditure Estimates by Source, 1970-1995, New Jersey

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	**0.58**	**0.44**	**0.45**	**1.28**	**1.29**	**0.72**	**1.63**	**2.99**	**0.45**	**[R] 1.29**	**1.42**	**0.20**	**—**	**1.31**	**0.42**	**6.24**	**[R] 1.94**
1971	—	0.56	0.56	1.35	1.36	0.75	1.62	3.04	0.69	[R] 1.37	1.57	0.15	—	1.45	0.59	7.21	2.16
1972	—	0.66	0.66	1.46	1.37	0.89	1.61	2.90	0.71	[R] 1.39	1.55	0.16	—	[R] 1.48	0.66	7.66	2.21
1973	—	0.68	0.68	1.52	1.58	0.99	1.83	3.08	0.84	[R] 1.45	1.72	0.15	—	1.62	0.80	8.28	[R] 2.43
1974	—	1.34	1.34	1.79	2.55	1.62	3.39	4.55	2.08	[R] 2.42	2.97	0.20	—	[R] 2.65	1.74	12.16	3.79
1975	**—**	**1.58**	**1.58**	**2.29**	**2.73**	**2.03**	**3.59**	**4.79**	**2.08**	**[R] 2.83**	**3.27**	**0.18**	**—**	**2.99**	**1.71**	**13.61**	**4.26**
1976	—	1.47	1.47	2.69	2.84	2.23	3.78	4.95	2.00	[R] 3.00	3.32	0.17	—	3.05	1.60	14.24	[R] 4.35
1977	—	1.46	1.46	3.02	3.22	2.59	3.81	5.23	2.29	[R] 3.24	3.59	0.29	—	3.28	1.71	15.78	[R] 4.87
1978	—	1.57	1.57	3.35	3.41	2.86	4.33	5.21	2.17	[R] 3.40	3.67	0.34	—	3.38	1.62	16.18	5.09
1979	—	1.68	1.68	3.71	4.80	3.87	4.43	7.16	3.31	[R] 4.57	[R] 5.04	0.32	—	4.52	2.23	17.47	[R] 6.29
1980	**—**	**1.81**	**1.81**	**4.15**	**6.75**	**6.26**	**5.72**	**9.94**	**4.53**	**[R] 6.99**	**[R] 7.16**	**0.34**	**—**	**[R] 6.03**	**2.67**	**21.26**	**[R] 8.33**
1981	—	2.09	2.09	5.01	8.24	7.50	6.75	10.99	5.14	[R] 8.56	[R] 8.50	0.33	—	[R] 6.87	2.62	24.56	[R] 9.64
1982	—	2.15	2.15	5.87	7.99	7.03	7.80	10.06	4.92	[R] 7.52	[R] 7.93	0.57	—	[R] 6.63	2.36	27.09	[R] 9.59
1983	—	1.97	1.97	5.93	7.66	6.36	8.37	9.01	4.62	[R] 7.01	[R] 7.40	0.70	—	[R] 6.52	2.89	26.85	[R] 9.34
1984	—	1.95	1.95	6.02	7.97	6.13	7.51	8.67	4.85	[R] 7.17	[R] 7.28	0.79	—	[R] 6.53	3.15	26.87	[R] 9.23
1985	**—**	**1.92**	**1.92**	**6.18**	**7.86**	**5.76**	**[R] 12.48**	**8.95**	**4.35**	**[R] 7.26**	**[R] 7.38**	**0.71**	**—**	**[R] 6.15**	**1.90**	**28.18**	**[R] 9.51**
1986	—	1.80	1.80	5.86	6.20	3.84	[R] 12.07	6.89	2.34	[R] 4.98	[R] 5.40	0.73	—	[R] 4.95	1.47	27.56	[R] 8.04
1987	—	1.76	1.76	5.04	6.06	4.01	[R] 11.58	7.25	2.99	[R] 5.24	[R] 5.71	0.81	—	[R] 4.81	1.49	25.16	[R] 7.87
1988	—	1.71	1.71	4.97	5.94	3.79	[R] 11.17	7.58	2.40	[R] 4.74	[R] 5.65	0.68	—	[R] 4.72	1.30	24.97	[R] 7.95
1989	—	1.75	1.75	5.11	6.39	4.34	[R] 9.86	8.48	2.83	[R] 5.22	[R] 6.21	0.66	—	[R] 5.10	1.45	25.95	[R] 8.45
1990	**—**	**1.79**	**1.79**	**5.05**	**7.77**	**5.60**	**[R] 11.53**	**9.03**	**3.25**	**[R] 5.95**	**[R] 7.14**	**0.61**	**[d R] 2.47**	**[d R] 5.56**	**1.20**	**26.63**	**[d R] 9.13**
1991	—	1.77	1.77	4.91	7.29	4.79	[R] 10.78	8.91	2.63	[R] 5.62	[R] 6.75	0.61	[R] 2.36	[R] 5.28	1.12	27.76	[R] 9.04
1992	—	1.72	1.72	5.02	6.79	4.44	[R] 11.42	9.04	2.66	[R] 5.55	[R] 6.62	0.56	[R] 2.32	[R] 5.30	1.04	27.91	[R] 8.67
1993	—	1.75	1.75	5.07	6.79	4.15	[R] 11.67	8.83	2.51	[R] 4.87	[R] 6.26	0.58	[R] 2.34	[R] 5.02	1.01	[R] 29.31	[R] 8.69
1994	—	1.81	1.81	5.19	6.83	3.87	[R] 11.00	8.82	2.78	[R] 5.15	[R] 6.38	0.62	[R] 2.25	[R] 5.25	1.11	29.51	[R] 8.76
1995	**—**	**1.78**	**1.78**	**4.90**	**6.82**	**3.85**	**11.22**	**9.18**	**2.87**	**5.39**	**6.55**	**0.63**	**2.12**	**5.37**	**1.17**	**30.64**	**8.91**
	Expenditures in Million Nominal Dollars																
1970	**5.3**	**50.4**	**55.6**	**413.8**	**468.7**	**26.9**	**40.9**	**1,040.8**	**215.4**	**[R] 210.5**	**[R] 2,003.1**	**7.6**	**—**	**[R] 2,480.2**	**-182.1**	**799.5**	**[R] 3,097.7**
1971	—	51.6	51.6	441.1	506.5	28.3	40.6	1,092.0	306.9	[R] 215.5	[R] 2,189.8	6.4	—	[R] 2,689.0	-243.9	969.2	[R] 3,414.3
1972	—	21.1	21.1	470.4	567.6	42.4	45.6	1,128.8	333.4	[R] 238.1	[R] 2,355.9	7.6	—	[R] 2,855.0	-264.7	1,085.6	[R] 3,675.9
1973	—	45.0	45.0	453.7	686.4	45.3	55.4	1,227.8	386.0	[R] 266.8	[R] 2,667.6	5.8	—	[R] 3,172.0	-343.7	1,262.9	[R] 4,091.1
1974	—	110.9	110.9	487.2	1,015.4	64.4	96.8	1,803.8	754.6	[R] 429.1	[R] 4,164.1	8.0	—	[R] 4,770.2	-678.2	1,802.6	[R] 5,894.6
1975	**—**	**95.9**	**95.9**	**556.5**	**947.8**	**71.4**	**95.0**	**1,951.3**	**575.0**	**[R] 452.0**	**[R] 4,092.4**	**6.1**	**—**	**[R] 4,750.9**	**-451.6**	**1,966.1**	**[R] 6,265.5**
1976	—	103.6	103.6	869.8	1,012.8	84.8	101.2	2,066.1	660.5	[R] 433.1	[R] 4,358.6	7.3	—	[R] 5,339.3	-453.0	2,155.8	[R] 7,042.2
1977	—	103.4	103.4	743.1	1,113.3	122.5	102.9	2,129.6	778.9	[R] 554.6	[R] 4,801.9	22.0	—	[R] 5,670.4	-572.9	2,452.7	[R] 7,550.3
1978	—	95.6	95.6	764.2	1,127.6	126.1	114.1	2,205.8	729.2	[R] 622.2	[R] 4,925.0	30.4	—	[R] 5,815.3	-538.1	2,605.7	[R] 7,883.0
1979	—	99.5	99.5	969.4	1,417.1	184.8	107.8	2,843.5	1,178.3	[R] 851.1	[R] 6,582.7	23.1	—	[R] 7,674.8	-652.6	2,851.8	[R] 9,874.0
1980	**—**	**124.5**	**124.5**	**1,434.3**	**2,072.7**	**308.7**	**134.3**	**3,797.7**	**1,419.1**	**[R] 1,218.3**	**[R] 8,950.9**	**27.9**	**—**	**[R] 10,537.7**	**-881.5**	**3,538.5**	**[R] 13,194.6**
1981	—	157.5	157.5	2,004.7	2,418.5	766.5	149.5	4,179.2	1,138.8	[R] 1,546.8	[R] 10,199.3	42.5	—	[R] 12,404.0	-928.2	4,134.6	[R] 15,610.4
1982	—	168.3	168.3	2,253.8	2,101.3	1,357.8	173.6	3,876.2	978.5	[R] 1,163.8	[R] 9,651.3	88.2	—	[R] 12,161.5	-826.6	4,480.3	[R] 15,815.2
1983	—	179.9	179.9	2,452.3	1,748.9	1,335.0	185.5	3,673.8	751.3	[R] 1,145.8	[R] 8,840.4	48.6	—	[R] 11,521.3	-883.8	4,639.2	[R] 15,276.7
1984	—	163.9	163.9	2,539.0	1,887.5	1,469.4	229.6	3,517.4	867.5	[R] 1,168.7	[R] 9,140.1	48.2	—	[R] 11,891.3	-922.2	4,788.1	[R] 15,757.2
1985	**—**	**198.1**	**198.1**	**2,371.8**	**1,848.0**	**1,430.6**	**[R] 316.6**	**3,546.4**	**644.1**	**[R] 1,093.7**	**[R] 8,879.5**	**135.8**	**—**	**[R] 11,585.3**	**-730.2**	**5,148.3**	**[R] 16,003.4**
1986	—	140.2	140.2	2,097.3	1,621.2	852.8	[R] 278.6	2,921.4	441.1	[R] 868.4	[R] 6,983.7	117.2	—	[R] 9,338.3	-479.1	5,228.8	[R] 14,088.0
1987	—	158.9	158.9	2,150.0	1,545.5	984.5	[R] 324.0	3,090.8	457.5	[R] 898.4	[R] 7,300.7	197.0	—	[R] 9,806.7	-655.2	5,017.5	[R] 14,169.0
1988	—	138.5	138.5	2,087.1	1,594.5	876.3	[R] 293.2	3,230.9	339.0	[R] 803.7	[R] 7,137.4	175.7	—	[R] 9,538.7	-574.2	5,265.5	[R] 14,230.1
1989	—	164.2	164.2	2,360.1	1,674.7	1,084.9	[R] 218.7	3,625.8	392.2	[R] 869.7	[R] 7,865.9	162.2	—	[R] 10,552.5	-654.6	5,583.2	[R] 15,481.1
1990	**—**	**144.4**	**144.4**	**2,184.4**	**1,578.2**	**1,470.6**	**[R] 169.4**	**3,694.1**	**303.1**	**[R] 1,020.9**	**[R] 8,236.3**	**155.8**	**[d R] 28.1**	**[d R] 10,749.0**	**-478.0**	**[R] 5,689.1**	**[d R] 15,960.2**
1991	—	109.3	109.3	2,295.8	1,410.7	1,183.7	[R] 230.0	3,728.0	278.4	[R] 858.3	[R] 7,689.1	162.9	[R] 31.1	[R] 10,288.3	-454.0	[R] 6,089.0	[R] 15,923.2
1992	—	108.0	108.0	2,757.9	1,328.9	1,160.8	[R] 268.5	3,641.0	255.2	[R] 878.5	[R] 7,532.9	129.6	[R] 32.2	[R] 10,560.6	-354.9	[R] 5,974.6	[R] 16,180.2
1993	—	109.6	109.6	2,842.2	1,348.3	1,131.5	[R] 153.8	3,268.5	192.6	[R] 937.5	[R] 7,032.1	153.4	[R] 33.8	[R] 10,171.1	-376.5	[R] 6,524.2	[R] 16,318.9
1994	—	94.8	94.8	3,095.0	1,483.0	1,060.2	[R] 148.3	3,779.5	228.5	[R] 918.9	[R] 7,618.4	145.5	[R] 34.0	[R] 10,987.8	-390.1	[R] 6,635.9	[R] 17,233.5
1995	**—**	**97.8**	**97.8**	**2,938.1**	**1,309.0**	**1,093.3**	**160.6**	**3,969.4**	**219.4**	**956.6**	**7,708.3**	**112.9**	**39.5**	**10,896.7**	**-342.1**	**6,943.9**	**17,498.4**

[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.

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 192. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, New Jersey

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.13**	**1.84**	**1.43**	**1.72**	**3.00**	**1.46**	**—**	**1.62**	**7.83**	**2.28**
1971	1.38	1.90	1.51	1.77	2.96	1.54	—	1.69	8.91	2.50
1972	1.35	1.97	1.52	1.81	3.07	1.55	—	1.72	9.46	2.58
1973	1.38	2.03	1.73	2.17	4.69	1.79	—	1.88	10.15	2.91
1974	2.19	2.19	2.66	3.30	5.33	2.72	—	2.49	14.19	4.01
1975	**2.09**	**2.61**	**2.81**	**3.51**	**4.94**	**2.86**	**—**	**2.75**	**15.77**	**4.50**
1976	3.42	3.04	2.97	3.78	4.48	3.02	—	3.03	16.65	4.79
1977	2.69	3.31	3.37	4.22	5.87	3.46	—	3.39	18.32	5.48
1978	2.81	3.41	3.58	4.47	6.81	3.68	—	3.56	18.70	5.76
1979	2.93	4.15	5.12	6.07	7.59	5.19	—	4.66	20.23	7.34
1980	**3.17**	**4.90**	**7.06**	**9.27**	**9.83**	**7.14**	**—**	**6.02**	**24.08**	**8.97**
1981	3.57	5.68	8.76	11.86	11.47	8.85	—	7.19	27.84	10.45
1982	3.54	6.82	8.46	11.92	11.47	8.60	—	7.57	30.71	11.39
1983	3.03	7.22	8.25	10.59	11.74	8.42	—	7.67	30.95	12.01
1984	3.24	7.15	8.48	10.54	10.50	8.60	—	7.72	30.56	11.95
1985	**3.07**	**7.33**	**8.09**	**10.06**	**10.95**	**8.27**	**—**	**7.70**	**32.24**	**12.09**
1986	2.82	7.17	6.89	8.57	12.42	7.14	—	7.14	31.19	11.60
1987	2.80	6.44	6.44	8.01	11.74	6.68	—	6.53	29.01	10.79
1988	2.82	6.17	6.48	8.05	10.21	6.69	—	6.35	28.70	10.65
1989	2.93	6.35	7.02	8.72	8.96	7.16	—	6.62	29.53	10.97
1990	**3.14**	**6.44**	**8.39**	**10.42**	**14.08**	**8.69**	**[d] 2.83**	**[d] 6.96**	**[R] 30.36**	**[d] 11.78**
1991	2.90	6.57	8.02	9.97	15.07	8.48	2.83	6.96	31.69	[R] 12.21
1992	2.68	6.77	7.21	8.96	13.82	7.69	2.83	6.88	31.85	11.62
1993	2.89	6.75	7.06	8.78	11.77	7.41	2.83	6.79	33.43	12.13
1994	3.19	6.84	6.84	8.50	[R] 14.64	[R] 7.35	2.83	[R] 6.85	33.81	[R] 11.90
1995	**2.88**	**7.03**	**6.79**	**8.43**	**14.70**	**7.41**	**2.83**	**6.98**	**35.11**	**12.68**
	Expenditures in Million Nominal Dollars									
1970	**2.4**	**264.7**	**274.6**	**7.5**	**9.5**	**291.6**	**—**	**558.7**	**324.1**	**882.8**
1971	2.8	278.7	286.7	8.6	9.0	304.4	—	585.9	391.0	976.8
1972	2.1	302.5	310.1	9.8	10.7	330.6	—	635.2	437.7	1,072.9
1973	2.3	284.6	358.9	9.8	15.5	384.2	—	671.1	513.8	1,184.8
1974	2.9	305.6	481.9	11.3	18.0	511.1	—	819.7	692.4	1,512.1
1975	**2.2**	**348.4**	**501.0**	**8.6**	**17.7**	**527.3**	**—**	**877.8**	**780.0**	**1,657.8**
1976	3.4	463.2	542.4	15.1	19.2	576.7	—	1,043.3	852.2	1,895.5
1977	2.8	459.2	583.6	24.5	25.5	633.7	—	1,095.6	962.0	2,057.6
1978	2.4	481.7	585.8	24.0	28.3	638.1	—	1,122.2	1,001.1	2,123.3
1979	2.0	537.1	640.7	8.5	22.3	671.5	—	1,210.5	1,090.5	2,301.0
1980	**2.4**	**691.2**	**985.9**	**13.8**	**28.0**	**1,027.7**	**—**	**1,721.3**	**1,341.5**	**3,062.8**
1981	4.9	856.8	1,181.9	13.0	39.5	1,234.4	—	2,096.2	1,522.1	3,618.3
1982	4.9	1,046.6	951.3	23.9	34.9	1,010.0	—	2,061.5	1,651.5	3,713.0
1983	3.8	1,090.5	770.6	18.6	42.4	831.6	—	1,925.9	1,781.4	3,707.2
1984	1.6	1,107.2	813.0	26.9	34.9	874.8	—	1,983.6	1,789.1	3,772.7
1985	**4.4**	**1,130.9**	**852.0**	**51.7**	**36.2**	**939.9**	**—**	**2,075.2**	**1,889.6**	**3,964.8**
1986	2.5	1,163.4	693.4	31.3	46.4	771.1	—	1,937.0	1,925.0	3,862.0
1987	1.3	1,113.0	654.5	23.3	47.6	725.4	—	1,839.7	1,911.3	3,751.0
1988	1.1	1,147.1	659.9	21.5	50.4	731.9	—	1,880.0	2,023.0	3,903.1
1989	0.7	1,273.0	650.9	28.2	43.0	722.1	—	1,995.8	2,085.0	4,080.7
1990	**0.6**	**1,133.0**	**561.7**	**17.4**	**45.9**	**625.0**	**[d] 22.2**	**[d] 1,780.7**	**[R] 2,123.4**	**[d R] 3,904.2**
1991	0.5	1,188.8	517.3	18.6	60.3	596.3	23.4	1,808.9	[R] 2,329.1	[R] 4,138.0
1992	0.6	1,377.3	470.4	13.9	66.0	550.3	24.6	1,952.7	[R] 2,232.8	[R] 4,185.6
1993	0.3	1,367.0	474.5	11.1	59.1	544.7	26.3	1,938.3	[R] 2,514.3	[R] 4,452.6
1994	0.5	1,542.0	491.7	14.0	[R] 69.4	[R] 575.1	25.8	[R] 2,143.3	[R] 2,555.9	[R] 4,699.2
1995	**0.3**	**1,413.5**	**460.4**	**11.3**	**82.4**	**554.2**	**28.6**	**1,996.6**	**2,692.1**	**4,688.7**

[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 193. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, New Jersey

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.23**	**1.38**	**1.14**	**0.79**	**1.43**	**2.99**	**0.45**	**0.83**	**0.99**	**7.62**	**2.01**
1971	0.53	1.42	1.21	0.85	1.44	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	1.03	1.48	3.08	0.86	1.20	1.29	9.51	2.86
1974	1.10	1.82	2.34	2.27	3.13	4.55	2.06	2.28	2.12	13.66	4.49
1975	**1.27**	**2.26**	**2.48**	**2.50**	**3.38**	**4.79**	**2.04**	**2.39**	**2.34**	**14.97**	**5.19**
1976	0.94	2.68	2.64	2.51	3.65	4.95	1.94	2.38	2.50	15.66	4.94
1977	1.89	3.00	3.06	2.87	3.42	5.23	2.29	2.76	2.83	17.04	6.10
1978	1.31	3.26	3.20	2.99	3.86	5.21	2.14	2.81	2.95	17.69	6.68
1979	1.42	3.86	4.64	4.11	4.00	7.16	3.38	4.03	3.97	19.04	7.67
1980	**1.49**	**4.45**	**6.47**	**5.81**	**5.15**	**9.94**	**4.66**	**5.51**	**5.14**	**22.49**	**9.22**
1981	1.71	5.30	8.14	7.01	5.88	10.99	5.48	6.95	6.15	25.78	11.30
1982	1.87	6.17	7.83	7.24	7.22	10.06	5.03	6.76	6.42	27.95	12.47
1983	1.74	6.50	6.87	6.87	7.71	9.01	4.70	6.43	6.45	27.36	12.79
1984	1.73	6.40	6.86	7.56	7.15	8.67	5.10	6.37	6.37	27.79	12.83
1985	**1.74**	**6.49**	**6.50**	**6.89**	**[R] 12.71**	**8.95**	**4.56**	**[R] 6.05**	**[R] 6.28**	**29.02**	**13.83**
1986	1.62	6.17	4.43	5.09	[R] 12.00	6.89	2.67	4.21	[R] 5.27	28.40	[R] 12.63
1987	1.60	5.41	4.46	5.34	[R] 11.56	7.25	3.12	[R] 4.39	4.99	25.49	[R] 11.81
1988	1.56	5.11	4.19	4.64	[R] 11.39	7.58	2.54	[R] 4.02	4.67	25.00	11.48
1989	1.58	5.17	4.91	5.17	[R] 10.11	8.48	2.97	4.84	5.05	25.96	11.97
1990	**1.60**	**5.07**	**6.10**	**6.53**	**[R] 10.80**	**9.03**	**3.47**	**5.92**	**5.34**	**[R] 26.49**	**12.71**
1991	1.58	5.08	5.66	5.89	[R] 9.79	8.91	2.64	[R] 5.37	[R] 5.17	27.43	12.94
1992	1.57	5.40	5.06	5.41	[R] 10.81	9.04	2.56	[R] 5.00	[R] 5.29	27.65	12.83
1993	1.50	5.40	4.74	5.83	[R] 11.61	8.83	2.71	[R] 4.39	[R] 5.14	28.84	13.49
1994	1.51	5.80	4.56	[R] 5.60	[R] 11.08	8.82	2.85	[R] 4.31	5.42	29.15	[R] 13.85
1995	**1.69**	**5.57**	**4.40**	**5.99**	**10.83**	**9.18**	**2.92**	**4.46**	**5.36**	**30.30**	**14.58**
	Expenditures in Million Nominal Dollars										
1970	**0.3**	**79.3**	**74.0**	**1.3**	**0.8**	**9.6**	**32.5**	**118.2**	**197.9**	**280.9**	**478.8**
1971	0.7	87.7	77.4	1.6	0.8	12.0	42.9	134.7	223.2	343.1	566.3
1972	0.4	93.7	83.5	1.8	0.9	8.7	42.4	137.3	231.4	390.1	621.5
1973	0.6	96.1	99.0	1.8	0.9	10.0	52.4	164.1	260.7	451.2	711.9
1974	1.1	108.4	143.3	3.0	1.9	14.2	107.3	269.8	379.3	632.5	1,011.8
1975	**0.9**	**124.2**	**149.4**	**2.4**	**2.1**	**15.9**	**83.0**	**252.9**	**378.0**	**707.2**	**1,085.2**
1976	0.6	250.4	162.9	3.9	2.8	16.0	112.4	298.0	549.0	782.6	1,331.6
1977	1.3	166.9	178.8	6.5	2.6	14.1	120.3	322.3	490.5	881.4	1,371.9
1978	0.7	162.0	177.2	6.2	2.8	19.9	100.7	306.9	469.6	956.9	1,426.5
1979	0.6	209.0	196.0	2.2	2.1	39.9	222.3	462.5	672.1	1,048.3	1,720.4
1980	**0.8**	**278.0**	**345.2**	**1.3**	**2.6**	**15.5**	**321.1**	**685.8**	**964.5**	**1,295.3**	**2,259.8**
1981	1.7	409.1	363.1	2.3	3.6	17.8	220.7	607.4	1,018.1	1,518.2	2,536.4
1982	1.7	500.8	320.8	3.9	3.9	17.1	146.2	492.0	994.5	1,690.6	2,685.1
1983	1.4	532.7	286.8	2.0	4.9	34.5	78.7	406.9	941.0	1,740.9	2,682.0
1984	0.6	547.6	293.5	1.2	4.2	29.4	116.5	444.8	993.1	1,867.1	2,860.2
1985	**1.9**	**553.5**	**213.6**	**3.0**	**[R] 7.4**	**31.0**	**89.7**	**[R] 344.7**	**[R] 900.1**	**2,070.5**	**[R] 2,970.7**
1986	1.0	543.1	229.5	3.1	[R] 7.9	23.6	45.6	[R] 309.7	[R] 853.9	2,149.3	[R] 3,003.1
1987	0.5	523.3	202.5	3.3	[R] 8.3	25.3	46.9	[R] 286.3	[R] 810.1	2,059.6	[R] 2,869.6
1988	0.4	530.9	192.7	3.1	[R] 9.9	25.8	45.6	[R] 277.1	[R] 808.4	2,177.4	[R] 2,985.8
1989	0.3	622.1	233.8	7.7	[R] 8.6	29.8	33.6	[R] 313.5	[R] 935.9	2,377.7	[R] 3,313.6
1990	**0.2**	**601.1**	**245.8**	**6.6**	**[R] 6.2**	**35.6**	**32.3**	**[R] 326.5**	**[R] 927.8**	**[R] 2,460.3**	**3,388.1**
1991	0.2	631.7	216.1	6.4	[R] 6.9	32.3	26.6	[R] 288.4	[R] 920.2	2,621.3	[R] 3,541.5
1992	0.3	725.1	187.6	11.9	[R] 9.1	29.1	22.1	[R] 259.8	[R] 985.2	[R] 2,621.2	[R] 3,606.5
1993	0.1	722.1	154.7	5.3	[R] 10.3	3.6	34.1	[R] 207.9	[R] 930.1	[R] 2,842.4	[R] 3,772.5
1994	0.2	796.0	132.4	19.6	[R] 9.3	3.9	37.8	[R] 203.0	[R] 999.2	[R] 2,958.9	[R] 3,958.0
1995	**0.1**	**800.4**	**86.1**	**19.2**	**10.7**	**3.8**	**23.1**	**142.8**	**943.4**	**3,122.0**	**4,065.4**

[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.
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 194. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, New Jersey

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.23**	**0.40**	**0.68**	**0.68**	**0.76**	**0.79**	**1.43**	**5.08**	**2.99**	**0.48**	**[R] 1.09**	**0.93**	**—**	**0.86**	**3.89**	**1.18**
1971	—	0.53	0.53	0.72	0.82	0.81	0.85	1.44	5.27	3.04	0.68	[R] 1.11	[R] 1.03	—	0.97	4.65	1.39
1972	—	0.40	0.40	0.79	0.85	0.80	0.85	1.40	5.58	2.90	0.69	[R] 1.10	1.07	—	1.01	4.98	1.47
1973	—	0.43	0.43	0.85	0.83	0.98	1.03	1.48	5.33	3.08	0.73	[R] 1.22	[R] 1.15	—	1.10	5.46	[R] 1.60
1974	—	1.10	1.10	1.08	1.53	2.17	2.27	3.13	7.22	4.55	2.06	[R] 2.17	[R] 2.30	—	[R] 2.10	8.98	[R] 2.96
1975	**—**	**1.27**	**1.27**	**1.65**	**1.89**	**2.36**	**2.50**	**3.38**	**7.48**	**4.79**	**2.15**	**[R] 2.67**	**[R] 2.60**	**—**	**[R] 2.46**	**10.03**	**[R] 3.42**
1976	—	0.94	0.94	2.11	1.96	2.40	2.51	3.65	7.05	4.95	2.12	[R] 2.81	[R] 2.64	—	[R] 2.53	10.39	[R] 3.50
1977	—	1.89	1.89	2.34	2.04	2.76	2.87	3.42	6.97	5.23	2.37	[R] 3.12	[R] 2.90	—	[R] 2.82	11.91	[R] 3.98
1978	—	1.31	1.31	3.27	2.23	2.86	2.99	3.86	7.60	5.21	2.33	[R] 3.21	[R] 3.02	—	[R] 3.04	12.14	[R] 4.26
1979	—	1.42	1.42	3.08	2.62	3.92	4.11	4.00	10.21	7.16	3.35	[R] 4.43	[R] 3.98	—	[R] 3.88	13.14	[R] 4.92
1980	**—**	**1.49**	**1.49**	**3.63**	**3.65**	**5.48**	**5.81**	**5.15**	**14.36**	**9.94**	**4.69**	**[R] 6.96**	**[R] 5.94**	**—**	**[R] 5.56**	**16.96**	**[R] 6.96**
1981	—	1.71	1.71	4.57	5.41	6.60	7.01	5.88	18.00	10.99	4.88	[R] 8.40	[R] 7.35	—	[R] 6.69	19.99	[R] 8.36
1982	—	1.87	1.87	5.09	4.10	6.65	7.24	7.22	17.25	10.06	5.16	[R] 7.30	[R] 6.75	—	[R] 6.30	22.27	[R] 8.36
1983	—	1.74	1.74	5.29	4.18	6.66	6.87	7.71	16.98	9.01	4.89	[R] 6.76	[R] 6.61	—	[R] 6.15	21.64	[R] 8.41
1984	—	1.73	1.73	5.51	4.53	6.85	7.56	7.15	17.63	8.67	5.10	[R] 6.68	[R] 6.66	—	[R] 6.24	21.57	[R] 8.40
1985	**—**	**1.74**	**1.74**	**5.39**	**4.89**	**6.24**	**6.89**	**[R] 12.71**	**17.61**	**8.95**	**4.56**	**[R] 6.47**	**[R] 7.12**	**—**	**[R] 6.50**	**22.54**	**[R] 8.92**
1986	—	1.62	1.62	4.27	4.16	4.61	5.09	[R] 12.00	15.59	6.89	2.67	[R] 3.94	[R] 5.01	—	[R] 4.77	22.09	[R] 7.27
1987	—	1.60	1.60	3.98	3.39	4.84	5.34	[R] 11.56	[R] 13.58	7.25	3.12	[R] 4.65	[R] 5.35	—	[R] 4.92	19.68	[R] 6.97
1988	—	1.56	1.56	3.78	3.07	4.20	4.64	[R] 11.39	[R] 14.62	7.58	2.54	[R] 3.89	[R] 4.82	—	[R] 4.50	19.83	[R] 6.71
1989	—	1.58	1.58	3.88	2.71	4.69	5.17	[R] 10.11	14.48	8.48	2.97	[R] 4.54	[R] 5.11	—	[R] 4.69	21.00	[R] 7.07
1990	**—**	**1.60**	**1.60**	**3.85**	**2.86**	**5.92**	**6.53**	**[R] 10.80**	**14.60**	**9.03**	**3.47**	**[R] 5.45**	**[R] 5.77**	**[d] [R] 1.67**	**[d] [R] 5.08**	**[R] 21.58**	**[d] [R] 7.37**
1991	—	1.58	1.58	3.56	2.70	5.33	5.89	[R] 9.79	[R] 16.80	8.91	2.64	[R] 4.78	[R] 5.49	[R] 1.56	[R] 4.72	[R] 22.47	[R] 7.24
1992	—	1.57	1.57	3.34	2.26	4.90	5.41	[R] 10.81	[R] 18.32	9.04	2.56	[R] 4.67	[R] 5.49	[R] 1.47	[R] 4.41	22.59	[R] 6.49
1993	—	1.50	1.50	3.57	2.92	5.28	5.83	[R] 11.61	[R] 18.96	8.83	2.71	[R] 4.08	[R] 4.73	[R] 1.47	[R] 4.13	[R] 23.70	[R] 6.17
1994	—	1.51	1.51	3.50	2.97	5.07	5.60	[R] 8.79	[R] 19.11	8.82	2.85	[R] 4.03	[R] 4.85	[R] 1.37	[R] 4.14	23.28	[R] 6.16
1995	**—**	**1.69**	**1.69**	**3.01**	**3.29**	**5.43**	**5.99**	**8.74**	**19.40**	**9.18**	**2.92**	**4.34**	**5.13**	**1.28**	**3.98**	**23.89**	**5.99**
	Expenditures in Million Nominal Dollars																
1970	**5.3**	**2.2**	**7.5**	**51.4**	**26.3**	**38.6**	**3.4**	**30.0**	**42.5**	**6.3**	**52.1**	**[R] 110.0**	**[R] 309.3**	**—**	**[R] 368.2**	**194.0**	**[R] 562.2**
1971	—	1.8	1.8	55.8	32.9	39.3	3.1	30.2	43.6	5.6	65.3	[R] 104.2	[R] 324.1	—	[R] 381.7	234.5	[R] 616.2
1972	—	0.6	0.6	61.9	35.5	42.1	3.1	33.5	49.4	4.7	56.5	[R] 114.4	[R] 339.2	—	[R] 401.6	257.1	[R] 658.8
1973	—	1.0	1.0	59.5	40.3	55.2	2.6	38.4	53.0	4.7	61.6	[R] 137.5	[R] 393.4	—	[R] 453.9	297.2	[R] 751.1
1974	—	4.0	4.0	62.2	63.9	104.2	5.6	75.7	68.9	7.4	145.4	[R] 247.6	[R] 718.6	—	[R] 784.8	476.5	[R] 1,261.3
1975	**—**	**2.0**	**2.0**	**75.5**	**62.9**	**109.5**	**8.7**	**73.9**	**51.6**	**5.9**	**125.3**	**[R] 288.9**	**[R] 726.6**	**—**	**[R] 804.0**	**477.3**	**[R] 1,281.3**
1976	—	0.8	0.8	141.5	58.0	114.9	10.8	77.8	54.0	5.7	174.7	[R] 261.0	[R] 756.9	—	[R] 899.2	519.7	[R] 1,418.9
1977	—	4.3	4.3	103.8	74.3	128.7	17.8	73.3	70.1	5.3	179.9	[R] 329.2	[R] 878.6	—	[R] 986.8	608.0	[R] 1,594.7
1978	—	1.8	1.8	119.0	88.9	123.8	18.1	80.5	82.0	5.2	170.6	[R] 365.4	[R] 934.4	—	[R] 1,055.1	646.6	[R] 1,701.7
1979	—	0.6	0.6	141.6	95.5	216.8	37.7	81.9	115.3	6.0	415.5	[R] 539.7	[R] 1,508.4	—	[R] 1,650.6	711.6	[R] 2,362.2
1980	**—**	**1.2**	**1.2**	**217.5**	**105.7**	**230.9**	**45.9**	**102.9**	**144.4**	**7.7**	**410.2**	**[R] 841.4**	**[R] 1,889.1**	**—**	**[R] 2,107.8**	**900.1**	**[R] 3,007.9**
1981	—	0.8	0.8	406.8	177.0	363.7	48.1	102.1	173.6	8.4	205.8	[R] 1,054.0	[R] 2,132.8	—	[R] 2,540.5	1,091.9	[R] 3,632.4
1982	—	6.6	6.6	415.2	131.5	312.5	39.3	130.5	151.7	6.4	235.2	[R] 740.5	[R] 1,747.6	—	[R] 2,169.5	1,136.2	[R] 3,305.7
1983	—	11.6	11.6	422.7	169.5	137.4	55.8	132.7	156.4	5.4	99.8	[R] 668.1	[R] 1,425.0	—	[R] 1,859.3	1,115.1	[R] 2,974.5
1984	—	13.2	13.2	455.5	187.5	142.6	20.1	185.6	173.2	4.3	133.2	[R] 678.4	[R] 1,524.9	—	[R] 1,993.7	1,127.9	[R] 3,121.5
1985	**—**	**15.0**	**15.0**	**433.0**	**153.6**	**90.4**	**16.4**	**[R] 267.9**	**161.2**	**21.7**	**126.5**	**[R] 629.3**	**[R] 1,467.0**	**—**	**[R] 1,915.0**	**1,181.8**	**[R] 3,096.8**
1986	—	10.6	10.6	294.9	153.5	90.3	13.6	[R] 219.9	139.5	16.9	73.1	[R] 460.7	[R] 1,167.6	—	[R] 1,473.0	1,148.7	[R] 2,621.8
1987	—	13.0	13.0	315.7	119.3	83.2	21.1	[R] 264.8	[R] 137.4	19.6	102.4	[R] 527.4	[R] 1,275.2	—	[R] 1,603.9	1,031.3	[R] 2,635.1
1988	—	10.2	10.2	290.6	88.4	78.1	20.9	[R] 229.3	142.6	20.9	70.2	[R] 460.3	[R] 1,110.5	—	[R] 1,411.3	1,051.5	[R] 2,462.9
1989	—	11.3	11.3	324.5	72.4	94.3	20.6	[R] 164.0	144.9	22.3	63.8	[R] 528.1	[R] 1,110.5	—	[R] 1,446.3	1,104.2	[R] 2,550.5
1990	**—**	**11.1**	**11.1**	**343.6**	**68.0**	**99.6**	**9.5**	**[R] 114.4**	**[R] 150.4**	**21.7**	**68.5**	**[R] 698.8**	**[R] 1,230.7**	**[d] [R] 5.9**	**[d] [R] 1,591.4**	**[R] 1,089.1**	**[d] [R] 2,680.5**
1991	—	9.2	9.2	350.4	56.1	77.8	3.2	[R] 160.3	154.7	19.7	37.9	[R] 548.3	[R] 1,057.9	[R] 7.7	[R] 1,425.3	[R] 1,121.8	[R] 2,547.0
1992	—	8.5	8.5	570.8	50.6	56.4	4.9	[R] 190.4	[R] 172.0	20.1	39.5	[R] 546.0	[R] 1,080.0	[R] 7.6	[R] 1,666.9	1,102.9	[R] 2,769.8
1993	—	8.3	8.3	668.4	160.8	63.4	4.5	[R] 81.1	[R] 181.3	25.1	34.2	[R] 491.5	[R] 1,042.0	[R] 7.6	[R] 1,726.3	[R] 1,150.3	[R] 2,876.5
1994	—	2.7	2.7	[R] 664.5	102.9	65.3	19.0	[R] 65.2	[R] 191.1	25.8	35.9	[R] 484.0	[R] 989.1	[R] 8.2	[R] 1,664.6	[R] 1,103.5	[R] 2,768.1
1995	**—**	**0.5**	**0.5**	**623.9**	**134.2**	**59.2**	**14.1**	**65.3**	**190.6**	**29.0**	**25.3**	**499.2**	**1,016.9**	**10.9**	**1,652.3**	**1,112.3**	**2,764.6**

[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.

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 195. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, New Jersey

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.23**	**—**	**2.17**	**1.57**	**0.72**	**1.43**	**5.08**	**2.99**	**0.41**	**2.39**	**2.39**	**4.62**	**2.39**
1971	0.53	—	2.21	1.75	0.75	1.44	5.27	3.04	0.63	2.46	2.46	5.80	2.47
1972	0.40	—	2.19	2.00	0.75	1.40	5.58	2.90	0.64	2.38	2.38	5.67	2.38
1973	0.43	—	2.36	2.14	0.89	1.48	5.33	3.08	0.77	2.59	2.59	6.24	2.59
1974	1.10	—	3.23	2.96	1.54	3.13	7.22	4.55	1.86	4.00	4.00	8.55	4.00
1975	**1.27**	**—**	**3.45**	**3.21**	**2.01**	**3.38**	**7.48**	**4.79**	**1.81**	**4.32**	**4.32**	**11.14**	**4.32**
1976	0.94	—	3.59	3.17	2.18	3.65	7.05	4.95	1.78	4.37	4.37	9.44	4.37
1977	1.89	—	3.97	3.43	2.51	3.42	6.97	5.23	2.04	4.60	4.60	10.67	4.60
1978	—	—	4.29	3.65	2.86	3.86	7.60	5.21	1.88	4.63	4.63	9.96	4.63
1979	—	—	5.73	5.13	3.85	4.00	10.21	7.16	2.98	6.33	6.33	12.13	6.33
1980	**—**	**—**	**9.02**	**7.34**	**6.27**	**5.15**	**14.36**	**9.94**	**3.94**	**8.60**	**8.60**	**14.91**	**8.60**
1981	—	—	10.84	8.76	7.49	5.88	18.00	10.99	4.74	9.48	9.48	19.80	9.49
1982	—	—	10.92	8.29	7.02	7.22	17.25	10.06	4.55	8.56	8.56	17.33	8.57
1983	—	—	10.44	7.75	6.36	7.71	16.98	9.01	4.41	7.74	7.74	19.11	7.74
1984	—	—	10.27	8.37	6.13	7.15	17.63	8.67	4.65	7.53	7.53	20.93	7.53
1985	**—**	**—**	**9.99**	**8.51**	**5.76**	**[R] 12.71**	**17.61**	**8.95**	**4.18**	**7.53**	**7.53**	**21.28**	**7.54**
1986	—	—	8.41	6.96	3.84	[R] 12.00	15.59	6.89	2.16	5.60	5.60	18.46	5.60
1987	—	—	7.55	6.83	4.01	[R] 11.56	[R] 13.58	7.25	2.86	[R] 5.89	[R] 5.89	48.18	[R] 5.91
1988	—	—	7.41	6.80	3.79	[R] 11.39	[R] 14.62	7.58	2.16	6.10	6.10	46.87	6.12
1989	—	—	8.28	7.22	4.34	[R] 10.11	14.48	8.48	2.57	6.71	6.71	47.21	6.73
1990	**—**	**—**	**9.32**	**8.64**	**5.60**	**[R] 10.80**	**14.60**	**9.03**	**2.99**	**7.53**	**7.53**	**[R] 46.79**	**7.55**
1991	—	—	8.71	8.00	4.79	[R] 9.79	[R] 16.80	8.91	2.55	7.09	7.09	[R] 47.82	7.10
1992	—	—	8.54	7.59	4.44	[R] 10.81	[R] 18.32	9.04	2.63	6.97	6.97	[R] 49.08	[R] 6.98
1993	—	—	8.24	7.66	4.15	[R] 11.61	[R] 18.96	8.83	2.35	6.76	6.76	[R] 51.41	6.77
1994	—	4.10	7.96	7.83	3.87	[R] 9.03	[R] 19.11	8.82	2.70	6.86	6.86	[R] 51.88	6.87
1995	**—**	**4.14**	**8.36**	**7.59**	**3.85**	**8.66**	**19.40**	**9.18**	**2.86**	**6.93**	**6.93**	**52.95**	**6.94**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**1.7**	**78.3**	**26.9**	**0.6**	**17.7**	**1,024.9**	**23.3**	**1,173.4**	**1,173.4**	**0.5**	**1,173.9**
1971	(s)	—	1.4	91.0	28.3	0.6	20.1	1,074.3	38.6	1,254.3	1,254.3	0.6	1,255.0
1972	(s)	—	1.3	105.5	30.1	0.6	22.8	1,115.3	46.4	1,322.1	1,322.1	0.7	1,322.7
1973	(s)	—	1.3	124.0	35.9	0.6	20.6	1,213.0	47.3	1,442.6	1,442.6	0.7	1,443.3
1974	(s)	—	2.2	170.5	54.0	1.3	26.7	1,782.2	71.2	2,108.2	2,108.2	1.1	2,109.4
1975	**(s)**	**—**	**1.6**	**166.5**	**64.9**	**1.2**	**27.5**	**1,929.5**	**48.3**	**2,239.5**	**2,239.5**	**1.7**	**2,241.2**
1976	(s)	—	1.6	169.2	69.0	1.4	28.7	2,044.4	80.5	2,394.8	2,394.8	1.4	2,396.2
1977	(s)	—	2.1	195.5	84.4	1.5	30.1	2,110.2	100.9	2,524.7	2,524.7	1.4	2,526.1
1978	—	—	2.4	218.8	99.3	2.4	35.3	2,180.7	91.5	2,630.4	2,630.4	1.1	2,631.4
1979	—	—	2.7	332.3	164.3	1.6	49.5	2,797.7	140.9	3,489.0	3,489.0	1.4	3,490.4
1980	**—**	**—**	**3.8**	**438.1**	**284.6**	**0.8**	**62.1**	**3,774.5**	**298.7**	**4,862.5**	**4,862.5**	**1.6**	**4,864.2**
1981	—	—	4.1	478.1	740.7	4.3	74.6	4,153.0	366.1	5,821.0	5,821.0	2.4	5,823.4
1982	—	—	7.8	502.8	1,342.1	4.3	65.2	3,852.8	334.3	6,109.3	6,109.3	2.1	6,111.4
1983	—	—	8.2	518.0	1,335.0	5.5	67.2	3,634.0	343.4	5,911.3	5,911.3	1.8	5,913.0
1984	—	—	7.0	598.3	1,469.4	5.0	74.4	3,483.6	361.0	5,998.8	5,998.8	4.1	6,002.8
1985	**—**	**—**	**9.3**	**667.6**	**1,430.6**	**[R] 5.1**	**69.3**	**3,493.6**	**289.3**	**[R] 5,964.7**	**[R] 5,964.7**	**6.4**	**[R] 5,971.1**
1986	—	—	6.8	595.0	852.8	[R] 4.5	60.0	2,880.9	195.5	[R] 4,595.4	[R] 4,595.4	5.8	[R] 4,601.2
1987	—	—	7.7	580.8	984.5	[R] 3.4	[R] 59.0	3,045.9	216.5	[R] 4,897.8	[R] 4,897.8	15.4	[R] 4,913.3
1988	—	—	5.7	629.6	876.3	[R] 3.7	61.3	3,184.2	104.1	[R] 4,864.8	[R] 4,864.8	13.6	[R] 4,878.4
1989	—	—	5.3	645.2	1,084.9	[R] 3.1	62.3	3,573.7	145.4	[R] 5,519.9	[R] 5,519.9	16.3	[R] 5,536.2
1990	**—**	**—**	**5.6**	**651.7**	**1,470.6**	**[R] 2.9**	**64.6**	**3,636.8**	**138.9**	**[R] 5,971.1**	**[R] 5,971.1**	**[R] 16.2**	**[R] 5,987.4**
1991	—	—	4.4	583.4	1,183.7	[R] 2.5	66.5	3,676.0	163.4	[R] 5,679.9	[R] 5,679.9	[R] 16.8	[R] 5,696.7
1992	—	—	5.3	606.1	1,160.8	[R] 3.0	[R] 73.9	3,591.8	159.9	[R] 5,600.8	[R] 5,600.8	17.6	[R] 5,618.4
1993	—	—	5.0	646.6	1,131.5	[R] 3.3	[R] 77.9	3,239.8	95.9	[R] 5,200.0	[R] 5,200.0	17.2	[R] 5,217.2
1994	—	(s)	6.3	779.2	1,060.2	[R] 4.4	[R] 82.1	3,749.8	108.4	5,790.5	5,790.5	[R] 17.6	[R] 5,808.1
1995	**—**	**(s)**	**6.1**	**695.1**	**1,093.3**	**2.2**	**81.9**	**3,936.6**	**147.1**	**5,962.3**	**5,962.3**	**17.5**	**5,979.8**

[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 196. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, New Jersey

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	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	0.46	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	1.18	—	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**	**0.18**	**—**	**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	2.83	—	2.26	0.34	—	1.62
1979	1.67	2.56	3.37	4.09	—	3.44	0.32	—	2.23
1980	**1.80**	**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	—	2.36
1983	1.97	4.05	4.80	6.23	—	4.96	0.70	—	2.89
1984	1.97	4.34	4.93	6.67	—	5.11	0.79	—	3.15
1985	**1.92**	**3.97**	**4.41**	**6.24**	**—**	**4.62**	**0.71**	**—**	**1.90**
1986	1.81	2.51	2.38	3.20	—	2.44	0.73	—	1.47
1987	1.77	2.55	3.12	4.10	—	3.29	0.81	—	1.49
1988	1.72	2.25	2.51	3.53	—	2.68	0.68	—	1.30
1989	1.76	2.46	3.03	4.08	—	3.24	0.66	—	1.45
1990	**1.80**	**2.17**	**3.56**	**5.45**	**—**	**3.87**	**0.61**	**—**	**1.20**
1991	1.78	1.96	2.96	4.81	—	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	2.65	4.04	—	2.89	0.58	—	1.01
1994	1.82	2.10	2.84	3.86	—	3.03	0.62	—	1.11
1995	**1.78**	**2.12**	**2.84**	**3.84**	**—**	**3.04**	**0.63**	**—**	**1.17**
	Expenditures in Million Nominal Dollars								
1970	**45.4**	**18.4**	**107.5**	**3.2**	**—**	**110.6**	**7.6**	**—**	**182.1**
1971	46.3	19.0	160.1	12.0	(s)	172.2	6.4	—	243.9
1972	18.0	12.3	188.1	38.7	—	226.8	7.6	—	264.7
1973	41.1	13.5	224.6	58.7	—	283.3	5.8	—	343.7
1974	102.8	10.9	430.6	125.8	—	556.4	8.0	—	678.2
1975	**90.8**	**8.4**	**318.4**	**27.9**	**—**	**346.2**	**6.1**	**—**	**451.6**
1976	98.7	14.8	292.9	39.3	—	332.2	7.3	—	453.0
1977	95.0	13.2	377.7	64.9	—	442.6	22.0	—	572.9
1978	90.7	1.6	366.4	48.9	—	415.4	30.4	—	538.1
1979	96.3	81.7	399.6	51.8	—	451.4	23.1	—	652.6
1980	**120.2**	**247.6**	**389.1**	**96.7**	**—**	**485.8**	**27.9**	**—**	**881.5**
1981	150.0	332.0	346.2	57.5	—	403.7	42.5	—	928.2
1982	155.0	291.1	262.7	29.6	—	292.3	88.2	—	826.6
1983	163.1	406.5	229.5	36.1	—	265.6	48.6	—	883.8
1984	148.4	428.6	256.8	40.1	—	296.9	48.2	—	922.2
1985	**176.8**	**254.5**	**138.7**	**24.4**	**—**	**163.1**	**135.8**	**—**	**730.2**
1986	126.1	95.9	126.9	13.0	—	139.9	117.2	—	479.1
1987	144.2	197.9	91.6	24.5	—	116.1	197.0	—	655.2
1988	126.9	118.4	119.1	34.1	—	153.2	175.7	—	574.2
1989	151.9	140.5	149.5	50.5	—	199.9	162.2	—	654.6
1990	**132.5**	**106.8**	**63.5**	**19.5**	**—**	**82.9**	**155.8**	**—**	**478.0**
1991	99.4	125.0	50.6	16.1	—	66.7	162.9	—	454.0
1992	98.7	84.5	33.7	8.3	—	42.0	129.6	—	354.9
1993	100.9	84.7	28.5	9.1	—	37.6	153.4	—	376.5
1994	91.5	92.5	46.3	14.4	—	60.7	145.5	—	390.1
1995	**96.9**	**100.2**	**23.9**	**8.2**	**—**	**32.1**	**112.9**	**—**	**342.1**

[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, 1970-1995, New Mexico

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	**—**	**0.14**	**0.14**	**0.39**	**1.07**	**0.76**	**1.35**	**2.94**	**0.34**	**[R] 1.21**	**1.92**	**—**	**—**	**0.85**	**0.20**	**5.62**	**1.46**
1971	—	0.15	0.15	0.44	1.10	0.80	1.37	2.96	0.44	[R] 1.56	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	0.56	[R] 1.56	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	[R] 1.54	2.15	—	—	1.00	0.23	6.12	1.89
1974	—	0.19	0.19	0.62	2.26	1.62	2.89	4.24	1.49	[R] 2.34	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**	**[R] 2.50**	**3.43**	**—**	**—**	**1.63**	**0.45**	**7.99**	**2.88**
1976	—	0.26	0.26	0.94	2.64	2.32	3.38	4.76	1.84	[R] 2.54	[R] 3.60	—	—	1.72	0.54	8.73	[R] 2.94
1977	—	0.30	0.30	1.54	2.86	2.71	3.83	5.09	1.93	[R] 2.74	3.88	—	—	2.09	0.70	10.04	3.75
1978	—	0.43	0.43	1.80	3.06	2.92	4.15	5.30	1.86	[R] 2.87	4.14	—	—	2.36	0.81	11.97	4.18
1979	—	0.49	0.49	2.19	4.30	4.08	4.35	6.89	2.70	[R] 3.69	5.37	—	—	2.99	0.99	14.17	5.51
1980	**—**	**0.56**	**0.56**	**2.66**	**6.80**	**6.59**	**5.84**	**9.58**	**3.80**	**[R] 5.97**	**[R] 7.79**	**—**	**—**	**[R] 3.70**	**1.02**	**15.52**	**7.08**
1981	—	0.71	0.71	3.06	8.36	7.67	6.85	10.98	4.07	[R] 7.16	[R] 9.16	—	—	4.56	1.20	17.98	[R] 8.46
1982	—	0.80	0.80	3.84	7.65	7.38	6.04	10.64	4.76	[R] 6.19	[R] 8.80	—	—	4.27	1.23	20.60	[R] 8.98
1983	—	0.84	0.84	4.36	6.84	6.74	8.15	9.18	4.60	[R] 6.06	[R] 7.61	—	—	[R] 3.87	1.14	20.70	[R] 8.26
1984	—	0.94	0.94	4.47	6.84	6.36	7.54	9.11	4.51	[R] 6.76	[R] 7.68	—	—	[R] 4.11	1.23	20.32	[R] 8.53
1985	**—**	**1.09**	**1.09**	**4.60**	**6.54**	**6.24**	**[R] 8.29**	**9.14**	**3.98**	**[R] 6.07**	**[R] 7.79**	**—**	**—**	**[R] 3.98**	**1.33**	**21.20**	**[R] 9.21**
1986	—	1.14	1.14	4.24	5.15	4.39	[R] 7.01	7.02	2.01	[R] 5.25	[R] 6.07	—	—	[R] 3.45	1.31	22.14	[R] 8.02
1987	—	1.21	1.21	3.68	5.72	4.28	[R] 7.29	7.46	2.56	[R] 4.21	[R] 6.34	—	—	3.49	1.29	21.83	[R] 8.00
1988	—	1.18	1.18	3.44	5.50	4.17	[R] 6.46	7.44	1.87	[R] 4.31	[R] 6.27	—	—	[R] 3.39	1.25	21.76	[R] 7.78
1989	—	1.24	1.24	3.61	6.42	4.79	[R] 6.66	8.24	2.16	[R] 4.32	[R] 7.01	—	—	3.64	1.32	21.55	[R] 8.42
1990	**—**	**1.32**	**1.32**	**3.84**	**7.48**	**6.01**	**[R] 8.32**	**9.23**	**2.75**	**[R] 4.50**	**[R] 8.04**	**—**	**[d] [R] 3.75**	**[d] [R] 4.18**	**1.37**	**[R] 20.98**	**[d] [R] 9.15**
1991	—	1.38	1.38	3.62	6.99	4.84	[R] 6.32	9.10	2.27	[R] 4.89	[R] 7.50	—	[R] 3.76	[R] 4.27	1.42	21.09	[R] 8.68
1992	—	1.32	1.32	3.67	7.44	4.57	[R] 4.62	9.33	2.09	[R] 4.44	[R] 7.36	—	[R] 3.79	[R] 4.06	1.38	21.03	[R] 8.55
1993	—	1.37	1.37	3.91	7.67	4.50	[R] 5.47	9.87	1.96	[R] 4.26	[R] 7.74	—	[R] 3.75	4.25	1.45	[R] 21.39	[R] 8.96
1994	—	1.41	1.41	3.86	7.45	4.04	[R] 5.62	9.64	2.12	[R] 4.41	[R] 7.73	—	[R] 3.71	[R] 4.15	1.47	[R] 21.10	[R] 9.17
1995	**—**	**1.42**	**1.42**	**3.23**	**6.60**	**4.16**	**5.60**	**9.44**	**2.43**	**4.75**	**7.67**	**—**	**3.75**	**3.91**	**1.43**	**20.12**	**8.94**
	Expenditures in Million Nominal Dollars																
1970	**—**	**14.3**	**14.3**	**80.7**	**33.6**	**12.9**	**22.0**	**202.9**	**0.4**	**[R] 20.5**	**292.3**	**—**	**—**	**[R] 387.4**	**-32.0**	**106.6**	**[R] 461.9**
1971	—	18.3	18.3	90.4	34.5	13.0	21.8	220.0	1.1	[R] 19.3	[R] 309.7	—	—	[R] 418.4	-37.1	117.5	[R] 498.9
1972	—	19.0	19.0	97.5	43.0	12.4	25.7	230.8	2.3	[R] 21.4	[R] 335.6	—	—	[R] 452.1	-42.4	133.1	[R] 542.9
1973	—	21.2	21.2	81.8	61.5	14.0	34.7	258.2	7.1	[R] 25.8	[R] 401.4	—	—	[R] 504.3	-47.8	146.3	[R] 602.8
1974	—	27.3	27.3	116.4	91.0	24.4	44.6	350.0	21.7	[R] 38.5	[R] 570.3	—	—	[R] 714.0	-72.4	166.9	[R] 808.6
1975	**—**	**30.0**	**30.0**	**134.8**	**94.7**	**30.9**	**41.3**	**409.2**	**31.0**	**[R] 46.4**	**[R] 653.7**	**—**	**—**	**[R] 818.4**	**-95.4**	**179.5**	**[R] 902.6**
1976	—	35.8	35.8	194.4	112.8	31.0	46.3	435.6	27.4	[R] 43.7	[R] 696.8	—	—	[R] 927.0	-115.9	212.4	[R] 1,023.5
1977	—	45.6	45.6	253.0	146.6	38.5	52.9	481.7	26.4	[R] 45.9	[R] 791.9	—	—	[R] 1,090.5	-161.7	257.1	[R] 1,185.9
1978	—	62.8	62.8	282.8	169.4	37.4	53.1	527.3	14.6	[R] 52.5	[R] 854.2	—	—	[R] 1,199.8	-173.1	324.9	[R] 1,351.6
1979	—	74.9	74.9	291.8	236.0	59.1	70.2	650.4	17.3	[R] 71.6	[R] 1,104.5	—	—	[R] 1,471.2	-215.3	410.5	[R] 1,666.5
1980	**—**	**114.2**	**114.2**	**394.1**	**315.6**	**96.0**	**98.6**	**850.8**	**23.5**	**[R] 123.8**	**[R] 1,508.3**	**—**	**—**	**[R] 2,016.6**	**-268.0**	**460.2**	**[R] 2,208.8**
1981	—	139.3	139.3	408.4	605.3	106.7	77.6	978.8	19.4	[R] 120.1	[R] 1,907.9	—	—	[R] 2,455.6	-301.6	526.8	[R] 2,680.8
1982	—	179.6	179.6	414.4	355.2	105.6	59.0	958.0	22.3	[R] 109.5	[R] 1,609.7	—	—	[R] 2,203.7	-333.4	605.2	[R] 2,475.6
1983	—	222.6	222.6	410.7	268.9	96.9	80.4	824.3	92.3	[R] 168.4	[R] 1,531.3	—	—	[R] 2,164.6	-334.6	608.3	[R] 2,438.3
1984	—	237.1	237.1	434.3	284.8	104.1	154.3	835.4	59.7	[R] 214.2	[R] 1,652.6	—	—	[R] 2,324.0	-346.8	746.5	[R] 2,723.7
1985	**—**	**293.7**	**293.7**	**350.8**	**324.4**	**97.7**	**[R] 89.7**	**859.3**	**19.0**	**[R] 99.1**	**[R] 1,489.3**	**—**	**—**	**[R] 2,133.8**	**-392.6**	**836.0**	**[R] 2,577.2**
1986	—	274.3	274.3	303.8	291.5	66.8	[R] 44.8	674.8	2.7	[R] 87.0	[R] 1,167.6	—	—	[R] 1,745.7	-342.2	874.2	[R] 2,277.7
1987	—	315.1	315.1	280.8	354.5	70.0	[R] 41.0	740.5	1.2	[R] 82.7	[R] 1,289.9	—	—	[R] 1,885.8	-359.9	893.3	[R] 2,419.2
1988	—	312.9	312.9	320.8	327.9	64.1	[R] 35.3	755.8	1.2	[R] 85.7	[R] 1,269.9	—	—	[R] 1,903.6	-359.3	923.0	[R] 2,467.3
1989	—	346.0	346.0	355.4	335.7	74.7	[R] 94.9	817.1	1.8	[R] 74.3	[R] 1,398.6	—	—	[R] 2,100.0	-407.0	958.2	[R] 2,651.2
1990	**—**	**363.4**	**363.4**	**348.8**	**397.6**	**96.2**	**[R] 239.0**	**898.7**	**2.0**	**[R] 72.8**	**[R] 1,706.3**	**—**	**[d] 7.3**	**[d] [R] 2,425.8**	**-414.2**	**[R] 962.7**	**[d] [R] 2,974.3**
1991	—	322.0	322.0	352.7	384.3	65.2	[R] 267.7	914.9	1.1	[R] 84.9	[R] 1,718.1	—	[R] 7.6	[R] 2,400.4	-371.1	987.1	[R] 3,016.4
1992	—	353.8	353.8	341.2	432.2	71.3	[R] 174.8	952.7	0.8	[R] 87.8	[R] 1,719.4	—	8.0	[R] 2,422.4	-398.9	[R] 1,009.7	[R] 3,033.1
1993	—	369.6	369.6	388.1	367.6	82.5	[R] 189.3	1,057.2	1.5	[R] 100.3	[R] 1,798.4	—	7.6	[R] 2,563.7	-431.5	[R] 1,057.7	[R] 3,189.9
1994	—	392.1	392.1	[R] 379.4	315.6	58.9	[R] 178.8	1,054.2	1.8	[R] 93.9	[R] 1,703.3	—	7.5	[R] 2,482.3	-455.1	[R] 1,100.3	[R] 3,127.5
1995	**—**	**389.9**	**389.9**	**319.5**	**182.1**	**52.3**	**166.0**	**1,042.3**	**2.1**	**92.6**	**1,537.3**	**—**	**8.2**	**2,254.9**	**-438.9**	**1,084.9**	**2,900.9**

[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 198. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, New Mexico

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**0.90**	**0.86**	**0.98**	**1.49**	**1.61**	**1.60**	**—**	**1.00**	**8.15**	**1.78**
1971	0.84	0.88	1.06	1.49	1.58	1.58	—	1.00	8.17	1.83
1972	—	0.89	1.07	1.52	1.68	1.67	—	1.03	8.41	1.89
1973	—	0.93	1.28	1.78	3.22	3.14	—	1.40	8.54	2.62
1974	—	1.16	2.45	2.87	3.43	3.41	—	1.57	9.33	2.91
1975	**—**	**1.24**	**2.82**	**3.05**	**4.16**	**4.12**	**—**	**1.64**	**10.47**	**3.06**
1976	—	1.28	3.03	3.18	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	14.66	5.03
1979	2.97	2.56	4.55	5.28	5.23	5.23	—	2.94	16.98	5.62
1980	**2.54**	**3.17**	**6.79**	**7.95**	**7.19**	**7.29**	**—**	**3.78**	**18.89**	**6.66**
1981	3.42	3.67	8.07	9.79	8.19	8.40	—	4.24	21.07	7.83
1982	3.18	4.70	7.76	9.79	4.93	5.98	—	4.90	23.70	8.66
1983	2.91	5.28	4.96	9.10	8.84	8.85	—	5.94	23.75	9.58
1984	2.92	5.55	7.32	9.12	9.33	9.18	—	6.06	23.74	10.20
1985	**2.83**	**5.59**	**6.92**	**8.62**	**8.62**	**8.59**	**—**	**6.33**	**25.48**	**11.10**
1986	2.78	5.28	5.09	6.34	7.16	7.03	—	5.50	26.43	11.01
1987	2.40	4.61	4.81	5.99	7.78	7.66	—	4.96	26.39	10.34
1988	2.12	4.87	4.74	5.91	6.51	6.46	—	5.03	26.42	10.54
1989	2.43	5.45	5.34	6.65	7.48	7.44	—	5.73	26.41	11.23
1990	**2.41**	**5.37**	**6.47**	**8.06**	**9.28**	**9.24**	**[d] 4.75**	**[d] 5.99**	**[R] 26.19**	**[d] 10.47**
1991	2.36	5.18	5.96	7.42	10.46	10.39	4.75	5.85	26.63	10.54
1992	2.43	4.55	5.40	6.72	10.40	10.27	4.75	5.17	[R] 26.56	[R] 10.06
1993	2.16	5.24	5.71	7.11	9.85	9.78	4.75	5.57	[R] 26.90	[R] 10.63
1994	2.25	5.61	5.41	6.73	[R] 9.95	[R] 9.85	4.75	[R] 5.92	[R] 26.78	[R] 11.29
1995	**2.24**	**4.94**	**5.22**	**6.50**	**9.87**	**9.82**	**4.75**	**5.38**	**26.16**	**10.87**
	Expenditures in Million Nominal Dollars									
1970	**(s)**	**28.6**	**(s)**	**0.2**	**12.2**	**12.4**	**—**	**41.0**	**41.0**	**82.0**
1971	(s)	30.9	(s)	0.2	11.1	11.3	—	42.3	45.4	87.7
1972	—	33.7	(s)	0.2	13.1	13.4	—	47.1	50.9	98.0
1973	—	23.8	(s)	0.6	21.1	21.8	—	45.6	57.0	102.6
1974	—	31.4	0.1	0.5	20.4	21.0	—	52.4	65.0	117.4
1975	**—**	**37.0**	**0.1**	**0.5**	**19.6**	**20.2**	**—**	**57.2**	**69.9**	**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	92.1	169.9
1978	—	64.6	0.1	0.8	20.8	21.7	—	86.3	112.5	198.8
1979	0.1	76.2	0.1	1.3	24.2	25.6	—	101.8	138.8	240.6
1980	**0.8**	**95.0**	**0.4**	**6.0**	**31.9**	**38.3**	**—**	**134.1**	**158.1**	**292.1**
1981	0.1	95.2	0.8	4.7	24.5	30.0	—	125.4	169.4	294.8
1982	0.3	130.8	1.1	9.9	19.2	30.2	—	161.2	195.6	356.8
1983	0.2	146.3	0.5	14.8	40.9	56.2	—	202.7	208.2	410.9
1984	0.2	161.5	0.7	23.3	19.9	43.9	—	205.5	246.2	451.7
1985	**0.2**	**133.4**	**0.8**	**2.0**	**64.9**	**67.8**	**—**	**201.3**	**269.4**	**470.7**
1986	0.1	137.3	1.0	0.8	26.1	27.9	—	165.3	283.5	448.7
1987	0.1	137.1	0.4	0.7	28.9	30.0	—	167.2	297.7	465.0
1988	(s)	145.6	0.3	0.4	21.4	22.2	—	167.8	306.0	473.8
1989	0.2	152.4	0.3	0.4	33.7	34.4	—	186.9	312.0	498.9
1990	**0.1**	**159.6**	**0.5**	**0.2**	**57.4**	**58.0**	**[d] 6.3**	**[d] 223.9**	**[R] 318.7**	**[d R] 542.6**
1991	0.1	160.7	0.3	0.3	51.0	51.6	6.6	219.0	333.0	552.0
1992	0.2	149.3	0.5	0.2	41.3	41.9	6.9	198.3	[R] 343.6	[R] 541.9
1993	0.2	173.9	0.2	0.2	28.7	29.1	6.5	209.6	[R] 356.5	[R] 566.2
1994	0.1	173.2	0.2	0.1	[R] 27.9	[R] 28.3	6.4	[R] 208.0	[R] 372.7	[R] 580.7
1995	**0.1**	**145.0**	**0.1**	**0.2**	**30.8**	**31.0**	**7.1**	**183.3**	**368.1**	**551.4**

[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.

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 199. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, New Mexico

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.56**	**0.44**	**0.92**	**1.01**	**1.12**	**2.94**	**—**	**1.34**	**0.50**	**5.78**	**1.37**
1971	0.53	0.46	0.99	1.07	1.20	2.96	—	1.40	0.52	5.86	1.46
1972	—	0.48	1.00	1.07	1.22	2.91	—	1.39	0.54	6.16	1.64
1973	—	0.49	1.20	1.32	1.38	3.06	—	1.53	0.58	6.23	1.98
1974	—	0.67	2.33	1.94	2.55	4.24	—	2.75	0.84	6.96	2.41
1975	**—**	**0.74**	**2.62**	**2.22**	**2.60**	**4.72**	**—**	**3.03**	**0.94**	**7.90**	**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	3.87
1978	—	1.89	2.88	2.93	3.72	5.30	—	3.53	2.05	11.72	4.59
1979	1.32	2.16	4.40	3.56	3.99	6.89	—	4.79	2.38	13.77	5.41
1980	**0.88**	**2.79**	**6.57**	**6.80**	**5.36**	**9.58**	**—**	**6.85**	**3.50**	**15.95**	**6.79**
1981	1.27	3.21	7.81	8.38	6.37	10.98	—	8.17	4.56	18.32	8.34
1982	1.61	4.22	7.51	7.34	6.79	10.64	—	7.76	4.88	20.86	9.60
1983	1.62	4.61	6.11	6.71	7.54	9.18	4.03	6.03	5.15	20.47	8.77
1984	1.42	4.67	6.13	7.86	7.33	9.11	4.51	6.93	5.49	20.97	9.97
1985	**1.41**	**5.34**	**6.11**	**7.46**	**[R] 7.55**	**9.14**	**4.00**	**[R] 6.95**	**[R] 5.66**	**22.57**	**[R] 12.54**
1986	1.38	4.04	3.62	4.55	[R] 6.82	7.02	—	[R] 4.76	[R] 4.13	23.41	11.61
1987	1.40	3.67	4.07	5.31	[R] 6.35	7.46	—	[R] 4.76	[R] 3.89	22.49	11.22
1988	1.33	3.08	3.66	4.71	[R] 6.40	7.44	—	[R] 4.54	[R] 3.26	23.10	9.68
1989	1.18	3.54	4.18	5.58	[R] 6.28	8.24	—	[R] 5.16	3.74	22.68	10.57
1990	**1.30**	**4.19**	**5.52**	**7.17**	**[R] 8.05**	**9.23**	**—**	**[R] 6.50**	**[R] 4.60**	**[R] 22.21**	**11.55**
1991	1.36	3.98	4.82	6.24	[R] 5.78	9.10	—	[R] 5.65	[R] 4.21	[R] 22.57	[R] 11.50
1992	1.46	3.22	4.47	5.94	[R] 3.94	9.33	—	[R] 5.32	3.39	[R] 22.47	[R] 10.88
1993	1.33	4.13	4.35	5.79	[R] 5.06	9.87	—	[R] 4.70	4.17	[R] 22.98	11.70
1994	1.37	4.41	4.02	[R] 5.47	[R] 8.67	9.64	—	[R] 5.57	[R] 4.48	22.71	12.78
1995	**1.29**	**3.66**	**4.11**	**5.44**	**9.08**	**9.44**	**—**	**5.90**	**3.81**	**21.85**	**12.15**
	Expenditures in Million Nominal Dollars										
1970	**(s)**	**15.7**	**0.6**	**(s)**	**1.5**	**1.1**	**—**	**3.2**	**19.0**	**43.7**	**62.7**
1971	(s)	16.9	0.7	(s)	1.5	1.1	—	3.3	20.2	48.8	69.0
1972	—	17.0	0.8	(s)	1.7	1.1	—	3.6	20.6	56.4	77.0
1973	—	13.4	1.4	0.1	1.6	1.2	—	4.3	17.7	62.2	79.9
1974	—	18.1	2.3	0.1	2.7	1.9	—	6.9	25.0	70.7	95.7
1975	**—**	**18.2**	**2.7**	**0.1**	**2.2**	**2.3**	**—**	**7.2**	**25.4**	**74.0**	**99.4**
1976	—	36.1	3.3	0.1	2.4	2.4	—	8.1	44.2	87.3	131.6
1977	—	42.7	5.3	0.2	3.0	2.6	—	11.1	53.8	105.6	159.4
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	3.8	—	12.1	72.9	153.3	226.3
1980	**0.5**	**71.7**	**5.1**	**25.4**	**4.2**	**5.5**	**—**	**40.1**	**112.4**	**184.0**	**296.3**
1981	0.1	69.3	31.0	25.0	3.4	6.9	—	66.2	135.6	206.3	341.9
1982	0.3	96.3	24.4	6.4	4.7	6.9	—	42.4	138.9	248.7	387.6
1983	0.2	107.7	17.3	45.1	6.2	5.1	15.7	89.4	197.3	242.4	439.7
1984	0.1	113.8	17.1	61.6	2.8	4.6	11.7	97.7	211.6	329.5	541.1
1985	**0.1**	**97.2**	**16.1**	**2.6**	**[R] 10.0**	**5.4**	**0.1**	**[R] 34.2**	**[R] 131.6**	**359.2**	**[R] 490.8**
1986	0.1	90.2	8.5	0.3	[R] 4.4	4.3	—	[R] 17.6	[R] 107.9	387.8	[R] 495.7
1987	0.1	79.2	16.8	0.5	[R] 4.2	4.8	—	[R] 26.2	[R] 105.5	396.8	[R] 502.3
1988	0.1	102.7	12.0	0.8	[R] 3.7	4.6	—	[R] 21.1	[R] 123.9	420.0	[R] 543.9
1989	0.1	105.9	12.3	0.5	[R] 5.0	5.2	—	[R] 22.9	[R] 129.0	441.0	[R] 570.0
1990	**0.1**	**105.0**	**20.2**	**0.6**	**[R] 8.8**	**6.1**	**—**	**[R] 35.6**	**[R] 140.7**	**[R] 442.8**	**[R] 583.5**
1991	0.1	103.7	13.0	0.7	[R] 5.0	5.4	—	[R] 24.0	[R] 127.9	[R] 452.2	[R] 580.1
1992	0.2	93.7	6.3	0.3	[R] 2.8	4.9	—	[R] 14.2	[R] 108.1	[R] 462.4	[R] 570.5
1993	0.2	120.2	8.6	0.2	[R] 2.6	0.9	—	[R] 12.3	[R] 132.7	[R] 488.1	[R] 620.8
1994	0.2	110.1	5.0	0.1	[R] 4.3	0.9	—	[R] 10.3	[R] 120.5	511.0	[R] 631.5
1995	**0.1**	**89.5**	**4.8**	**0.1**	**5.0**	**0.9**	**—**	**10.8**	**100.4**	**495.0**	**595.4**

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

Table 200. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, New Mexico

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.58**	**0.95**	**1.01**	**1.12**	**5.08**	**2.94**	**0.41**	**[R] 0.51**	**1.01**	**—**	**0.49**	**3.44**	**0.65**
1971	—	0.53	0.53	0.30	0.82	1.00	1.07	1.20	5.27	2.96	0.52	[R] 0.60	1.17	—	0.53	3.41	0.69
1972	—	0.58	0.58	0.31	0.82	1.00	1.07	1.22	5.58	2.91	0.52	[R] 0.57	1.14	—	0.57	3.58	0.74
1973	—	0.58	0.58	0.35	0.85	1.23	1.32	1.38	5.33	3.06	0.76	0.59	[R] 1.23	—	0.73	3.74	[R] 0.92
1974	—	0.89	0.89	0.51	1.75	1.76	1.94	2.55	7.22	4.24	1.40	[R] 0.89	[R] 1.93	—	1.09	4.60	1.30
1975	**—**	**—**	**—**	**0.58**	**1.84**	**2.05**	**2.22**	**2.60**	**7.48**	**4.72**	**1.60**	**[R] 1.38**	**[R] 2.12**	**—**	**1.27**	**5.54**	**1.52**
1976	—	1.17	1.17	0.65	1.68	2.34	2.55	2.93	7.05	4.76	1.84	[R] 1.48	[R] 2.30	—	[R] 1.37	6.53	1.69
1977	—	1.15	1.15	1.38	1.78	2.45	2.74	3.41	6.97	5.09	1.90	[R] 1.77	[R] 2.50	—	2.01	7.89	2.48
1978	—	1.26	1.26	1.62	1.94	2.61	2.93	3.72	7.60	5.30	2.02	[R] 1.48	2.68	—	2.20	9.91	2.92
1979	—	1.32	1.32	1.99	2.47	3.46	3.56	3.99	10.21	6.89	2.55	[R] 1.99	[R] 3.45	—	3.10	12.25	[R] 4.27
1980	**—**	**0.88**	**0.88**	**2.46**	**3.67**	**6.42**	**6.80**	**5.36**	**14.36**	**9.58**	**3.82**	**[R] 2.61**	**[R] 5.32**	**—**	**4.06**	**12.11**	**4.95**
1981	—	1.27	1.27	2.84	4.48	7.95	8.38	6.37	18.00	10.98	4.03	[R] 3.01	[R] 6.64	—	[R] 4.96	15.11	[R] 6.13
1982	—	1.61	1.61	3.44	4.16	6.63	7.34	6.79	17.25	10.64	4.76	[R] 2.22	[R] 5.66	—	[R] 4.87	17.47	[R] 6.94
1983	—	1.62	1.62	3.74	4.16	6.39	6.71	7.54	16.98	9.18	4.78	[R] 1.86	[R] 5.43	—	[R] 4.98	17.96	[R] 6.50
1984	—	1.42	1.42	3.86	4.50	6.40	7.86	7.33	17.63	9.11	4.51	[R] 1.90	[R] 6.04	—	[R] 5.57	16.04	[R] 6.84
1985	**—**	**1.41**	**1.41**	**3.67**	**4.79**	**6.07**	**7.46**	**[R] 7.55**	**17.61**	**9.14**	**4.00**	**[R] 2.05**	**[R] 5.67**	**—**	**[R] 5.29**	**16.01**	**[R] 7.46**
1986	—	1.38	1.38	3.04	4.35	3.70	4.55	[R] 6.82	15.59	7.02	2.09	[R] 1.92	[R] 4.15	—	[R] 3.98	16.64	[R] 6.64
1987	—	1.40	1.40	3.30	3.19	4.32	5.31	[R] 6.35	[R] 13.58	7.46	2.86	[R] 2.02	[R] 4.12	—	[R] 3.97	16.56	[R] 6.36
1988	—	1.33	1.33	3.16	3.39	3.84	4.71	[R] 6.40	[R] 14.62	7.44	1.81	[R] 1.84	[R] 3.92	—	[R] 3.74	15.56	[R] 6.06
1989	—	1.18	1.18	2.97	2.87	4.55	5.58	[R] 6.28	14.48	8.24	1.96	[R] 2.22	[R] 4.58	—	[R] 4.14	15.53	[R] 6.42
1990	**—**	**1.30**	**1.30**	**3.49**	**2.76**	**5.84**	**7.17**	**[R] 8.05**	**14.60**	**9.23**	**2.62**	**[R] 2.63**	**[R] 6.15**	**[d] [R] 1.63**	**[d] [R] 5.62**	**[R] 14.59**	**[d] [R] 7.26**
1991	—	1.36	1.36	3.39	3.45	5.08	6.24	[R] 5.78	[R] 16.80	9.10	2.01	[R] 2.78	[R] 5.27	[R] 1.63	[R] 4.93	[R] 14.17	[R] 6.31
1992	—	1.46	1.46	6.58	2.99	4.84	5.94	[R] 3.94	[R] 18.32	9.33	2.05	[R] 2.35	[R] 4.08	1.60	[R] 4.30	[R] 14.06	[R] 5.90
1993	—	1.33	1.33	3.66	3.12	4.72	5.79	[R] 5.06	[R] 18.96	9.87	1.94	[R] 2.00	[R] 4.63	1.61	[R] 4.43	[R] 14.25	[R] 6.05
1994	—	1.37	1.37	3.39	3.05	4.45	5.47	[R] 5.08	[R] 19.11	9.64	2.11	[R] 2.05	[R] 4.64	[R] 1.60	[R] 4.37	[R] 13.77	[R] 6.09
1995	**—**	**1.29**	**1.29**	**2.77**	**3.30**	**4.43**	**5.44**	**4.97**	**19.40**	**9.44**	**2.43**	**2.28**	**4.70**	**1.60**	**4.26**	**12.91**	**5.93**
	Expenditures in Million Nominal Dollars																
1970	**—**	**0.1**	**0.1**	**18.7**	**4.6**	**11.7**	**5.5**	**7.3**	**3.2**	**3.0**	**0.3**	**0.5**	**[R] 36.1**	**—**	**[R] 55.0**	**21.9**	**76.8**
1971	—	0.1	0.1	24.7	4.4	11.6	3.7	7.9	3.7	3.1	0.2	[R] 0.7	[R] 35.3	—	[R] 60.1	23.3	[R] 83.4
1972	—	0.1	0.1	25.0	5.3	13.9	3.8	9.4	4.2	2.9	0.7	[R] 0.7	[R] 41.0	—	[R] 66.0	25.8	[R] 91.8
1973	—	0.2	0.2	21.2	5.6	20.5	8.1	10.7	3.4	2.5	3.8	[R] 0.8	[R] 55.5	—	[R] 76.8	27.2	[R] 104.0
1974	—	0.1	0.1	32.7	15.8	22.3	6.5	19.4	4.4	3.4	11.1	[R] 1.4	[R] 84.3	—	[R] 117.2	31.2	[R] 148.4
1975	**—**	**—**	**—**	**32.8**	**19.9**	**27.5**	**7.8**	**17.5**	**5.4**	**3.6**	**12.8**	**[R] 2.3**	**[R] 96.9**	**—**	**[R] 129.7**	**35.6**	**[R] 165.4**
1976	—	0.2	0.2	40.0	16.3	33.0	7.6	22.3	5.7	3.4	16.2	[R] 2.6	[R] 107.0	—	[R] 147.2	46.5	[R] 193.7
1977	—	0.4	0.4	52.2	14.2	46.4	12.2	24.2	5.0	3.4	14.3	[R] 2.9	[R] 122.6	—	[R] 175.3	59.5	[R] 234.8
1978	—	2.2	2.2	58.9	18.4	46.3	12.4	26.6	5.9	2.9	10.4	[R] 2.6	[R] 125.4	—	[R] 186.5	86.2	[R] 272.6
1979	—	2.7	2.7	25.9	23.3	72.0	17.0	42.6	8.2	3.7	3.6	[R] 4.4	[R] 175.0	—	[R] 203.5	118.4	[R] 321.9
1980	**—**	**0.2**	**0.2**	**84.5**	**27.7**	**82.1**	**21.1**	**61.9**	**10.3**	**4.2**	**19.4**	**[R] 7.2**	**[R] 233.9**	**—**	**[R] 318.6**	**118.1**	**[R] 436.7**
1981	—	3.4	3.4	85.0	34.6	161.2	7.4	46.8	12.4	4.2	17.8	[R] 6.3	[R] 290.7	—	[R] 379.2	151.1	[R] 530.3
1982	—	4.4	4.4	40.2	40.0	62.7	10.6	32.9	10.8	3.0	17.3	[R] 5.2	[R] 182.6	—	[R] 227.1	160.9	[R] 388.1
1983	—	3.4	3.4	47.6	49.0	92.0	17.7	30.4	11.2	2.3	72.8	[R] 4.9	[R] 280.2	—	[R] 331.3	157.8	[R] 489.0
1984	—	2.3	2.3	50.7	56.8	90.5	28.5	129.5	12.4	10.1	45.4	[R] 5.1	[R] 378.3	—	[R] 431.3	170.8	[R] 602.1
1985	**—**	**2.5**	**2.5**	**21.1**	**47.7**	**129.7**	**3.8**	**[R] 12.1**	**11.5**	**17.3**	**18.0**	**[R] 6.1**	**[R] 246.2**	**—**	**[R] 269.8**	**207.5**	**[R] 477.3**
1986	—	2.8	2.8	6.8	46.7	81.7	0.9	[R] 12.0	10.0	12.6	2.3	[R] 6.0	[R] 172.2	—	[R] 181.8	202.9	[R] 384.7
1987	—	1.5	1.5	19.8	43.7	101.2	0.7	[R] 6.2	[R] 9.8	12.9	0.8	[R] 6.3	[R] 181.5	—	[R] 202.8	198.8	[R] 401.6
1988	—	1.5	1.5	26.3	47.6	79.8	0.2	[R] 8.4	10.2	13.0	0.7	[R] 6.1	[R] 166.0	—	[R] 193.8	197.0	[R] 390.8
1989	—	1.1	1.1	36.8	31.7	59.3	1.5	[R] 53.7	10.3	15.0	1.2	[R] 7.3	[R] 180.2	—	[R] 218.0	205.2	[R] 423.2
1990	**—**	**1.1**	**1.1**	**34.1**	**26.6**	**74.3**	**1.5**	**[R] 169.4**	**10.7**	**15.9**	**1.4**	**[R] 9.8**	**[R] 309.6**	**[d] 1.0**	**[d] [R] 345.9**	**[R] 201.2**	**[d] [R] 547.1**
1991	—	1.2	1.2	39.6	34.9	69.9	1.4	[R] 210.0	11.0	17.2	0.8	[R] 12.7	[R] 358.0	1.1	[R] 399.9	[R] 201.9	[R] 601.8
1992	—	1.4	1.4	53.5	37.2	53.8	0.3	[R] 129.3	[R] 12.3	16.1	0.7	[R] 11.4	[R] 261.0	[R] 1.0	[R] 316.9	[R] 203.7	[R] 520.7
1993	—	1.7	1.7	32.2	50.4	41.6	0.2	[R] 156.2	12.9	29.1	1.5	[R] 10.0	[R] 302.0	[R] 1.0	[R] 336.9	[R] 213.0	[R] 550.0
1994	—	2.0	2.0	[R] 31.8	42.8	32.0	0.1	[R] 142.2	[R] 13.6	30.4	1.8	[R] 10.0	[R] 273.0	1.1	[R] 308.0	[R] 216.5	[R] 524.5
1995	**—**	**2.2**	**2.2**	**34.5**	**40.7**	**40.6**	**0.2**	**127.2**	**13.6**	**32.4**	**2.1**	**11.0**	**267.8**	**1.1**	**305.6**	**221.8**	**527.4**

[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 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 201. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, New Mexico

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.56**	**—**	**2.17**	**1.15**	**0.76**	**1.12**	**5.08**	**2.94**	**0.38**	**2.28**	**2.28**	**—**	**2.28**
1971	0.53	—	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	5.58	2.91	—	2.31	2.31	—	2.31
1973	0.58	—	2.36	1.48	0.94	1.38	5.33	3.06	—	2.49	2.49	—	2.49
1974	0.89	—	3.23	2.50	1.62	2.55	7.22	4.24	—	3.57	3.57	—	3.57
1975	**—**	**—**	**3.45**	**2.62**	**2.12**	**2.60**	**7.48**	**4.72**	**—**	**4.03**	**4.03**	**—**	**4.03**
1976	1.17	—	3.59	2.79	2.32	2.93	7.05	4.76	—	4.12	4.12	—	4.12
1977	1.15	—	3.97	3.11	2.71	3.41	6.97	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	4.82	4.08	3.99	10.21	6.89	—	6.16	6.16	—	6.16
1980	**—**	**—**	**9.02**	**6.97**	**6.59**	**5.36**	**14.36**	**9.58**	**—**	**8.69**	**8.69**	**—**	**8.69**
1981	—	—	10.84	8.59	7.67	6.37	18.00	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	6.74	7.54	16.98	9.18	4.53	8.65	8.65	—	8.65
1984	—	—	10.27	7.19	6.36	7.33	17.63	9.11	4.51	8.50	8.50	—	8.50
1985	**—**	**—**	**9.99**	**6.98**	**6.24**	**[R] 7.55**	**17.61**	**9.14**	**—**	**8.47**	**8.47**	**—**	**8.47**
1986	—	—	8.41	6.29	4.39	[R] 6.82	15.59	7.02	—	6.65	6.65	—	6.65
1987	—	—	7.55	6.89	4.28	[R] 6.35	[R] 13.58	7.46	—	[R] 7.03	[R] 7.03	—	[R] 7.03
1988	—	—	7.41	6.67	4.17	[R] 6.40	[R] 14.62	7.44	—	6.99	6.99	—	6.99
1989	—	—	8.28	7.30	4.79	[R] 6.28	14.48	8.24	—	7.70	7.70	—	7.70
1990	**—**	**—**	**9.32**	**8.26**	**6.01**	**[R] 8.05**	**14.60**	**9.23**	**—**	**8.69**	**8.69**	**—**	**8.69**
1991	—	—	8.71	7.85	4.84	[R] 5.78	[R] 16.80	9.10	—	8.46	8.46	—	8.46
1992	—	3.48	8.54	8.19	4.57	[R] 3.94	[R] 18.32	9.33	—	[R] 8.61	[R] 8.61	—	[R] 8.61
1993	—	3.42	8.24	8.59	4.50	[R] 5.06	[R] 18.96	9.87	—	9.02	9.02	—	9.02
1994	—	5.11	7.96	8.24	4.04	[R] 8.44	[R] 19.11	9.64	—	8.89	[R] 8.89	—	[R] 8.89
1995	**—**	**3.78**	**8.36**	**7.97**	**4.16**	**8.74**	**19.40**	**9.44**	**—**	**8.87**	**8.87**	**—**	**8.87**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**1.2**	**21.2**	**12.9**	**1.0**	**5.1**	**198.9**	**(s)**	**240.4**	**240.4**	**—**	**240.4**
1971	(s)	—	1.3	22.1	13.0	1.3	5.3	215.8	(s)	258.8	258.8	—	258.8
1972	(s)	—	1.2	28.2	12.4	1.5	6.0	226.9	—	276.1	276.1	—	276.1
1973	(s)	—	1.0	39.3	14.0	1.2	6.3	254.5	—	316.3	316.3	—	316.3
1974	(s)	—	1.7	66.0	24.4	2.1	8.1	344.7	—	447.1	447.1	—	447.1
1975	**—**	**—**	**1.4**	**64.0**	**30.9**	**2.0**	**9.0**	**403.4**	**—**	**510.8**	**510.8**	**—**	**510.8**
1976	(s)	—	1.4	75.9	31.0	2.2	9.4	429.9	—	549.8	549.8	—	549.8
1977	(s)	—	1.6	94.3	38.5	2.8	9.0	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	0.1	14.8	642.8	—	877.7	877.7	—	877.7
1980	**—**	**—**	**7.6**	**219.7**	**96.0**	**0.6**	**18.6**	**841.2**	**—**	**1,183.6**	**1,183.6**	**—**	**1,183.6**
1981	—	—	7.4	406.8	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	96.9	2.9	20.1	816.9	(s)	1,098.6	1,098.6	—	1,098.6
1984	—	—	4.3	175.2	104.1	2.2	22.3	820.7	(s)	1,128.8	1,128.8	—	1,128.8
1985	**—**	**—**	**4.8**	**176.1**	**97.7**	**[R] 2.6**	**20.7**	**836.6**	**—**	**[R] 1,138.5**	**[R] 1,138.5**	**—**	**[R] 1,138.5**
1986	—	—	4.4	199.2	66.8	[R] 2.3	18.0	657.9	—	[R] 948.5	[R] 948.5	—	[R] 948.5
1987	—	—	3.3	234.9	70.0	[R] 1.7	[R] 17.7	722.8	—	[R] 1,050.4	[R] 1,050.4	—	[R] 1,050.4
1988	—	—	2.1	234.5	64.1	[R] 1.7	18.3	738.1	—	[R] 1,058.8	[R] 1,058.8	—	[R] 1,058.8
1989	—	—	4.0	262.3	74.7	[R] 2.5	18.6	796.9	—	[R] 1,159.1	[R] 1,159.1	—	[R] 1,159.1
1990	**—**	**—**	**4.0**	**301.4**	**96.2**	**[R] 3.5**	**19.3**	**876.7**	**—**	**[R] 1,301.1**	**[R] 1,301.1**	**—**	**[R] 1,301.1**
1991	—	—	4.1	299.3	65.2	[R] 1.7	19.9	892.3	—	[R] 1,282.5	[R] 1,282.5	—	[R] 1,282.5
1992	—	(s)	4.0	369.5	71.3	1.4	[R] 22.1	931.6	—	[R] 1,400.0	[R] 1,400.1	—	[R] 1,400.1
1993	—	0.1	2.9	315.2	82.5	[R] 1.8	23.3	1,027.2	—	[R] 1,452.9	[R] 1,452.9	—	[R] 1,452.9
1994	—	0.3	2.5	277.2	58.9	[R] 4.4	[R] 24.6	1,022.9	—	[R] 1,390.4	[R] 1,390.7	—	[R] 1,390.7
1995	**—**	**0.3**	**2.3**	**135.4**	**52.3**	**3.0**	**24.5**	**1,009.0**	**—**	**1,226.4**	**1,226.7**	**—**	**1,226.7**

[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.
(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 202. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, New Mexico

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.14**	**0.30**	**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	0.58	0.76	—	0.59	—	—	0.22
1973	0.16	0.34	0.69	1.78	—	0.72	—	—	0.23
1974	0.19	0.49	1.59	2.09	—	1.61	—	—	0.33
1975	**0.23**	**0.69**	**1.70**	**1.89**	**—**	**1.70**	**—**	**—**	**0.45**
1976	0.26	0.96	1.84	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	2.86	—	1.61	—	—	0.81
1979	0.48	2.07	2.74	4.23	—	2.77	—	—	0.99
1980	**0.56**	**2.47**	**3.70**	**6.53**	**—**	**5.21**	**—**	**—**	**1.02**
1981	0.70	2.83	4.69	7.55	—	6.65	—	—	1.20
1982	0.79	3.22	4.77	6.99	—	5.80	—	—	1.23
1983	0.84	3.59	4.07	6.15	—	4.77	—	—	1.14
1984	0.93	3.53	4.72	6.22	—	5.13	—	—	1.23
1985	**1.09**	**3.48**	**3.71**	**6.20**	**—**	**4.98**	**—**	**—**	**1.33**
1986	1.13	3.31	1.65	3.79	—	2.69	—	—	1.31
1987	1.21	2.36	2.14	4.47	—	3.58	—	—	1.29
1988	1.18	2.14	1.97	4.22	—	3.17	—	—	1.25
1989	1.24	2.13	2.74	4.98	—	3.99	—	—	1.32
1990	**1.32**	**1.91**	**3.09**	**6.22**	**—**	**4.70**	**—**	**—**	**1.37**
1991	1.38	1.70	3.86	5.35	—	5.11	—	—	1.42
1992	1.32	1.95	3.23	5.16	—	5.10	—	—	1.38
1993	1.37	2.19	3.55	5.06	—	5.03	—	—	1.45
1994	1.41	1.95	3.22	4.65	—	4.63	—	—	1.47
1995	**1.42**	**1.55**	**2.99**	**4.90**	**—**	**4.87**	**—**	**—**	**1.43**
	Expenditures in Million Nominal Dollars								
1970	**14.2**	**17.7**	**0.1**	**(s)**	**—**	**0.1**	**—**	**—**	**32.0**
1971	18.2	18.0	0.9	(s)	—	1.0	—	—	37.1
1972	18.9	21.8	1.6	0.1	—	1.6	—	—	42.4
1973	20.9	23.4	3.3	0.2	—	3.5	—	—	47.8
1974	27.2	34.2	10.6	0.4	—	11.0	—	—	72.4
1975	**30.0**	**46.8**	**18.2**	**0.4**	**—**	**18.6**	**—**	**—**	**95.4**
1976	35.6	68.5	11.3	0.6	—	11.8	—	—	115.9
1977	45.1	104.1	12.0	0.5	—	12.5	—	—	161.7
1978	60.6	107.9	4.1	0.4	—	4.5	—	—	173.1
1979	72.1	129.1	13.7	0.5	—	14.2	—	—	215.3
1980	**112.8**	**142.9**	**4.1**	**8.2**	**—**	**12.3**	**—**	**—**	**268.0**
1981	135.7	158.9	1.6	5.5	—	7.0	—	—	301.6
1982	174.7	147.2	5.0	6.5	—	11.5	—	—	333.4
1983	218.7	109.1	3.9	3.0	—	6.8	—	—	334.6
1984	234.5	108.4	2.6	1.3	—	3.9	—	—	346.8
1985	**290.9**	**99.1**	**0.9**	**1.6**	**—**	**2.6**	**—**	**—**	**392.6**
1986	271.3	69.5	0.4	0.9	—	1.4	—	—	342.2
1987	313.5	44.6	0.4	1.4	—	1.8	—	—	359.9
1988	311.3	46.2	0.5	1.3	—	1.8	—	—	359.3
1989	344.7	60.3	0.6	1.4	—	2.0	—	—	407.0
1990	**362.1**	**50.2**	**0.6**	**1.3**	**—**	**2.0**	**—**	**—**	**414.2**
1991	320.5	48.6	0.3	1.8	—	2.0	—	—	371.1
1992	352.1	44.7	(s)	2.1	—	2.2	—	—	398.9
1993	367.6	61.8	(s)	2.1	—	2.1	—	—	431.5
1994	389.8	64.0	(s)	1.3	—	1.3	—	—	455.1
1995	**387.5**	**50.2**	**(s)**	**1.2**	**—**	**1.3**	**—**	**—**	**438.9**

[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 203. Energy Price and Expenditure Estimates by Source, 1970-1995, New York

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	**0.58**	**0.49**	**0.51**	**1.07**	**1.24**	**0.72**	**2.24**	**2.92**	**0.43**	**[R] 1.57**	**1.36**	**0.20**	**—**	**1.17**	**0.42**	**6.72**	**[R] 1.82**
1971	0.71	0.57	0.61	1.16	1.28	0.75	2.25	3.02	0.55	[R] 1.63	1.45	0.23	—	1.28	0.50	7.52	2.03
1972	0.77	0.54	0.61	1.28	1.28	0.83	2.29	3.15	0.61	[R] 1.69	1.51	0.26	—	1.37	0.59	8.05	[R] 2.19
1973	0.84	0.54	0.66	1.34	1.50	0.95	2.98	3.35	0.78	[R] 1.66	1.69	0.25	—	1.51	0.70	8.74	[R] 2.41
1974	1.59	1.09	1.30	1.64	2.51	1.59	3.70	4.58	1.97	[R] 2.65	2.80	0.33	—	2.39	1.58	12.49	[R] 3.62
1975	**2.14**	**1.27**	**1.53**	**2.16**	**2.66**	**2.02**	**3.99**	**4.80**	**1.93**	**[R] 3.07**	**2.96**	**0.31**	**—**	**2.60**	**1.53**	**14.04**	**[R] 4.12**
1976	2.11	1.23	1.57	2.47	2.81	2.20	4.20	4.97	1.90	[R] 3.22	[R] 3.07	0.35	—	2.71	1.48	14.47	4.21
1977	2.13	1.27	1.53	2.90	3.22	2.52	4.77	5.24	2.19	[R] 3.40	[R] 3.36	0.36	—	2.96	1.59	15.50	[R] 4.67
1978	2.34	1.38	1.62	3.25	3.43	2.86	4.96	5.34	2.05	[R] 3.59	[R] 3.46	0.39	—	[R] 3.10	1.51	15.60	[R] 4.91
1979	2.32	1.45	1.69	3.51	4.82	3.85	5.74	7.41	2.91	[R] 4.78	[R] 4.89	0.47	1.56	4.10	2.05	17.06	[R] 6.23
1980	**2.38**	**1.56**	**1.78**	**4.10**	**6.78**	**6.27**	**7.43**	**10.26**	**4.10**	**[R] 7.25**	**[R] 6.94**	**0.56**	**1.74**	**5.45**	**2.68**	**19.64**	**[R] 8.10**
1981	2.56	1.81	1.99	4.67	8.59	7.49	8.02	11.22	4.99	[R] 8.91	[R] 8.35	0.56	1.24	[R] 6.37	3.27	24.93	[R] 9.96
1982	2.73	1.94	2.07	5.46	8.38	7.02	8.81	10.45	4.60	[R] 8.10	[R] 7.89	0.60	1.28	[R] 6.31	3.20	26.63	[R] 10.23
1983	2.15	1.87	1.90	6.38	8.09	6.94	9.38	9.17	4.52	[R] 7.69	[R] 7.46	0.56	1.12	6.20	3.08	27.62	[R] 10.80
1984	2.02	1.86	1.88	6.10	8.19	6.87	9.23	8.71	4.84	[R] 8.28	[R] 7.38	0.64	1.28	[R] 5.90	2.96	27.10	[R] 10.48
1985	**1.88**	**1.80**	**1.81**	**5.94**	**7.88**	**6.51**	**[R] 11.57**	**8.79**	**4.38**	**[R] 7.79**	**[R] 7.41**	**0.67**	**—**	**[R] 5.88**	**2.54**	**26.97**	**[R] 10.40**
1986	1.76	1.71	1.72	5.65	6.14	4.42	[R] 10.65	6.60	2.61	[R] 6.29	[R] 5.36	0.61	—	[R] 4.75	1.79	26.07	[R] 9.08
1987	1.59	1.62	1.61	5.06	6.04	4.55	[R] 10.27	6.99	3.10	[R] 6.14	[R] 5.69	0.63	0.95	[R] 4.75	2.01	25.56	[R] 9.02
1988	1.61	1.62	1.62	5.09	6.03	4.15	[R] 10.14	7.16	2.52	[R] 5.60	[R] 5.40	0.57	—	4.55	1.80	25.09	8.98
1989	1.67	1.62	1.63	5.38	6.59	4.70	[R] 11.13	7.82	2.99	[R] 6.22	[R] 6.01	0.65	—	[R] 4.97	2.06	26.08	9.72
1990	**1.71**	**1.66**	**1.66**	**5.25**	**8.13**	**6.03**	**[R] 12.87**	**8.83**	**3.64**	**[R] 6.63**	**[R] 7.11**	**0.65**	**[d R] 2.33**	**[d R] 5.47**	**2.20**	**27.51**	**[d R] 10.52**
1991	1.72	1.64	1.65	5.18	7.91	5.18	[R] 13.68	9.44	2.73	[R] 6.28	[R] 7.16	0.55	[R] 2.34	[R] 5.34	1.74	28.68	[R] 10.74
1992	1.73	1.54	1.56	5.48	7.48	4.84	[R] 13.07	9.28	2.71	[R] 6.03	[R] 7.22	0.45	[R] 2.30	[R] 5.45	1.65	[R] 29.87	[R] 10.72
1993	1.73	1.54	1.56	6.00	7.34	4.47	[R] 12.25	9.04	2.69	[R] 5.91	[R] 7.11	0.57	[R] 2.30	[R] 5.56	1.62	31.43	[R] 10.89
1994	1.73	1.50	1.53	6.16	7.32	4.14	[R] 12.97	9.12	2.77	[R] 6.04	[R] 7.28	0.53	[R] 2.28	[R] 5.63	1.44	[R] 31.99	[R] 11.11
1995	**1.72**	**1.47**	**1.50**	**5.50**	**7.15**	**4.04**	**12.90**	**9.51**	**3.01**	**6.40**	**7.68**	**0.54**	**2.24**	**5.64**	**1.46**	**32.43**	**10.99**
	Expenditures in Million Nominal Dollars																
1970	**96.4**	**212.0**	**308.4**	**771.3**	**803.3**	**155.5**	**37.2**	**2,005.9**	**409.7**	**[R] 196.1**	**[R] 3,607.7**	**9.2**	**—**	**[R] 4,696.5**	**-335.3**	**2,006.4**	**[R] 6,367.5**
1971	82.5	182.6	265.1	844.7	848.2	167.4	37.5	2,171.3	543.2	[R] 209.7	[R] 3,977.4	16.3	—	[R] 5,103.4	-420.9	2,311.5	[R] 6,994.0
1972	85.0	132.3	217.3	903.1	887.7	204.0	40.8	2,329.6	616.1	[R] 224.1	[R] 4,302.2	18.4	—	[R] 5,441.1	-503.5	2,570.6	[R] 7,508.2
1973	129.1	116.0	245.1	940.5	1,060.5	232.7	51.6	2,557.2	824.9	[R] 227.2	[R] 4,954.1	19.9	—	[R] 6,159.6	-608.2	2,977.9	[R] 8,529.4
1974	246.7	240.0	486.7	1,046.3	1,603.8	343.2	59.7	3,233.0	1,875.8	[R] 347.8	[R] 7,463.3	33.9	—	[R] 9,030.1	-1,334.9	4,101.0	[R] 11,796.2
1975	**197.8**	**279.3**	**477.1**	**1,255.2**	**1,626.9**	**441.7**	**70.3**	**3,368.0**	**1,740.1**	**[R] 361.5**	**[R] 7,608.6**	**44.9**	**—**	**[R] 9,385.8**	**-1,326.8**	**4,580.0**	**[R] 12,638.9**
1976	292.9	277.3	570.2	1,482.2	1,885.9	479.8	84.1	3,747.6	1,808.6	[R] 398.9	[R] 8,405.0	61.3	—	[R] 10,518.8	-1,289.4	4,840.8	[R] 14,070.2
1977	217.6	297.5	515.0	1,636.3	2,164.1	557.7	93.2	3,882.5	2,138.0	[R] 420.2	[R] 9,255.7	80.2	—	[R] 11,487.2	-1,502.5	5,347.1	[R] 15,331.7
1978	176.6	306.5	483.2	1,861.7	2,268.5	628.7	99.9	4,063.3	1,929.6	[R] 468.6	[R] 9,458.5	91.7	—	[R] 11,895.1	-1,428.2	5,489.6	[R] 15,956.5
1979	203.6	330.3	533.9	2,210.1	2,526.3	779.4	111.7	5,337.7	2,321.3	[R] 580.6	[R] 11,657.0	94.8	1.1	[R] 14,497.0	-1,778.0	6,093.8	[R] 18,812.8
1980	**197.6**	**361.0**	**558.6**	**3,087.1**	**2,862.3**	**1,275.3**	**139.0**	**6,865.7**	**2,964.1**	**[R] 782.9**	**[R] 14,889.2**	**118.3**	**0.2**	**[R] 18,653.5**	**-2,427.3**	**7,044.4**	**[R] 23,270.7**
1981	189.5	415.8	605.2	3,583.3	3,201.2	1,074.5	150.5	7,648.6	2,933.3	[R] 868.0	[R] 15,876.2	108.0	(s)	[R] 20,172.7	-2,881.5	9,109.2	[R] 26,400.4
1982	133.4	463.3	596.7	4,285.4	3,021.1	189.3	154.1	7,129.7	2,712.2	[R] 732.9	[R] 13,939.4	96.7	0.1	[R] 18,918.4	-2,676.2	9,577.3	[R] 25,819.4
1983	61.8	446.1	507.9	4,665.6	2,669.6	146.1	165.0	6,127.7	2,139.1	[R] 756.9	[R] 12,004.5	100.8	0.2	[R] 17,279.0	-2,616.7	10,265.3	[R] 24,927.5
1984	73.3	490.3	563.5	4,913.5	2,824.9	147.7	168.0	5,179.8	2,221.8	[R] 705.2	[R] 11,247.4	147.6	0.1	[R] 16,872.0	-2,656.9	10,348.3	[R] 24,563.4
1985	**58.5**	**487.6**	**546.0**	**4,637.2**	**2,845.8**	**139.0**	**[R] 205.2**	**6,299.5**	**1,827.8**	**[R] 897.8**	**[R] 12,215.1**	**175.2**	**—**	**[R] 17,573.5**	**-2,320.5**	**10,369.9**	**[R] 25,623.0**
1986	58.1	377.4	435.5	4,213.2	2,524.7	91.8	[R] 189.1	4,740.2	1,308.1	[R] 643.9	[R] 9,497.8	146.3	—	[R] 14,292.7	-1,558.8	10,220.2	[R] 22,954.2
1987	61.6	411.9	473.5	3,999.6	2,568.1	72.8	[R] 205.3	5,234.5	1,495.6	[R] 673.6	[R] 10,249.9	154.6	(s)	[R] 14,877.7	-1,917.7	10,328.0	[R] 23,288.0
1988	72.6	466.6	539.2	4,090.8	2,650.4	113.6	[R] 192.6	5,018.8	1,398.8	[R] 703.0	[R] 10,077.2	148.3	—	[R] 14,855.5	-1,892.7	10,706.6	[R] 23,669.4
1989	74.1	515.6	589.7	4,627.0	2,941.0	158.9	[R] 226.5	5,480.3	1,590.5	[R] 637.0	[R] 11,034.2	159.1	—	[R] 16,410.0	-2,303.0	11,352.8	[R] 25,459.8
1990	**62.2**	**512.7**	**574.9**	**4,614.1**	**3,140.5**	**183.5**	**[R] 259.1**	**6,419.2**	**1,756.9**	**[R] 633.9**	**[R] 12,393.3**	**164.7**	**[d R] 105.0**	**[d R] 17,852.0**	**-2,383.6**	**[R] 12,088.6**	**[d R] 27,556.9**
1991	56.6	510.4	566.9	4,630.3	2,836.8	153.0	[R] 356.2	6,644.3	1,164.1	[R] 629.3	[R] 11,783.7	169.4	[R] 111.2	[R] 17,261.6	-1,848.0	[R] 12,664.5	[R] 28,078.1
1992	53.4	472.0	525.4	5,365.3	2,863.6	144.6	[R] 335.3	6,294.2	877.4	[R] 604.5	[R] 11,119.5	117.2	[R] 116.3	[R] 17,243.8	-1,509.3	[R] 13,091.7	[R] 28,826.2
1993	57.7	421.7	479.4	5,789.5	2,994.1	128.2	[R] 271.2	6,252.6	812.7	[R] 658.0	[R] 11,116.7	163.8	[R] 123.6	[R] 17,673.0	-1,361.7	[R] 13,960.4	[R] 30,271.6
1994	61.7	393.0	454.8	6,366.0	2,886.5	133.8	[R] 299.5	6,147.0	704.8	[R] 651.4	[R] 10,823.0	164.5	[R] 122.0	[R] 17,930.3	-1,202.3	[R] 14,319.5	[R] 31,047.5
1995	**63.8**	**367.2**	**431.1**	**6,401.1**	**2,891.0**	**176.4**	**295.8**	**6,622.4**	**574.3**	**664.4**	**11,224.5**	**152.9**	**137.3**	**18,346.8**	**-1,208.1**	**14,434.6**	**31,573.3**

[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 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.
(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 204. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, New York

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.43**	**1.37**	**1.43**	**1.56**	**2.70**	**1.48**	**—**	**1.43**	**8.83**	**2.19**
1971	1.83	1.47	1.51	1.66	2.70	1.55	—	1.52	9.49	2.37
1972	1.43	1.58	1.52	1.65	2.72	1.56	—	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	2.66	3.04	4.34	2.73	—	2.35	14.98	3.83
1975	**2.78**	**2.50**	**2.81**	**3.28**	**4.48**	**2.89**	**—**	**2.70**	**16.44**	**4.40**
1976	2.80	2.83	2.97	3.43	4.91	3.06	—	2.95	16.97	4.61
1977	3.04	3.25	3.37	3.86	5.33	3.46	—	3.36	18.40	5.20
1978	3.00	3.63	3.61	4.09	5.77	3.70	—	3.66	18.97	5.54
1979	3.09	4.07	5.13	5.56	7.26	5.22	—	4.60	20.93	6.99
1980	**3.26**	**4.85**	**7.08**	**8.49**	**9.12**	**7.22**	**—**	**5.80**	**23.08**	**8.42**
1981	3.67	5.41	8.88	10.85	9.85	9.00	—	6.79	28.98	10.23
1982	3.86	6.38	8.69	10.91	10.23	8.87	—	7.25	30.76	10.94
1983	3.68	7.67	8.41	9.69	10.55	8.58	—	7.97	32.08	12.10
1984	3.74	7.45	8.66	9.65	10.03	8.77	—	7.88	31.17	11.86
1985	**3.61**	**7.54**	**8.35**	**9.30**	**11.12**	**8.58**	**—**	**7.91**	**31.84**	**11.98**
1986	3.39	7.26	6.83	7.61	9.96	7.04	—	7.14	30.86	11.11
1987	3.27	6.68	6.39	7.12	9.64	6.63	—	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**	**7.19**	**8.44**	**9.40**	**13.64**	**8.92**	**[d] 2.83**	**[d] 7.51**	**33.54**	**[d] 12.14**
1991	3.44	7.16	8.35	9.30	14.59	9.06	2.83	7.50	35.09	12.49
1992	3.21	7.37	7.71	8.59	14.43	8.38	2.83	7.43	36.43	12.24
1993	3.25	7.92	7.51	8.36	13.35	8.02	2.83	7.66	38.61	12.83
1994	3.29	8.52	7.24	8.07	[R] 14.56	[R] 7.92	2.83	[R] 8.02	39.72	[R] 13.43
1995	**3.18**	**8.19**	**7.16**	**7.98**	**14.27**	**7.82**	**2.83**	**7.73**	**40.73**	**13.33**
	Expenditures in Million Nominal Dollars									
1970	**12.8**	**484.5**	**501.4**	**49.4**	**28.3**	**579.2**	**—**	**1,076.5**	**768.0**	**1,844.5**
1971	15.4	527.1	521.8	54.5	29.2	605.5	—	1,148.0	864.2	2,012.2
1972	9.3	587.3	544.0	55.9	32.9	632.8	—	1,229.4	952.8	2,182.2
1973	9.4	596.5	629.3	55.8	43.3	728.4	—	1,334.3	1,105.7	2,440.0
1974	11.9	682.1	893.1	73.2	45.7	1,012.0	—	1,706.0	1,441.0	3,147.0
1975	**14.2**	**830.2**	**914.6**	**69.6**	**51.2**	**1,035.4**	**—**	**1,879.9**	**1,610.5**	**3,490.4**
1976	12.0	975.6	1,063.7	99.7	58.6	1,222.1	—	2,209.7	1,705.6	3,915.3
1977	14.2	1,068.3	1,214.6	85.6	64.9	1,365.0	—	2,447.5	1,869.1	4,316.6
1978	14.7	1,216.6	1,299.9	81.1	65.0	1,445.9	—	2,677.3	1,938.1	4,615.3
1979	11.5	1,291.0	1,329.4	61.8	68.4	1,459.6	—	2,762.1	2,156.7	4,918.9
1980	**13.7**	**1,654.8**	**1,554.5**	**82.9**	**84.1**	**1,721.5**	**—**	**3,390.0**	**2,408.8**	**5,798.8**
1981	20.6	1,852.6	1,813.4	92.9	95.8	2,002.0	—	3,875.2	3,035.5	6,910.7
1982	27.1	2,235.6	1,602.3	113.6	92.5	1,808.4	—	4,071.1	3,214.7	7,285.9
1983	16.3	2,535.1	1,439.8	82.2	113.4	1,635.4	—	4,186.8	3,481.5	7,668.3
1984	20.8	2,576.6	1,521.3	59.6	107.0	1,687.9	—	4,285.3	3,492.1	7,777.4
1985	**17.7**	**2,478.1**	**1,506.7**	**169.7**	**129.3**	**1,805.7**	**—**	**4,301.5**	**3,558.6**	**7,860.2**
1986	17.1	2,511.7	1,355.5	95.3	118.9	1,569.8	—	4,098.6	3,556.3	7,654.9
1987	14.6	2,300.8	1,347.9	129.7	135.2	1,612.8	—	3,928.2	3,709.8	7,638.0
1988	11.6	2,322.2	1,373.0	170.2	129.4	1,672.6	—	4,006.4	3,920.1	7,926.5
1989	12.0	2,633.2	1,455.7	125.7	167.1	1,748.6	—	4,393.8	4,140.1	8,533.9
1990	**11.5**	**2,501.1**	**1,303.6**	**94.1**	**201.6**	**1,599.3**	**[d] 79.7**	**[d] 4,191.6**	**[R] 4,414.1**	**[d R] 8,605.8**
1991	11.2	2,490.9	1,216.4	110.6	266.3	1,593.4	84.0	4,179.5	[R] 4,689.9	[R] 8,869.4
1992	10.2	2,870.5	1,257.2	61.0	259.7	1,577.8	88.3	4,546.8	4,812.9	[R] 9,359.7
1993	9.5	3,131.4	1,255.2	74.2	206.6	1,536.0	94.5	4,771.4	[R] 5,255.7	[R] 10,027.1
1994	7.2	3,372.3	1,129.1	63.9	[R] 230.3	[R] 1,423.3	92.7	[R] 4,895.5	[R] 5,434.6	[R] 10,330.1
1995	**8.3**	**3,157.5**	**1,156.0**	**56.1**	**233.6**	**1,445.7**	**102.9**	**4,714.4**	**5,543.7**	**10,258.1**

[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.

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 205. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, New York

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.48**	**1.17**	**1.14**	**0.73**	**1.45**	**2.92**	**0.42**	**0.67**	**0.80**	**7.80**	**1.99**
1971	0.56	1.24	1.21	0.79	1.42	3.02	0.53	0.78	0.91	8.92	2.36
1972	0.52	1.28	1.21	0.78	1.39	3.15	0.61	0.85	0.97	9.52	2.60
1973	0.52	1.33	1.42	0.95	1.46	3.35	0.78	1.03	1.11	10.41	2.97
1974	1.09	1.55	2.34	2.28	2.48	4.58	1.98	2.16	1.97	15.22	4.70
1975	**1.36**	**1.97**	**2.48**	**2.51**	**3.09**	**4.80**	**1.90**	**2.19**	**2.11**	**16.57**	**5.42**
1976	1.35	2.32	2.64	2.54	3.16	4.97	1.85	2.20	2.23	17.38	5.39
1977	1.36	2.82	3.06	2.90	3.85	5.24	2.18	2.55	2.61	18.68	6.02
1978	1.46	3.02	3.22	3.07	3.93	5.34	1.98	2.52	2.66	18.24	6.07
1979	1.56	3.45	4.65	4.11	4.31	7.41	3.00	3.74	3.61	19.67	7.79
1980	**1.67**	**4.17**	**6.48**	**5.68**	**5.79**	**10.26**	**4.18**	**5.09**	**4.70**	**23.21**	**9.27**
1981	1.89	4.65	8.20	7.00	6.05	11.22	5.05	6.66	5.59	29.35	12.64
1982	2.01	5.37	7.95	7.50	7.28	10.45	4.60	6.09	5.68	31.03	12.70
1983	1.96	6.31	7.11	7.25	7.55	9.17	4.49	5.92	6.05	33.00	14.45
1984	1.87	6.10	7.23	7.18	8.10	8.71	5.03	6.03	5.99	31.04	13.69
1985	**1.91**	**5.95**	**6.79**	**6.70**	**[R] 12.43**	**8.79**	**4.64**	**5.77**	**[R] 5.80**	**30.86**	**13.65**
1986	1.74	5.61	4.88	4.49	[R] 12.08	6.60	2.92	[R] 3.97	4.62	29.62	12.00
1987	1.76	5.02	4.90	5.06	[R] 11.75	6.99	3.22	4.12	[R] 4.49	27.96	11.84
1988	1.70	5.24	4.75	4.66	[R] 11.66	7.16	2.67	3.76	4.44	27.13	[R] 11.67
1989	1.75	5.46	5.28	5.17	[R] 10.12	7.82	3.12	4.36	4.88	27.99	[R] 12.29
1990	**1.76**	**5.43**	**6.54**	**7.39**	**[R] 10.74**	**8.83**	**3.75**	**5.10**	**5.24**	**29.44**	**[R] 13.09**
1991	1.74	5.33	6.01	6.11	[R] 11.53	9.44	2.83	[R] 4.37	[R] 4.84	30.31	13.17
1992	1.74	5.59	5.47	6.01	[R] 9.88	9.28	2.89	4.26	4.95	31.48	13.33
1993	1.67	5.99	5.29	5.53	[R] 9.70	9.04	2.88	[R] 4.08	5.06	32.87	13.74
1994	1.67	6.34	5.15	[R] 5.54	[R] 10.87	9.12	3.08	[R] 4.17	5.32	32.98	14.23
1995	**1.67**	**5.93**	**5.06**	**5.27**	**10.62**	**9.51**	**3.34**	**4.37**	**5.23**	**33.57**	**14.78**
	Expenditures in Million Nominal Dollars										
1970	**3.2**	**166.0**	**135.5**	**2.6**	**2.7**	**16.1**	**113.8**	**270.8**	**439.9**	**885.0**	**1,325.0**
1971	3.4	184.0	141.4	2.9	2.7	17.3	131.8	296.2	483.7	1,056.3	1,540.0
1972	2.5	191.8	147.1	3.0	3.0	18.9	146.8	318.7	513.0	1,189.8	1,702.8
1973	2.5	195.5	174.1	2.9	3.0	19.6	190.5	390.2	588.2	1,378.8	1,967.1
1974	5.2	216.7	266.6	6.2	4.6	26.8	420.4	724.6	946.5	1,897.9	2,844.4
1975	**6.2**	**256.7**	**273.8**	**6.0**	**6.2**	**29.3**	**340.7**	**656.0**	**919.0**	**2,137.9**	**3,056.9**
1976	4.3	337.2	320.6	8.3	6.7	29.4	393.0	758.0	1,099.5	2,265.9	3,365.4
1977	5.2	373.7	373.4	7.2	8.3	30.3	481.0	900.2	1,279.0	2,457.0	3,736.1
1978	7.4	436.5	392.9	6.8	7.8	31.8	398.1	837.5	1,281.4	2,466.6	3,748.0
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	**7.0**	**690.4**	**546.7**	**5.4**	**9.4**	**55.7**	**668.1**	**1,285.4**	**1,982.8**	**3,212.0**	**5,194.8**
1981	11.3	791.9	601.8	6.3	10.4	67.4	437.2	1,123.0	1,926.3	4,271.9	6,198.2
1982	16.5	903.5	629.9	8.5	11.6	57.4	543.0	1,250.3	2,170.3	4,534.0	6,704.3
1983	10.2	1,047.5	493.9	53.0	14.3	47.0	351.2	959.4	2,017.1	4,974.9	6,992.0
1984	12.2	1,065.1	515.1	17.8	15.2	49.1	537.2	1,134.4	2,211.7	5,086.1	7,297.8
1985	**10.4**	**1,010.8**	**468.3**	**32.7**	**[R] 25.5**	**88.3**	**486.6**	**[R] 1,101.5**	**[R] 2,122.6**	**5,160.7**	**[R] 7,283.3**
1986	11.1	966.2	468.4	5.8	[R] 25.5	64.3	367.0	[R] 930.9	[R] 1,908.2	5,127.8	[R] 7,036.0
1987	8.8	864.3	422.3	9.1	[R] 29.1	50.2	384.0	[R] 894.7	[R] 1,767.8	5,031.0	[R] 6,798.7
1988	7.3	1,013.5	407.0	5.5	[R] 27.9	41.6	305.3	[R] 787.3	[R] 1,808.1	5,156.2	[R] 6,964.3
1989	7.2	1,103.7	475.8	15.2	[R] 25.8	55.4	311.4	[R] 883.6	[R] 1,994.5	5,397.1	[R] 7,391.6
1990	**6.3**	**1,090.0**	**494.2**	**11.3**	**[R] 28.0**	**55.4**	**416.2**	**[R] 1,005.0**	**[R] 2,101.3**	**[R] 5,665.5**	**[R] 7,766.8**
1991	6.4	1,091.8	446.4	7.4	[R] 37.1	35.5	304.0	[R] 830.4	[R] 1,928.6	[R] 5,873.1	[R] 7,801.7
1992	6.3	1,249.0	443.2	13.9	[R] 31.4	33.2	289.8	[R] 811.5	[R] 2,066.9	[R] 6,065.4	[R] 8,132.2
1993	4.6	1,359.7	465.7	19.3	[R] 26.5	9.4	317.8	[R] 838.7	[R] 2,202.9	[R] 6,495.3	[R] 8,698.3
1994	4.1	1,453.4	437.9	[R] 16.9	[R] 30.3	8.6	316.1	[R] 809.9	[R] 2,267.4	[R] 6,681.6	[R] 8,949.0
1995	**4.8**	**1,411.2**	**448.5**	**21.4**	**30.7**	**10.4**	**289.2**	**800.1**	**2,216.1**	**7,231.3**	**9,447.4**

[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.
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 206. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, New York

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.48**	**0.53**	**0.68**	**0.70**	**0.70**	**0.73**	**1.45**	**5.08**	**2.92**	**0.49**	R **1.32**	**0.81**	**—**	**0.69**	**3.51**	**0.97**
1971	0.71	0.56	0.64	0.76	0.79	0.75	0.79	1.42	5.27	3.02	0.65	R 1.31	0.93	—	0.81	3.89	1.15
1972	0.77	0.52	0.66	0.84	0.80	0.74	0.78	1.39	5.58	3.15	0.62	R 1.30	R 0.95	—	0.85	4.16	R 1.24
1973	0.84	0.52	0.75	0.88	0.80	0.91	0.95	1.46	5.33	3.35	0.77	R 1.44	R 1.04	—	0.93	4.43	R 1.35
1974	1.59	1.09	1.47	1.09	1.60	2.18	2.28	2.48	7.22	4.58	1.85	R 2.41	R 2.14	—	R 1.77	6.74	R 2.40
1975	**2.14**	**1.36**	**1.82**	**1.47**	**1.84**	**2.36**	**2.51**	**3.09**	**7.48**	**4.80**	**2.01**	R **2.91**	R **2.37**	**—**	R **2.07**	**7.97**	R **2.86**
1976	2.11	1.35	1.86	1.55	1.93	2.43	2.54	3.16	7.05	4.97	2.00	R 3.10	R 2.40	—	R 2.10	7.99	R 2.83
1977	2.13	1.36	1.83	1.90	2.05	2.79	2.90	3.85	6.97	5.24	2.26	R 3.37	R 2.68	—	R 2.34	8.97	R 3.26
1978	2.34	1.46	1.95	2.24	2.22	2.94	3.07	3.93	7.60	5.34	2.28	R 3.49	R 2.83	—	R 2.54	9.25	R 3.56
1979	2.32	1.56	1.99	2.70	2.55	3.92	4.11	4.31	10.21	7.41	2.81	R 4.83	R 3.63	—	R 3.09	10.42	R 4.21
1980	**2.38**	**1.67**	**2.08**	**3.43**	**3.67**	**5.36**	**5.68**	**5.79**	**14.36**	**10.26**	**3.78**	R **7.63**	R **5.40**	**—**	R **4.00**	**12.11**	R **5.42**
1981	2.56	1.89	2.26	3.89	5.09	6.58	7.00	6.05	18.00	11.22	4.83	R 9.29	R 7.40	—	R 4.84	15.55	R 6.97
1982	2.73	2.01	2.34	4.87	4.09	6.88	7.50	7.28	17.25	10.45	4.65	R 8.55	R 6.37	—	R 4.83	16.43	R 7.25
1983	2.15	1.96	2.02	5.54	4.22	6.97	7.25	7.55	16.98	9.17	4.40	R 8.01	R 6.52	—	R 4.95	15.66	R 7.61
1984	2.02	1.87	1.92	5.22	4.62	6.58	7.18	8.10	17.63	8.71	5.03	R 8.60	R 6.65	—	R 4.83	16.41	R 7.34
1985	**1.88**	**1.91**	**1.90**	**5.13**	**4.81**	**6.14**	**6.70**	R **12.43**	**17.61**	**8.79**	**4.64**	R **8.31**	R **6.43**	**—**	R **4.85**	**15.34**	R **7.11**
1986	1.76	1.74	1.75	4.78	4.34	4.12	4.49	R 12.08	15.59	6.60	2.92	R 5.20	R 4.82	—	R 4.02	14.43	R 6.43
1987	1.59	1.76	1.68	4.16	3.73	4.64	5.06	R 11.75	R 13.58	6.99	3.22	R 6.06	R 5.04	—	R 3.90	14.74	R 6.39
1988	1.61	1.70	1.66	4.56	3.18	4.27	4.66	R 11.66	R 14.62	7.16	2.67	R 5.09	R 4.47	—	R 3.73	14.47	R 6.23
1989	1.67	1.75	1.71	4.69	2.81	4.74	5.17	R 10.12	14.48	7.82	3.12	R 5.93	R 5.01	—	R 3.95	15.52	R 6.80
1990	**1.71**	**1.76**	**1.74**	**4.72**	**2.96**	**6.78**	**7.39**	R **10.74**	**14.60**	**8.83**	**3.75**	R **6.64**	R **5.63**	d R **1.50**	d R **4.17**	R **16.95**	d R **7.30**
1991	1.72	1.74	1.73	4.60	2.76	5.60	6.11	R 11.53	R 16.80	9.44	2.83	R 5.97	R 5.28	R 1.53	R 4.00	18.07	R 7.31
1992	1.73	1.74	1.74	4.79	2.30	5.51	6.01	R 9.88	R 18.32	9.28	2.89	R 6.23	R 5.05	R 1.45	R 4.13	R 19.06	R 7.42
1993	1.73	1.67	1.70	5.03	2.81	5.07	5.53	R 9.70	R 18.96	9.04	2.88	R 5.53	R 4.80	R 1.43	R 4.15	19.53	R 7.23
1994	1.73	1.67	1.70	5.08	2.74	5.08	5.54	R 8.63	R 19.11	9.12	3.08	R 5.53	R 4.95	R 1.41	R 4.31	R 19.86	R 7.14
1995	**1.72**	**1.67**	**1.70**	**4.56**	**3.19**	**4.84**	**5.27**	**8.57**	**19.40**	**9.51**	**3.34**	**5.92**	**5.36**	**1.38**	**4.20**	**16.97**	**6.06**
	Expenditures in Million Nominal Dollars																
1970	**96.4**	**68.1**	**164.5**	**80.0**	**26.0**	**68.8**	**3.3**	**5.6**	**30.9**	**50.3**	**103.2**	R **44.2**	R **332.4**	**—**	R **576.9**	**322.1**	R **899.0**
1971	82.5	59.0	141.5	89.9	30.1	72.9	5.4	4.9	36.8	48.9	124.6	R 42.8	R 366.3	—	R 597.7	356.0	R 953.8
1972	85.0	44.0	129.0	88.7	30.2	77.2	4.8	4.2	41.7	58.1	114.8	R 47.1	R 378.0	—	R 595.8	387.9	R 983.6
1973	129.1	31.7	160.8	112.9	40.2	97.4	2.9	4.5	32.8	49.1	144.8	R 56.7	R 428.4	—	R 702.1	448.9	R 1,151.0
1974	246.7	56.8	303.5	120.5	72.6	211.7	8.7	8.0	42.6	48.6	300.5	R 96.5	R 789.1	—	R 1,213.0	681.8	R 1,894.8
1975	**197.8**	**85.5**	**283.3**	**156.0**	**69.9**	**216.9**	**14.8**	**11.4**	**45.3**	**34.1**	**276.6**	R **108.1**	R **777.0**	**—**	R **1,216.3**	**734.6**	R **1,950.9**
1976	292.9	94.6	387.5	163.7	70.8	248.0	16.0	17.0	47.4	35.2	332.7	R 107.0	R 874.1	—	R 1,425.3	771.7	R 2,197.0
1977	217.6	89.5	307.1	188.4	76.0	296.0	22.7	17.6	43.4	49.0	391.3	R 134.8	R 1,031.0	—	R 1,526.5	938.9	R 2,465.3
1978	176.6	89.4	266.1	206.7	89.7	311.4	28.3	24.6	50.8	57.6	350.5	R 153.3	R 1,066.2	—	R 1,539.0	1,004.8	R 2,543.8
1979	203.6	103.3	306.9	238.1	95.7	403.4	33.5	34.3	71.4	47.6	432.8	R 230.1	R 1,348.7	—	R 1,893.7	1,161.3	R 3,055.1
1980	**197.6**	**106.6**	**304.2**	**398.4**	**121.3**	**289.8**	**13.4**	**43.8**	**89.5**	**82.7**	**337.3**	R **363.0**	R **1,340.9**	**—**	R **2,043.5**	**1,318.1**	R **3,361.5**
1981	189.5	113.4	302.9	468.5	183.3	228.9	16.1	40.9	107.6	245.0	176.2	R 335.7	R 1,333.6	—	R 2,105.0	1,678.3	R 3,783.3
1982	133.4	117.2	250.6	532.1	146.5	235.1	22.4	46.3	94.0	57.5	239.1	R 239.7	R 1,080.5	—	R 1,863.2	1,677.3	R 3,540.5
1983	61.8	120.4	182.2	526.3	160.7	193.4	29.6	32.8	96.9	40.0	94.8	R 222.3	R 870.5	—	R 1,579.0	1,648.5	R 3,227.5
1984	73.3	125.6	198.9	572.5	165.3	192.0	10.1	39.6	107.3	28.0	179.8	R 224.1	R 946.3	—	R 1,717.7	1,612.3	R 3,330.0
1985	**58.5**	**121.9**	**180.4**	**526.2**	**230.1**	**172.3**	**47.0**	R **43.9**	**99.8**	**56.5**	**162.0**	R **203.9**	R **1,015.5**	**—**	R **1,722.1**	**1,500.4**	R **3,222.5**
1986	58.1	85.0	143.1	425.4	185.3	75.5	15.9	R 40.0	86.4	43.4	110.9	R 154.7	R 712.1	—	R 1,280.6	1,383.9	R 2,664.4
1987	61.6	79.6	141.3	398.7	162.0	104.1	18.0	R 37.3	R 85.1	47.1	90.1	R 176.7	R 720.4	—	R 1,260.4	1,416.4	R 2,676.8
1988	72.6	78.1	150.7	412.8	168.7	92.0	23.6	R 30.0	88.3	53.1	69.0	R 151.3	R 676.0	—	R 1,239.5	1,460.6	R 2,700.2
1989	74.1	86.8	160.9	449.8	92.7	105.6	44.2	R 27.9	89.8	57.0	71.1	R 172.7	R 661.0	—	R 1,271.8	1,632.7	R 2,904.5
1990	**62.2**	**80.8**	**143.0**	**473.7**	**108.4**	**134.5**	**10.4**	R **23.6**	**93.1**	**52.8**	**95.7**	R **216.5**	R **735.0**	d R **25.3**	d R **1,377.0**	R **1,815.7**	d R **3,192.7**
1991	56.6	85.9	142.4	561.4	117.0	99.3	11.6	R 46.1	R 95.9	54.4	42.4	R 184.7	R 651.3	R 27.2	R 1,382.4	R 1,917.9	R 3,300.3
1992	53.4	70.7	124.0	727.3	105.4	100.1	6.9	R 39.1	R 106.6	54.1	56.2	R 197.1	R 665.5	R 28.0	R 1,544.8	R 2,017.4	R 3,562.2
1993	57.7	71.5	129.2	829.3	150.3	119.5	7.5	R 33.6	R 112.3	46.7	70.9	R 175.5	R 716.4	R 28.9	R 1,703.8	R 2,011.6	R 3,715.4
1994	61.7	65.8	127.5	1,119.4	135.3	90.8	11.1	R 29.7	R 118.4	51.7	62.2	R 179.3	R 678.6	R 29.0	R 1,954.5	R 1,996.3	R 3,950.9
1995	**63.8**	**57.4**	**121.2**	**1,306.5**	**149.7**	**83.8**	**12.2**	**27.4**	**118.1**	**56.2**	**42.5**	**181.4**	**671.2**	**34.1**	**2,133.1**	**1,466.0**	**3,599.0**

[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 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 207. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, New York

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.48**	**—**	**2.17**	**1.44**	**0.72**	**1.45**	**5.08**	**2.92**	**0.37**	**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	1.39	5.58	3.15	0.54	2.36	2.36	6.30	2.38
1973	0.52	—	2.36	1.75	0.89	1.46	5.33	3.35	0.70	2.53	2.53	7.36	2.56
1974	1.09	—	3.23	2.70	1.54	2.48	7.22	4.58	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**	**1.67**	**3.95**	**3.95**	**13.66**	**4.02**
1976	1.35	—	3.59	3.03	2.18	3.16	7.05	4.97	1.70	4.15	4.15	13.84	4.22
1977	1.36	—	3.97	3.47	2.51	3.85	6.97	5.24	1.94	4.43	4.43	11.43	4.48
1978	—	—	4.29	3.67	2.86	3.93	7.60	5.34	1.74	4.62	4.62	13.42	4.67
1979	—	—	5.73	5.24	3.85	4.31	10.21	7.41	2.66	6.27	6.27	15.25	6.33
1980	**—**	**—**	**9.02**	**7.45**	**6.27**	**5.79**	**14.36**	**10.26**	**3.53**	**8.82**	**8.82**	**15.02**	**8.86**
1981	—	—	10.84	9.45	7.49	6.05	18.00	11.22	4.40	10.05	10.05	17.29	10.10
1982	—	—	10.92	8.96	7.02	7.28	17.25	10.45	4.18	9.75	9.75	21.60	9.85
1983	—	—	10.44	8.98	6.94	7.55	16.98	9.17	4.23	9.07	9.07	22.59	9.20
1984	—	—	10.27	8.82	6.87	8.10	17.63	8.71	4.55	8.67	8.67	20.47	8.80
1985	**—**	**—**	**9.99**	**8.48**	**6.51**	**[R] 12.43**	**17.61**	**8.79**	**4.08**	**8.74**	**8.74**	**19.65**	**8.84**
1986	—	—	8.41	6.59	4.42	[R] 12.08	15.59	6.60	2.27	6.56	6.56	19.51	6.68
1987	—	—	7.55	6.74	4.55	[R] 11.75	[R] 13.58	6.99	2.84	[R] 6.90	[R] 6.90	22.59	[R] 7.04
1988	—	—	7.41	6.78	4.15	[R] 11.66	[R] 14.62	7.16	2.18	6.96	6.96	21.39	7.10
1989	—	—	8.28	7.36	4.70	[R] 10.12	14.48	7.82	2.63	7.67	7.67	22.65	7.81
1990	**—**	**4.57**	**9.32**	**8.99**	**6.03**	**[R] 10.74**	**14.60**	**8.83**	**3.13**	**8.75**	**8.75**	**[R] 23.33**	**8.88**
1991	—	4.56	8.71	9.06	5.18	[R] 11.53	[R] 16.80	9.44	2.38	9.10	9.10	[R] 23.12	9.22
1992	—	5.32	8.54	8.89	4.84	[R] 9.88	[R] 18.32	9.28	2.33	[R] 8.94	[R] 8.94	[R] 25.54	[R] 9.09
1993	—	4.33	8.24	9.04	4.47	[R] 9.70	[R] 18.96	9.04	2.29	8.80	8.80	26.78	8.95
1994	—	3.54	7.96	9.25	4.14	[R] 8.86	[R] 19.11	9.12	2.40	8.87	8.87	[R] 27.28	9.03
1995	**—**	**2.07**	**8.36**	**9.02**	**4.04**	**8.50**	**19.40**	**9.51**	**2.66**	**9.12**	**9.12**	**26.59**	**9.26**
	Expenditures in Million Nominal Dollars												
1970	**0.2**	**—**	**2.7**	**89.5**	**155.5**	**0.6**	**36.9**	**1,939.4**	**43.0**	**2,267.6**	**2,267.8**	**31.3**	**2,299.1**
1971	0.1	—	2.4	87.8	167.4	0.7	34.8	2,105.1	54.7	2,453.0	2,453.1	34.9	2,488.0
1972	0.1	—	2.0	85.1	168.6	0.8	39.5	2,252.6	50.8	2,599.3	2,599.4	40.2	2,639.6
1973	0.1	—	1.9	121.8	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	3,157.6	138.7	3,829.6	3,829.7	80.2	3,910.0
1975	**(s)**	**—**	**4.8**	**173.7**	**423.1**	**1.4**	**43.1**	**3,304.6**	**93.0**	**4,043.7**	**4,043.8**	**96.9**	**4,140.7**
1976	(s)	—	4.6	211.3	455.6	1.8	45.1	3,682.9	93.5	4,494.9	4,494.9	97.6	4,592.5
1977	(s)	—	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	618.7	2.6	52.6	3,973.8	67.5	4,969.3	4,969.3	80.1	5,049.4
1979	—	—	9.0	366.3	769.7	1.8	74.0	5,244.7	203.5	6,669.1	6,669.1	103.5	6,772.6
1980	**—**	**—**	**14.6**	**447.5**	**1,274.5**	**1.7**	**92.7**	**6,727.2**	**251.7**	**8,809.9**	**8,809.9**	**105.6**	**8,915.6**
1981	—	—	14.9	519.6	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	188.8	3.7	97.3	7,014.9	294.5	8,137.6	8,137.6	151.2	8,288.8
1983	—	—	11.8	519.8	146.1	4.6	100.4	6,040.8	55.9	6,879.4	6,879.4	160.4	7,039.8
1984	—	—	9.8	566.0	147.7	6.1	111.1	5,102.7	56.9	6,000.4	6,000.4	157.8	6,158.1
1985	**—**	**—**	**11.1**	**669.3**	**139.0**	**[R] 6.6**	**103.4**	**6,154.6**	**22.7**	**[R] 7,106.8**	**[R] 7,106.8**	**150.3**	**[R] 7,257.0**
1986	—	—	10.9	595.4	91.8	[R] 4.7	89.5	4,632.5	21.8	[R] 5,446.5	[R] 5,446.5	152.3	[R] 5,598.8
1987	—	—	4.8	658.1	72.8	[R] 3.7	[R] 88.2	5,137.1	38.9	[R] 6,003.6	[R] 6,003.6	170.9	[R] 6,174.5
1988	—	—	3.9	728.4	113.6	[R] 5.2	91.5	4,924.1	42.0	[R] 5,908.7	[R] 5,908.7	169.7	[R] 6,078.4
1989	—	—	3.7	809.0	158.9	[R] 5.7	93.0	5,367.9	8.8	[R] 6,447.0	[R] 6,447.0	182.8	[R] 6,629.8
1990	**—**	**(s)**	**3.6**	**1,170.8**	**183.5**	**[R] 5.9**	**96.5**	**6,311.0**	**27.1**	**[R] 7,798.4**	**[R] 7,798.4**	**[R] 193.3**	**[R] 7,991.7**
1991	—	0.1	2.9	1,047.4	153.0	[R] 6.6	99.3	6,554.4	59.3	[R] 7,922.9	[R] 7,923.0	183.6	[R] 8,106.6
1992	—	(s)	3.2	1,051.1	144.6	[R] 5.2	[R] 110.4	6,206.9	54.6	[R] 7,575.9	[R] 7,576.0	196.1	[R] 7,772.1
1993	—	0.1	2.5	1,138.2	128.2	[R] 4.4	[R] 116.3	6,196.5	46.9	[R] 7,633.1	[R] 7,633.1	197.7	[R] 7,830.9
1994	—	0.2	4.0	1,206.5	133.8	[R] 9.2	[R] 122.6	6,086.6	47.7	[R] 7,610.4	[R] 7,610.6	207.0	7,817.6
1995	**—**	**0.3**	**3.2**	**1,173.3**	**176.4**	**4.3**	**122.3**	**6,555.9**	**39.4**	**8,074.8**	**8,075.0**	**193.7**	**8,268.7**

[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.
(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 208. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, New York

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	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	0.58	—	0.54	0.23	—	0.50
1972	0.52	0.46	0.62	0.96	—	0.66	0.26	—	0.59
1973	0.50	0.50	0.80	1.13	—	0.83	0.25	—	0.70
1974	1.06	0.69	2.03	2.26	0.27	2.04	0.33	—	1.58
1975	**1.18**	**0.88**	**1.94**	**2.16**	**—**	**1.95**	**0.31**	**—**	**1.53**
1976	1.13	1.07	1.91	2.38	—	1.93	0.35	—	1.48
1977	1.17	1.41	2.19	2.75	—	2.21	0.36	—	1.59
1978	1.29	1.49	2.03	2.72	—	2.04	0.39	—	1.51
1979	1.36	2.29	2.96	4.04	—	2.98	0.47	1.56	2.05
1980	**1.47**	**2.67**	**4.25**	**5.63**	**—**	**4.26**	**0.56**	**1.74**	**2.68**
1981	1.71	3.49	5.10	7.13	—	5.12	0.56	1.24	3.27
1982	1.83	3.91	4.69	7.05	—	4.71	0.60	1.28	3.20
1983	1.79	3.98	4.54	6.43	—	4.56	0.56	1.12	3.08
1984	1.80	3.99	4.76	6.44	—	4.79	0.64	1.28	2.96
1985	**1.72**	**3.48**	**4.26**	**6.11**	**—**	**4.29**	**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	—	3.09	0.63	0.95	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**	**3.60**	**6.34**	**—**	**3.65**	**0.65**	**—**	**2.20**
1991	1.59	2.23	2.72	5.30	—	2.76	0.55	—	1.74
1992	1.49	2.41	2.63	4.96	—	2.66	0.45	—	1.65
1993	1.50	2.65	2.56	4.69	—	2.61	0.57	1.40	1.62
1994	1.45	2.24	2.50	4.05	—	2.57	0.53	2.48	1.44
1995	**1.41**	**2.08**	**2.64**	**4.41**	**—**	**2.78**	**0.54**	**2.21**	**1.46**
	Expenditures in Million Nominal Dollars								
1970	**127.6**	**40.9**	**149.6**	**8.1**	**—**	**157.7**	**9.2**	**—**	**335.3**
1971	104.5	43.7	232.1	24.3	—	256.5	16.3	—	420.9
1972	76.4	35.4	303.6	69.7	—	373.4	18.4	—	503.5
1973	72.3	35.7	414.9	65.4	—	480.3	19.9	—	608.2
1974	165.9	27.0	1,016.3	91.2	0.6	1,108.1	33.9	—	1,334.9
1975	**173.3**	**12.2**	**1,029.8**	**66.6**	**—**	**1,096.4**	**44.9**	**—**	**1,326.8**
1976	166.3	5.8	989.4	66.5	—	1,055.9	61.3	—	1,289.4
1977	188.6	5.9	1,173.1	54.6	—	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	1,264.3	29.2	—	1,293.5	94.8	1.1	1,778.0
1980	**233.8**	**343.4**	**1,706.9**	**24.5**	**—**	**1,731.5**	**118.3**	**0.2**	**2,427.3**
1981	270.5	470.3	1,995.1	37.7	—	2,032.7	108.0	(s)	2,881.5
1982	302.5	614.3	1,635.7	26.9	—	1,662.5	96.7	0.1	2,676.2
1983	299.3	556.6	1,637.3	22.6	—	1,659.8	100.8	0.2	2,616.7
1984	331.6	699.3	1,447.9	30.5	—	1,478.4	147.6	0.1	2,656.9
1985	**337.5**	**622.1**	**1,156.5**	**29.2**	**—**	**1,185.7**	**175.2**	**—**	**2,320.5**
1986	264.2	309.9	808.5	29.9	—	838.4	146.3	—	1,558.8
1987	308.9	435.8	982.7	35.7	—	1,018.3	154.6	(s)	1,917.7
1988	369.5	342.3	982.6	50.0	—	1,032.6	148.3	—	1,892.7
1989	409.5	440.2	1,199.2	94.9	—	1,294.1	159.1	—	2,303.0
1990	**414.1**	**549.3**	**1,218.0**	**37.5**	**—**	**1,255.5**	**164.7**	**—**	**2,383.6**
1991	406.8	486.2	758.4	27.3	—	785.7	169.4	—	1,848.0
1992	384.8	518.6	476.7	12.1	—	488.7	117.2	—	1,509.3
1993	336.1	469.0	377.1	15.5	—	392.6	163.8	0.2	1,361.7
1994	315.9	420.8	278.7	22.2	—	300.9	164.5	0.3	1,202.3
1995	**296.7**	**525.6**	**203.3**	**29.5**	**—**	**232.7**	**152.9**	**0.3**	**1,208.1**

[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 209. Energy Price and Expenditure Estimates by Source, 1970-1995, North 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	**—**	**0.43**	**0.43**	**0.69**	**1.13**	**0.73**	**1.89**	**2.82**	**0.46**	[R] **1.37**	**1.94**	**—**	**—**	**1.20**	**0.41**	**4.17**	[R] **2.03**
1971	—	0.47	0.47	0.74	1.18	0.76	1.83	2.98	0.60	[R] 1.44	2.02	—	—	1.28	0.46	4.47	2.16
1972	—	0.46	0.46	0.81	1.19	0.76	1.93	2.98	0.53	[R] 1.49	[R] 1.99	—	—	[R] 1.30	0.45	4.78	[R] 2.25
1973	—	0.50	0.50	0.87	1.46	0.90	2.46	3.14	0.62	[R] 1.67	[R] 2.19	—	—	[R] 1.41	0.49	5.04	2.47
1974	—	1.10	1.10	1.07	2.56	1.56	3.82	4.17	1.77	[R] 2.61	[R] 3.30	—	—	2.21	1.12	6.58	3.52
1975	**—**	**1.12**	**1.12**	**1.57**	**2.74**	**2.03**	**3.24**	**4.55**	**1.90**	[R] **2.97**	[R] **3.69**	**0.29**	**—**	**2.47**	**1.05**	**7.92**	[R] **4.12**
1976	—	1.12	1.12	1.88	2.93	2.17	3.40	4.83	1.92	[R] 3.15	[R] 3.82	0.32	—	2.54	1.07	8.63	[R] 4.43
1977	—	1.26	1.26	2.70	3.28	2.55	3.99	4.95	2.21	[R] 3.38	[R] 4.00	0.47	—	2.74	1.18	9.32	[R] 4.83
1978	—	1.41	1.41	2.58	3.49	2.83	4.14	5.12	2.08	[R] 3.66	[R] 4.23	0.43	—	[R] 2.87	1.22	10.10	[R] 5.16
1979	—	1.47	1.47	2.91	4.73	3.95	4.74	6.95	2.70	[R] 4.87	[R] 5.64	0.37	—	3.59	1.33	10.48	[R] 6.08
1980	**—**	**1.58**	**1.58**	**3.55**	**6.80**	**6.46**	**6.11**	**9.91**	**3.72**	[R] **7.26**	[R] **8.17**	**0.36**	**—**	[R] **4.64**	**1.48**	**11.72**	[R] **8.04**
1981	—	1.74	1.74	4.59	8.35	7.61	7.25	11.05	4.76	[R] 9.49	[R] 9.69	0.37	—	[R] 5.24	1.62	13.33	[R] 9.41
1982	—	1.89	1.89	4.85	8.18	7.18	7.49	10.52	4.36	[R] 8.92	[R] 9.33	0.41	—	5.10	1.68	15.56	[R] 9.72
1983	—	1.88	1.88	5.50	7.53	6.40	8.09	9.18	4.37	[R] 7.89	[R] 8.25	0.44	—	[R] 4.79	1.62	16.13	[R] 9.29
1984	—	1.95	1.95	5.59	7.51	6.17	8.43	8.93	4.85	[R] 8.01	[R] 8.08	0.58	—	4.69	1.55	16.89	[R] 9.41
1985	**—**	**1.97**	**1.97**	**5.29**	**7.36**	**5.77**	[R] **9.89**	**9.03**	**4.45**	[R] **8.31**	[R] **8.21**	**0.54**	**—**	[R] **4.77**	**1.56**	**17.46**	[R] **9.56**
1986	—	1.85	1.85	4.77	5.70	3.85	[R] 9.17	6.69	2.72	[R] 6.21	[R] 6.14	0.53	—	[R] 3.80	1.46	18.16	[R] 8.41
1987	—	1.79	1.79	4.66	5.80	3.96	[R] 8.85	7.33	2.94	[R] 5.76	[R] 6.51	0.56	—	[R] 3.89	1.29	18.05	[R] 8.65
1988	—	1.77	1.77	4.46	5.67	3.71	[R] 8.89	7.26	2.34	[R] 5.55	[R] 6.36	0.59	—	[R] 3.84	1.30	18.03	[R] 8.53
1989	—	1.77	1.77	4.56	6.34	4.30	[R] 8.93	8.10	2.70	[R] 6.06	[R] 7.13	0.55	—	4.05	1.31	18.33	[R] 9.19
1990	**—**	**1.79**	**1.79**	**4.19**	**7.98**	**5.65**	[R] **10.45**	**9.44**	**3.11**	[R] **6.30**	[R] **8.45**	**0.54**	[d R] **1.87**	[d R] **4.59**	**1.33**	[R] **18.73**	[d R] **9.87**
1991	—	1.77	1.77	4.09	7.55	4.79	[R] 11.32	9.23	2.37	[R] 6.46	[R] 8.24	0.52	[R] 1.87	[R] 4.37	1.27	18.96	[R] 9.86
1992	—	1.73	1.73	4.29	7.25	4.48	[R] 10.37	8.96	2.46	[R] 6.24	[R] 7.87	0.51	1.82	[R] 4.35	1.35	19.33	[R] 9.67
1993	—	1.71	1.71	4.79	7.07	4.19	[R] 9.74	8.68	2.35	[R] 6.22	[R] 7.62	0.48	1.82	[R] 4.27	1.34	19.44	[R] 9.72
1994	—	1.69	1.69	4.85	6.97	3.87	[R] 9.52	8.67	2.46	[R] 6.03	[R] 7.65	0.49	1.80	[R] 4.21	1.21	19.42	[R] 9.71
1995	**—**	**1.64**	**1.64**	**4.56**	**6.84**	**3.90**	**9.75**	**8.83**	**2.79**	**5.99**	**7.70**	**0.51**	**1.81**	**4.18**	**1.18**	**19.28**	**9.64**
	Expenditures in Million Nominal Dollars																
1970	**—**	**210.3**	**210.3**	**102.8**	**149.3**	**18.7**	**39.1**	**835.7**	**19.7**	[R] **137.8**	[R] **1,200.2**	**—**	**—**	[R] **1,513.3**	**-190.7**	**576.2**	[R] **1,898.7**
1971	—	228.8	228.8	117.6	148.3	19.8	37.0	918.2	39.3	[R] 144.6	[R] 1,307.2	—	—	[R] 1,653.7	-216.1	664.8	[R] 2,102.3
1972	—	225.7	225.7	130.8	159.3	17.2	42.9	992.8	52.7	[R] 141.9	[R] 1,406.8	—	—	[R] 1,763.3	-224.8	758.9	[R] 2,297.4
1973	—	264.9	264.9	138.1	214.0	19.3	55.4	1,087.7	61.3	[R] 148.7	[R] 1,586.4	—	—	[R] 1,989.3	-264.7	887.2	[R] 2,611.9
1974	—	574.4	574.4	148.7	339.0	33.2	83.1	1,454.6	152.9	[R] 196.5	[R] 2,259.4	—	—	[R] 2,982.5	-574.2	1,145.4	[R] 3,553.7
1975	**—**	**533.2**	**533.2**	**178.1**	**339.0**	**42.3**	**77.6**	**1,599.1**	**92.9**	[R] **198.2**	[R] **2,349.1**	**4.4**	**—**	[R] **3,064.8**	**-473.6**	**1,393.1**	[R] **3,984.4**
1976	—	610.0	610.0	187.7	412.5	44.1	88.5	1,778.0	154.1	[R] 225.2	[R] 2,702.4	8.9	—	[R] 3,509.1	-576.5	1,619.7	[R] 4,552.2
1977	—	690.8	690.8	193.2	519.5	57.2	93.4	1,881.4	202.1	[R] 265.8	[R] 3,019.4	28.8	—	[R] 3,932.1	-675.7	1,867.3	[R] 5,123.7
1978	—	705.6	705.6	208.9	499.8	67.4	117.1	2,022.5	160.7	[R] 284.1	[R] 3,151.8	46.6	—	[R] 4,112.9	-705.2	2,080.6	[R] 5,488.2
1979	—	822.5	822.5	373.6	811.5	94.1	137.3	2,599.2	201.7	[R] 324.0	[R] 4,167.6	27.3	—	[R] 5,391.0	-786.8	2,195.0	[R] 6,799.1
1980	**—**	**985.6**	**985.6**	**529.3**	**955.5**	**185.3**	**179.1**	**3,448.9**	**211.1**	[R] **438.5**	[R] **5,418.5**	**22.9**	**—**	[R] **6,956.3**	**-967.2**	**2,553.8**	[R] **8,542.9**
1981	—	1,141.3	1,141.3	678.9	1,032.7	223.6	199.0	3,860.4	168.2	[R] 454.5	[R] 5,938.5	25.5	—	[R] 7,784.1	-1,105.3	2,971.2	[R] 9,650.0
1982	—	1,173.9	1,173.9	667.6	955.2	228.2	185.9	3,640.5	129.1	[R] 398.2	[R] 5,537.0	41.5	—	[R] 7,420.0	-1,140.2	3,288.7	[R] 9,568.5
1983	—	1,120.0	1,120.0	743.4	1,081.0	227.7	204.2	3,241.6	159.4	[R] 373.8	[R] 5,287.7	58.8	—	[R] 7,209.9	-1,105.9	3,645.0	[R] 9,749.0
1984	—	1,087.9	1,087.9	798.7	1,140.1	219.0	206.3	3,280.3	241.0	[R] 420.2	[R] 5,507.0	127.5	—	[R] 7,521.1	-1,127.3	4,130.4	[R] 10,524.2
1985	**—**	**1,084.5**	**1,084.5**	**705.5**	**1,064.4**	**213.6**	[R] **268.8**	**3,362.0**	**174.3**	[R] **554.8**	[R] **5,637.9**	**111.8**	**—**	[R] **7,539.7**	**-1,097.2**	**4,305.3**	[R] **10,747.8**
1986	—	1,077.4	1,077.4	644.6	917.5	152.9	[R] 243.3	2,601.7	108.4	[R] 482.0	[R] 4,505.8	115.7	—	[R] 6,343.5	-1,079.1	4,797.8	[R] 10,062.2
1987	—	894.0	894.0	677.9	959.0	171.2	[R] 283.1	2,947.9	100.7	[R] 422.0	[R] 4,883.8	171.2	—	[R] 6,626.9	-960.0	5,051.7	[R] 10,718.6
1988	—	912.8	912.8	662.9	1,042.0	172.1	[R] 249.8	3,015.8	76.7	[R] 459.3	[R] 5,015.6	183.3	—	[R] 6,774.6	-989.4	5,228.3	[R] 11,013.5
1989	—	982.3	982.3	718.8	997.9	184.0	[R] 298.7	3,306.4	80.3	[R] 422.0	[R] 5,289.2	173.4	—	[R] 7,163.6	-1,058.0	5,479.4	[R] 11,585.1
1990	**—**	**945.7**	**945.7**	**656.5**	**1,164.8**	**174.2**	[R] **326.1**	**3,823.8**	**101.2**	[R] **408.4**	[R] **5,998.5**	**150.4**	[d R] **47.3**	[d R] **7,798.5**	**-973.5**	[R] **5,715.0**	[d R] **12,540.0**
1991	—	925.6	925.6	675.7	1,053.1	116.3	[R] 421.5	3,734.7	91.1	[R] 407.5	[R] 5,824.2	169.8	[R] 53.0	[R] 7,648.3	-992.1	[R] 5,972.6	[R] 12,628.8
1992	—	1,038.0	1,038.0	768.8	1,087.1	116.4	[R] 416.7	3,635.6	116.5	[R] 419.2	[R] 5,791.4	122.8	[R] 56.3	[R] 7,777.3	-1,043.7	[R] 6,212.8	[R] 12,946.5
1993	—	1,096.2	1,096.2	891.0	1,090.6	114.2	[R] 416.8	3,710.6	119.3	[R] 436.4	[R] 5,887.8	123.0	[R] 59.5	[R] 8,057.4	-1,118.3	[R] 6,618.8	[R] 13,557.9
1994	—	979.6	979.6	914.9	1,160.5	95.0	[R] 426.5	3,802.2	99.1	[R] 421.2	[R] 6,004.5	169.1	[R] 59.8	[R] 8,127.8	-1,043.4	[R] 6,610.8	[R] 13,695.2
1995	**—**	**986.1**	**986.1**	**925.5**	**1,267.7**	**109.3**	**428.9**	**4,009.0**	**111.6**	**495.3**	**6,421.7**	**196.4**	**68.2**	**8,598.0**	**-1,084.4**	**6,884.9**	**14,398.5**

[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 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 210. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, North Carolina

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.14**	**1.27**	**1.31**	**1.40**	**2.28**	**1.44**	**—**	**1.40**	**5.45**	**2.41**
1971	0.96	1.31	1.37	1.45	2.18	1.49	—	1.44	5.87	2.62
1972	1.22	1.38	1.38	1.48	2.40	1.53	—	1.49	6.28	2.82
1973	1.35	1.47	1.59	1.77	3.67	1.86	—	1.76	6.53	3.29
1974	2.50	1.65	2.54	2.73	5.91	2.96	—	2.63	8.03	4.56
1975	**2.06**	**1.99**	**2.71**	**2.96**	**4.32**	**2.97**	**—**	**2.69**	**9.31**	**5.15**
1976	2.17	2.10	2.93	3.20	4.80	3.22	—	2.88	10.40	5.57
1977	2.78	2.76	3.28	3.61	5.22	3.58	—	3.34	11.19	6.33
1978	2.64	2.94	3.51	3.86	5.35	3.86	—	3.56	11.99	6.92
1979	2.44	3.44	4.64	5.23	7.06	5.05	—	4.57	12.57	7.75
1980	**2.70**	**4.06**	**6.95**	**7.96**	**7.67**	**7.30**	**—**	**6.15**	**13.91**	**9.62**
1981	3.32	5.11	8.64	10.02	8.68	8.93	—	7.40	15.96	11.61
1982	2.90	5.55	8.38	10.00	9.75	9.01	—	7.56	18.50	12.99
1983	2.76	6.44	7.98	8.92	10.09	8.56	—	7.67	19.42	13.63
1984	2.97	6.46	7.93	8.62	10.43	8.57	—	7.69	19.57	13.80
1985	**2.75**	**6.38**	**8.02**	**8.73**	**10.27**	**8.69**	**—**	**7.86**	**20.48**	**14.09**
1986	2.60	6.41	6.35	6.91	9.44	7.13	—	6.81	21.17	14.25
1987	2.69	6.46	5.30	5.77	9.20	6.27	—	6.29	21.59	14.07
1988	2.53	6.07	5.54	6.03	8.81	6.32	—	6.17	21.89	13.99
1989	2.87	6.35	6.36	6.92	9.63	7.45	—	6.97	22.45	15.02
1990	**2.78**	**5.98**	**7.95**	**8.65**	**11.22**	**9.22**	**[d] 3.53**	**[d] 7.39**	**[R] 22.99**	**[d] 15.44**
1991	2.58	6.05	7.48	8.14	11.67	9.21	3.53	7.41	23.29	15.57
1992	2.65	6.38	7.06	7.68	10.29	8.44	3.53	7.14	23.78	15.32
1993	2.79	6.75	7.07	7.70	11.03	8.72	3.53	7.40	[R] 23.97	15.57
1994	2.73	7.05	6.01	6.54	[R] 11.27	[R] 8.38	3.53	[R] 7.30	23.95	[R] 15.65
1995	**2.62**	**6.71**	**6.28**	**6.83**	**11.39**	**8.34**	**3.53**	**7.20**	**23.79**	**15.33**
	Expenditures in Million Nominal Dollars									
1970	**4.1**	**35.6**	**65.9**	**79.8**	**25.9**	**171.6**	**—**	**211.3**	**272.5**	**483.8**
1971	3.0	40.7	66.0	78.6	24.0	168.6	—	212.3	316.0	528.2
1972	3.6	46.5	72.0	68.1	28.0	168.1	—	218.2	355.3	573.5
1973	4.5	42.8	82.5	69.2	35.7	187.4	—	234.7	411.5	646.2
1974	8.1	45.3	111.1	84.1	50.8	245.9	—	299.4	509.6	809.0
1975	**6.3**	**55.6**	**114.6**	**82.2**	**36.0**	**232.8**	**—**	**294.6**	**603.3**	**897.9**
1976	5.2	71.9	138.7	96.0	42.8	277.6	—	354.7	709.5	1,064.2
1977	5.5	90.8	163.3	100.7	45.3	309.3	—	405.6	834.0	1,239.6
1978	5.1	105.2	151.6	96.9	54.7	303.2	—	413.5	926.6	1,340.1
1979	3.1	113.4	254.9	92.2	69.2	416.2	—	532.7	969.7	1,502.4
1980	**3.9**	**139.6**	**285.2**	**124.0**	**80.2**	**489.4**	**—**	**633.0**	**1,156.6**	**1,789.6**
1981	3.9	171.0	277.5	110.2	88.0	475.6	—	650.5	1,357.7	2,008.2
1982	3.9	181.0	239.7	114.9	88.9	443.5	—	628.3	1,515.4	2,143.7
1983	3.1	207.9	259.5	61.4	109.3	430.2	—	641.2	1,672.2	2,313.4
1984	3.1	216.4	264.3	63.2	118.7	446.2	—	665.7	1,797.8	2,463.5
1985	**4.7**	**189.1**	**228.0**	**197.7**	**118.2**	**543.9**	**—**	**737.7**	**1,876.5**	**2,614.2**
1986	3.5	209.8	184.1	130.1	109.3	423.5	—	636.9	2,131.4	2,768.3
1987	3.8	239.1	175.5	105.0	130.5	410.9	—	653.9	2,321.2	2,975.1
1988	4.5	239.9	185.0	139.4	115.6	440.0	—	684.4	2,406.0	3,090.4
1989	3.8	253.2	173.1	118.1	171.1	462.3	—	719.4	2,511.0	3,230.4
1990	**3.8**	**216.0**	**164.6**	**69.0**	**173.9**	**407.6**	**[d] 21.3**	**[d] 648.7**	**[R] 2,599.4**	**[d R] 3,248.1**
1991	2.2	237.0	139.6	77.3	201.9	418.7	22.4	680.4	[R] 2,732.7	[R] 3,413.1
1992	4.7	281.1	144.0	79.9	200.5	424.4	23.6	733.8	[R] 2,819.9	[R] 3,553.7
1993	5.6	329.3	152.5	82.4	220.8	455.7	25.7	816.3	[R] 3,086.2	[R] 3,902.5
1994	6.3	346.4	114.1	48.5	[R] 228.1	[R] 390.8	25.2	[R] 768.6	3,041.0	[R] 3,809.7
1995	**5.2**	**342.2**	**142.5**	**81.3**	**241.5**	**465.2**	**28.0**	**840.6**	**3,207.3**	**4,047.9**

[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 211. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, North Carolina

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	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**	**4.60**	**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	1.05	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	2.16	2.46	4.17	1.76	2.41	1.66	7.12	4.39
1975	**1.53**	**1.71**	**2.34**	**2.37**	**2.67**	**4.55**	**1.79**	**2.66**	**2.01**	**8.46**	**5.16**
1976	1.29	2.00	2.54	2.60	2.67	4.83	1.76	2.76	2.22	9.29	5.79
1977	1.43	2.99	2.89	2.98	3.27	4.95	2.12	3.08	2.88	9.95	6.65
1978	1.66	2.74	3.04	3.15	3.46	5.12	1.90	3.25	2.84	10.77	7.11
1979	1.64	3.03	4.31	4.05	3.55	6.95	2.98	4.41	3.50	11.24	7.46
1980	**1.71**	**3.67**	**6.33**	**6.12**	**5.24**	**9.91**	**3.80**	**6.58**	**4.73**	**12.28**	**8.50**
1981	1.86	4.66	7.86	7.22	6.42	11.05	4.63	8.45	5.80	14.03	10.33
1982	2.02	5.07	7.51	7.45	6.18	10.52	4.33	7.94	5.73	16.20	11.74
1983	1.79	5.82	6.44	6.95	6.59	9.18	4.44	6.77	6.10	16.92	11.72
1984	1.90	5.87	6.51	7.73	6.70	8.93	4.85	7.12	6.37	17.67	12.21
1985	**1.90**	**5.65**	**6.10**	**7.50**	[R] **9.61**	**9.03**	**4.46**	[R] **6.74**	[R] **5.92**	**18.18**	**12.68**
1986	1.83	5.39	3.79	5.12	[R] 8.96	6.69	2.74	[R] 4.70	[R] 4.91	18.79	[R] 13.01
1987	1.75	5.05	4.11	5.23	[R] 8.57	7.33	2.95	[R] 5.08	[R] 4.91	18.45	12.56
1988	1.74	4.80	3.72	4.79	[R] 8.97	7.26	2.36	[R] 4.61	[R] 4.56	18.35	[R] 12.18
1989	1.71	4.99	4.31	5.69	[R] 8.14	8.10	2.75	[R] 5.36	[R] 4.99	18.44	12.83
1990	**1.80**	**4.49**	**5.41**	**6.80**	[R] **9.69**	**9.44**	**3.16**	[R] **6.69**	[R] **5.17**	[R] **18.93**	**13.61**
1991	1.71	4.39	4.93	6.20	[R] 11.01	9.23	2.42	[R] 6.46	[R] 4.96	19.11	[R] 13.81
1992	1.73	4.63	4.72	5.88	[R] 10.44	8.96	2.49	[R] 6.35	[R] 4.94	[R] 19.51	[R] 13.95
1993	1.73	5.32	4.51	5.68	[R] 8.60	8.68	2.36	[R] 5.23	[R] 5.07	19.41	13.98
1994	1.74	5.37	4.27	[R] 5.47	[R] 9.23	8.67	2.47	[R] 5.26	[R] 5.09	[R] 19.29	[R] 13.77
1995	**1.71**	**5.07**	**4.27**	**5.30**	**9.49**	**8.83**	**2.81**	**5.31**	**4.95**	**19.09**	**13.90**
	Expenditures in Million Nominal Dollars										
1970	**3.6**	**20.7**	**10.1**	**1.0**	**2.8**	**5.3**	**0.8**	**20.0**	**44.3**	**152.2**	**196.5**
1971	3.4	25.9	10.0	1.0	2.7	5.7	1.3	20.8	50.1	178.5	228.6
1972	3.1	25.9	10.9	0.9	2.9	5.9	1.3	21.8	50.8	207.3	258.1
1973	3.7	26.2	12.4	0.8	2.6	6.6	1.1	23.7	53.6	241.1	294.7
1974	7.9	26.8	18.3	1.6	3.7	8.7	3.1	35.4	70.2	300.8	371.0
1975	**8.6**	**37.7**	**19.4**	**1.6**	**3.9**	**9.9**	**2.6**	**37.4**	**83.8**	**337.0**	**420.8**
1976	5.8	40.9	23.6	1.9	4.2	10.9	4.2	44.9	91.5	389.6	481.1
1977	5.2	55.8	28.3	2.0	5.0	11.3	6.0	52.6	113.6	447.8	561.3
1978	6.0	56.9	25.8	1.9	6.2	12.0	4.1	50.1	112.9	501.0	614.0
1979	3.8	74.0	46.5	1.7	6.1	16.7	7.0	78.0	155.8	523.6	679.4
1980	**4.6**	**97.1**	**61.7**	**4.1**	**9.7**	**41.1**	**11.7**	**128.3**	**230.1**	**597.4**	**827.5**
1981	4.1	124.4	61.5	1.8	11.5	46.5	3.0	124.3	252.7	750.4	1,003.2
1982	5.0	130.4	38.8	1.4	9.9	38.1	5.0	93.2	228.6	871.2	1,099.8
1983	3.7	148.4	110.0	3.7	12.6	32.0	4.7	163.0	315.1	944.5	1,259.7
1984	3.6	159.0	114.1	1.8	13.5	71.5	7.0	207.9	370.5	1,101.0	1,471.4
1985	**6.0**	**146.2**	**94.1**	**10.4**	[R] **19.5**	**30.0**	**9.0**	[R] **163.0**	[R] **315.2**	**1,188.9**	[R] **1,504.1**
1986	4.6	141.7	53.4	5.0	[R] 18.3	22.8	4.1	[R] 103.6	[R] 249.9	1,337.2	[R] 1,587.0
1987	4.6	156.4	70.2	4.1	[R] 21.5	27.8	1.2	[R] 124.7	[R] 285.7	1,392.0	[R] 1,677.7
1988	5.8	160.4	66.9	7.0	[R] 20.8	26.1	4.2	[R] 124.9	[R] 291.0	1,447.0	[R] 1,738.0
1989	4.2	170.4	59.1	5.7	[R] 25.5	26.6	3.9	[R] 120.8	[R] 295.4	1,526.9	[R] 1,822.4
1990	**4.6**	**144.8**	**61.1**	**3.0**	[R] **26.5**	**38.5**	**4.5**	[R] **133.7**	[R] **283.1**	[R] **1,648.2**	**1,931.3**
1991	2.7	155.4	52.3	3.3	[R] 33.6	18.2	1.8	[R] 109.1	[R] 267.3	[R] 1,722.3	[R] 1,989.6
1992	5.7	174.4	45.0	1.5	[R] 35.9	15.2	1.8	[R] 99.4	[R] 279.6	[R] 1,791.1	[R] 2,070.8
1993	6.4	205.9	49.5	1.6	[R] 30.4	2.7	4.3	[R] 88.5	[R] 300.9	1,891.0	[R] 2,191.9
1994	7.4	216.5	48.8	[R] 10.6	[R] 33.0	3.6	4.2	[R] 100.0	[R] 323.9	[R] 1,927.3	[R] 2,251.2
1995	**6.3**	**195.8**	**56.5**	**4.4**	**35.5**	**2.8**	**3.3**	**102.6**	**304.6**	**2,025.9**	**2,330.5**

[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.

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, 1970-1995, North Carolina

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.53**	**0.50**	**0.67**	**0.71**	**0.77**	**1.41**	**5.08**	**2.82**	**0.45**	**[R] 1.49**	**[R] 0.87**	**—**	**0.68**	**2.76**	**1.06**
1971	—	0.60	0.60	0.52	0.72	0.73	0.79	1.41	5.27	2.98	0.58	[R] 1.61	[R] 0.91	—	0.74	2.91	[R] 1.14
1972	—	0.57	0.57	0.58	0.77	0.72	0.79	1.42	5.58	2.98	0.52	[R] 1.60	[R] 0.86	—	0.74	3.12	[R] 1.18
1973	—	0.60	0.60	0.66	0.81	0.83	0.90	1.54	5.33	3.14	0.63	[R] 1.74	[R] 1.01	—	[R] 0.84	3.39	[R] 1.34
1974	—	1.32	1.32	0.85	1.39	1.98	2.16	2.46	7.22	4.17	1.78	[R] 2.64	[R] 2.06	—	[R] 1.54	4.89	[R] 2.24
1975	**—**	**1.53**	**1.53**	**1.34**	**1.80**	**2.19**	**2.37**	**2.67**	**7.48**	**4.55**	**1.92**	**[R] 3.14**	**[R] 2.34**	**—**	**[R] 1.92**	**6.36**	**[R] 3.01**
1976	—	1.29	1.29	1.65	1.82	2.40	2.60	2.67	7.05	4.83	1.94	[R] 3.41	[R] 2.36	—	[R] 2.08	6.72	[R] 3.22
1977	—	1.43	1.43	2.32	1.98	2.73	2.98	3.27	6.97	4.95	2.21	[R] 3.62	[R] 2.61	—	[R] 2.41	7.24	[R] 3.63
1978	—	1.66	1.66	1.92	2.20	2.86	3.15	3.46	7.60	5.12	2.12	[R] 3.79	[R] 2.75	—	[R] 2.47	7.95	[R] 3.96
1979	—	1.64	1.64	2.62	2.58	3.73	4.05	3.55	10.21	6.95	2.69	[R] 5.23	[R] 3.43	—	[R] 2.96	8.19	[R] 4.21
1980	**—**	**1.71**	**1.71**	**3.32**	**3.57**	**5.49**	**6.12**	**5.24**	**14.36**	**9.91**	**3.72**	**[R] 8.35**	**[R] 5.08**	**—**	**[R] 4.04**	**9.28**	**[R] 5.36**
1981	—	1.86	1.86	4.36	4.79	6.52	7.22	6.42	18.00	11.05	4.81	[R] 9.92	[R] 6.62	—	[R] 4.89	10.24	[R] 6.33
1982	—	2.02	2.02	4.49	4.11	6.76	7.45	6.18	17.25	10.52	4.39	[R] 9.52	[R] 6.27	—	[R] 4.78	11.93	[R] 6.69
1983	—	1.79	1.79	5.01	4.09	6.70	6.95	6.59	16.98	9.18	4.37	[R] 9.18	[R] 5.94	—	[R] 4.76	12.24	[R] 6.79
1984	—	1.90	1.90	5.14	4.49	6.56	7.73	6.70	17.63	8.93	4.85	[R] 9.48	[R] 6.12	—	[R] 4.98	13.64	[R] 7.26
1985	**—**	**1.90**	**1.90**	**4.75**	**4.94**	**6.36**	**7.50**	**[R] 9.61**	**17.61**	**9.03**	**4.46**	**[R] 9.13**	**[R] 6.51**	**—**	**[R] 4.90**	**13.83**	**[R] 7.29**
1986	—	1.83	1.83	3.87	4.22	4.34	5.12	[R] 8.96	15.59	6.69	2.74	[R] 5.45	[R] 4.78	—	[R] 3.84	14.39	[R] 6.51
1987	—	1.75	1.75	3.65	3.23	4.43	5.23	[R] 8.57	[R] 13.58	7.33	2.95	[R] 6.29	[R] 4.96	—	[R] 3.79	13.80	[R] 6.51
1988	—	1.74	1.74	3.47	3.18	4.06	4.79	[R] 8.97	[R] 14.62	7.26	2.36	[R] 5.31	[R] 4.54	—	[R] 3.54	13.60	[R] 6.38
1989	—	1.71	1.71	3.53	2.89	4.83	5.69	[R] 8.14	14.48	8.10	2.75	[R] 6.13	[R] 4.94	—	[R] 3.68	13.83	[R] 6.64
1990	**—**	**1.80**	**1.80**	**3.36**	**2.95**	**5.77**	**6.80**	**[R] 9.69**	**14.60**	**9.44**	**3.16**	**[R] 6.77**	**[R] 5.45**	**[d R] 1.35**	**[d R] 3.64**	**13.99**	**[d R] 6.38**
1991	—	1.71	1.71	3.14	3.08	5.26	6.20	[R] 11.01	[R] 16.80	9.23	2.42	[R] 6.40	[R] 5.44	[R] 1.39	[R] 3.61	[R] 14.11	[R] 6.40
1992	—	1.73	1.73	3.23	2.32	4.99	5.88	[R] 10.44	[R] 18.32	8.96	2.49	[R] 6.85	[R] 5.04	[R] 1.35	[R] 3.51	14.44	[R] 6.29
1993	—	1.73	1.73	3.61	2.88	4.81	5.68	[R] 8.60	[R] 18.96	8.68	2.36	[R] 6.11	[R] 4.73	1.33	[R] 3.57	14.37	[R] 6.37
1994	—	1.74	1.74	3.55	2.86	4.64	5.47	[R] 7.86	[R] 19.11	8.67	2.47	[R] 6.18	[R] 4.84	[R] 1.33	[R] 3.58	14.45	[R] 6.42
1995	**—**	**1.71**	**1.71**	**3.45**	**3.25**	**4.50**	**5.30**	**7.97**	**19.40**	**8.83**	**2.81**	**6.52**	**4.89**	**1.35**	**3.59**	**14.21**	**6.22**
	Expenditures in Million Nominal Dollars																
1970	**—**	**28.7**	**28.7**	**38.4**	**16.1**	**18.6**	**5.8**	**10.1**	**10.1**	**14.9**	**16.5**	**[R] 7.1**	**[R] 99.1**	**—**	**[R] 166.3**	**151.4**	**[R] 317.7**
1971	—	26.3	26.3	41.0	18.0	19.5	5.8	9.8	12.3	15.4	32.3	[R] 9.7	[R] 122.9	—	[R] 190.1	170.3	[R] 360.5
1972	—	20.3	20.3	50.0	21.0	20.7	5.4	11.5	14.0	14.2	36.8	[R] 10.6	[R] 134.2	—	[R] 204.5	196.4	[R] 400.9
1973	—	21.9	21.9	65.1	24.9	23.7	3.0	16.4	16.3	14.0	36.5	[R] 12.5	[R] 147.3	—	[R] 234.3	234.5	[R] 468.8
1974	—	46.8	46.8	75.5	36.3	48.1	6.3	27.6	21.2	18.7	94.3	[R] 19.0	[R] 271.6	—	[R] 393.8	335.0	[R] 728.8
1975	**—**	**53.2**	**53.2**	**84.6**	**36.4**	**54.6**	**10.9**	**36.6**	**20.2**	**18.7**	**85.1**	**[R] 20.5**	**[R] 282.9**	**—**	**[R] 420.7**	**452.8**	**[R] 873.6**
1976	—	41.7	41.7	74.9	36.2	73.7	11.4	40.4	21.2	19.0	140.6	[R] 32.1	[R] 374.6	—	[R] 491.2	520.6	[R] 1,011.8
1977	—	51.1	51.1	46.7	46.6	97.2	21.7	41.4	24.1	15.4	190.3	[R] 39.3	[R] 476.0	—	[R] 573.8	585.5	[R] 1,159.3
1978	—	62.0	62.0	46.9	51.9	77.1	22.7	54.2	28.2	15.9	140.0	[R] 45.6	[R] 435.6	—	[R] 544.6	652.9	[R] 1,197.5
1979	—	65.7	65.7	184.5	60.0	106.2	11.2	61.0	39.7	19.3	188.2	[R] 68.3	[R] 553.8	—	[R] 804.0	701.6	[R] 1,505.7
1980	**—**	**57.3**	**57.3**	**287.1**	**73.3**	**132.0**	**13.7**	**88.2**	**49.7**	**26.8**	**197.3**	**[R] 108.7**	**[R] 689.7**	**—**	**[R] 1,034.0**	**799.8**	**[R] 1,833.8**
1981	—	78.3	78.3	379.3	68.7	124.9	15.2	96.3	59.8	28.3	154.3	[R] 117.7	[R] 665.1	—	[R] 1,122.7	863.1	[R] 1,985.8
1982	—	80.3	80.3	355.8	60.2	119.9	11.6	83.9	52.2	24.0	118.1	[R] 89.7	[R] 559.4	—	[R] 995.5	902.2	[R] 1,897.7
1983	—	83.0	83.0	386.3	87.2	115.1	9.5	78.2	53.9	18.6	153.6	[R] 88.3	[R] 604.5	—	[R] 1,073.8	1,028.3	[R] 2,102.0
1984	—	93.6	93.6	422.7	114.7	115.6	7.9	69.1	59.6	43.5	232.8	[R] 98.0	[R] 741.3	—	[R] 1,257.5	1,231.7	[R] 2,489.2
1985	**—**	**106.1**	**106.1**	**367.2**	**113.2**	**120.0**	**22.8**	**[R] 124.8**	**55.5**	**39.5**	**163.0**	**[R] 84.7**	**[R] 723.4**	**—**	**[R] 1,196.8**	**1,239.9**	**[R] 2,436.6**
1986	—	116.2	116.2	289.8	127.0	116.0	12.9	[R] 110.2	48.0	28.6	102.7	[R] 95.8	[R] 641.4	—	[R] 1,047.4	1,329.2	[R] 2,376.6
1987	—	110.3	110.3	278.7	86.3	97.9	9.3	[R] 127.2	[R] 47.3	31.6	88.0	[R] 109.1	[R] 596.8	—	[R] 985.8	1,338.5	[R] 2,324.3
1988	—	109.4	109.4	258.9	94.8	87.7	12.7	[R] 108.6	49.1	28.2	67.1	[R] 93.0	[R] 541.1	—	[R] 909.5	1,375.3	[R] 2,284.8
1989	—	108.5	108.5	289.3	72.3	99.7	5.9	[R] 97.5	49.9	35.6	66.4	[R] 105.0	[R] 532.2	—	[R] 930.0	1,441.5	[R] 2,371.5
1990	**—**	**133.2**	**133.2**	**287.9**	**82.4**	**97.5**	**5.4**	**[R] 120.0**	**51.8**	**39.8**	**88.1**	**[R] 129.3**	**[R] 614.2**	**[d R] 26.0**	**[d R] 1,061.3**	**1,467.3**	**[d R] 2,528.6**
1991	—	116.3	116.3	275.0	78.2	91.2	6.0	[R] 178.6	53.3	41.7	79.9	[R] 122.8	[R] 651.6	[R] 30.6	[R] 1,073.4	[R] 1,517.6	[R] 2,591.1
1992	—	124.0	124.0	303.9	65.4	93.1	4.9	[R] 174.8	[R] 59.2	38.5	105.7	[R] 135.8	[R] 677.4	[R] 32.7	[R] 1,138.0	[R] 1,601.8	[R] 2,739.9
1993	—	107.6	107.6	345.2	88.9	88.0	5.1	[R] 160.8	62.4	38.5	109.5	[R] 121.7	[R] 674.9	[R] 33.7	[R] 1,161.6	[R] 1,641.6	[R] 2,803.2
1994	—	104.5	104.5	349.0	91.6	84.3	2.6	[R] 157.2	[R] 65.8	40.6	92.0	[R] 123.6	[R] 657.5	[R] 34.6	[R] 1,145.6	[R] 1,642.5	[R] 2,788.1
1995	**—**	**105.5**	**105.5**	**380.0**	**138.5**	**117.7**	**3.5**	**147.6**	**65.6**	**45.3**	**103.6**	**123.1**	**745.0**	**40.2**	**1,270.6**	**1,651.7**	**2,922.3**

[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 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 213. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, North Carolina

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.53**	**—**	**2.17**	**1.30**	**0.73**	**1.41**	**5.08**	**2.82**	**0.27**	**2.52**	**2.52**	**—**	**2.52**
1971	0.60	—	2.21	1.33	0.76	1.41	5.27	2.98	0.67	2.67	2.67	—	2.67
1972	0.57	—	2.19	1.37	0.76	1.42	5.58	2.98	0.52	2.71	2.71	—	2.71
1973	0.60	—	2.36	1.76	0.90	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**	**—**	**3.45**	**3.12**	**2.03**	**2.67**	**7.48**	**4.55**	**1.56**	**4.27**	**4.27**	**—**	**4.27**
1976	1.29	—	3.59	3.32	2.17	2.67	7.05	4.83	1.63	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	2.83	3.46	7.60	5.12	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	**—**	**—**	**9.02**	**7.34**	**6.46**	**5.24**	**14.36**	**9.91**	**3.43**	**9.35**	**9.35**	**—**	**9.35**
1981	—	—	10.84	8.88	7.61	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	3.96	10.03	10.03	—	10.03
1983	—	—	10.44	7.83	6.40	6.59	16.98	9.18	4.17	8.81	8.81	—	8.81
1984	—	—	10.27	7.80	6.17	6.70	17.63	8.93	4.47	8.60	8.60	—	8.60
1985	**—**	**—**	**9.99**	**7.66**	**5.77**	**[R] 9.61**	**17.61**	**9.03**	**3.78**	**8.62**	**8.62**	**—**	**8.62**
1986	—	—	8.41	6.26	3.85	[R] 8.96	15.59	6.69	1.80	6.46	6.46	—	6.46
1987	—	—	7.55	6.70	3.96	[R] 8.57	[R] 13.58	7.33	2.83	[R] 6.97	[R] 6.97	—	[R] 6.97
1988	—	—	7.41	6.41	3.71	[R] 8.97	[R] 14.62	7.26	2.07	6.84	6.84	—	6.84
1989	—	—	8.28	7.05	4.30	[R] 8.14	14.48	8.10	2.37	7.62	7.62	—	7.62
1990	**—**	**4.42**	**9.32**	**8.75**	**5.65**	**[R] 9.69**	**14.60**	**9.44**	**2.65**	**9.10**	**9.10**	**—**	**9.10**
1991	—	4.51	8.71	8.37	4.79	[R] 11.01	[R] 16.80	9.23	2.00	8.86	8.86	—	8.86
1992	—	4.91	8.54	8.01	4.48	[R] 10.44	[R] 18.32	8.96	2.19	[R] 8.58	[R] 8.58	—	[R] 8.58
1993	—	2.51	8.24	7.82	4.19	[R] 8.60	[R] 18.96	8.68	2.04	8.34	8.34	—	8.34
1994	—	4.29	7.96	7.83	3.87	[R] 8.18	[R] 19.11	8.67	2.20	8.35	8.35	—	8.35
1995	**—**	**4.13**	**8.36**	**7.81**	**3.90**	**8.50**	**19.40**	**8.83**	**2.48**	**8.44**	**8.44**	**—**	**8.44**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**1.7**	**47.8**	**18.7**	**0.3**	**16.1**	**815.5**	**0.6**	**900.7**	**900.7**	**—**	**900.7**
1971	(s)	—	2.2	47.9	19.8	0.4	16.9	897.1	0.6	985.0	985.0	—	985.0
1972	(s)	—	2.7	52.3	17.2	0.5	19.2	972.7	0.4	1,065.0	1,065.0	—	1,065.0
1973	(s)	—	3.4	92.5	19.3	0.6	18.6	1,067.1	0.6	1,202.1	1,202.1	—	1,202.1
1974	(s)	—	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	**(s)**	**—**	**3.8**	**149.2**	**42.3**	**1.1**	**22.6**	**1,570.5**	**2.6**	**1,792.1**	**1,792.1**	**—**	**1,792.1**
1976	(s)	—	2.8	173.3	44.1	1.2	23.7	1,748.0	2.1	1,995.1	1,995.1	—	1,995.1
1977	(s)	—	4.6	217.1	57.2	1.6	26.8	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	1.0	44.1	2,563.2	2.2	3,111.6	3,111.6	—	3,111.6
1980	**—**	**—**	**9.8**	**457.5**	**185.3**	**1.0**	**55.3**	**3,381.0**	**2.1**	**4,092.0**	**4,092.0**	**—**	**4,092.0**
1981	—	—	14.7	548.3	223.6	3.3	66.5	3,785.6	11.0	4,652.9	4,652.9	—	4,652.9
1982	—	—	10.2	543.3	228.2	3.2	58.1	3,578.4	6.0	4,427.3	4,427.3	—	4,427.3
1983	—	—	9.9	580.3	227.7	4.1	59.9	3,190.9	1.1	4,073.9	4,073.9	—	4,073.9
1984	—	—	8.7	634.6	219.0	5.0	66.3	3,165.3	1.2	4,100.1	4,100.1	—	4,100.1
1985	**—**	**—**	**8.8**	**607.6**	**213.6**	**[R] 6.3**	**61.7**	**3,292.5**	**2.3**	**[R] 4,192.9**	**[R] 4,192.9**	**—**	**[R] 4,192.9**
1986	—	—	9.6	556.9	152.9	[R] 5.5	53.4	2,550.3	1.5	[R] 3,330.2	[R] 3,330.2	—	[R] 3,330.2
1987	—	—	8.3	605.5	171.2	[R] 3.9	[R] 52.6	2,888.5	11.6	[R] 3,741.5	[R] 3,741.5	—	[R] 3,741.5
1988	—	—	8.8	693.0	172.1	[R] 4.9	54.6	2,961.5	5.4	[R] 3,900.3	[R] 3,900.3	—	[R] 3,900.3
1989	—	—	9.6	653.0	184.0	[R] 4.6	55.5	3,244.2	10.0	[R] 4,160.9	[R] 4,160.9	—	[R] 4,160.9
1990	**—**	**(s)**	**10.0**	**830.4**	**174.2**	**[R] 5.7**	**57.5**	**3,745.5**	**8.7**	**[R] 4,832.0**	**[R] 4,832.0**	**—**	**[R] 4,832.0**
1991	—	(s)	7.5	760.4	116.3	[R] 7.4	59.2	3,674.8	9.4	[R] 4,635.0	[R] 4,635.0	—	[R] 4,635.0
1992	—	(s)	6.6	797.0	116.4	[R] 5.4	[R] 65.8	3,581.8	9.1	[R] 4,582.1	[R] 4,582.2	—	[R] 4,582.2
1993	—	(s)	4.9	792.3	114.2	[R] 4.8	[R] 69.4	3,669.4	5.5	[R] 4,660.4	[R] 4,660.4	—	[R] 4,660.4
1994	—	(s)	5.5	903.4	95.0	[R] 8.3	[R] 73.1	3,758.1	2.9	4,846.2	[R] 4,846.3	—	[R] 4,846.3
1995	**—**	**(s)**	**5.9**	**939.7**	**109.3**	**4.3**	**72.9**	**3,960.9**	**4.7**	**5,097.7**	**5,097.8**	**—**	**5,097.8**

[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 214. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, North Carolina

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.41**	**0.37**	**0.69**	**0.83**	**—**	**0.79**	**—**	**—**	**0.41**
1971	0.45	0.47	0.74	0.90	—	0.81	—	—	0.46
1972	0.44	0.48	0.55	0.65	—	0.57	—	—	0.45
1973	0.48	0.51	0.60	0.87	—	0.62	—	—	0.49
1974	1.07	0.92	1.77	2.30	—	1.83	—	—	1.12
1975	**1.07**	**1.41**	**1.78**	**2.22**	**—**	**1.89**	**0.29**	**—**	**1.05**
1976	1.10	3.38	1.79	2.44	—	1.96	0.32	—	1.07
1977	1.24	4.13	2.12	2.73	—	2.55	0.47	—	1.18
1978	1.38	3.01	1.91	2.80	—	2.19	0.43	—	1.22
1979	1.46	2.95	2.92	3.80	—	3.26	0.37	—	1.33
1980	**1.57**	**3.15**	**3.82**	**5.82**	**—**	**5.82**	**0.36**	**—**	**1.48**
1981	1.73	4.48	—	7.37	—	7.37	0.37	—	1.62
1982	1.88	4.48	4.36	7.06	—	7.05	0.41	—	1.68
1983	1.89	4.70	—	5.98	—	5.98	0.44	—	1.62
1984	1.95	5.21	4.64	5.91	—	5.91	0.58	—	1.55
1985	**1.98**	**4.78**	**—**	**5.68**	**—**	**5.68**	**0.54**	**—**	**1.56**
1986	1.85	2.74	—	3.48	—	3.48	0.53	—	1.46
1987	1.79	3.09	—	3.91	—	3.91	0.56	—	1.29
1988	1.78	3.37	—	3.49	—	3.49	0.59	—	1.30
1989	1.77	3.46	—	3.99	—	3.99	0.55	—	1.31
1990	**1.78**	**3.10**	**—**	**5.12**	**—**	**5.12**	**0.54**	**—**	**1.33**
1991	1.78	2.68	—	4.74	—	4.74	0.52	—	1.27
1992	1.73	2.86	—	4.41	—	4.41	0.51	—	1.35
1993	1.70	3.52	—	4.05	—	4.05	0.48	—	1.34
1994	1.68	3.26	—	3.84	—	3.84	0.49	—	1.21
1995	**1.63**	**2.33**	**—**	**3.82**	**—**	**3.82**	**0.51**	**—**	**1.18**
	Expenditures in Million Nominal Dollars								
1970	**173.8**	**8.0**	**1.9**	**6.9**	**—**	**8.9**	**—**	**—**	**190.7**
1971	196.1	10.0	5.1	4.9	—	10.0	—	—	216.1
1972	198.8	8.4	14.2	3.4	—	17.6	—	—	224.8
1973	234.7	4.0	23.0	2.9	—	25.9	—	—	264.7
1974	511.6	1.0	53.5	8.1	—	61.6	—	—	574.2
1975	**465.1**	**0.1**	**2.6**	**1.2**	**—**	**3.9**	**4.4**	**—**	**473.6**
1976	557.3	(s)	7.1	3.2	—	10.3	8.9	—	576.5
1977	628.9	(s)	4.4	13.6	—	18.0	28.8	—	675.7
1978	632.4	(s)	15.8	10.4	—	26.2	46.6	—	705.2
1979	749.8	1.8	4.3	3.6	—	7.9	27.3	—	786.8
1980	**919.7**	**5.5**	**(s)**	**19.0**	**—**	**19.0**	**22.9**	**—**	**967.2**
1981	1,055.0	4.2	—	20.6	—	20.6	25.5	—	1,105.3
1982	1,084.8	0.4	(s)	13.6	—	13.6	41.5	—	1,140.2
1983	1,030.2	0.8	—	16.2	—	16.2	58.8	—	1,105.9
1984	987.6	0.7	(s)	11.6	—	11.6	127.5	—	1,127.3
1985	**967.8**	**2.9**	**—**	**14.7**	**—**	**14.7**	**111.8**	**—**	**1,097.2**
1986	953.1	3.2	—	7.1	—	7.1	115.7	—	1,079.1
1987	775.2	3.7	—	9.9	—	9.9	171.2	—	960.0
1988	793.1	3.7	—	9.3	—	9.3	183.3	—	989.4
1989	865.7	6.0	—	12.9	—	12.9	173.4	—	1,058.0
1990	**804.0**	**7.9**	**—**	**11.1**	**—**	**11.1**	**150.4**	**—**	**973.5**
1991	804.4	8.3	—	9.6	—	9.6	169.8	—	992.1
1992	903.5	9.4	—	8.1	—	8.1	122.8	—	1,043.7
1993	976.5	10.6	—	8.3	—	8.3	123.0	—	1,118.3
1994	861.4	2.9	—	10.0	—	10.0	169.1	—	1,043.4
1995	**869.2**	**7.6**	**—**	**11.2**	**—**	**11.2**	**196.4**	**—**	**1,084.4**

[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 215. Energy Price and Expenditure Estimates by Source, 1970-1995, North Dakota

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	**—**	**0.34**	**0.34**	**0.78**	**1.07**	**0.75**	**1.87**	**2.83**	**0.91**	**[R] 1.18**	**1.83**	**—**	**—**	**1.26**	**0.25**	**7.04**	**1.97**
1971	—	0.31	0.31	0.85	1.09	0.78	1.86	2.97	0.94	[R] 1.22	1.91	—	—	1.27	0.27	7.02	2.06
1972	—	0.33	0.33	0.88	1.10	0.78	1.88	2.60	1.00	[R] 1.31	[R] 1.79	—	—	1.19	0.27	7.22	2.01
1973	—	0.21	0.21	0.93	1.38	0.93	3.03	3.13	1.15	[R] 1.23	[R] 2.19	—	—	1.39	0.16	7.22	[R] 2.38
1974	—	0.27	0.27	1.03	2.40	1.60	3.28	4.22	1.66	[R] 2.12	[R] 3.12	—	—	1.86	0.18	7.73	3.10
1975	**—**	**0.42**	**0.42**	**1.26**	**2.66**	**2.09**	**3.29**	**4.69**	**1.80**	**[R] 2.49**	**3.55**	**—**	**—**	**2.23**	**0.27**	**8.57**	**[R] 3.46**
1976	—	0.40	0.40	1.53	2.91	2.26	3.86	4.99	1.72	[R] 2.46	[R] 3.82	—	—	2.20	0.30	9.11	[R] 3.83
1977	—	0.50	0.50	1.86	3.12	2.69	4.33	5.31	1.95	[R] 2.63	[R] 4.14	—	—	2.30	0.40	9.78	4.19
1978	—	0.51	0.51	2.12	3.29	2.90	3.96	5.52	1.89	[R] 2.71	[R] 4.28	—	—	2.26	0.40	10.24	[R] 4.33
1979	—	0.57	0.57	2.66	4.71	4.03	5.14	7.38	2.32	[R] 3.44	[R] 5.57	—	—	2.89	0.49	10.61	5.41
1980	**—**	**0.67**	**0.67**	**3.41**	**6.59**	**6.47**	**6.12**	**9.97**	**3.58**	**[R] 4.94**	**[R] 7.68**	**—**	**—**	**[R] 3.65**	**0.57**	**11.96**	**[R] 7.27**
1981	—	0.78	0.78	3.81	7.75	7.60	6.52	11.02	3.92	[R] 6.62	[R] 8.77	—	—	4.08	0.70	14.00	[R] 8.44
1982	—	0.92	0.92	4.24	7.70	7.19	6.22	10.52	4.14	[R] 5.65	[R] 8.43	—	—	[R] 3.77	0.82	15.58	[R] 8.29
1983	—	0.93	0.93	5.04	7.06	6.91	6.50	9.75	3.94	[R] 5.37	[R] 7.78	—	—	[R] 3.47	0.84	16.85	[R] 8.16
1984	—	1.14	1.14	5.52	7.08	6.83	6.43	9.51	4.13	[R] 5.65	[R] 7.81	—	—	3.36	0.89	16.90	[R] 7.67
1985	**—**	**1.44**	**1.44**	**4.97**	**6.78**	**6.44**	**[R] 8.59**	**9.64**	**3.49**	**[R] 5.53**	**[R] 7.78**	**—**	**—**	**[R] 3.27**	**0.89**	**17.11**	**[R] 7.01**
1986	—	1.43	1.43	4.73	5.09	4.90	[R] 7.68	6.92	1.93	[R] 4.65	[R] 5.85	—	—	[R] 2.72	0.83	17.30	[R] 5.90
1987	—	1.35	1.35	4.65	5.73	4.64	[R] 5.47	7.53	1.61	[R] 4.34	[R] 6.22	—	—	2.69	0.80	17.15	[R] 5.84
1988	—	1.15	1.15	4.34	5.63	4.37	[R] 5.23	8.05	2.49	[R] 4.19	[R] 6.35	—	—	2.43	0.71	16.93	[R] 5.92
1989	—	1.21	1.21	4.08	6.17	4.77	[R] 5.54	8.88	2.58	[R] 4.09	[R] 6.90	—	—	2.61	0.70	16.74	[R] 6.03
1990	**—**	**1.18**	**1.18**	**4.12**	**7.41**	**6.11**	**[R] 7.18**	**9.87**	**2.64**	**[R] 4.44**	**[R] 7.99**	**—**	**[d] 3.56**	**[d] 2.74**	**0.69**	**[R] 16.87**	**[d R] 6.57**
1991	—	1.16	1.16	4.15	6.77	5.17	[R] 7.95	9.57	2.35	[R] 4.52	[R] 7.66	—	3.56	2.69	0.71	[R] 16.88	[R] 6.46
1992	—	1.18	1.18	4.24	6.61	4.89	[R] 7.44	9.29	2.30	[R] 3.57	[R] 7.16	—	3.56	2.59	0.73	17.04	[R] 6.14
1993	—	1.18	1.18	4.41	6.72	4.81	[R] 7.59	9.34	2.37	[R] 4.26	[R] 7.40	—	3.56	[R] 2.63	0.72	[R] 17.09	[R] 6.31
1994	—	1.18	1.18	4.29	6.55	4.57	[R] 7.26	9.12	2.51	[R] 4.11	[R] 7.18	—	3.39	2.61	0.71	[R] 16.95	[R] 6.21
1995	**—**	**1.20**	**1.20**	**3.81**	**6.48**	**4.54**	**7.30**	**9.11**	**2.38**	**4.76**	**7.38**	**—**	**3.19**	**2.64**	**0.74**	**16.74**	**6.12**
	Expenditures in Million Nominal Dollars																
1970	**—**	**19.5**	**19.5**	**14.9**	**30.9**	**8.3**	**12.1**	**130.2**	**3.2**	**[R] 16.4**	**[R] 201.3**	**—**	**—**	**[R] 235.8**	**-12.3**	**67.3**	**[R] 290.8**
1971	—	21.0	21.0	17.1	31.2	9.4	12.0	143.2	2.9	[R] 19.5	[R] 218.2	—	—	[R] 256.3	-16.6	71.2	[R] 310.9
1972	—	23.9	23.9	21.2	33.5	8.6	12.9	130.7	4.1	[R] 16.2	[R] 206.0	—	—	[R] 251.1	-17.8	81.9	[R] 315.3
1973	—	15.0	15.0	18.9	38.2	9.3	18.2	164.4	5.4	[R] 17.9	[R] 253.3	—	—	[R] 287.3	-10.7	89.5	[R] 366.1
1974	—	20.6	20.6	24.7	61.8	16.8	19.4	213.6	10.8	[R] 27.6	[R] 350.0	—	—	[R] 395.2	-12.5	99.2	[R] 481.9
1975	**—**	**28.8**	**28.8**	**31.1**	**68.8**	**20.9**	**19.3**	**247.6**	**10.0**	**[R] 27.6**	**[R] 394.2**	**—**	**—**	**[R] 454.1**	**-15.8**	**108.0**	**[R] 546.3**
1976	—	36.5	36.5	38.1	69.1	22.0	23.7	273.1	9.6	[R] 28.5	[R] 426.0	—	—	[R] 500.6	-25.3	122.8	[R] 598.2
1977	—	54.0	54.0	44.2	74.5	27.7	25.3	291.2	9.4	[R] 27.3	[R] 455.3	—	—	[R] 553.5	-39.3	140.1	[R] 654.3
1978	—	65.7	65.7	56.5	81.0	28.8	28.3	312.6	8.4	[R] 32.8	[R] 492.0	—	—	[R] 614.1	-47.0	171.7	[R] 738.8
1979	—	84.8	84.8	66.9	228.5	39.8	31.2	379.6	8.2	[R] 35.7	[R] 723.1	—	—	[R] 874.8	-67.6	188.7	[R] 995.9
1980	**—**	**110.2**	**110.2**	**77.6**	**312.6**	**59.7**	**29.0**	**480.1**	**13.6**	**[R] 44.1**	**[R] 939.1**	**—**	**—**	**[R] 1,127.0**	**-87.9**	**210.2**	**[R] 1,249.3**
1981	—	133.8	133.8	78.3	346.8	67.0	34.3	551.1	22.1	[R] 54.4	[R] 1,075.7	—	—	[R] 1,287.7	-115.6	263.6	[R] 1,435.8
1982	—	182.7	182.7	104.8	325.0	61.5	32.0	516.2	25.2	[R] 47.7	[R] 1,007.5	—	—	[R] 1,295.0	-154.9	314.6	[R] 1,454.6
1983	—	197.8	197.8	111.4	282.0	55.7	33.9	461.8	25.6	[R] 58.2	[R] 917.3	—	—	[R] 1,226.5	-170.9	327.2	[R] 1,382.7
1984	—	292.2	292.2	143.3	308.4	62.8	10.9	443.2	15.3	[R] 59.0	[R] 899.5	—	—	[R] 1,335.0	-198.5	386.1	[R] 1,522.7
1985	**—**	**436.0**	**436.0**	**118.4**	**296.0**	**58.3**	**[R] 16.7**	**446.7**	**6.2**	**[R] 59.5**	**[R] 883.6**	**—**	**—**	**[R] 1,438.0**	**-203.4**	**407.5**	**[R] 1,642.0**
1986	—	444.2	444.2	103.3	219.2	43.5	[R] 47.7	311.7	3.1	[R] 44.4	[R] 669.7	—	—	[R] 1,217.2	-188.0	401.2	[R] 1,430.4
1987	—	430.8	430.8	89.4	227.5	31.5	[R] 35.0	348.8	2.6	[R] 41.7	[R] 687.1	—	—	[R] 1,207.3	-183.8	383.2	[R] 1,406.8
1988	—	424.0	424.0	103.4	221.9	31.0	[R] 30.3	363.7	4.0	[R] 43.1	[R] 694.0	—	—	[R] 1,221.4	-201.8	407.3	[R] 1,427.0
1989	—	436.6	436.6	105.4	251.8	34.5	[R] 34.8	391.7	3.5	[R] 40.9	[R] 757.2	—	—	[R] 1,299.2	-189.4	400.6	[R] 1,510.3
1990	**—**	**443.9**	**443.9**	**98.9**	**291.8**	**39.0**	**[R] 36.3**	**420.1**	**4.0**	**[R] 40.5**	**[R] 831.8**	**—**	**[d] 1.9**	**[d R] 1,376.5**	**-198.3**	**[R] 401.1**	**[d R] 1,579.3**
1991	—	439.9	439.9	110.1	292.3	27.0	[R] 57.5	414.9	2.8	[R] 39.7	[R] 834.2	—	2.0	[R] 1,386.2	-209.5	[R] 415.4	[R] 1,592.1
1992	—	472.6	472.6	109.8	270.6	37.1	[R] 47.4	401.9	2.7	[R] 48.3	[R] 808.0	—	2.1	[R] 1,392.6	-220.9	411.7	[R] 1,583.4
1993	—	470.9	470.9	125.2	290.9	32.6	[R] 37.2	416.2	4.0	[R] 43.4	[R] 824.4	—	1.7	[R] 1,422.2	-220.3	430.6	[R] 1,632.5
1994	—	473.8	473.8	120.4	318.0	21.1	[R] 34.2	402.1	3.5	[R] 50.3	[R] 829.1	—	1.7	[R] 1,425.1	-218.5	[R] 441.2	[R] 1,647.8
1995	**—**	**481.6**	**481.6**	**114.2**	**322.4**	**8.5**	**45.8**	**413.8**	**1.4**	**44.1**	**836.0**	**—**	**2.0**	**1,433.7**	**-221.3**	**447.7**	**1,660.1**

[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 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 216. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, North Dakota

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.56**	**0.99**	**1.28**	**1.65**	**2.07**	**1.62**	**—**	**1.37**	**7.80**	**2.54**
1971	2.02	1.07	1.36	1.63	2.03	1.67	—	1.42	7.82	2.69
1972	2.24	1.10	1.36	1.63	2.07	1.68	—	1.42	8.02	2.69
1973	1.40	1.12	1.58	1.92	3.58	2.52	—	1.86	8.06	3.28
1974	2.60	1.19	2.51	2.67	3.56	3.01	—	2.10	8.48	3.58
1975	**3.09**	**1.51**	**2.55**	**2.69**	**3.51**	**3.02**	**—**	**2.25**	**9.18**	**3.95**
1976	3.64	1.79	2.80	2.99	4.13	3.53	—	2.62	9.74	4.50
1977	1.63	2.11	3.20	3.40	4.72	4.14	—	2.88	10.46	5.06
1978	1.77	2.33	3.38	3.61	4.61	4.18	—	2.96	11.03	5.20
1979	1.81	2.88	4.83	—	6.22	5.15	—	3.96	11.50	5.91
1980	**1.96**	**3.66**	**6.92**	**7.39**	**7.48**	**7.04**	**—**	**5.12**	**13.14**	**7.52**
1981	1.17	4.10	8.30	9.04	7.54	8.10	—	5.82	15.12	8.85
1982	2.78	4.50	8.07	9.04	7.91	8.05	—	5.68	16.51	9.39
1983	2.17	5.33	7.80	8.23	7.92	7.83	—	6.11	17.91	10.07
1984	2.73	6.08	7.67	8.29	8.22	7.72	—	6.45	17.76	10.52
1985	**1.74**	**5.26**	**7.48**	**8.09**	**8.46**	**7.57**	**—**	**5.97**	**18.02**	**10.18**
1986	1.53	5.08	4.84	5.24	6.13	5.19	—	4.98	18.20	9.56
1987	1.45	5.22	5.34	5.77	5.13	5.28	—	5.14	18.44	10.00
1988	1.15	4.88	4.66	5.04	5.24	4.85	—	4.74	18.26	9.57
1989	1.13	4.46	5.55	6.00	7.32	6.20	—	5.08	18.01	9.57
1990	**1.10**	**4.55**	**6.87**	**7.42**	**7.98**	**7.23**	**[d] 3.56**	**[d] 5.49**	**[R] 18.33**	**[d] 9.71**
1991	1.45	4.61	6.38	6.89	7.09	6.66	3.56	5.35	[R] 18.21	[R] 9.32
1992	1.11	4.78	5.21	5.63	7.01	6.13	3.56	5.17	[R] 18.55	9.46
1993	0.92	4.93	6.05	6.54	6.26	6.14	3.56	5.19	[R] 18.50	[R] 9.61
1994	0.92	4.91	6.12	6.61	[R] 7.13	[R] 6.50	3.56	[R] 5.28	[R] 18.67	[R] 9.83
1995	**1.12**	**4.44**	**6.12**	**6.62**	**6.91**	**6.43**	**3.56**	**5.04**	**18.25**	**9.49**
	Expenditures in Million Nominal Dollars									
1970	**1.2**	**8.4**	**8.2**	**1.8**	**10.0**	**20.0**	**—**	**29.6**	**37.2**	**66.8**
1971	1.3	9.3	7.0	1.7	9.7	18.4	—	29.0	39.3	68.3
1972	1.2	11.7	8.1	1.3	10.2	19.6	—	32.5	43.7	76.2
1973	0.7	9.4	7.5	1.0	16.0	24.5	—	34.6	44.6	79.2
1974	2.2	11.4	11.8	0.3	15.5	27.7	—	41.3	50.3	91.6
1975	**2.3**	**15.4**	**11.5**	**0.3**	**15.4**	**27.3**	**—**	**44.9**	**59.5**	**104.4**
1976	2.2	18.2	10.7	0.5	19.4	30.6	—	51.0	68.1	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	22.9	32.1	—	63.2	90.3	153.6
1979	1.6	33.3	44.9	—	17.7	62.5	—	97.5	98.7	196.2
1980	**1.3**	**37.1**	**47.3**	**0.2**	**14.0**	**61.6**	**—**	**100.0**	**110.1**	**210.1**
1981	0.9	38.3	51.5	0.7	17.9	70.2	—	109.4	136.7	246.1
1982	2.8	50.4	42.9	1.1	10.7	54.7	—	107.9	163.3	271.3
1983	2.4	53.9	41.6	0.9	12.8	55.2	—	111.5	165.1	276.7
1984	3.1	63.6	44.2	0.8	3.8	48.8	—	115.6	179.0	294.5
1985	**1.6**	**57.9**	**48.8**	**0.6**	**5.2**	**54.5**	**—**	**114.0**	**185.1**	**299.1**
1986	1.2	49.5	29.8	0.2	13.9	43.9	—	94.7	183.5	278.1
1987	0.7	44.1	27.8	0.2	12.0	40.0	—	84.8	175.4	260.2
1988	0.7	47.1	26.2	0.2	14.4	40.8	—	88.6	190.0	278.7
1989	0.9	46.0	29.5	0.3	22.6	52.4	—	99.3	188.0	287.4
1990	**0.7**	**43.2**	**33.8**	**0.2**	**18.9**	**52.9**	**[d] 1.9**	**[d] 98.6**	**[R] 184.8**	**[d R] 283.4**
1991	1.0	49.8	33.5	0.3	25.0	58.8	2.0	111.6	[R] 192.4	[R] 304.0
1992	0.7	48.5	19.5	0.2	27.5	47.1	2.1	98.4	[R] 191.1	[R] 289.5
1993	0.7	56.0	26.5	0.3	17.2	44.0	1.7	102.4	[R] 202.5	[R] 305.0
1994	0.7	55.3	26.1	0.2	[R] 18.0	[R] 44.3	1.7	[R] 102.0	[R] 206.6	[R] 308.6
1995	**0.7**	**52.2**	**27.6**	**0.1**	**19.4**	**47.2**	**1.9**	**102.0**	**210.7**	**312.6**

[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.

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 217. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, North Dakota

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.74**	**0.67**	**1.06**	**—**	**1.30**	**2.83**	**0.84**	**1.45**	**0.89**	**6.62**	**1.74**
1971	0.63	0.74	1.09	—	1.38	2.97	0.82	1.60	0.94	6.57	1.73
1972	0.77	0.78	1.09	—	1.38	2.60	0.88	1.34	0.92	6.79	1.75
1973	0.69	0.85	1.33	—	1.43	3.13	0.80	1.43	0.99	6.82	1.90
1974	1.01	1.00	2.27	—	2.50	4.22	1.69	2.16	1.35	7.26	2.12
1975	**1.26**	**1.11**	**2.34**	**—**	**2.63**	**4.69**	**1.69**	**2.23**	**1.43**	**7.84**	**2.23**
1976	1.60	1.35	2.56	—	2.98	4.99	1.65	2.30	1.63	8.52	2.59
1977	1.82	1.67	2.93	—	3.20	5.31	1.99	2.70	1.93	9.17	3.04
1978	1.52	1.94	3.06	—	2.48	5.52	1.82	2.48	2.01	9.83	3.35
1979	1.68	2.47	4.54	—	4.19	7.38	2.32	3.64	2.75	10.33	4.02
1980	**2.63**	**3.26**	**6.45**	**—**	**5.23**	**9.97**	**3.78**	**5.63**	**4.06**	**12.16**	**5.39**
1981	2.70	3.51	7.80	—	5.69	11.02	5.52	7.69	4.42	14.15	6.59
1982	2.71	3.99	7.46	7.40	5.62	10.52	4.63	6.59	4.35	14.88	6.62
1983	2.94	4.84	6.37	6.82	5.87	9.75	3.87	6.17	4.94	16.74	7.40
1984	2.81	5.58	6.37	7.40	5.75	9.51	4.13	6.07	5.32	17.20	8.81
1985	**3.21**	**4.81**	**6.03**	**7.03**	**[R] 8.66**	**9.64**	**3.49**	**[R] 6.18**	**4.96**	**17.54**	**8.73**
1986	3.11	4.59	3.69	4.54	[R] 8.58	6.92	1.92	[R] 4.43	[R] 4.40	17.53	8.69
1987	2.80	4.53	4.27	5.11	[R] 5.67	7.53	1.61	[R] 4.79	[R] 4.45	17.25	[R] 9.15
1988	2.66	4.25	3.86	4.73	[R] 5.22	8.05	2.49	[R] 4.77	[R] 4.19	17.41	[R] 8.58
1989	2.74	3.99	4.52	5.38	[R] 3.82	8.88	2.58	[R] 4.84	[R] 3.99	16.95	[R] 8.08
1990	**2.82**	**4.06**	**5.50**	**6.57**	**[R] 6.47**	**9.87**	**2.64**	**[R] 6.38**	**[R] 4.26**	**[R] 17.10**	**[R] 8.96**
1991	2.70	4.15	4.88	5.85	[R] 8.76	9.57	2.35	[R] 6.72	[R] 4.36	[R] 17.05	[R] 8.98
1992	2.68	4.33	4.68	5.78	[R] 8.12	9.29	2.30	[R] 6.32	[R] 4.47	[R] 17.22	[R] 9.18
1993	2.71	4.48	4.50	5.60	[R] 9.28	9.34	2.37	[R] 6.10	[R] 4.49	17.45	[R] 9.15
1994	2.70	4.23	4.29	[R] 5.44	[R] 8.14	9.12	2.51	[R] 5.34	[R] 4.22	[R] 17.18	[R] 8.94
1995	**2.61**	**3.71**	**4.30**	**5.45**	**8.17**	**9.11**	**2.38**	**5.51**	**3.83**	**17.12**	**8.93**
	Expenditures in Million Nominal Dollars										
1970	**1.0**	**5.8**	**1.5**	**—**	**1.1**	**2.2**	**0.5**	**5.4**	**12.2**	**15.7**	**27.9**
1971	0.7	6.9	1.3	—	1.2	2.5	0.4	5.3	13.0	15.0	27.9
1972	0.8	8.0	1.5	—	1.2	1.6	0.9	5.2	13.9	16.7	30.6
1973	0.7	8.6	1.4	—	1.1	1.8	1.1	5.5	14.8	18.9	33.7
1974	1.6	11.5	2.4	—	1.9	2.4	5.7	12.4	25.6	20.7	46.2
1975	**1.7**	**13.7**	**2.4**	**—**	**2.0**	**2.3**	**5.2**	**12.0**	**27.5**	**21.5**	**49.0**
1976	1.8	16.5	2.2	—	2.5	2.1	4.8	11.5	29.9	25.3	55.2
1977	3.0	18.8	1.7	—	2.5	2.1	4.3	10.6	32.3	28.1	60.4
1978	3.6	23.0	1.8	—	2.2	2.3	4.5	10.8	37.4	37.5	74.9
1979	2.7	29.8	9.6	—	2.1	2.8	6.3	20.7	53.2	40.4	93.6
1980	**3.2**	**37.8**	**24.1**	**—**	**1.7**	**3.8**	**9.5**	**39.2**	**80.3**	**47.5**	**127.8**
1981	3.9	34.4	17.8	—	2.4	4.6	2.1	26.9	65.3	60.0	125.3
1982	5.0	46.5	9.1	0.2	1.3	4.5	6.1	21.3	72.8	68.4	141.2
1983	6.0	49.7	15.7	(s)	1.7	4.3	3.4	25.1	80.8	72.2	153.0
1984	6.0	58.3	16.9	(s)	0.5	1.0	2.4	20.8	85.0	114.5	199.5
1985	**5.4**	**51.7**	**17.0**	**(s)**	**0.9**	**3.5**	**1.4**	**22.8**	**79.9**	**121.2**	**[R] 201.2**
1986	4.7	43.5	6.7	(s)	[R] 3.4	2.6	0.9	[R] 13.7	[R] 61.9	119.9	[R] 181.7
1987	2.5	37.6	6.0	(s)	[R] 2.3	2.9	0.3	[R] 11.6	[R] 51.7	116.0	[R] 167.6
1988	3.2	44.0	3.5	(s)	[R] 2.5	3.1	0.7	[R] 9.8	[R] 57.0	118.0	[R] 175.0
1989	4.1	44.5	4.9	(s)	[R] 2.1	2.8	0.4	[R] 10.3	[R] 58.8	115.0	[R] 173.8
1990	**3.4**	**42.9**	**4.8**	**(s)**	**[R] 2.7**	**3.6**	**0.4**	**[R] 11.5**	**[R] 57.9**	**[R] 134.2**	**[R] 192.0**
1991	3.3	46.6	4.5	(s)	[R] 5.5	2.2	0.1	[R] 12.3	[R] 62.2	[R] 139.5	[R] 201.7
1992	3.1	44.1	4.3	(s)	[R] 5.6	1.8	0.2	[R] 11.9	[R] 59.1	[R] 133.6	[R] 192.6
1993	3.6	50.5	3.8	(s)	[R] 4.5	0.5	0.2	[R] 9.0	[R] 63.1	[R] 138.1	[R] 201.2
1994	3.6	48.3	4.8	(s)	[R] 3.6	0.5	0.2	[R] 9.2	[R] 61.1	[R] 142.2	[R] 203.4
1995	**2.9**	**45.4**	**4.0**	**(s)**	**4.0**	**0.5**	**0.3**	**8.9**	**57.2**	**159.4**	**216.5**

[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.
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 218. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, North Dakota

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**5.08**	**2.83**	**0.94**	**0.51**	**R 1.44**	**—**	**1.30**	**5.95**	**1.52**
1971	—	0.63	0.63	0.43	0.92	0.78	0.85	1.38	5.27	2.97	1.05	0.61	1.54	—	1.39	5.97	R 1.64
1972	—	0.77	0.77	0.48	0.90	0.78	0.84	1.38	5.58	2.60	1.05	0.58	R 1.43	—	1.29	6.28	R 1.62
1973	—	0.69	0.69	0.53	0.90	1.02	1.10	1.43	5.33	3.13	1.30	0.60	R 1.70	—	R 1.55	6.36	R 1.95
1974	—	1.01	1.01	0.64	1.84	2.19	2.36	2.50	7.22	4.22	1.64	R 0.80	R 2.68	—	R 2.39	6.96	R 2.78
1975	**—**	**1.26**	**1.26**	**1.00**	**2.08**	**2.72**	**2.90**	**2.63**	**7.48**	**4.69**	**1.94**	**1.40**	**R 3.14**	**—**	**R 2.72**	**8.00**	**R 3.10**
1976	—	1.60	1.60	1.33	2.01	2.99	3.22	2.98	7.05	4.99	1.82	R 1.54	R 3.28	—	R 2.94	8.36	R 3.39
1977	—	1.82	1.82	1.71	2.07	2.75	2.96	3.20	6.97	5.31	1.92	R 1.81	R 3.43	—	R 3.05	9.00	R 3.62
1978	—	1.52	1.52	1.96	2.18	2.98	3.25	2.48	7.60	5.52	2.01	R 1.60	R 3.49	—	R 2.96	9.21	R 3.62
1979	—	1.68	1.68	2.50	2.58	4.26	—	4.19	10.21	7.38	2.53	R 1.83	R 4.63	—	R 3.96	9.38	R 4.48
1980	**—**	**2.63**	**2.63**	**2.58**	**3.85**	**5.50**	**5.76**	**5.23**	**14.36**	**9.97**	**3.19**	**R 2.44**	**R 6.04**	**—**	**R 5.34**	**9.94**	**R 5.85**
1981	—	2.70	2.70	3.93	5.46	6.68	—	5.69	18.00	11.02	3.81	R 2.89	R 6.62	—	R 5.98	12.06	R 6.64
1982	—	2.71	2.71	4.21	4.66	7.00	—	5.62	17.25	10.52	3.83	R 2.19	R 6.74	—	R 5.89	14.52	R 6.82
1983	—	2.94	2.94	4.56	4.85	6.67	6.82	5.87	16.98	9.75	3.95	R 1.74	R 6.08	—	R 5.53	15.26	R 6.61
1984	—	2.81	2.81	4.23	5.02	6.61	7.40	5.75	17.63	9.51	4.13	R 1.88	R 6.11	—	R 4.45	15.15	R 5.31
1985	**—**	**3.21**	**3.21**	**4.19**	**5.17**	**6.28**	**7.03**	**R 8.66**	**17.61**	**9.64**	**3.49**	**R 2.02**	**R 6.29**	**—**	**R 4.21**	**15.27**	**R 4.85**
1986	—	3.11	3.11	3.92	4.07	4.06	4.54	R 8.58	15.59	6.92	1.92	1.53	R 4.68	—	R 3.60	15.60	R 4.20
1987	—	2.80	2.80	3.09	3.74	4.56	5.11	R 5.67	R 13.58	7.53	1.61	1.50	R 4.71	—	R 3.32	15.05	R 3.87
1988	—	2.66	2.66	3.23	3.53	4.22	4.73	R 5.22	R 14.62	8.05	2.49	1.45	R 4.48	—	R 3.17	14.44	R 3.79
1989	—	2.74	2.74	3.38	3.13	4.81	5.38	R 3.82	14.48	8.88	2.58	1.74	R 4.68	—	R 3.27	14.56	R 3.84
1990	**—**	**2.82**	**2.82**	**3.24**	**3.32**	**5.87**	**6.57**	**R 6.47**	**14.60**	**9.87**	**2.64**	**2.02**	**R 5.60**	**[d] —**	**[d] R 3.54**	**R 14.05**	**[d] R 4.03**
1991	—	2.70	2.70	3.05	3.36	5.22	5.85	R 8.76	R 16.80	9.57	2.35	1.72	R 5.48	—	R 3.48	R 14.26	R 3.97
1992	—	2.68	2.68	3.11	2.58	5.16	5.78	R 8.12	R 18.32	9.29	2.30	1.29	R 4.73	—	R 3.25	R 14.27	R 3.72
1993	—	2.71	2.71	3.23	3.00	5.00	5.60	R 9.28	R 18.96	9.34	2.37	1.06	R 4.92	—	R 3.29	R 14.22	R 3.80
1994	—	2.70	2.70	3.13	3.00	4.86	5.44	R 7.14	R 19.11	9.12	2.51	1.14	R 4.68	0.95	R 3.25	R 13.81	R 3.75
1995	**—**	**2.61**	**2.61**	**2.76**	**3.29**	**4.87**	**5.45**	**7.49**	**19.40**	**9.11**	**2.38**	**1.34**	**5.06**	**0.99**	**3.21**	**13.19**	**3.61**
	Expenditures in Million Nominal Dollars																
1970	**—**	**5.4**	**5.4**	**0.7**	**7.3**	**10.0**	**0.3**	**1.0**	**0.9**	**34.4**	**2.3**	**R 0.9**	**R 57.1**	**—**	**R 63.1**	**14.3**	**R 77.4**
1971	—	3.7	3.7	0.7	10.4	9.5	0.3	1.1	0.6	38.0	1.3	R 1.1	R 62.4	—	R 66.8	17.0	R 83.8
1972	—	4.5	4.5	1.4	7.3	9.5	0.2	1.4	0.7	32.1	3.0	R 1.1	R 55.2	—	R 61.1	21.5	R 82.6
1973	—	3.2	3.2	0.8	9.0	10.1	0.3	1.0	1.8	38.6	4.2	R 1.4	R 66.4	—	R 70.4	26.0	R 96.3
1974	—	4.4	4.4	1.7	16.3	20.6	1.1	1.9	2.3	50.2	4.9	R 1.8	R 99.0	—	R 105.1	28.2	R 133.3
1975	**—**	**9.4**	**9.4**	**1.9**	**14.6**	**25.6**	**0.8**	**1.8**	**1.0**	**54.1**	**4.6**	**R 3.2**	**R 105.6**	**—**	**R 116.8**	**27.0**	**R 143.8**
1976	—	7.8	7.8	3.4	14.6	22.6	0.6	1.8	1.0	55.0	4.5	R 3.8	R 103.9	—	R 115.0	29.4	R 144.4
1977	—	11.6	11.6	4.0	12.5	16.0	0.8	2.3	1.1	54.6	4.2	R 4.4	R 95.9	—	R 111.5	35.4	R 146.9
1978	—	13.8	13.8	4.6	16.6	17.2	1.1	3.2	1.3	55.8	3.4	R 3.9	R 102.4	—	R 120.8	43.9	R 164.7
1979	—	17.1	17.1	3.8	15.7	70.6	—	11.3	1.8	70.7	0.5	R 4.7	R 175.3	—	R 196.2	49.5	R 245.7
1980	**—**	**20.2**	**20.2**	**2.6**	**19.2**	**78.8**	**0.3**	**13.0**	**2.3**	**80.7**	**4.1**	**R 6.0**	**R 204.4**	**—**	**R 227.2**	**52.6**	**R 279.8**
1981	—	17.4	17.4	5.5	27.0	115.2	—	11.5	2.7	67.3	20.0	R 5.6	R 249.3	—	R 272.2	66.8	R 339.1
1982	—	23.8	23.8	7.8	23.5	114.6	—	16.6	2.4	72.1	10.7	R 4.7	R 244.7	—	R 276.2	82.8	R 359.1
1983	—	21.8	21.8	7.7	35.1	91.7	0.1	15.3	2.5	58.7	22.2	R 4.1	R 229.8	—	R 259.3	89.9	R 349.2
1984	—	90.3	90.3	21.3	33.2	98.3	R (s)	6.2	2.7	42.1	12.9	R 4.7	R 200.1	—	R 311.8	92.7	R 404.5
1985	**—**	**228.0**	**228.0**	**8.7**	**35.9**	**101.6**	**(s)**	**R 10.3**	**2.5**	**54.7**	**4.8**	**R 5.6**	**R 215.4**	**—**	**R 452.2**	**101.1**	**R 553.3**
1986	—	251.5	251.5	10.3	23.7	72.6	0.2	R 29.6	2.2	33.6	2.2	R 3.8	R 167.8	—	R 429.6	97.9	R 527.5
1987	—	245.1	245.1	7.7	22.0	68.3	(s)	R 20.4	R 2.2	40.6	2.3	R 3.7	R 159.4	—	R 412.2	91.8	R 504.0
1988	—	219.4	219.4	12.3	22.4	60.4	0.2	R 13.1	2.2	37.9	3.3	R 3.8	R 143.4	—	R 375.0	99.3	R 474.3
1989	—	244.0	244.0	15.0	19.2	77.8	(s)	R 9.9	2.3	38.2	3.0	R 4.5	R 155.0	—	R 414.0	97.5	R 511.5
1990	**—**	**243.2**	**243.2**	**12.9**	**17.9**	**88.7**	**(s)**	**R 14.4**	**2.4**	**41.2**	**3.7**	**R 4.9**	**R 173.1**	**[d] —**	**[d] R 429.2**	**R 82.2**	**[d] R 511.4**
1991	—	228.0	228.0	13.7	17.3	93.1	0.1	R 26.5	2.4	39.4	2.7	R 4.2	R 185.7	—	R 427.4	R 83.5	R 510.9
1992	—	249.6	249.6	17.2	25.1	88.3	(s)	R 13.9	R 2.7	35.1	2.5	R 3.4	R 171.0	—	R 437.8	R 87.1	R 524.8
1993	—	248.2	248.2	18.5	18.2	85.9	(s)	R 14.9	2.8	33.1	3.8	R 2.9	R 161.5	—	R 428.3	R 90.0	R 518.2
1994	—	253.7	253.7	16.7	24.9	91.4	(s)	R 12.0	3.0	33.5	3.2	R 3.0	R 171.0	(s)	R 441.5	R 92.3	R 533.8
1995	**—**	**259.1**	**259.1**	**16.5**	**17.3**	**92.5**	**(s)**	**21.9**	**3.0**	**32.8**	**1.1**	**3.5**	**172.1**	**0.1**	**447.7**	**77.7**	**525.5**

[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=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 219. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, North Dakota

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.74**	**—**	**2.17**	**1.33**	**0.75**	**1.30**	**5.08**	**2.83**	**0.83**	**2.19**	**2.19**	**—**	**2.19**
1971	0.63	—	2.21	1.32	0.78	1.38	5.27	2.97	0.82	2.25	2.25	—	2.25
1972	0.77	—	2.19	1.33	0.78	1.38	5.58	2.60	—	2.08	2.08	—	2.08
1973	0.69	—	2.36	1.60	0.93	1.43	5.33	3.13	—	2.50	2.50	—	2.50
1974	1.01	—	3.23	2.55	1.60	2.50	7.22	4.22	—	3.50	3.50	—	3.50
1975	**1.26**	**—**	**3.45**	**2.67**	**2.09**	**2.63**	**7.48**	**4.69**	**—**	**3.95**	**3.95**	**—**	**3.95**
1976	1.60	—	3.59	2.92	2.26	2.98	7.05	4.99	—	4.25	4.25	—	4.25
1977	1.82	—	3.97	3.26	2.69	3.20	6.97	5.31	—	4.51	4.51	—	4.51
1978	—	—	4.29	3.40	2.90	2.48	7.60	5.52	—	4.73	4.73	—	4.73
1979	—	—	5.73	5.09	4.03	4.19	10.21	7.38	2.20	6.32	6.32	—	6.32
1980	**—**	**—**	**9.02**	**7.23**	**6.47**	**5.23**	**14.36**	**9.97**	**—**	**8.74**	**8.74**	**—**	**8.74**
1981	—	—	10.84	8.57	7.60	5.69	18.00	11.02	—	10.03	10.03	—	10.03
1982	—	—	10.92	8.24	7.19	5.62	17.25	10.52	4.25	9.41	9.41	—	9.41
1983	—	—	10.44	7.28	6.91	5.87	16.98	9.75	3.89	8.82	8.82	—	8.82
1984	—	—	10.27	7.42	6.83	5.75	17.63	9.51	4.60	8.71	8.71	—	8.71
1985	**—**	**—**	**9.99**	**7.12**	**6.44**	**[R] 8.66**	**17.61**	**9.64**	**—**	**8.65**	**8.65**	**—**	**8.65**
1986	—	—	8.41	6.46	4.90	[R] 8.58	15.59	6.92	2.34	6.64	6.64	—	6.64
1987	—	—	7.55	6.97	4.64	[R] 5.67	[R] 13.58	7.53	—	[R] 7.17	[R] 7.17	—	[R] 7.17
1988	—	—	7.41	7.14	4.37	[R] 5.22	[R] 14.62	8.05	—	7.49	7.49	—	7.49
1989	—	—	8.28	7.73	4.77	[R] 3.82	14.48	8.88	—	8.19	8.19	—	8.19
1990	**—**	**4.18**	**9.32**	**8.96**	**6.11**	**[R] 6.47**	**14.60**	**9.87**	**—**	**9.30**	**9.30**	**—**	**9.30**
1991	—	3.19	8.71	8.50	5.17	[R] 8.76	[R] 16.80	9.57	—	8.99	8.99	—	8.99
1992	—	4.07	8.54	8.32	4.89	[R] 8.12	[R] 18.32	9.29	—	[R] 8.63	[R] 8.63	—	[R] 8.63
1993	—	4.35	8.24	8.42	4.81	[R] 9.28	[R] 18.96	9.34	—	8.74	8.74	—	8.74
1994	—	3.96	7.96	8.15	4.57	[R] 9.11	[R] 19.11	9.12	—	8.62	8.62	—	8.62
1995	**—**	**2.58**	**8.36**	**7.91**	**4.54**	**9.46**	**19.40**	**9.11**	**—**	**8.69**	**8.69**	**—**	**8.69**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**1.0**	**11.1**	**8.3**	**(s)**	**4.2**	**93.6**	**0.2**	**118.6**	**118.6**	**—**	**118.6**
1971	(s)	—	1.3	13.4	9.4	(s)	4.1	102.7	0.1	130.9	130.9	—	130.9
1972	(s)	—	1.1	14.4	8.6	(s)	4.6	97.0	—	125.8	125.8	—	125.8
1973	(s)	—	1.1	19.1	9.3	(s)	3.4	124.0	—	156.9	156.9	—	156.9
1974	(s)	—	1.5	26.9	16.8	(s)	4.4	161.0	—	210.7	210.7	—	210.7
1975	**(s)**	**—**	**1.5**	**29.2**	**20.9**	**(s)**	**6.2**	**191.2**	**—**	**249.1**	**249.1**	**—**	**249.1**
1976	(s)	—	1.5	33.3	22.0	(s)	6.5	216.1	—	279.5	279.5	—	279.5
1977	(s)	—	1.6	48.2	27.7	(s)	6.4	234.4	—	318.4	318.4	—	318.4
1978	—	—	2.1	52.7	28.8	0.1	7.5	254.5	—	345.6	345.6	—	345.6
1979	—	—	2.9	100.2	39.8	0.1	10.5	306.1	0.6	460.3	460.3	—	460.3
1980	**—**	**—**	**2.9**	**159.9**	**59.7**	**0.2**	**13.2**	**395.6**	**—**	**631.5**	**631.5**	**—**	**631.5**
1981	—	—	2.5	158.2	67.0	2.5	15.9	479.1	—	725.3	725.3	—	725.3
1982	—	—	1.9	154.7	61.5	3.3	13.9	439.5	8.4	683.1	683.1	—	683.1
1983	—	—	1.3	129.8	55.7	4.1	14.3	398.8	(s)	603.9	603.9	—	603.9
1984	—	—	1.6	143.4	62.8	0.4	15.8	400.1	(s)	624.2	624.2	—	624.2
1985	**—**	**—**	**0.2**	**126.3**	**58.3**	**0.3**	**14.7**	**388.6**	**—**	**588.4**	**588.4**	**—**	**588.4**
1986	—	—	1.6	108.9	43.5	0.7	12.7	275.5	(s)	443.0	443.0	—	443.0
1987	—	—	1.1	124.1	31.5	0.3	[R] 12.6	305.4	—	[R] 474.9	[R] 474.9	—	[R] 474.9
1988	—	—	1.2	130.8	31.0	0.3	13.0	322.7	—	499.0	499.0	—	499.0
1989	—	—	1.3	137.7	34.5	0.2	13.2	350.6	—	537.6	537.6	—	537.6
1990	**—**	**(s)**	**1.3**	**162.7**	**39.0**	**0.3**	**13.7**	**375.3**	**—**	**592.4**	**592.4**	**—**	**592.4**
1991	—	(s)	1.2	159.4	27.0	0.5	14.1	373.3	—	[R] 575.6	[R] 575.6	—	[R] 575.6
1992	—	(s)	1.2	156.9	37.1	0.5	[R] 15.7	365.0	—	[R] 576.4	[R] 576.4	—	[R] 576.4
1993	—	(s)	2.6	173.1	32.6	0.6	[R] 16.6	382.7	—	[R] 608.1	608.1	—	608.1
1994	—	(s)	1.7	193.0	21.1	[R] 0.7	17.5	368.1	—	[R] 602.0	602.1	—	602.1
1995	**—**	**(s)**	**2.7**	**195.8**	**8.5**	**0.5**	**17.4**	**380.5**	**—**	**605.4**	**605.5**	**—**	**605.5**

[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.
Sources: 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, 1970-1995, North Dakota

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.25**	**0.35**	**0.90**	**1.23**	**—**	**0.96**	**—**	**—**	**0.25**
1971	0.25	0.39	0.88	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	—	—	0.16
1974	0.18	0.45	1.67	2.04	—	1.71	—	—	0.18
1975	**0.26**	**0.66**	**1.93**	**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**	**—**	**6.07**	**—**	**6.07**	**—**	**—**	**0.57**
1981	0.68	4.22	—	7.54	—	7.54	—	—	0.70
1982	0.81	3.18	—	7.18	—	7.18	—	—	0.82
1983	0.83	4.40	—	5.76	—	5.76	—	—	0.84
1984	0.87	5.69	—	5.91	—	5.91	—	—	0.89
1985	**0.88**	**4.74**	**—**	**5.52**	**—**	**5.52**	**—**	**—**	**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**	**—**	**5.60**	**—**	**5.60**	**—**	**—**	**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
1995	**0.73**	**3.49**	**—**	**4.18**	**—**	**4.18**	**—**	**—**	**0.74**
	Expenditures in Million Nominal Dollars								
1970	**12.0**	**0.1**	**0.1**	**(s)**	**—**	**0.2**	**—**	**—**	**12.3**
1971	15.2	0.2	1.2	(s)	—	1.2	—	—	16.6
1972	17.4	0.1	0.2	0.1	—	0.2	—	—	17.8
1973	10.5	0.1	(s)	(s)	—	0.1	—	—	10.7
1974	12.3	(s)	0.2	(s)	—	0.2	—	—	12.5
1975	**15.4**	**0.1**	**0.2**	**(s)**	**—**	**0.2**	**—**	**—**	**15.8**
1976	24.7	(s)	0.3	0.3	—	0.5	—	—	25.3
1977	38.0	(s)	0.9	0.3	—	1.3	—	—	39.3
1978	46.0	(s)	0.5	0.4	—	1.0	—	—	47.0
1979	63.3	(s)	0.9	3.3	—	4.2	—	—	67.6
1980	**85.5**	**(s)**	**—**	**2.4**	**—**	**2.4**	**—**	**—**	**87.9**
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**	**(s)**	**—**	**2.4**	**—**	**2.4**	**—**	**—**	**203.4**
1986	186.8	(s)	—	1.2	—	1.2	—	—	188.0
1987	182.5	(s)	—	1.2	—	1.2	—	—	183.8
1988	200.8	(s)	—	1.0	—	1.0	—	—	201.8
1989	187.6	(s)	—	1.9	—	1.9	—	—	189.4
1990	**196.5**	**(s)**	**—**	**1.8**	**—**	**1.8**	**—**	**—**	**198.3**
1991	207.7	(s)	—	1.8	—	1.8	—	—	209.5
1992	219.3	(s)	—	1.6	—	1.6	—	—	220.9
1993	218.5	(s)	—	1.8	—	1.8	—	—	220.3
1994	215.8	(s)	—	2.7	—	2.7	—	—	218.5
1995	**218.9**	**(s)**	**—**	**2.4**	**—**	**2.4**	**—**	**—**	**221.3**

[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 221. Energy Price and Expenditure Estimates by Source, 1970-1995, Ohio

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	**0.42**	**0.33**	**0.35**	**0.74**	**1.13**	**0.74**	**1.73**	**2.93**	**0.61**	R **1.54**	R **2.18**	**—**	**0.65**	R **0.98**	**0.30**	**4.68**	**1.50**
1971	0.50	0.38	0.40	0.79	1.22	0.78	1.75	3.03	0.69	R 1.64	R 2.28	—	0.69	1.06	0.36	4.93	1.65
1972	0.58	0.41	0.44	0.84	1.23	0.82	1.77	3.03	0.71	R 1.72	R 2.27	—	0.72	1.09	0.39	4.97	1.70
1973	0.66	0.45	0.50	0.88	1.30	0.95	2.49	3.09	0.84	R 1.72	2.34	—	0.77	1.16	0.44	5.11	1.83
1974	1.30	0.92	1.00	1.01	2.39	1.62	3.36	4.45	2.13	R 2.75	R 3.56	—	0.84	1.76	0.91	6.68	2.58
1975	**1.57**	**1.03**	**1.14**	**1.30**	**2.53**	**2.09**	**3.73**	**4.73**	**2.14**	R **3.06**	R **3.80**	**—**	**0.92**	**2.00**	**0.98**	**7.94**	**3.05**
1976	1.53	1.00	1.11	1.56	2.73	2.36	3.76	4.83	1.93	R 3.18	R 3.86	—	0.98	2.10	0.98	7.97	3.20
1977	1.53	1.07	1.17	2.03	3.10	2.68	4.33	5.08	2.34	R 3.25	R 4.10	0.19	1.04	2.36	1.06	9.02	3.71
1978	1.76	1.28	1.38	2.19	3.28	2.87	4.21	5.14	2.38	R 3.41	R 4.19	0.27	1.12	2.52	1.28	10.21	R 3.96
1979	1.76	1.36	1.44	2.53	4.63	3.91	4.47	6.90	2.83	R 4.62	5.57	0.25	1.56	3.10	1.34	11.13	4.85
1980	**2.00**	**1.47**	**1.56**	**3.27**	**6.44**	**6.38**	**5.48**	**9.45**	**3.34**	R **7.05**	**7.70**	**0.28**	**1.74**	**4.08**	**1.50**	**12.97**	R **6.24**
1981	2.35	1.64	1.76	3.64	7.89	7.55	6.09	10.63	4.59	R 9.00	R 9.05	0.44	1.24	4.58	1.62	14.80	7.14
1982	2.43	1.71	1.81	4.56	7.91	7.22	6.92	10.29	4.65	R 7.85	R 8.91	0.53	1.28	R 4.82	1.71	17.45	R 7.81
1983	2.18	1.70	1.74	5.50	7.71	6.73	7.48	9.42	4.42	R 7.65	R 8.47	0.61	1.12	R 4.88	1.68	18.07	R 8.22
1984	2.10	1.70	1.74	5.44	7.80	6.46	7.51	9.10	4.60	R 8.04	R 8.42	0.67	1.28	R 4.81	1.69	16.79	R 8.07
1985	**2.05**	**1.68**	**1.72**	**5.32**	**7.69**	**6.04**	R **9.92**	**9.15**	**4.21**	R **7.78**	R **8.60**	**1.09**	**0.79**	**4.81**	**1.70**	**16.90**	R **8.25**
1986	2.04	1.62	1.66	5.11	5.83	3.85	R 9.16	6.78	2.60	R 6.31	R 6.46	0.72	0.32	4.01	1.63	17.23	R 7.33
1987	1.72	1.55	1.56	4.70	6.07	4.04	R 8.68	7.36	2.84	R 6.00	6.78	0.73	0.95	3.92	1.51	16.97	7.34
1988	1.73	1.51	1.53	4.55	5.95	3.92	R 8.71	7.43	2.50	R 6.14	R 6.79	1.33	0.87	3.87	1.52	16.90	R 7.23
1989	1.75	1.48	1.51	4.65	6.64	4.49	R 9.58	8.18	2.62	R 5.70	R 7.32	1.32	([d])	4.06	1.48	16.83	R 7.63
1990	**1.80**	**1.51**	**1.54**	**4.53**	**7.84**	**5.73**	R **10.70**	**9.35**	**2.60**	R **6.13**	R **8.36**	**1.24**	e R **2.15**	e R **4.33**	**1.50**	R **17.34**	e R **8.19**
1991	1.72	1.48	1.49	4.53	7.44	4.95	R 10.33	9.23	2.35	R 6.20	R 8.20	1.14	R 2.11	4.21	1.45	17.98	R 8.33
1992	1.74	1.44	1.46	4.55	7.15	4.64	R 9.71	8.98	2.27	R 6.08	R 7.92	1.12	2.19	R 4.15	1.40	17.84	R 8.18
1993	1.68	1.42	1.43	5.03	7.20	4.30	R 9.93	8.82	2.42	R 6.56	R 7.93	1.07	2.10	R 4.33	1.39	18.30	R 8.48
1994	1.57	1.44	1.45	5.06	7.12	4.02	R 8.17	9.08	2.64	R 6.48	R 7.91	1.06	2.16	4.40	1.42	18.21	R 8.54
1995	**1.57**	**1.42**	**1.43**	**4.58**	**7.11**	**4.02**	**8.51**	**9.21**	**2.70**	**6.67**	**8.06**	**1.00**	**2.13**	**4.27**	**1.38**	**18.37**	**8.50**
	Expenditures in Million Nominal Dollars																
1970	**146.6**	**409.5**	**556.1**	**769.2**	**224.5**	**24.4**	**56.5**	**1,637.3**	**17.6**	R **260.9**	R **2,221.2**	**—**	**(s)**	R **3,546.5**	**-245.5**	**1,344.2**	R **4,645.1**
1971	148.9	449.8	598.7	852.8	249.6	28.2	58.7	1,723.7	16.1	R 263.9	R 2,340.3	—	(s)	R 3,791.9	-316.1	1,480.5	R 4,956.2
1972	198.1	496.2	694.3	949.7	295.9	32.0	66.4	1,808.2	17.0	R 280.1	R 2,499.5	—	(s)	R 4,143.5	-365.7	1,641.3	R 5,419.1
1973	246.5	557.0	803.5	958.0	317.9	37.3	94.3	1,935.6	29.5	R 312.3	R 2,727.0	—	(s)	R 4,488.5	-452.6	1,851.0	R 5,886.8
1974	476.3	1,171.8	1,648.1	1,090.6	575.0	52.7	122.8	2,747.4	94.3	R 448.9	R 4,041.2	—	(s)	R 6,779.9	-943.1	2,400.0	R 8,236.7
1975	**519.3**	**1,328.3**	**1,847.6**	**1,243.3**	**621.6**	**70.7**	**127.6**	**2,949.3**	**117.1**	R **465.3**	R **4,351.7**	**—**	**(s)**	R **7,442.6**	**-1,046.9**	**2,773.5**	R **9,169.2**
1976	511.4	1,321.8	1,833.2	1,576.5	813.2	84.9	136.4	3,103.4	116.9	R 541.8	R 4,796.5	—	(s)	R 8,206.2	-1,088.6	3,021.8	R 10,139.3
1977	515.9	1,430.8	1,946.7	1,715.4	943.0	103.5	158.2	3,367.8	190.8	R 605.3	R 5,368.6	0.9	(s)	R 9,031.7	-1,207.2	3,658.7	R 11,483.2
1978	576.7	1,658.1	2,234.8	2,037.1	1,041.5	114.4	163.5	3,427.5	185.3	R 663.6	R 5,595.9	7.2	(s)	R 9,875.0	-1,475.3	4,109.8	R 12,509.4
1979	574.8	1,828.2	2,403.0	2,203.9	1,220.2	150.2	752.2	4,410.9	179.9	R 878.6	R 7,592.0	8.6	(s)	R 12,207.5	-1,642.6	4,564.5	R 15,129.5
1980	**549.5**	**1,840.7**	**2,390.1**	**2,887.6**	**1,828.0**	**259.2**	**883.2**	**5,623.4**	**122.1**	R **1,191.8**	R **9,907.6**	**6.4**	**(s)**	R **15,191.8**	**-1,729.9**	**4,904.7**	R **18,366.6**
1981	629.3	2,073.5	2,702.9	3,128.3	2,071.1	244.3	868.2	6,154.1	135.0	R 1,328.7	R 10,801.4	21.3	(s)	R 16,653.8	-1,878.9	5,628.6	R 20,403.5
1982	465.4	2,051.8	2,517.1	3,673.8	1,860.8	223.1	994.3	5,725.9	54.9	R 1,091.5	R 9,950.6	19.1	(s)	R 16,160.6	-1,882.6	5,976.3	R 20,254.3
1983	274.6	2,028.0	2,302.6	4,111.0	1,495.9	220.4	1,091.9	5,299.2	75.9	R 1,031.3	R 9,214.6	32.8	0.1	R 15,661.1	-1,846.3	6,508.1	R 20,322.9
1984	287.2	2,077.6	2,364.8	4,274.1	1,641.1	248.5	773.9	5,211.8	46.2	R 1,134.3	R 9,055.9	31.3	2.7	R 15,728.8	-1,875.8	6,865.5	R 20,718.5
1985	**287.8**	**2,096.1**	**2,383.9**	**3,944.8**	**1,610.5**	**245.3**	R **975.6**	**5,224.6**	**33.6**	R **1,023.6**	R **9,113.3**	**23.0**	**2.2**	R **15,467.1**	**-1,919.7**	**7,080.8**	R **20,628.1**
1986	283.0	2,090.3	2,373.3	3,711.1	1,217.0	215.8	R 479.8	3,986.7	24.5	R 885.9	R 6,809.7	0.2	0.9	R 12,895.3	-1,870.3	7,209.8	R 18,234.7
1987	246.8	1,993.0	2,239.8	3,382.8	1,184.0	246.2	R 496.2	4,477.8	27.0	R 921.1	R 7,352.3	59.0	3.5	R 13,037.4	-1,844.2	7,450.9	R 18,644.1
1988	252.4	2,007.8	2,260.2	3,688.3	1,283.8	203.8	R 345.8	4,569.4	32.7	R 832.1	R 7,267.5	120.8	3.2	R 13,340.0	-1,915.4	7,649.7	R 19,074.2
1989	247.6	1,960.4	2,208.0	3,826.1	1,478.5	263.6	R 451.8	4,994.1	29.1	R 911.0	R 8,128.2	179.7	([d])	R 14,342.1	-1,980.6	8,033.5	R 20,394.9
1990	**239.0**	**1,955.3**	**2,194.3**	**3,390.5**	**1,674.2**	**343.5**	R **416.0**	**5,394.3**	**20.5**	R **961.8**	R **8,810.2**	**141.3**	e R **55.6**	e R **14,591.9**	**-1,920.0**	R **8,321.9**	e R **20,993.8**
1991	170.7	1,939.3	2,109.9	3,509.0	1,545.6	291.0	R 409.0	5,326.0	13.3	R 905.4	R 8,490.3	182.1	R 60.3	R 14,351.6	-1,960.3	R 8,825.8	R 21,217.0
1992	175.2	1,898.0	2,073.3	3,705.8	1,596.2	279.0	R 507.2	5,127.9	15.4	R 948.7	R 8,474.4	176.6	R 59.7	R 14,489.8	-1,927.6	R 8,717.4	R 21,279.6
1993	130.3	1,921.0	2,051.3	4,221.5	1,661.7	259.1	R 531.3	5,313.3	22.1	R 949.6	R 8,737.1	114.2	R 40.7	R 15,164.8	-1,887.6	R 9,163.0	R 22,440.2
1994	129.9	1,869.2	1,999.1	4,247.9	1,791.2	265.7	R 441.1	5,401.9	21.8	R 967.9	R 8,889.6	124.3	R 40.7	R 15,301.6	-1,866.4	R 9,476.0	R 22,911.1
1995	**117.2**	**1,859.4**	**1,976.5**	**4,095.5**	**1,764.9**	**256.2**	**432.9**	**5,623.3**	**13.1**	**981.0**	**9,071.4**	**179.4**	**45.2**	**15,368.1**	**-1,925.3**	**9,828.9**	**23,271.7**

[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] There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
[d] Utilities used biomass fuels at no charge or received a fee for accepting them.
[e] 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.
(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, 1970-1995, Ohio

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.05**	**0.88**	**1.41**	**1.42**	**2.14**	**1.54**	**—**	**0.98**	**6.99**	**1.69**
1971	1.02	0.96	1.52	1.49	2.14	1.63	—	1.06	7.21	1.83
1972	1.23	1.03	1.53	1.48	2.16	1.65	—	1.13	7.34	1.92
1973	1.15	1.08	1.41	1.75	3.60	1.88	—	1.22	7.58	2.13
1974	2.57	1.21	2.36	2.80	4.13	2.76	—	1.49	9.33	2.65
1975	**2.62**	**1.47**	**2.51**	**2.90**	**4.53**	**2.96**	**—**	**1.74**	**10.93**	**3.12**
1976	2.61	1.73	2.77	3.11	4.48	3.10	—	2.01	11.25	3.36
1977	2.85	2.16	3.22	3.61	5.21	3.57	—	2.48	12.54	4.11
1978	2.73	2.37	3.42	3.78	4.79	3.67	—	2.65	13.68	4.44
1979	2.80	2.74	4.95	5.40	6.16	5.22	—	3.10	14.85	5.36
1980	**3.07**	**3.49**	**6.63**	**8.07**	**7.66**	**6.94**	**—**	**3.92**	**16.29**	**6.37**
1981	3.37	3.88	8.16	9.91	8.50	8.44	—	4.38	18.55	7.25
1982	3.28	4.83	7.95	9.86	8.47	8.31	—	5.14	20.94	8.42
1983	3.08	5.89	7.67	8.84	9.60	8.47	—	6.07	22.53	9.85
1984	3.10	5.85	7.73	8.63	9.91	8.57	—	6.05	21.94	9.57
1985	**3.00**	**5.79**	**7.55**	**8.43**	**10.09**	**8.36**	**—**	**6.02**	**22.49**	**9.77**
1986	2.86	5.55	5.88	6.57	9.59	6.99	—	5.65	22.45	9.56
1987	2.74	5.12	5.66	6.32	8.88	6.81	—	5.27	22.56	9.45
1988	2.65	5.01	5.66	6.32	8.40	6.57	—	5.16	22.24	9.25
1989	2.69	5.11	6.18	6.90	11.42	8.06	—	5.41	22.79	9.53
1990	**2.80**	**5.09**	**7.43**	**8.30**	**12.05**	**9.16**	**[d] 3.56**	**[d] 5.47**	**23.58**	**[d] 9.67**
1991	2.64	5.06	6.89	7.70	10.71	8.34	3.56	5.36	23.91	[R] 9.79
1992	2.55	5.02	6.33	7.07	10.72	7.78	3.56	5.26	[R] 24.14	9.45
1993	2.65	5.50	6.36	7.10	9.89	7.69	3.56	5.69	24.51	10.20
1994	2.61	5.67	6.15	6.87	[R] 10.07	[R] 7.54	3.56	5.83	25.08	10.53
1995	**2.64**	**5.26**	**6.12**	**6.83**	**10.15**	**7.71**	**3.56**	**5.49**	**25.20**	**10.37**
	Expenditures in Million Nominal Dollars									
1970	**13.8**	**414.0**	**76.5**	**24.1**	**31.5**	**132.0**	**—**	**559.8**	**531.1**	**1,090.9**
1971	11.4	453.4	81.5	23.6	33.1	138.2	—	603.1	581.1	1,184.1
1972	11.8	504.2	90.4	20.7	38.2	149.3	—	665.2	632.4	1,297.6
1973	10.5	487.5	88.0	24.3	64.5	176.8	—	674.8	703.9	1,378.8
1974	31.0	540.4	142.6	35.5	72.5	250.6	—	822.0	887.2	1,709.2
1975	**23.3**	**643.4**	**157.8**	**33.8**	**82.0**	**273.6**	**—**	**940.4**	**1,039.7**	**1,980.1**
1976	25.2	780.5	218.0	51.2	83.3	352.5	—	1,158.1	1,103.0	2,261.1
1977	31.5	889.1	269.8	60.3	90.5	420.6	—	1,341.2	1,313.1	2,654.3
1978	31.9	1,011.0	282.8	56.5	80.8	420.2	—	1,463.0	1,468.9	2,932.0
1979	21.6	1,049.2	223.2	49.5	72.1	344.8	—	1,415.6	1,616.1	3,031.7
1980	**14.0**	**1,396.3**	**286.8**	**46.5**	**72.0**	**405.3**	**—**	**1,815.5**	**1,859.9**	**3,675.4**
1981	19.5	1,495.7	270.8	57.1	86.1	414.0	—	1,929.2	2,080.1	4,009.3
1982	19.5	1,834.4	207.7	51.0	80.8	339.5	—	2,193.3	2,343.3	4,536.6
1983	21.8	2,006.6	139.3	44.0	109.0	292.2	—	2,320.6	2,568.8	4,889.4
1984	24.7	2,125.8	151.6	59.8	118.0	329.5	—	2,480.0	2,551.7	5,031.7
1985	**21.7**	**1,978.7**	**196.7**	**45.0**	**121.3**	**363.0**	**—**	**2,363.4**	**2,604.3**	**4,967.8**
1986	25.3	1,898.7	157.0	44.0	120.2	321.2	—	2,245.2	2,698.4	4,943.5
1987	18.8	1,746.7	137.1	38.4	131.9	307.4	—	2,072.9	2,826.2	4,899.0
1988	16.4	1,826.7	153.4	45.1	122.2	320.6	—	2,163.8	2,938.0	5,101.8
1989	12.4	1,910.7	164.6	34.2	190.1	388.9	—	2,312.0	3,017.0	5,329.0
1990	**15.5**	**1,631.0**	**176.5**	**29.4**	**183.7**	**389.6**	**[d] 35.1**	**[d] 2,071.3**	**3,049.0**	**[d R] 5,120.2**
1991	11.0	1,698.7	169.4	29.5	172.3	371.2	37.0	2,117.9	[R] 3,339.5	[R] 5,457.5
1992	13.0	1,771.3	171.9	29.2	154.9	355.9	39.0	2,179.2	[R] 3,224.5	[R] 5,403.7
1993	13.2	2,022.0	165.7	33.8	168.3	367.8	19.9	2,422.8	[R] 3,507.6	[R] 5,930.4
1994	11.2	2,018.8	175.3	27.6	[R] 169.2	[R] 372.1	19.5	[R] 2,421.6	[R] 3,576.4	[R] 5,998.0
1995	**9.3**	**1,953.3**	**154.0**	**29.0**	**183.1**	**366.1**	**21.6**	**2,350.3**	**3,784.4**	**6,134.7**

[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 223. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Ohio

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.40**	**0.75**	**1.20**	**0.84**	**1.39**	**2.93**	**0.69**	**1.26**	**0.76**	**6.33**	**1.87**
1971	0.43	0.80	1.28	0.88	1.42	3.03	0.73	1.34	0.82	6.65	2.03
1972	0.47	0.86	1.29	0.88	1.42	3.03	0.75	1.42	0.88	6.76	2.11
1973	0.50	0.90	1.21	0.85	1.49	3.09	0.87	1.44	0.93	6.97	2.31
1974	0.99	1.05	2.16	2.41	2.64	4.45	2.28	2.56	1.19	8.66	2.90
1975	**1.31**	**1.31**	**2.33**	**2.48**	**2.83**	**4.73**	**2.20**	**2.74**	**1.51**	**10.10**	**3.55**
1976	1.22	1.58	2.55	2.65	3.01	4.83	1.90	2.72	1.72	10.48	3.74
1977	1.30	2.02	2.98	3.00	3.54	5.08	2.43	3.05	2.13	12.06	4.73
1978	1.39	2.19	3.12	3.15	3.77	5.14	2.43	3.18	2.27	13.25	4.89
1979	1.52	2.54	4.67	4.20	4.35	6.90	3.04	4.53	2.71	14.39	5.92
1980	**1.34**	**3.26**	**6.28**	**6.01**	**5.34**	**9.45**	**3.58**	**7.13**	**3.76**	**15.71**	**7.07**
1981	1.52	3.63	7.81	7.21	5.91	10.63	5.00	8.38	4.08	17.83	8.32
1982	1.53	4.52	7.53	8.01	6.81	10.29	5.20	7.96	4.70	19.90	9.55
1983	1.47	5.53	6.44	7.01	7.30	9.42	4.49	6.95	5.47	20.78	10.47
1984	1.50	5.48	6.45	7.51	7.20	9.10	4.59	7.33	5.53	20.53	10.17
1985	**1.49**	**5.34**	**6.12**	**7.03**	**[R] 9.90**	**9.15**	**4.18**	**[R] 7.05**	**[R] 5.25**	**20.91**	**[R] 10.77**
1986	1.45	5.11	3.85	4.64	[R] 9.03	6.78	2.60	[R] 5.35	[R] 4.83	20.73	10.48
1987	1.39	4.68	4.34	5.18	[R] 8.61	7.36	2.83	[R] 5.96	[R] 4.64	20.29	10.26
1988	1.39	4.57	3.88	4.83	[R] 8.89	7.43	2.51	[R] 5.98	[R] 4.62	19.97	10.01
1989	1.39	4.70	4.51	5.55	[R] 8.57	8.18	2.60	[R] 6.62	4.80	20.66	10.64
1990	**1.44**	**4.50**	**5.53**	**6.76**	**[R] 9.83**	**9.35**	**2.54**	**[R] 7.29**	**4.62**	**[R] 21.31**	**11.29**
1991	1.41	4.56	4.94	5.88	[R] 10.07	9.23	2.30	[R] 6.88	[R] 4.66	[R] 21.55	[R] 11.54
1992	1.44	4.56	4.71	5.68	[R] 9.32	8.98	2.23	[R] 6.27	[R] 4.56	21.72	11.26
1993	1.42	5.05	4.62	5.37	[R] 9.94	8.82	2.42	[R] 6.36	4.97	21.78	11.68
1994	1.46	5.19	4.30	[R] 5.22	[R] 8.14	9.08	2.64	[R] 5.86	[R] 5.09	22.16	11.95
1995	**1.44**	**4.74**	**4.30**	**5.23**	**8.17**	**9.21**	**2.69**	**5.73**	**4.72**	**22.04**	**11.65**
	Expenditures in Million Nominal Dollars										
1970	**9.5**	**140.0**	**13.0**	**0.7**	**3.6**	**6.2**	**3.6**	**27.1**	**176.6**	**369.2**	**545.7**
1971	8.7	155.8	13.7	0.7	3.9	6.2	3.3	27.8	192.2	411.4	603.6
1972	8.2	182.7	15.1	0.6	4.4	8.2	2.8	31.2	222.1	453.5	675.6
1973	8.4	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	626.4	917.1
1975	**21.5**	**227.6**	**29.0**	**1.5**	**9.0**	**23.7**	**20.1**	**83.5**	**332.5**	**690.7**	**1,023.2**
1976	21.6	290.9	39.8	2.3	9.9	23.2	19.6	94.7	407.3	745.1	1,152.3
1977	26.5	308.5	49.6	2.6	10.8	19.8	32.1	114.9	450.0	899.1	1,349.1
1978	30.1	386.3	51.3	2.4	11.2	20.7	28.0	113.7	530.0	974.6	1,504.7
1979	21.6	411.3	41.8	2.0	9.0	34.6	25.6	113.0	546.0	1,100.0	1,645.9
1980	**11.2**	**551.1**	**94.8**	**4.4**	**8.9**	**102.2**	**8.5**	**218.8**	**781.1**	**1,250.2**	**2,031.3**
1981	16.3	597.9	118.1	2.7	10.6	66.2	0.9	198.5	812.7	1,584.2	2,396.9
1982	16.8	732.6	92.3	2.8	11.5	45.3	5.8	157.7	907.0	1,800.6	2,707.6
1983	19.2	820.3	134.2	13.7	14.6	39.0	0.8	202.3	1,041.8	1,919.8	2,961.6
1984	22.1	882.5	145.1	12.8	15.1	102.4	0.6	275.9	1,180.6	1,960.7	3,141.3
1985	**19.7**	**799.0**	**72.5**	**17.6**	**[R] 21.0**	**29.0**	**2.2**	**[R] 142.3**	**[R] 960.9**	**2,082.1**	**[R] 3,043.0**
1986	23.7	743.7	47.6	5.0	[R] 20.0	66.3	2.6	[R] 141.6	[R] 909.0	2,155.5	[R] 3,064.5
1987	17.6	718.7	53.5	5.5	[R] 22.5	77.9	0.9	[R] 160.4	[R] 896.8	2,199.6	[R] 3,096.3
1988	15.9	754.3	50.5	7.2	[R] 22.8	118.2	1.2	[R] 200.0	[R] 970.1	2,270.7	[R] 3,240.8
1989	11.7	791.4	44.3	7.6	[R] 25.2	88.5	0.3	[R] 165.9	[R] 969.0	2,430.6	[R] 3,399.6
1990	**14.8**	**671.6**	**53.3**	**7.2**	**[R] 26.4**	**51.7**	**0.4**	**[R] 139.0**	**[R] 825.4**	**[R] 2,534.0**	**[R] 3,359.4**
1991	10.8	715.6	46.5	6.0	[R] 28.6	44.8	0.6	[R] 126.5	[R] 852.9	[R] 2,707.8	[R] 3,560.7
1992	13.3	758.2	46.2	2.2	[R] 23.8	31.7	1.0	[R] 104.9	[R] 876.5	[R] 2,679.4	[R] 3,555.9
1993	13.0	859.6	37.2	6.1	[R] 29.9	18.2	0.4	[R] 91.8	[R] 964.5	[R] 2,805.3	[R] 3,769.7
1994	11.4	897.4	37.6	4.3	[R] 24.1	21.4	0.1	[R] 87.5	[R] 996.3	[R] 2,913.4	[R] 3,909.7
1995	**9.3**	**861.8**	**46.3**	**2.6**	**26.0**	**21.2**	**0.1**	**96.2**	**967.3**	**3,015.5**	**3,982.8**

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

Table 224. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Ohio

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.40**	**0.41**	**0.57**	**0.74**	**0.77**	**0.84**	**1.39**	**5.08**	**2.93**	**0.55**	R **1.19**	R **1.22**	**—**	**0.60**	**2.90**	**0.83**
1971	0.50	0.43	0.46	0.60	0.85	0.81	0.88	1.42	5.27	3.03	0.66	R 1.22	R 1.30	—	0.67	3.09	0.94
1972	0.58	0.47	0.53	0.62	0.88	0.81	0.88	1.42	5.58	3.03	0.69	R 1.22	R 1.33	—	0.71	3.13	1.00
1973	0.66	0.50	0.60	0.66	0.89	0.79	0.85	1.49	5.33	3.09	0.83	R 1.28	R 1.32	—	0.76	3.26	1.09
1974	1.30	0.99	1.17	0.79	1.64	2.22	2.41	2.64	7.22	4.45	2.00	R 1.93	R 2.44	—	1.29	4.62	1.72
1975	**1.57**	**1.31**	**1.47**	**1.08**	**2.03**	**2.31**	**2.48**	**2.83**	**7.48**	**4.73**	**2.17**	R **2.41**	R **2.61**	**—**	**1.60**	**5.61**	**2.16**
1976	1.53	1.22	1.41	1.36	2.07	2.46	2.65	3.01	7.05	4.83	1.98	R 2.72	R 2.70	—	1.70	5.59	2.28
1977	1.53	1.30	1.45	1.85	2.07	2.75	3.00	3.54	6.97	5.08	2.31	R 2.99	R 2.90	—	1.95	6.38	2.69
1978	1.76	1.39	1.63	1.96	2.17	2.89	3.15	3.77	7.60	5.14	2.37	R 3.04	R 3.05	—	2.11	7.51	2.99
1979	1.76	1.52	1.68	2.30	2.60	3.87	4.20	4.35	10.21	6.90	2.75	R 4.26	R 4.13	—	2.71	8.22	3.55
1980	**2.00**	**1.34**	**1.79**	**3.01**	**3.66**	**5.45**	**6.01**	**5.34**	**14.36**	**9.45**	**3.31**	R **6.96**	**5.73**	**—**	**3.56**	**9.73**	**4.43**
1981	2.35	1.52	2.05	3.35	5.92	6.60	7.21	5.91	18.00	10.63	4.57	R 8.19	R 6.89	—	4.04	10.94	R 5.01
1982	2.43	1.53	2.07	4.19	4.29	7.26	8.01	6.81	17.25	10.29	4.53	R 7.21	R 6.98	—	R 4.47	13.08	R 5.61
1983	2.18	1.47	1.81	4.98	4.21	6.73	7.01	7.30	16.98	9.42	4.42	R 6.73	R 6.99	—	R 4.69	13.12	R 6.02
1984	2.10	1.50	1.79	4.86	4.40	6.82	7.51	7.20	17.63	9.10	4.59	R 7.09	R 7.18	—	R 4.52	11.94	R 5.99
1985	**2.05**	**1.49**	**1.78**	**4.66**	**4.43**	**6.39**	**7.03**	R **9.90**	**17.61**	**9.15**	**4.18**	R **6.54**	R **7.87**	**—**	R **4.71**	**11.75**	**6.19**
1986	2.04	1.45	1.75	4.48	3.70	4.22	4.64	R 9.03	15.59	6.78	2.60	R 5.21	R 5.95	—	R 3.88	12.12	R 5.64
1987	1.72	1.39	1.56	4.09	3.23	4.70	5.18	R 8.61	R 13.58	7.36	2.83	R 5.78	R 5.87	—	R 3.64	11.80	5.44
1988	1.73	1.39	1.56	3.94	3.23	4.39	4.83	R 8.89	R 14.62	7.43	2.51	R 5.00	R 5.62	—	R 3.42	11.79	R 5.22
1989	1.75	1.39	1.59	4.02	2.99	5.04	5.55	R 8.57	14.48	8.18	2.60	R 5.34	R 5.51	—	R 3.61	11.36	R 5.42
1990	**1.80**	**1.44**	**1.63**	**3.92**	**3.13**	**6.14**	**6.76**	R **9.83**	**14.60**	**9.35**	**2.54**	R **5.86**	R **6.02**	d R **1.55**	d **3.69**	**11.81**	d R **5.62**
1991	1.72	1.41	1.55	3.92	2.96	5.35	5.88	R 10.07	R 16.80	9.23	2.30	R 5.52	R 5.97	R 1.54	R 3.70	12.31	R 5.79
1992	1.74	1.44	1.59	4.01	2.33	5.16	5.68	R 9.32	R 18.32	8.98	2.23	R 5.68	R 6.05	R 1.58	R 3.96	12.14	R 5.92
1993	1.68	1.42	1.53	4.47	2.91	4.88	5.37	R 9.94	R 18.96	8.82	2.42	R 5.16	R 6.18	R 1.58	R 4.19	12.45	R 6.22
1994	1.57	1.46	1.51	4.29	2.95	4.74	5.22	R 7.14	R 19.11	9.08	2.64	R 5.09	R 5.69	R 1.58	R 3.99	12.12	R 6.06
1995	**1.57**	**1.44**	**1.50**	**3.79**	**3.21**	**4.75**	**5.23**	**7.49**	**19.40**	**9.21**	**2.69**	**5.25**	**5.92**	**1.56**	**3.84**	**12.21**	**5.98**
	Expenditures in Million Nominal Dollars																
1970	**146.6**	**155.3**	**301.9**	**206.6**	**44.3**	**50.5**	**15.9**	**20.7**	**73.7**	**29.7**	**7.9**	R **56.2**	R **298.8**	**—**	R **807.2**	**443.4**	R **1,250.6**
1971	148.9	132.5	281.4	233.3	48.1	49.5	15.6	20.9	73.3	30.9	8.5	R 55.2	R 301.9	—	R 816.7	487.4	R 1,304.1
1972	198.1	133.1	331.2	256.6	53.1	49.7	11.9	22.7	83.1	27.0	9.2	R 58.7	R 315.5	—	R 903.4	554.8	R 1,458.2
1973	246.5	115.9	362.4	279.8	63.8	51.3	11.0	23.9	87.9	26.4	15.6	R 67.4	R 347.2	—	R 989.4	643.2	R 1,632.6
1974	476.3	260.4	736.7	329.0	99.1	140.9	23.2	40.1	114.2	41.5	41.8	R 100.8	R 601.6	—	R 1,667.3	885.4	R 2,552.8
1975	**519.3**	**296.0**	**815.2**	**366.0**	**118.0**	**149.7**	**20.2**	**34.7**	**90.2**	**37.7**	**73.0**	R **119.4**	R **642.9**	**—**	R **1,824.1**	**1,042.0**	R **2,866.1**
1976	511.4	248.7	760.1	499.5	108.7	201.4	27.6	40.8	94.4	34.4	73.0	R 172.1	R 752.4	—	R 2,012.0	1,172.4	R 3,184.4
1977	515.9	261.3	777.2	514.6	126.3	233.5	33.5	53.5	101.2	33.8	111.1	R 211.7	R 904.6	—	R 2,196.4	1,444.8	R 3,641.2
1978	576.7	246.7	823.4	636.6	138.3	241.5	31.3	67.4	118.5	31.5	92.8	R 236.2	R 957.5	—	R 2,417.5	1,664.5	R 4,082.0
1979	574.8	246.9	821.7	733.9	154.5	326.2	44.5	667.4	166.5	36.3	92.3	R 349.7	R 1,837.4	—	R 3,393.0	1,846.4	R 5,239.4
1980	**549.5**	**174.1**	**723.6**	**926.5**	**178.1**	**396.8**	**44.5**	**797.9**	**208.6**	**57.3**	**95.1**	R **564.0**	R **2,342.3**	**—**	R **3,992.4**	**1,792.6**	R **5,785.0**
1981	629.3	228.8	858.1	1,027.9	271.4	473.6	68.2	764.1	250.8	48.4	126.0	R 506.9	R 2,509.4	—	R 4,395.4	1,961.4	R 6,356.8
1982	465.4	193.8	659.1	1,101.6	209.5	460.3	72.2	893.6	219.1	25.4	44.4	R 384.9	R 2,309.4	—	R 4,070.1	1,829.2	R 5,899.3
1983	274.6	202.5	477.1	1,278.7	188.6	177.5	26.7	957.5	225.9	51.6	71.7	R 377.0	R 2,076.5	—	R 3,832.3	2,016.8	R 5,849.1
1984	287.2	214.7	501.8	1,262.0	201.1	194.5	19.1	626.7	250.1	70.1	41.3	R 425.9	R 1,828.7	—	R 3,592.6	2,350.5	R 5,943.1
1985	**287.8**	**185.7**	**473.5**	**1,163.5**	**186.3**	**248.3**	**13.1**	R **819.7**	**232.8**	**51.6**	**27.5**	R **373.8**	R **1,953.0**	**—**	R **3,590.0**	**2,391.2**	R **5,981.2**
1986	283.0	187.0	470.0	1,065.9	180.3	142.8	5.2	R 326.2	201.5	36.3	20.4	R 314.1	R 1,226.8	—	R 2,762.7	2,352.8	R 5,115.5
1987	246.8	191.6	438.4	914.7	193.3	144.9	5.8	R 330.8	R 198.4	39.8	23.9	R 352.4	R 1,289.2	—	R 2,642.4	2,422.9	R 5,065.3
1988	252.4	205.2	457.6	1,103.9	136.4	132.4	6.0	R 189.5	R 206.0	40.1	25.3	R 296.4	R 1,032.0	—	R 2,593.5	2,438.6	R 5,032.1
1989	247.6	159.6	407.2	1,120.9	210.5	154.2	7.0	R 224.7	209.3	43.7	20.1	R 307.4	R 1,176.9	—	R 2,705.1	2,583.4	R 5,288.5
1990	**239.0**	**166.4**	**405.4**	**1,084.4**	**205.0**	**183.7**	**3.4**	R **193.0**	R **217.2**	**47.5**	**17.4**	R **359.2**	R **1,226.3**	d R **20.4**	d R **2,736.6**	R **2,736.5**	d R **5,473.1**
1991	170.7	165.7	336.4	1,087.4	176.5	163.4	3.8	R 197.6	223.5	46.7	9.9	R 323.6	R 1,144.9	R 23.2	R 2,592.0	R 2,776.1	R 5,368.1
1992	175.2	139.9	315.1	1,169.3	153.2	192.1	4.4	R 320.0	R 248.5	131.8	12.5	R 353.7	R 1,416.2	R 20.7	R 2,921.3	2,810.8	R 5,732.1
1993	130.3	142.6	273.0	1,331.7	148.4	184.9	9.5	R 324.3	R 261.9	52.0	21.1	R 325.5	R 1,327.6	R 20.8	R 2,953.1	R 2,847.6	R 5,800.7
1994	129.9	135.6	265.5	1,320.6	173.4	196.3	6.2	R 232.5	R 275.9	52.4	20.2	R 308.9	R 1,265.8	R 21.2	R 2,873.2	2,983.6	R 5,856.8
1995	**117.2**	**126.9**	**244.1**	**1,262.1**	**191.4**	**175.0**	**5.6**	**215.0**	**275.3**	**58.1**	**12.0**	**303.4**	**1,235.7**	**23.6**	**2,765.5**	**3,026.6**	**5,792.2**

[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 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 225. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Ohio

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.40**	**—**	**2.17**	**1.26**	**0.74**	**1.39**	**5.08**	**2.93**	**0.64**	**2.66**	**2.66**	**4.05**	**2.66**
1971	0.43	—	2.21	1.40	0.78	1.42	5.27	3.03	0.68	2.75	2.75	4.50	2.75
1972	0.47	—	2.19	1.37	0.78	1.42	5.58	3.03	0.66	2.72	2.72	4.61	2.72
1973	0.50	—	2.36	1.61	0.92	1.49	5.33	3.09	0.77	2.82	2.82	5.00	2.82
1974	0.99	—	3.23	2.61	1.59	2.64	7.22	4.45	2.01	4.12	4.12	7.07	4.12
1975	**1.31**	**—**	**3.45**	**2.76**	**2.08**	**2.83**	**7.48**	**4.73**	**1.61**	**4.39**	**4.38**	**7.63**	**4.39**
1976	1.22	—	3.59	2.96	2.35	3.01	7.05	4.83	1.73	4.48	4.48	8.59	4.48
1977	1.30	—	3.97	3.36	2.66	3.54	6.97	5.08	2.15	4.75	4.75	11.15	4.76
1978	—	—	4.29	3.54	2.87	3.77	7.60	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	2.68	6.52	6.52	13.14	6.52
1980	**—**	**—**	**9.02**	**6.95**	**6.38**	**5.34**	**14.36**	**9.45**	**3.02**	**8.87**	**8.87**	**13.51**	**8.87**
1981	—	—	10.84	8.53	7.55	5.91	18.00	10.63	4.45	10.18	10.18	17.35	10.19
1982	—	—	10.92	8.28	7.22	6.81	17.25	10.29	4.70	9.87	9.87	20.76	9.87
1983	—	—	10.44	8.15	6.73	7.30	16.98	9.42	4.22	9.16	9.16	22.27	9.16
1984	—	—	10.27	8.26	6.46	7.20	17.63	9.10	4.54	8.90	8.90	21.75	8.90
1985	**—**	**—**	**9.99**	**8.28**	**6.04**	**[R] 9.90**	**17.61**	**9.15**	**—**	**8.92**	**8.92**	**22.10**	**8.92**
1986	—	—	8.41	6.47	3.85	[R] 9.03	15.59	6.78	2.51	6.61	6.61	23.15	6.61
1987	—	—	7.55	6.70	4.04	[R] 8.61	[R] 13.58	7.36	2.84	[R] 7.07	[R] 7.07	17.79	[R] 7.07
1988	—	—	7.41	6.57	3.92	[R] 8.89	[R] 14.62	7.43	2.16	7.13	7.13	17.01	7.13
1989	—	—	8.28	7.22	4.49	[R] 8.57	14.48	8.18	2.32	[R] 7.81	[R] 7.81	17.59	7.81
1990	**—**	**3.04**	**9.32**	**8.44**	**5.73**	**[R] 9.83**	**14.60**	**9.35**	**2.70**	**8.96**	**8.96**	**[R] 18.01**	**8.96**
1991	—	2.84	8.71	8.22	4.95	[R] 10.07	[R] 16.80	9.23	2.26	8.80	8.80	[R] 17.82	8.80
1992	—	3.01	8.54	8.02	4.64	[R] 9.32	[R] 18.32	8.98	2.41	[R] 8.55	[R] 8.55	[R] 18.24	[R] 8.55
1993	—	4.64	8.24	8.10	4.30	[R] 9.94	[R] 18.96	8.82	2.42	8.45	8.45	18.27	8.45
1994	—	4.70	7.96	8.11	4.02	[R] 9.11	[R] 19.11	9.08	[R] 2.59	8.58	8.58	[R] 18.64	8.59
1995	**—**	**4.28**	**8.36**	**8.00**	**4.02**	**9.46**	**19.40**	**9.21**	**2.72**	**8.67**	**8.67**	**18.34**	**8.67**
	Expenditures in Million Nominal Dollars												
1970	**0.4**	**—**	**7.8**	**81.2**	**24.4**	**0.7**	**38.3**	**1,601.5**	**3.1**	**1,756.8**	**1,757.3**	**0.6**	**1,757.9**
1971	0.3	—	7.6	99.1	28.2	0.9	39.7	1,686.6	1.4	1,863.5	1,863.8	0.6	1,864.4
1972	0.3	—	7.0	131.0	29.0	1.0	45.0	1,772.9	0.8	1,986.8	1,987.0	0.6	1,987.7
1973	0.2	—	7.4	153.8	35.0	1.2	49.9	1,899.1	0.5	2,146.9	2,147.1	0.6	2,147.8
1974	0.3	—	9.7	233.7	50.3	2.0	64.8	2,691.7	4.1	3,056.4	3,056.7	1.0	3,057.7
1975	**0.1**	**—**	**8.5**	**251.5**	**69.2**	**1.9**	**73.6**	**2,887.8**	**6.0**	**3,298.5**	**3,298.6**	**1.2**	**3,299.8**
1976	(s)	—	8.5	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	(s)	—	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	3,989.1	3,989.1	1.7	3,990.8
1979	—	—	12.8	593.8	149.0	3.7	99.1	4,340.0	12.0	5,210.4	5,210.4	2.1	5,212.5
1980	**—**	**—**	**21.5**	**994.9**	**259.2**	**4.4**	**124.1**	**5,463.9**	**4.8**	**6,872.9**	**6,872.9**	**2.0**	**6,874.9**
1981	—	—	22.3	1,173.5	244.3	7.4	149.2	6,039.5	1.4	7,637.6	7,637.6	2.9	7,640.5
1982	—	—	21.6	1,068.7	223.1	8.5	130.4	5,655.3	(s)	7,107.6	7,107.6	3.2	7,110.8
1983	—	—	20.9	1,024.5	220.4	10.8	134.4	5,208.6	0.5	6,620.1	6,620.1	2.7	6,622.8
1984	—	—	16.7	1,131.3	248.5	14.1	148.8	5,039.4	1.1	6,599.9	6,599.9	2.6	6,602.4
1985	**—**	**—**	**16.6**	**1,074.9**	**245.3**	**[R] 13.5**	**138.5**	**5,144.0**	**—**	**[R] 6,632.9**	**[R] 6,632.9**	**3.2**	**[R] 6,636.1**
1986	—	—	15.9	858.8	215.8	[R] 13.5	119.9	3,884.0	0.1	[R] 5,108.0	[R] 5,108.0	3.2	[R] 5,111.2
1987	—	—	9.1	836.2	246.2	[R] 11.0	[R] 118.1	4,360.1	0.5	[R] 5,581.2	[R] 5,581.2	2.3	[R] 5,583.5
1988	—	—	12.4	935.9	203.8	[R] 11.3	[R] 122.6	4,411.1	0.2	[R] 5,697.2	[R] 5,697.2	2.3	[R] 5,699.5
1989	—	—	10.5	1,102.9	263.6	[R] 11.8	124.6	4,861.9	0.1	[R] 6,375.4	[R] 6,375.4	2.4	[R] 6,377.8
1990	**—**	**0.2**	**11.2**	**1,246.5**	**343.5**	**[R] 12.8**	**129.2**	**5,295.1**	**0.1**	**[R] 7,038.4**	**[R] 7,038.7**	**2.4**	**[R] 7,041.0**
1991	—	0.2	9.4	1,149.6	291.0	[R] 10.6	133.0	5,234.4	0.1	[R] 6,828.2	[R] 6,828.4	2.4	[R] 6,830.8
1992	—	0.2	9.7	1,174.9	279.0	[R] 8.5	[R] 147.9	4,964.3	0.8	[R] 6,585.1	[R] 6,585.2	2.7	[R] 6,588.0
1993	—	0.2	8.6	1,260.9	259.1	[R] 8.8	[R] 155.8	5,243.1	0.2	[R] 6,936.6	[R] 6,936.8	2.5	[R] 6,939.3
1994	—	0.2	7.5	1,362.1	265.7	[R] 15.2	[R] 164.2	5,328.1	1.0	[R] 7,143.8	[R] 7,144.1	2.5	[R] 7,146.6
1995	**—**	**0.8**	**9.9**	**1,375.1**	**256.2**	**8.8**	**163.8**	**5,544.1**	**1.0**	**7,358.9**	**7,359.7**	**2.4**	**7,362.1**

[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.
(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 226. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Ohio

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.29**	**0.39**	**0.69**	**0.75**	**—**	**0.72**	**—**	**0.65**	**0.30**
1971	0.35	0.48	0.73	0.79	—	0.77	—	0.69	0.36
1972	0.38	0.40	0.75	0.93	—	0.87	—	0.72	0.39
1973	0.43	0.57	0.85	1.22	—	1.02	—	0.77	0.44
1974	0.88	0.69	2.25	2.16	—	2.20	—	0.84	0.91
1975	**0.95**	**1.19**	**2.18**	**2.35**	**—**	**2.29**	**—**	**0.92**	**0.98**
1976	0.95	1.27	1.88	2.47	—	2.29	—	0.98	0.98
1977	1.01	1.40	2.39	2.80	—	2.61	0.19	1.04	1.06
1978	1.25	1.58	2.43	2.93	—	2.66	0.27	1.12	1.28
1979	1.33	1.98	2.93	3.72	—	3.22	0.25	1.56	1.34
1980	**1.48**	**2.90**	**3.58**	**5.72**	**—**	**5.11**	**0.28**	**1.74**	**1.50**
1981	1.64	3.28	4.95	7.18	—	6.69	0.44	1.24	1.62
1982	1.72	4.25	5.22	7.44	—	7.06	0.53	1.28	1.71
1983	1.72	5.17	4.46	6.71	—	6.31	0.61	1.12	1.68
1984	1.72	5.17	4.71	6.71	—	6.31	0.67	1.28	1.69
1985	**1.69**	**5.09**	**4.43**	**6.09**	**—**	**5.71**	**1.09**	**0.79**	**1.70**
1986	1.63	4.67	2.73	3.71	—	3.56	0.72	0.32	1.63
1987	1.56	3.04	3.00	4.10	—	3.93	0.73	0.95	1.51
1988	1.52	3.47	2.45	3.77	—	3.19	1.33	0.87	1.52
1989	1.49	3.13	2.66	4.26	—	3.43	1.32	([b])	1.48
1990	**1.52**	**2.55**	**3.12**	**5.40**	**—**	**4.84**	**1.24**	**([b])**	**1.50**
1991	1.48	2.18	2.58	4.91	—	4.35	1.14	([b])	1.45
1992	1.44	2.24	2.72	4.51	—	4.27	1.12	([b])	1.40
1993	1.41	2.86	2.70	4.07	—	4.02	1.07	([b])	1.39
1994	1.44	3.75	2.68	4.04	—	3.99	1.06	—	1.42
1995	**1.42**	**2.28**	**—**	**3.91**	**—**	**3.91**	**1.00**	**—**	**1.38**
	Expenditures in Million Nominal Dollars								
1970	**230.5**	**8.6**	**3.0**	**3.4**	**—**	**6.4**	**—**	**(s)**	**245.5**
1971	297.0	10.3	2.9	5.9	—	8.8	—	(s)	316.1
1972	342.8	6.2	4.2	12.5	—	16.7	—	(s)	365.7
1973	421.9	8.8	9.8	12.1	—	21.9	—	(s)	452.6
1974	858.1	13.8	36.9	34.3	—	71.2	—	(s)	943.1
1975	**987.4**	**6.3**	**18.0**	**35.2**	**—**	**53.2**	**—**	**(s)**	**1,046.9**
1976	1,026.2	5.6	14.5	42.4	—	56.9	—	(s)	1,088.6
1977	1,111.5	3.3	39.0	52.5	—	91.5	0.9	(s)	1,207.2
1978	1,349.4	3.2	56.8	58.7	—	115.5	7.2	(s)	1,475.3
1979	1,538.0	9.5	50.0	36.4	—	86.4	8.6	(s)	1,642.6
1980	**1,641.4**	**13.7**	**13.6**	**54.7**	**—**	**68.3**	**6.4**	**(s)**	**1,729.9**
1981	1,809.0	6.8	6.7	35.1	—	41.8	21.3	(s)	1,878.9
1982	1,821.8	5.3	4.7	31.8	—	36.5	19.1	(s)	1,882.6
1983	1,784.6	5.5	2.9	20.4	—	23.3	32.8	0.1	1,846.3
1984	1,816.1	3.6	3.3	18.7	—	22.0	31.3	2.7	1,875.8
1985	**1,869.0**	**3.6**	**3.9**	**18.0**	**—**	**22.0**	**23.0**	**2.2**	**1,919.7**
1986	1,854.3	2.9	1.4	10.7	—	12.1	0.2	0.9	1,870.3
1987	1,764.9	2.7	1.7	12.4	—	14.1	59.0	3.5	1,844.2
1988	1,770.4	3.4	6.0	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])	1,980.6
1990	**1,758.7**	**3.2**	**2.7**	**14.2**	**—**	**16.9**	**141.3**	([b])	**1,920.0**
1991	1,751.8	7.1	2.7	16.7	—	19.4	182.1	([b])	1,960.3
1992	1,731.8	6.8	1.1	11.2	—	12.3	176.6	([b])	1,927.6
1993	1,752.1	8.1	0.3	12.9	—	13.3	114.2	—	1,887.6
1994	1,711.0	10.9	0.5	19.8	—	20.3	124.3	—	1,866.4
1995	**1,713.9**	**17.4**	**—**	**14.6**	**—**	**14.6**	**179.4**	**—**	**1,925.3**

[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.

(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 227. Energy Price and Expenditure Estimates by Source, 1970-1995, Oklahoma

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	**—**	**0.57**	**0.57**	**0.35**	**0.90**	**0.72**	**1.42**	**2.82**	**0.50**	**R 0.99**	**R 1.96**	**—**	**—**	**1.03**	**0.19**	**5.76**	**1.83**
1971	—	0.65	0.65	0.36	0.85	0.75	1.49	2.80	0.44	R 1.09	R 1.99	—	—	1.05	0.21	5.78	R 1.87
1972	—	0.48	0.48	0.38	0.83	0.75	1.44	2.78	0.56	R 1.17	R 1.95	—	—	1.06	0.24	5.81	1.93
1973	—	0.36	0.36	0.42	1.07	0.89	2.19	2.99	0.69	R 1.28	R 2.19	—	—	1.21	0.28	5.71	2.12
1974	—	0.81	0.81	0.53	2.17	1.54	3.01	4.04	1.58	R 1.93	R 3.13	—	—	1.61	0.40	6.11	R 2.67
1975	**—**	**0.96**	**0.96**	**0.75**	**2.36**	**2.01**	**2.91**	**4.52**	**1.58**	**R 2.21**	**R 3.50**	**—**	**—**	**1.90**	**0.61**	**6.64**	**R 3.05**
1976	—	1.31	1.31	1.06	2.54	2.12	3.62	4.76	1.67	R 2.33	R 3.75	—	—	R 2.12	1.01	7.82	R 3.25
1977	—	1.14	1.14	1.38	2.89	2.48	4.00	5.10	1.94	R 2.70	R 4.09	—	—	2.44	1.29	8.99	R 3.68
1978	—	1.14	1.14	1.52	3.02	2.86	4.21	5.34	1.90	R 2.90	R 4.29	—	—	2.59	1.39	9.74	R 3.99
1979	—	1.22	1.22	1.84	4.84	3.96	4.40	6.99	2.37	R 3.70	R 5.65	—	—	3.24	1.50	10.16	R 4.88
1980	**—**	**1.25**	**1.25**	**1.96**	**6.77**	**6.34**	**6.03**	**9.79**	**3.23**	**R 5.00**	**R 7.92**	**—**	**—**	**R 4.03**	**1.63**	**11.80**	**R 6.41**
1981	—	1.46	1.46	2.27	7.33	7.47	6.58	10.89	4.33	R 6.69	R 9.08	—	—	R 4.56	1.77	13.53	R 7.26
1982	—	1.66	1.66	2.66	7.47	7.09	7.20	10.25	4.84	R 5.88	R 8.72	—	—	R 4.65	1.90	15.34	R 7.59
1983	—	1.74	1.74	3.05	6.96	6.41	7.83	8.76	4.86	R 5.57	R 7.72	—	—	R 4.52	2.10	16.42	R 7.52
1984	—	1.73	1.73	3.28	7.00	6.24	7.28	8.64	4.20	R 6.42	R 7.72	—	—	R 4.58	2.21	16.31	R 7.44
1985	**—**	**1.69**	**1.69**	**3.41**	**6.74**	**5.87**	**R 7.37**	**8.76**	**3.41**	**R 5.94**	**R 7.64**	**—**	**—**	**R 4.66**	**2.30**	**17.23**	**R 7.69**
1986	—	1.65	1.65	3.11	5.38	3.94	R 8.12	6.30	2.09	R 5.81	R 5.94	—	—	R 3.86	2.17	17.83	R 6.91
1987	—	1.58	1.58	2.76	5.96	3.90	R 7.63	7.08	2.18	R 5.21	R 6.32	—	—	R 3.75	2.08	16.48	R 6.59
1988	—	1.50	1.50	2.80	5.63	3.75	R 5.60	7.12	1.81	R 4.90	R 6.09	—	—	R 3.65	2.04	16.20	R 6.45
1989	—	1.36	1.36	2.86	6.17	4.27	R 5.86	7.79	2.04	R 5.20	R 6.61	—	—	R 3.83	2.02	16.28	R 6.65
1990	**—**	**1.40**	**1.40**	**2.80**	**7.48**	**5.93**	**R 6.64**	**9.00**	**2.46**	**R 5.12**	**R 7.75**	**—**	**d R 2.14**	**d R 4.18**	**2.05**	**R 16.09**	**d R 7.29**
1991	—	1.32	1.32	2.78	6.95	4.73	R 6.65	8.72	1.77	R 5.38	R 7.30	—	R 2.21	R 4.01	1.92	R 16.98	R 7.16
1992	—	1.24	1.24	3.02	6.71	4.42	R 5.54	8.37	2.29	R 5.26	R 6.91	—	R 2.26	R 4.00	1.88	17.04	R 7.05
1993	—	1.25	1.25	3.17	6.80	4.12	R 7.40	8.21	2.42	R 5.06	R 6.98	—	R 2.15	R 3.99	1.88	17.51	R 7.16
1994	—	1.05	1.05	3.01	6.63	3.84	R 7.35	8.16	2.35	R 5.58	R 6.92	—	R 2.12	R 3.94	1.60	R 17.15	R 7.14
1995	**—**	**1.03**	**1.03**	**2.94**	**6.60**	**4.12**	**7.79**	**8.27**	**2.18**	**5.93**	**7.26**	**—**	**2.10**	**3.86**	**1.43**	**16.36**	**7.12**
	Expenditures in Million Nominal Dollars																
1970	**—**	**0.1**	**0.1**	**152.7**	**28.7**	**17.2**	**50.3**	**481.9**	**2.2**	**R 58.1**	**R 638.4**	**—**	**—**	**R 791.1**	**-46.8**	**311.7**	**R 1,056.0**
1971	—	0.1	0.1	160.8	26.8	18.1	51.0	496.3	0.8	R 68.1	R 661.0	—	—	R 821.9	-51.7	335.1	R 1,105.3
1972	—	0.1	0.1	181.5	38.2	17.1	51.3	522.0	4.8	R 69.8	R 703.2	—	—	R 884.8	-65.4	392.0	R 1,211.4
1973	—	1.5	1.5	197.0	55.1	19.7	78.4	588.9	6.2	R 82.1	R 830.4	—	—	R 1,028.9	-77.8	409.8	R 1,360.9
1974	—	3.4	3.4	274.6	110.7	33.8	99.0	784.8	11.7	R 125.4	R 1,165.4	—	—	R 1,443.4	-122.1	459.8	R 1,781.1
1975	**—**	**0.5**	**0.5**	**392.2**	**128.1**	**43.2**	**99.1**	**913.4**	**5.7**	**R 144.1**	**R 1,333.5**	**—**	**—**	**R 1,726.2**	**-190.0**	**509.6**	**R 2,045.9**
1976	—	2.0	2.0	648.2	173.4	46.3	126.1	1,011.1	6.3	R 138.1	R 1,501.3	—	—	R 2,151.6	-348.7	628.3	R 2,431.2
1977	—	14.1	14.1	875.5	216.4	57.0	137.3	1,123.0	7.5	R 165.9	R 1,707.1	—	—	R 2,596.7	-462.9	794.1	R 2,927.9
1978	—	50.0	50.0	976.5	253.4	74.8	153.3	1,227.0	7.2	R 176.0	R 1,891.8	—	—	R 2,918.3	-556.4	918.0	R 3,279.8
1979	—	74.0	74.0	1,192.9	409.6	99.4	133.1	1,516.3	13.0	R 238.5	R 2,409.8	—	—	R 3,676.6	-604.2	964.7	R 4,037.2
1980	**—**	**132.5**	**132.5**	**1,209.5**	**478.2**	**170.5**	**196.2**	**2,038.2**	**13.1**	**R 313.3**	**R 3,209.5**	**—**	**—**	**R 4,551.5**	**-727.3**	**1,211.3**	**R 5,035.5**
1981	—	230.6	230.6	1,363.9	660.4	206.5	169.7	2,384.1	16.0	R 319.7	R 3,756.2	—	—	R 5,350.8	-783.2	1,571.2	R 6,138.8
1982	—	337.4	337.4	1,484.3	631.0	232.5	206.3	2,337.0	15.1	R 277.7	R 3,699.6	—	—	R 5,521.3	-850.3	1,853.6	R 6,524.7
1983	—	380.6	380.6	1,642.7	671.3	212.4	227.4	1,965.7	10.3	R 292.0	R 3,379.1	—	—	R 5,402.4	-956.0	2,054.9	R 6,501.4
1984	—	400.4	400.4	1,760.6	732.7	243.0	183.6	1,902.6	5.3	R 273.9	R 3,341.2	—	—	R 5,502.1	-995.2	1,979.9	R 6,486.8
1985	**—**	**400.2**	**400.2**	**1,633.3**	**720.5**	**190.6**	**R 209.6**	**1,940.7**	**2.4**	**R 291.4**	**R 3,355.1**	**—**	**—**	**R 5,388.6**	**-988.5**	**2,141.2**	**R 6,541.4**
1986	—	360.2	360.2	1,416.3	436.5	129.8	R 172.8	1,342.7	3.2	R 250.7	R 2,335.5	—	—	R 4,112.0	-883.8	2,158.5	R 5,386.7
1987	—	379.9	379.9	1,305.6	484.4	161.8	R 150.4	1,436.3	3.3	R 208.1	R 2,444.4	—	—	R 4,129.8	-882.1	2,014.1	R 5,261.8
1988	—	404.1	404.1	1,307.5	488.8	150.7	R 98.7	1,454.1	5.2	R 226.5	R 2,424.0	—	—	R 4,135.5	-900.4	2,047.7	R 5,282.9
1989	—	366.5	366.5	1,363.3	530.6	220.5	R 118.1	1,590.1	3.7	R 215.7	R 2,678.6	—	—	R 4,408.5	-891.0	2,040.0	R 5,557.5
1990	**—**	**388.1**	**388.1**	**1,307.5**	**668.4**	**259.8**	**R 77.2**	**1,851.0**	**7.6**	**R 240.4**	**R 3,104.5**	**—**	**d R 16.0**	**d R 4,816.1**	**-904.7**	**R 2,317.1**	**d R 6,228.5**
1991	—	384.4	384.4	1,262.6	573.6	279.1	R 115.1	1,778.1	2.0	R 252.0	R 3,000.0	—	R 17.1	R 4,664.1	-862.2	R 2,266.3	R 6,068.2
1992	—	381.7	381.7	1,281.5	636.2	321.7	R 88.9	1,754.2	5.9	R 235.3	R 3,042.2	—	R 17.2	R 4,722.6	-835.3	R 2,207.6	R 6,094.9
1993	—	414.5	414.5	1,429.4	649.1	207.9	R 149.1	1,759.5	7.2	R 256.6	R 3,029.4	—	R 16.2	R 4,889.5	-873.1	R 2,402.6	R 6,419.0
1994	—	321.3	321.3	1,367.0	668.7	223.4	R 146.1	1,781.3	5.2	R 257.3	R 3,081.9	—	R 16.2	R 4,786.4	-719.3	R 2,390.0	R 6,457.1
1995	**—**	**355.2**	**355.2**	**1,332.9**	**678.8**	**124.9**	**100.6**	**1,840.6**	**3.9**	**259.3**	**3,008.1**	**—**	**18.4**	**4,714.7**	**-670.9**	**2,294.6**	**6,338.4**

[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.

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 228. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Oklahoma

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**0.90**	**0.81**	**0.89**	**1.41**	**1.60**	**1.60**	**—**	**0.99**	**7.42**	**2.24**
1971	0.84	0.85	0.91	1.44	1.65	1.65	—	1.02	7.45	2.38
1972	0.98	0.88	0.91	1.41	1.59	1.59	—	1.04	7.41	2.54
1973	1.48	0.91	1.13	1.67	2.78	2.76	—	1.32	7.25	2.84
1974	1.07	1.02	2.19	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**	**—**	**1.62**	**8.22**	**3.19**
1976	1.41	1.51	2.48	3.09	4.11	4.09	—	2.05	9.45	3.79
1977	1.61	1.76	2.80	3.53	4.24	4.23	—	2.24	10.60	4.28
1978	1.71	1.92	2.91	3.74	4.39	4.38	—	2.41	11.39	4.78
1979	2.97	2.19	4.63	5.24	5.57	5.56	—	2.44	11.98	5.12
1980	**2.54**	**2.46**	**6.60**	**7.95**	**7.29**	**7.29**	**—**	**2.84**	**13.50**	**6.40**
1981	3.42	2.87	8.00	9.71	7.40	7.47	—	3.31	15.85	7.89
1982	3.18	3.50	7.54	9.67	8.49	8.50	—	3.95	18.00	8.91
1983	2.91	4.18	6.95	8.57	9.06	8.96	—	4.69	19.31	9.84
1984	2.92	4.48	6.81	8.34	7.90	7.83	—	4.72	18.18	9.47
1985	**2.83**	**4.49**	**3.73**	**4.57**	**7.78**	**7.47**	**—**	**4.76**	**19.37**	**10.09**
1986	2.78	4.90	5.41	6.63	6.95	6.90	—	5.05	20.69	11.17
1987	2.40	4.49	3.64	4.45	6.33	6.26	—	4.62	19.76	10.71
1988	2.12	4.36	4.81	5.89	6.80	6.71	—	4.51	19.74	10.33
1989	2.43	4.40	6.14	7.52	6.70	6.71	—	4.57	20.02	10.41
1990	**2.41**	**4.71**	**7.37**	**9.02**	**8.27**	**8.28**	**[d] 3.53**	**[d] 4.89**	**[R] 19.30**	**[d] 10.87**
1991	2.36	4.66	6.84	8.38	7.35	7.36	3.53	4.79	[R] 20.61	10.77
1992	2.43	4.85	6.25	7.65	8.11	8.09	3.53	4.98	[R] 21.02	10.90
1993	2.16	4.84	6.28	7.69	8.82	8.80	3.53	5.01	20.94	10.80
1994	2.25	5.36	7.88	9.65	[R] 7.84	[R] 7.85	3.53	[R] 5.44	[R] 20.60	[R] 11.37
1995	**2.24**	**5.48**	**6.10**	**7.46**	**8.23**	**8.19**	**3.53**	**5.56**	**19.99**	**11.23**
	Expenditures in Million Nominal Dollars									
1970	**(s)**	**65.1**	**(s)**	**0.4**	**35.1**	**35.5**	**—**	**100.7**	**184.6**	**285.3**
1971	(s)	65.8	(s)	0.3	34.7	35.0	—	100.8	197.7	298.5
1972	(s)	69.7	0.1	0.3	35.1	35.4	—	105.2	231.6	336.8
1973	(s)	67.8	0.1	0.4	58.6	59.1	—	126.9	238.9	365.8
1974	(s)	76.6	0.2	0.5	63.4	64.1	—	140.7	266.0	406.7
1975	**(s)**	**97.3**	**0.2**	**0.4**	**65.4**	**66.0**	**—**	**163.3**	**258.7**	**422.0**
1976	(s)	122.9	0.2	0.2	87.5	87.9	—	210.8	300.0	510.9
1977	0.1	154.8	0.2	0.3	88.3	88.8	—	243.7	372.8	616.4
1978	0.1	162.2	0.3	0.4	91.2	91.9	—	254.1	429.6	683.7
1979	0.4	187.5	0.2	0.2	38.7	39.0	—	226.9	434.7	661.6
1980	**0.6**	**188.5**	**0.6**	**0.9**	**47.1**	**48.6**	**—**	**237.8**	**566.8**	**804.6**
1981	0.1	205.5	4.5	0.8	50.9	56.1	—	261.7	722.1	983.8
1982	0.4	281.0	(s)	0.8	66.8	67.6	—	349.1	868.1	1,217.1
1983	(s)	343.5	3.0	0.6	84.8	88.5	—	432.0	965.0	1,396.9
1984	0.1	371.0	3.2	1.2	46.2	50.6	—	421.7	884.3	1,306.0
1985	**0.1**	**348.3**	**1.8**	**0.8**	**56.8**	**59.4**	**—**	**407.8**	**951.6**	**1,359.4**
1986	0.1	333.7	0.9	0.3	37.4	38.7	—	372.4	981.5	1,353.9
1987	(s)	297.1	0.2	0.6	31.6	32.3	—	329.5	949.6	1,279.0
1988	0.1	325.3	0.8	0.8	32.9	34.5	—	359.9	975.0	1,334.9
1989	(s)	323.1	(s)	0.8	37.2	38.1	—	361.1	962.0	1,323.1
1990	**(s)**	**315.0**	**(s)**	**0.5**	**38.2**	**38.7**	**[d] 9.5**	**[d] 363.2**	**[R] 1,124.5**	**[d R] 1,487.7**
1991	(s)	326.6	(s)	0.5	36.5	36.9	10.0	373.6	[R] 1,077.7	[R] 1,451.3
1992	(s)	326.4	0.1	0.5	32.6	33.2	10.6	370.2	[R] 1,022.2	[R] 1,392.4
1993	(s)	387.1	(s)	0.3	40.9	41.2	9.2	437.5	[R] 1,135.9	[R] 1,573.4
1994	(s)	380.7	(s)	0.3	[R] 34.1	[R] 34.4	9.1	[R] 424.1	[R] 1,133.6	[R] 1,557.8
1995	**0.2**	**382.0**	**0.4**	**0.2**	**36.2**	**36.8**	**10.1**	**429.0**	**1,113.0**	**1,542.0**

[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.

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 229. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Oklahoma

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.45**	**0.51**	**0.82**	**0.62**	**1.12**	**2.82**	**0.47**	**1.18**	**0.61**	**5.50**	**1.68**
1971	0.68	0.52	0.83	0.62	1.24	2.80	0.44	1.22	0.63	5.58	1.81
1972	0.46	0.55	0.83	0.61	1.19	2.78	0.54	1.11	0.66	5.70	1.91
1973	0.36	0.63	1.03	0.78	1.34	2.99	0.75	1.26	0.77	5.64	2.08
1974	0.81	0.73	2.05	2.17	2.69	4.04	1.67	2.44	1.07	6.05	2.43
1975	**0.94**	**0.94**	**2.12**	**2.37**	**2.56**	**4.52**	**1.46**	**2.58**	**1.24**	**6.73**	**2.96**
1976	1.31	1.18	2.37	2.63	2.85	4.76	1.49	2.79	1.47	7.99	3.48
1977	1.23	1.51	2.69	3.07	3.64	5.10	1.95	3.38	1.81	9.16	4.11
1978	1.48	1.68	2.79	3.23	3.96	5.34	1.83	3.56	2.01	10.05	4.69
1979	1.65	3.40	4.43	4.74	4.05	6.99	2.27	4.51	3.50	10.60	5.83
1980	**1.39**	**2.30**	**6.31**	**6.42**	**5.72**	**9.79**	**3.42**	**7.20**	**2.74**	**11.91**	**6.12**
1981	1.55	2.78	7.65	5.38	6.29	10.89	—	8.18	3.47	13.10	7.61
1982	1.77	3.42	7.21	6.99	6.71	10.25	—	7.98	3.88	14.77	8.55
1983	1.77	3.98	6.25	7.19	7.24	8.76	—	7.22	4.43	15.94	9.38
1984	1.76	4.35	6.31	6.94	7.09	8.64	—	7.33	4.79	17.03	9.91
1985	**1.79**	**4.32**	**5.99**	**6.62**	**[R] 7.23**	**8.76**	**—**	**[R] 6.89**	**4.70**	**18.02**	**10.69**
1986	1.84	4.31	3.66	4.27	[R] 8.52	6.30	—	[R] 5.79	[R] 4.46	18.48	11.29
1987	1.96	4.05	4.21	4.78	[R] 8.07	7.08	2.18	[R] 5.84	[R] 4.30	17.13	10.78
1988	1.88	3.92	3.80	4.42	[R] 5.14	7.12	1.80	[R] 4.90	4.03	16.67	9.38
1989	1.42	3.86	4.44	5.01	[R] 5.54	7.79	2.01	[R] 5.30	[R] 4.08	16.87	10.04
1990	**1.33**	**3.84**	**5.47**	**6.20**	**[R] 5.57**	**9.00**	**2.38**	**[R] 6.31**	**4.20**	**16.65**	**10.57**
1991	1.32	3.86	4.85	5.52	[R] 6.38	8.72	1.66	[R] 5.69	[R] 4.08	17.59	[R] 10.66
1992	1.39	4.14	4.66	5.45	[R] 4.67	8.37	2.29	[R] 5.33	4.26	17.68	11.16
1993	1.41	4.33	4.48	5.29	[R] 6.97	8.21	—	[R] 5.43	[R] 4.40	[R] 18.03	11.18
1994	1.53	4.61	4.26	[R] 5.13	[R] 8.10	8.16	—	[R] 5.75	[R] 4.68	17.46	11.47
1995	**1.41**	**4.41**	**4.28**	**5.14**	**8.13**	**8.27**	**2.37**	**5.69**	**4.48**	**16.52**	**10.67**
	Expenditures in Million Nominal Dollars										
1970	**(s)**	**22.9**	**0.5**	**0.8**	**4.3**	**3.4**	**0.6**	**9.6**	**32.5**	**82.9**	**115.4**
1971	(s)	22.4	0.8	0.6	4.6	3.5	0.6	10.1	32.5	90.2	122.7
1972	(s)	24.8	1.7	0.6	4.6	3.5	1.3	11.8	36.5	104.0	140.5
1973	(s)	25.9	2.5	0.8	5.0	3.9	2.4	14.6	40.5	108.3	148.8
1974	(s)	30.9	4.9	1.8	9.4	5.3	4.0	25.5	56.4	119.9	176.3
1975	**(s)**	**39.1**	**5.0**	**1.4**	**9.4**	**6.3**	**1.8**	**24.0**	**63.1**	**156.5**	**219.6**
1976	0.1	52.3	7.5	0.8	10.7	6.9	1.9	27.9	80.3	194.1	274.3
1977	0.1	73.6	7.7	1.1	13.3	7.6	1.9	31.6	105.3	242.8	348.1
1978	0.1	77.1	9.6	1.5	14.5	8.1	1.4	35.2	112.3	280.3	392.6
1979	0.4	177.8	5.4	0.7	5.0	10.8	3.2	25.2	203.4	301.4	504.8
1980	**0.6**	**108.4**	**11.6**	**0.5**	**6.5**	**15.5**	**0.6**	**34.8**	**143.8**	**365.8**	**509.6**
1981	0.1	116.6	23.3	1.2	7.6	18.0	—	50.2	166.9	475.0	641.9
1982	0.4	157.7	6.6	9.6	9.3	17.3	—	42.8	200.9	573.2	774.1
1983	0.1	182.3	21.7	0.5	12.0	18.9	—	53.1	235.5	640.0	875.5
1984	0.1	196.5	23.7	0.6	7.3	27.2	—	58.8	255.4	652.3	907.7
1985	**0.1**	**179.8**	**24.6**	**0.7**	**[R] 9.3**	**15.6**	**—**	**[R] 50.2**	**[R] 230.1**	**719.9**	**[R] 950.0**
1986	0.1	160.9	6.0	0.1	[R] 8.1	11.4	—	[R] 25.7	[R] 186.7	734.7	[R] 921.4
1987	0.1	135.5	10.0	0.1	[R] 7.1	13.3	0.2	[R] 30.8	[R] 166.4	677.6	[R] 844.0
1988	0.2	194.8	13.8	1.1	[R] 4.4	12.8	0.1	[R] 32.1	[R] 227.2	690.0	[R] 917.2
1989	(s)	151.7	16.5	2.5	[R] 5.4	12.8	0.6	[R] 37.8	[R] 189.5	684.0	[R] 873.5
1990	**(s)**	**145.9**	**17.2**	**0.4**	**[R] 4.5**	**17.6**	**1.2**	**[R] 40.9**	**[R] 186.8**	**[R] 776.2**	**[R] 962.9**
1991	(s)	154.8	13.7	0.3	[R] 5.6	10.6	0.8	[R] 31.0	[R] 185.8	[R] 760.3	[R] 946.0
1992	(s)	148.9	10.2	0.1	[R] 3.3	7.6	0.6	[R] 21.8	[R] 170.7	749.0	919.6
1993	(s)	180.2	8.5	0.2	[R] 5.7	1.6	—	[R] 15.9	[R] 196.1	[R] 795.5	[R] 991.6
1994	(s)	172.7	6.5	0.1	[R] 6.2	1.6	—	[R] 14.5	[R] 187.2	[R] 791.9	[R] 979.1
1995	**0.3**	**177.6**	**7.3**	**0.1**	**6.3**	**1.6**	**(s)**	**15.4**	**193.2**	**752.9**	**946.1**

[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.
(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 230. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Oklahoma

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**—**	**—**	**0.25**	**0.68**	**0.54**	**0.62**	**1.12**	**5.08**	**2.82**	**0.53**	**[R] 0.57**	**[R] 0.80**	**—**	**0.53**	**3.13**	**[R] 0.75**
1971	—	0.68	0.68	0.26	0.73	0.54	0.62	1.24	5.27	2.80	0.58	[R] 0.66	0.90	—	0.58	3.09	0.80
1972	—	0.46	0.46	0.29	0.78	0.53	0.61	1.19	5.58	2.78	0.58	[R] 0.63	0.88	—	0.60	3.13	0.85
1973	—	0.36	0.36	0.36	0.83	0.68	0.78	1.34	5.33	2.99	0.65	0.65	[R] 0.99	—	0.72	3.20	[R] 0.96
1974	—	0.81	0.81	0.48	1.44	1.87	2.17	2.69	7.22	4.04	1.50	[R] 0.87	[R] 1.80	—	1.13	3.57	1.36
1975	**—**	**0.94**	**0.94**	**0.72**	**1.86**	**2.09**	**2.37**	**2.56**	**7.48**	**4.52**	**1.65**	**1.45**	**[R] 2.05**	**—**	**1.39**	**4.29**	**1.70**
1976	—	1.31	1.31	0.90	1.90	2.28	2.63	2.85	7.05	4.76	1.79	1.58	[R] 2.20	—	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	[R] 2.52	—	1.79	6.70	[R] 2.25
1978	—	1.48	1.48	1.48	2.21	2.70	3.23	3.96	7.60	5.34	1.95	[R] 1.65	[R] 2.69	—	1.97	7.27	2.49
1979	—	1.65	1.65	1.79	2.59	4.28	4.74	4.05	10.21	6.99	2.42	[R] 1.98	[R] 3.64	—	2.56	7.56	[R] 3.03
1980	**—**	**1.39**	**1.39**	**2.11**	**3.60**	**5.68**	**6.42**	**5.72**	**14.36**	**9.79**	**3.22**	**[R] 2.79**	**[R] 4.84**	**—**	**[R] 3.22**	**9.31**	**[R] 3.85**
1981	—	1.55	1.55	2.49	4.79	4.80	5.38	6.29	18.00	10.89	4.34	[R] 3.21	[R] 5.40	—	[R] 3.36	10.90	[R] 4.14
1982	—	1.77	1.77	2.93	4.03	6.05	6.99	6.71	17.25	10.25	4.84	[R] 2.51	[R] 5.56	—	[R] 3.73	12.20	[R] 4.65
1983	—	1.77	1.77	3.23	4.21	6.54	7.19	7.24	16.98	8.76	4.87	[R] 2.13	[R] 5.68	—	[R] 4.07	12.83	[R] 5.06
1984	—	1.76	1.76	3.27	4.19	6.54	6.94	7.09	17.63	8.64	4.25	[R] 2.54	[R] 6.08	—	[R] 4.14	12.89	[R] 5.07
1985	**—**	**1.79**	**1.79**	**3.23**	**4.20**	**6.24**	**6.62**	**[R] 7.23**	**17.61**	**8.76**	**3.39**	**[R] 2.50**	**[R] 5.90**	**—**	**[R] 4.18**	**13.33**	**[R] 5.21**
1986	—	1.84	1.84	2.57	4.58	4.03	4.27	[R] 8.52	15.59	6.30	2.11	[R] 1.95	[R] 5.25	—	[R] 3.40	13.05	[R] 4.60
1987	—	1.96	1.96	1.96	3.44	4.50	4.78	[R] 8.07	[R] 13.58	7.08	2.18	[R] 2.03	[R] 5.05	—	[R] 2.79	11.19	[R] 3.78
1988	—	1.88	1.88	1.70	3.24	4.16	4.42	[R] 5.14	[R] 14.62	7.12	1.80	[R] 1.84	[R] 4.16	—	[R] 2.47	10.75	[R] 3.51
1989	—	1.42	1.42	1.93	3.15	4.72	5.01	[R] 5.54	14.48	7.79	2.01	[R] 2.15	[R] 4.61	—	[R] 2.62	10.73	[R] 3.61
1990	**—**	**1.33**	**1.33**	**1.71**	**3.14**	**5.84**	**6.20**	**[R] 5.57**	**14.60**	**9.00**	**2.38**	**[R] 2.52**	**[R] 4.80**	**[d R] 1.36**	**[d R] 2.49**	**[R] 10.65**	**[d R] 3.51**
1991	—	1.32	1.32	1.67	3.40	5.20	5.52	[R] 6.38	[R] 16.80	8.72	1.66	[R] 2.65	[R] 4.98	[R] 1.44	[R] 2.60	[R] 11.29	[R] 3.68
1992	—	1.39	1.39	1.98	2.47	5.14	5.45	[R] 4.67	[R] 18.32	8.37	2.29	[R] 2.39	[R] 4.50	[R] 1.44	[R] 2.70	11.32	[R] 3.77
1993	—	1.41	1.41	2.15	2.74	4.98	5.29	[R] 6.97	[R] 18.96	8.21	2.42	[R] 2.02	[R] 4.73	[R] 1.42	[R] 2.85	[R] 12.12	[R] 3.95
1994	—	1.53	1.53	2.09	2.71	4.84	5.13	[R] 7.10	[R] 19.11	8.16	2.35	[R] 2.39	[R] 4.98	[R] 1.41	[R] 2.87	[R] 11.92	[R] 3.94
1995	**—**	**1.41**	**1.41**	**2.24**	**2.90**	**4.84**	**5.14**	**7.45**	**19.40**	**8.27**	**2.37**	**2.56**	**5.07**	**1.41**	**2.81**	**11.00**	**3.77**
	Expenditures in Million Nominal Dollars																
1970	**—**	**—**	**—**	**18.1**	**20.7**	**6.3**	**2.9**	**8.7**	**5.1**	**7.6**	**1.2**	**[R] 9.2**	**[R] 61.7**	**—**	**[R] 79.8**	**44.2**	**[R] 124.1**
1971	—	0.1	0.1	21.1	25.2	7.7	2.3	9.1	10.2	7.1	0.1	[R] 10.8	[R] 72.4	—	[R] 93.6	47.2	[R] 140.8
1972	—	(s)	(s)	22.1	24.9	11.7	1.6	9.1	11.6	6.6	2.2	[R] 10.7	[R] 78.4	—	[R] 100.5	56.4	[R] 157.0
1973	—	1.4	1.4	26.3	27.7	16.8	1.9	12.2	17.0	7.6	3.3	[R] 12.0	[R] 98.5	—	[R] 126.2	62.6	[R] 188.8
1974	—	3.3	3.3	47.2	52.7	43.6	3.9	21.4	22.1	9.3	5.7	[R] 15.4	[R] 174.1	—	[R] 224.6	73.9	[R] 298.5
1975	**—**	**0.4**	**0.4**	**66.6**	**69.9**	**49.3**	**2.7**	**19.7**	**12.4**	**10.4**	**3.2**	**[R] 27.6**	**[R] 195.0**	**—**	**[R] 262.1**	**94.5**	**[R] 356.6**
1976	—	1.9	1.9	125.4	59.7	72.4	2.9	22.6	13.0	9.2	4.0	[R] 30.5	[R] 214.3	—	[R] 341.6	134.2	[R] 475.8
1977	—	6.0	6.0	194.8	61.9	90.1	2.9	27.6	24.5	9.2	3.9	[R] 35.8	[R] 255.9	—	[R] 456.7	178.6	[R] 635.3
1978	—	12.1	12.1	221.4	64.4	109.4	2.9	37.7	28.6	8.6	4.3	[R] 32.2	[R] 288.1	—	[R] 521.6	208.1	[R] 729.8
1979	—	13.6	13.6	285.6	80.3	152.3	16.4	87.0	40.3	14.8	8.9	[R] 37.8	[R] 437.8	—	[R] 736.9	228.6	[R] 965.6
1980	**—**	**7.8**	**7.8**	**310.6**	**115.1**	**122.5**	**11.1**	**137.7**	**50.4**	**18.4**	**12.5**	**[R] 52.5**	**[R] 520.3**	**—**	**[R] 838.7**	**278.6**	**[R] 1,117.3**
1981	—	22.3	22.3	468.4	106.7	140.7	7.6	103.6	60.6	19.8	15.9	[R] 46.7	[R] 501.6	—	[R] 992.3	374.1	[R] 1,366.4
1982	—	25.1	25.1	509.0	91.8	162.9	8.1	120.1	53.0	17.5	15.1	[R] 34.7	[R] 503.2	—	[R] 1,037.3	412.3	[R] 1,449.6
1983	—	22.4	22.4	520.8	121.1	222.8	3.9	117.6	54.6	13.2	10.3	[R] 31.6	[R] 575.1	—	[R] 1,118.2	450.0	[R] 1,568.2
1984	—	26.4	26.4	574.0	85.9	241.1	3.0	126.7	60.5	33.9	5.0	[R] 31.8	[R] 587.9	—	[R] 1,188.2	443.3	[R] 1,631.5
1985	**—**	**32.6**	**32.6**	**486.9**	**111.7**	**251.9**	**2.4**	**[R] 139.9**	**56.3**	**44.9**	**2.2**	**[R] 33.0**	**[R] 642.3**	**—**	**[R] 1,161.9**	**469.7**	**[R] 1,631.5**
1986	—	30.2	30.2	369.8	99.8	81.3	1.5	[R] 124.0	48.7	30.0	3.1	[R] 24.2	[R] 412.6	—	[R] 812.6	442.2	[R] 1,254.8
1987	—	25.3	25.3	346.9	62.4	76.6	1.0	[R] 109.0	[R] 48.0	30.5	3.0	[R] 24.9	[R] 355.4	—	[R] 727.5	386.9	[R] 1,114.4
1988	—	22.5	22.5	269.4	76.7	76.4	0.5	[R] 59.5	49.8	29.7	5.0	[R] 24.3	[R] 322.0	—	[R] 613.9	382.7	[R] 996.6
1989	—	20.0	20.0	345.4	57.5	76.2	0.3	[R] 73.7	50.6	37.1	3.0	[R] 29.1	[R] 327.6	—	[R] 693.1	394.0	[R] 1,087.1
1990	**—**	**16.8**	**16.8**	**315.5**	**73.1**	**105.1**	**0.5**	**[R] 32.5**	**52.5**	**39.2**	**5.3**	**[R] 36.0**	**[R] 344.2**	**[d R] 6.5**	**[d R] 683.1**	**[R] 416.5**	**[d R] 1,099.5**
1991	—	21.3	21.3	282.9	77.5	96.8	0.4	[R] 70.6	54.0	41.0	1.0	[R] 42.0	[R] 383.2	[R] 7.0	[R] 694.4	[R] 428.4	[R] 1,122.9
1992	—	23.1	23.1	330.0	47.9	125.6	0.5	[R] 51.5	[R] 60.1	36.5	5.1	[R] 40.3	[R] 367.6	[R] 6.6	[R] 727.3	436.5	[R] 1,163.7
1993	—	37.9	37.9	365.8	67.7	90.8	0.4	[R] 100.2	63.3	44.2	7.1	[R] 35.4	[R] 409.1	[R] 7.0	[R] 819.7	[R] 471.2	[R] 1,290.9
1994	—	24.6	24.6	391.0	63.6	98.0	0.7	[R] 101.0	[R] 66.7	47.6	5.1	[R] 33.1	[R] 415.6	[R] 7.2	[R] 838.5	[R] 464.5	[R] 1,302.9
1995	**—**	**46.4**	**46.4**	**412.2**	**61.3**	**87.4**	**0.2**	**56.1**	**66.6**	**51.4**	**2.6**	**35.2**	**360.6**	**8.4**	**827.5**	**428.7**	**1,256.2**

[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 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.
(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, 1970-1995, Oklahoma

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	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	0.53	2.43	2.43	—	2.43
1973	0.36	—	2.36	1.48	0.89	1.34	5.33	2.99	0.73	2.67	2.67	—	2.67
1974	0.81	—	3.23	2.47	1.54	2.69	7.22	4.04	1.63	3.68	3.68	—	3.68
1975	**0.94**	**—**	**3.45**	**2.61**	**2.01**	**2.56**	**7.48**	**4.52**	**1.79**	**4.11**	**4.11**	**—**	**4.11**
1976	1.31	—	3.59	2.80	2.12	2.85	7.05	4.76	—	4.32	4.32	—	4.32
1977	1.23	—	3.97	3.24	2.48	3.64	6.97	5.10	—	4.67	4.67	—	4.67
1978	—	—	4.29	3.38	2.86	3.96	7.60	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	**—**	**—**	**9.02**	**7.30**	**6.34**	**5.72**	**14.36**	**9.79**	**—**	**9.12**	**9.12**	**—**	**9.12**
1981	—	—	10.84	8.61	7.47	6.29	18.00	10.89	—	10.25	10.25	—	10.25
1982	—	—	10.92	8.16	7.09	6.71	17.25	10.25	—	9.63	9.63	—	9.63
1983	—	—	10.44	7.25	6.41	7.24	16.98	8.76	—	8.34	8.34	—	8.34
1984	—	—	10.27	7.31	6.24	7.09	17.63	8.64	—	8.22	8.22	—	8.22
1985	**—**	**—**	**9.99**	**7.15**	**5.87**	**[R] 7.23**	**17.61**	**8.76**	**—**	**8.27**	**8.27**	**—**	**8.27**
1986	—	—	8.41	5.92	3.94	[R] 8.52	15.59	6.30	—	6.11	6.11	—	6.11
1987	—	—	7.55	6.45	3.90	[R] 8.07	[R] 13.58	7.08	—	[R] 6.62	[R] 6.62	—	[R] 6.62
1988	—	—	7.41	6.17	3.75	[R] 5.14	[R] 14.62	7.12	—	6.59	6.59	—	6.59
1989	—	—	8.28	6.64	4.27	[R] 5.54	14.48	7.79	—	7.08	7.08	—	7.08
1990	**—**	**—**	**9.32**	**8.00**	**5.93**	**[R] 5.57**	**14.60**	**9.00**	**—**	**8.44**	**8.44**	**—**	**8.44**
1991	—	3.78	8.71	7.59	4.73	[R] 6.38	[R] 16.80	8.72	—	7.88	7.88	—	7.88
1992	—	2.99	8.54	7.34	4.42	[R] 4.67	[R] 18.32	8.37	—	[R] 7.47	[R] 7.47	—	[R] 7.47
1993	—	2.60	8.24	7.31	4.12	[R] 6.97	[R] 18.96	8.21	—	7.54	7.54	—	7.54
1994	—	2.30	7.96	7.14	3.84	[R] 9.07	[R] 19.11	8.16	—	7.37	7.37	—	7.37
1995	**—**	**2.33**	**8.36**	**7.03**	**4.12**	**9.41**	**19.40**	**8.27**	**—**	**7.74**	**7.74**	**—**	**7.74**
	Expenditures in Million Nominal Dollars												
1970	**—**	**—**	**4.9**	**21.7**	**17.2**	**2.2**	**14.1**	**470.9**	**0.2**	**531.2**	**531.2**	**—**	**531.2**
1971	(s)	—	4.7	18.1	18.1	2.7	13.8	485.8	0.1	543.3	543.3	—	543.3
1972	(s)	—	4.4	24.6	17.1	2.5	15.7	512.0	1.0	577.1	577.1	—	577.1
1973	(s)	—	4.6	35.4	19.7	2.6	17.7	577.4	0.2	657.6	657.6	—	657.6
1974	(s)	—	6.0	61.7	33.8	4.7	23.0	770.2	0.2	899.6	899.6	—	899.6
1975	**(s)**	**—**	**5.4**	**73.0**	**43.2**	**4.5**	**24.4**	**896.7**	**0.5**	**1,047.7**	**1,047.7**	**—**	**1,047.7**
1976	(s)	—	5.4	92.7	46.3	5.3	25.5	995.0	—	1,170.2	1,170.2	—	1,170.2
1977	(s)	—	6.6	117.3	57.0	8.0	32.9	1,106.2	—	1,328.0	1,328.0	—	1,328.0
1978	—	—	7.6	132.7	74.8	9.9	38.4	1,210.3	—	1,473.8	1,473.8	—	1,473.8
1979	—	—	8.9	249.9	99.4	2.5	54.0	1,490.6	—	1,905.2	1,905.2	—	1,905.2
1980	**—**	**—**	**14.9**	**341.7**	**170.5**	**4.9**	**67.7**	**2,004.2**	**—**	**2,604.0**	**2,604.0**	**—**	**2,604.0**
1981	—	—	14.7	490.4	206.5	7.6	81.4	2,346.2	—	3,146.7	3,146.7	—	3,146.7
1982	—	—	8.6	459.2	232.5	10.2	71.1	2,302.2	—	3,083.8	3,083.8	—	3,083.8
1983	—	—	6.4	422.0	212.4	13.0	73.3	1,933.7	—	2,660.8	2,660.8	—	2,660.8
1984	—	—	9.8	462.7	243.0	3.4	81.2	1,841.5	—	2,641.6	2,641.6	—	2,641.6
1985	**—**	**—**	**11.0**	**439.7**	**190.6**	**[R] 3.5**	**75.5**	**1,880.2**	**—**	**[R] 2,600.5**	**[R] 2,600.5**	**—**	**[R] 2,600.5**
1986	—	—	10.6	346.3	129.8	[R] 3.3	65.4	1,301.2	—	[R] 1,856.6	[R] 1,856.6	—	[R] 1,856.6
1987	—	—	6.8	396.1	161.8	[R] 2.7	[R] 64.4	1,392.6	—	[R] 2,024.4	[R] 2,024.4	—	[R] 2,024.4
1988	—	—	6.5	396.7	150.7	[R] 1.9	66.8	1,411.7	—	[R] 2,034.2	[R] 2,034.2	—	[R] 2,034.2
1989	—	—	6.9	436.5	220.5	1.7	67.9	1,540.2	—	[R] 2,273.8	[R] 2,273.8	—	[R] 2,273.8
1990	**—**	**—**	**6.9**	**545.0**	**259.8**	**[R] 2.0**	**70.5**	**1,794.2**	**—**	**[R] 2,678.3**	**[R] 2,678.3**	**—**	**[R] 2,678.3**
1991	—	(s)	4.9	462.5	279.1	[R] 2.5	72.5	1,726.5	—	[R] 2,548.0	[R] 2,548.0	—	[R] 2,548.0
1992	—	0.1	5.3	499.9	321.7	[R] 1.4	[R] 80.6	1,710.1	—	[R] 2,619.1	[R] 2,619.2	—	[R] 2,619.2
1993	—	0.3	4.3	549.5	207.9	[R] 2.4	[R] 85.0	1,713.6	—	[R] 2,562.8	[R] 2,563.0	—	[R] 2,563.0
1994	—	0.4	3.4	563.8	223.4	[R] 4.7	[R] 89.5	1,732.1	—	[R] 2,616.9	[R] 2,617.3	—	[R] 2,617.3
1995	**—**	**0.3**	**6.5**	**583.5**	**124.9**	**2.0**	**89.3**	**1,787.6**	**—**	**2,593.7**	**2,594.0**	**—**	**2,594.0**

[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.
(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 232. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Oklahoma

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.39**	**0.19**	**0.46**	**0.56**	**—**	**0.50**	**—**	**—**	**0.19**
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**	**—**	**1.75**	**—**	**—**	**0.61**
1976	—	1.01	1.53	2.14	—	1.85	—	—	1.01
1977	1.08	1.30	1.93	2.69	—	2.18	—	—	1.29
1978	1.07	1.42	1.86	2.61	—	2.13	—	—	1.39
1979	1.15	1.54	2.23	5.09	—	3.63	—	—	1.50
1980	**1.23**	**1.74**	**3.44**	**5.30**	**—**	**5.29**	**—**	**—**	**1.63**
1981	1.45	1.92	3.68	7.09	—	6.76	—	—	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	1.73	2.65	3.65	5.85	—	5.38	—	—	2.21
1985	**1.68**	**2.95**	**3.73**	**5.54**	**—**	**5.34**	**—**	**—**	**2.30**
1986	1.64	2.68	1.50	2.90	—	2.81	—	—	2.17
1987	1.56	2.67	2.76	3.91	—	3.89	—	—	2.08
1988	1.48	2.81	2.50	3.42	—	3.35	—	—	2.04
1989	1.36	2.93	2.91	4.15	—	3.94	—	—	2.02
1990	**1.40**	**3.01**	**3.02**	**7.28**	**—**	**4.34**	**—**	**—**	**2.05**
1991	1.32	2.87	3.33	4.09	—	3.84	—	—	1.92
1992	1.23	3.08	2.16	4.36	—	3.54	—	—	1.88
1993	1.24	3.11	2.07	3.50	—	3.16	—	—	1.88
1994	1.02	2.67	2.10	3.70	—	3.28	—	—	1.60
1995	**0.99**	**2.27**	**1.90**	**2.53**	**—**	**1.97**	**—**	**—**	**1.43**
	Expenditures in Million Nominal Dollars								
1970	**(s)**	**46.5**	**0.2**	**0.2**	**—**	**0.4**	**—**	**—**	**46.8**
1971	(s)	51.5	0.1	0.1	—	0.2	—	—	51.7
1972	(s)	64.9	0.3	0.2	—	0.5	—	—	65.4
1973	(s)	77.1	0.3	0.4	—	0.7	—	—	77.8
1974	(s)	119.9	1.8	0.4	—	2.2	—	—	122.1
1975	**(s)**	**189.1**	**0.3**	**0.6**	**—**	**0.9**	**—**	**—**	**190.0**
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	—	—	556.4
1979	59.6	542.0	0.8	1.8	—	2.6	—	—	604.2
1980	**123.5**	**602.0**	**(s)**	**1.8**	**—**	**1.8**	**—**	**—**	**727.3**
1981	208.1	573.4	0.1	1.5	—	1.6	—	—	783.2
1982	311.6	536.5	(s)	2.2	—	2.2	—	—	850.3
1983	358.1	596.2	(s)	1.7	—	1.7	—	—	956.0
1984	373.8	619.1	0.3	2.0	—	2.3	—	—	995.2
1985	**367.4**	**618.3**	**0.2**	**2.5**	**—**	**2.7**	**—**	**—**	**988.5**
1986	329.8	551.9	0.1	1.9	—	2.0	—	—	883.8
1987	354.5	526.0	(s)	1.5	—	1.6	—	—	882.1
1988	381.3	518.0	0.1	1.1	—	1.2	—	—	900.4
1989	346.5	543.1	0.2	1.3	—	1.5	—	—	891.0
1990	**371.3**	**531.1**	**1.1**	**1.2**	**—**	**2.3**	**—**	**—**	**904.7**
1991	363.1	498.2	0.3	0.6	—	0.9	—	—	862.2
1992	358.6	476.1	0.1	0.5	—	0.6	—	—	835.3
1993	376.5	496.1	0.1	0.4	—	0.5	—	—	873.1
1994	296.6	422.2	0.1	0.4	—	0.5	—	—	719.3
1995	**308.4**	**360.9**	**1.3**	**0.3**	**—**	**1.6**	**—**	**—**	**670.9**

[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 233. Energy Price and Expenditure Estimates by Source, 1970-1995, Oregon

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	**—**	**0.57**	**0.57**	**0.81**	**1.21**	**0.73**	**2.21**	**2.83**	**0.51**	**[R]1.67**	**[R]1.91**	**—**	**0.65**	**[R]1.64**	**0.48**	**2.90**	**[R]1.88**
1971	—	0.51	0.51	0.87	1.27	0.77	2.25	2.86	0.62	[R]1.63	[R]1.95	—	0.69	[R]1.69	0.70	3.13	[R]1.96
1972	—	0.57	0.57	0.94	1.25	0.76	2.29	2.82	0.59	[R]1.64	[R]1.90	—	0.72	[R]1.67	0.72	3.24	[R]1.96
1973	—	0.62	0.62	0.98	1.48	0.91	2.86	3.07	0.77	[R]1.79	[R]2.12	—	0.77	[R]1.84	0.62	3.29	[R]2.12
1974	—	0.74	0.74	1.22	2.41	1.57	3.32	4.15	1.70	[R]2.88	[R]3.16	—	0.84	[R]2.69	1.23	3.63	[R]2.88
1975	**—**	**1.04**	**1.04**	**1.44**	**2.62**	**2.04**	**4.17**	**4.45**	**2.06**	**[R]2.74**	**[R]3.53**	**0.20**	**0.92**	**[R]2.99**	**2.04**	**4.13**	**[R]3.24**
1976	—	1.36	1.36	2.03	2.81	2.32	3.73	4.58	1.91	[R]2.74	[R]3.66	0.21	0.98	[R]3.10	0.23	4.43	[R]3.54
1977	—	1.51	1.51	2.38	3.05	2.62	4.77	4.93	2.04	[R]2.87	[R]3.93	0.22	1.04	[R]3.12	0.30	5.09	[R]3.97
1978	—	1.71	1.71	2.87	3.11	2.86	4.65	5.29	2.14	[R]3.12	[R]4.15	0.19	1.12	[R]3.75	0.36	5.70	[R]4.30
1979	—	2.09	2.09	3.22	4.59	3.79	5.71	7.15	2.73	[R]4.06	[R]5.57	0.30	1.56	[R]4.61	0.97	6.12	[R]5.34
1980	**—**	**1.72**	**1.72**	**4.69**	**6.62**	**6.21**	**7.09**	**9.75**	**3.92**	**[R]6.32**	**[R]7.92**	**0.36**	**1.74**	**[R]6.31**	**0.59**	**7.59**	**[R]7.38**
1981	—	1.77	1.77	4.92	7.61	7.56	7.68	10.83	5.26	[R]8.27	[R]8.91	0.47	1.24	[R]6.71	0.74	8.63	[R]8.21
1982	—	1.96	1.96	5.91	7.57	7.37	7.78	10.51	5.63	[R]7.80	[R]8.54	0.61	1.28	[R]7.08	0.79	10.27	[R]8.56
1983	—	1.99	1.99	5.93	7.29	6.76	8.64	8.81	5.44	[R]7.27	[R]7.88	0.64	—	[R]6.75	0.78	11.58	[R]8.46
1984	—	2.15	2.15	5.80	7.29	6.42	7.86	8.79	5.12	[R]7.35	[R]7.75	0.58	—	[R]6.48	0.78	12.10	[R]8.49
1985	**—**	**2.15**	**2.15**	**5.60**	**7.45**	**6.16**	**9.18**	**8.87**	**4.70**	**[R]7.03**	**[R]7.82**	**0.54**	**—**	**[R]6.20**	**0.67**	**13.08**	**[R]8.68**
1986	—	2.47	2.47	4.94	5.32	4.24	9.58	6.92	2.52	[R]7.11	[R]5.94	0.52	—	[R]4.89	0.52	12.95	[R]7.43
1987	—	2.43	2.43	4.55	5.75	4.33	8.71	7.12	2.62	[R]6.79	[R]6.16	0.45	—	[R]5.28	0.45	12.88	[R]7.52
1988	—	2.43	2.43	4.80	5.81	4.04	8.54	7.48	2.35	[R]6.45	[R]6.23	0.46	0.87	[R]5.18	0.47	12.61	[R]7.52
1989	—	1.76	1.76	4.17	6.79	4.76	10.19	8.50	2.55	[R]5.64	[R]7.07	0.46	0.33	[R]5.68	0.99	12.49	[R]7.97
1990	**—**	**1.22**	**1.22**	**4.28**	**7.57**	**5.93**	**10.37**	**9.45**	**3.50**	**[R]5.55**	**[R]7.94**	**0.44**	**[d R]1.98**	**[d R]5.89**	**0.78**	**12.25**	**[d R]8.12**
1991	—	1.17	1.17	4.01	7.72	5.01	10.84	9.14	2.56	[R]6.12	[R]7.59	0.43	[R]2.04	[R]5.94	1.01	12.45	[R]7.89
1992	—	1.18	1.18	3.85	7.76	4.67	10.35	10.03	1.89	[R]5.69	[R]7.82	0.53	[R]2.10	[R]5.69	0.95	12.64	[R]8.04
1993	—	1.20	1.20	4.14	7.99	4.62	10.43	9.98	2.04	[R]5.83	[R]8.12	—	[R]2.02	[R]6.36	1.50	[R]12.98	[R]8.30
1994	—	1.15	1.15	4.12	7.82	4.16	[R]10.22	10.03	2.06	[R]6.07	[R]8.09	—	[R]2.04	[R]6.24	1.37	13.49	[R]8.45
1995	**—**	**1.25**	**1.25**	**3.93**	**7.80**	**4.28**	**9.93**	**10.23**	**2.20**	**6.64**	**8.34**	**—**	**2.03**	**6.55**	**1.19**	**13.69**	**8.53**
	Expenditures in Million Nominal Dollars																
1970	**—**	**1.7**	**1.7**	**68.7**	**89.2**	**8.6**	**10.2**	**371.2**	**18.5**	**[R]40.4**	**[R]538.1**	**—**	**0.3**	**[R]608.8**	**-0.8**	**248.3**	**[R]856.3**
1971	—	1.7	1.7	77.5	103.7	9.0	11.1	393.3	23.2	[R]40.2	[R]580.6	—	0.2	[R]660.1	-0.2	284.8	[R]944.6
1972	—	1.3	1.3	88.9	113.2	9.0	9.7	411.5	26.0	[R]45.3	[R]614.7	—	0.4	[R]705.3	-0.4	301.5	[R]1,006.3
1973	—	1.3	1.3	103.1	140.1	12.2	11.7	466.7	35.7	[R]46.9	[R]713.4	—	0.5	[R]818.3	-2.3	331.1	[R]1,147.0
1974	—	2.4	2.4	116.0	195.3	19.5	13.8	616.6	69.7	[R]72.5	[R]987.6	—	0.4	[R]1,106.4	-1.3	378.9	[R]1,484.1
1975	**—**	**2.8**	**2.8**	**139.9**	**199.4**	**24.0**	**10.0**	**675.3**	**45.4**	**[R]77.8**	**[R]1,031.9**	**(s)**	**(s)**	**[R]1,174.6**	**-0.4**	**458.4**	**[R]1,632.6**
1976	—	8.0	8.0	175.6	233.1	27.0	9.8	739.9	41.6	[R]71.0	[R]1,122.4	4.8	0.5	[R]1,311.3	-5.6	528.6	[R]1,834.4
1977	—	7.9	7.9	158.5	299.0	34.1	13.1	829.4	43.0	[R]77.6	[R]1,296.4	15.1	2.8	[R]1,480.7	-22.1	595.0	[R]2,053.6
1978	—	8.0	8.0	208.2	310.3	41.0	12.9	930.0	51.9	[R]93.6	[R]1,439.8	3.3	1.5	[R]1,660.8	-6.9	682.2	[R]2,336.0
1979	—	9.8	9.8	257.5	485.1	56.3	28.5	1,196.1	85.4	[R]120.7	[R]1,972.1	14.6	3.4	[R]2,257.4	-57.0	778.2	[R]2,978.6
1980	**—**	**20.8**	**20.8**	**320.9**	**643.9**	**86.5**	**31.7**	**1,562.9**	**100.0**	**[R]152.0**	**[R]2,577.1**	**21.4**	**2.9**	**[R]2,943.1**	**-41.1**	**950.4**	**[R]3,852.5**
1981	—	45.6	45.6	369.2	728.2	72.3	35.2	1,690.1	210.0	[R]158.1	[R]2,893.9	33.2	1.5	[R]3,343.5	-68.5	1,108.8	[R]4,383.7
1982	—	23.2	23.2	388.8	659.9	74.3	34.2	1,566.9	353.3	[R]131.7	[R]2,820.4	32.6	0.5	[R]3,265.4	-49.1	1,191.5	[R]4,407.8
1983	—	19.7	19.7	366.5	678.9	67.8	37.9	1,309.7	135.8	[R]148.2	[R]2,378.3	25.7	—	[R]2,790.2	-36.2	1,302.4	[R]4,056.4
1984	—	25.3	25.3	456.2	669.1	71.0	36.8	1,354.9	185.7	[R]169.5	[R]2,487.0	29.7	—	[R]2,998.2	-46.9	1,571.4	[R]4,522.7
1985	**—**	**21.6**	**21.6**	**432.9**	**667.0**	**74.3**	**44.7**	**1,353.9**	**142.9**	**[R]174.8**	**[R]2,457.6**	**40.6**	**—**	**[R]2,952.6**	**-54.5**	**1,573.1**	**[R]4,471.2**
1986	—	7.2	7.2	340.2	461.9	62.5	52.9	1,088.0	86.9	[R]149.0	[R]1,901.2	39.5	—	[R]2,288.1	-39.6	1,549.2	[R]3,797.7
1987	—	8.9	8.9	337.2	542.4	71.4	47.5	1,144.3	83.8	[R]140.0	[R]2,029.4	21.1	—	[R]2,396.6	-21.1	1,657.4	[R]4,032.9
1988	—	7.6	7.6	388.0	557.5	72.7	49.3	1,263.3	91.0	[R]141.8	[R]2,175.5	31.4	0.9	[R]2,603.3	-32.3	1,692.0	[R]4,263.1
1989	—	12.0	12.0	429.7	642.5	90.9	60.5	1,423.0	86.4	[R]139.5	[R]2,442.9	26.1	0.1	[R]2,910.8	-75.5	1,774.0	[R]4,609.3
1990	**—**	**19.1**	**19.1**	**438.3**	**751.4**	**111.3**	**52.1**	**1,566.3**	**98.9**	**[R]146.2**	**[R]2,726.1**	**28.6**	**[d R]57.9**	**[d R]3,270.0**	**-67.9**	**[R]1,796.6**	**[d R]4,998.7**
1991	—	38.5	38.5	472.4	726.7	105.8	61.1	1,541.7	101.7	[R]150.2	[R]2,687.3	6.8	[R]61.0	[R]3,266.0	-58.1	[R]1,854.4	[R]5,062.2
1992	—	48.1	48.1	459.7	693.9	105.9	53.7	1,681.6	78.2	[R]165.5	[R]2,778.7	26.0	[R]60.2	[R]3,372.7	-96.9	[R]1,850.3	[R]5,126.2
1993	—	44.4	44.4	560.2	657.7	112.7	58.7	1,757.9	59.6	[R]171.1	[R]2,817.6	—	[R]56.5	[R]3,478.7	-77.3	[R]1,974.3	[R]5,375.7
1994	—	51.5	51.5	602.7	638.2	109.7	[R]52.9	1,784.2	57.8	[R]184.9	[R]2,827.7	—	[R]55.5	[R]3,537.4	-93.4	2,070.0	[R]5,514.0
1995	**—**	**25.2**	**25.2**	**566.6**	**667.7**	**124.1**	**55.2**	**1,829.0**	**50.3**	**170.8**	**2,897.3**	**—**	**61.1**	**3,550.1**	**-43.8**	**2,135.2**	**5,641.5**

[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 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.
(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 234. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Oregon

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**0.95**	**1.45**	**1.41**	**2.79**	**2.66**	**1.63**	**—**	**1.53**	**3.65**	**2.47**
1971	1.05	1.53	1.48	2.99	2.66	1.68	—	1.60	3.89	2.63
1972	1.15	1.61	1.49	3.26	2.71	1.66	—	1.63	3.94	2.67
1973	1.15	1.66	1.71	3.36	3.69	1.97	—	1.80	4.14	2.91
1974	1.39	1.92	2.63	3.75	4.24	2.86	—	2.33	4.67	3.49
1975	**1.14**	**2.11**	**2.80**	**3.82**	**5.27**	**3.03**	**—**	**2.42**	**5.27**	**3.78**
1976	1.90	2.59	3.11	3.87	4.45	3.22	—	2.86	5.86	4.41
1977	1.36	3.29	3.34	4.31	5.93	3.54	—	3.44	6.92	5.46
1978	2.55	3.66	3.30	4.54	5.33	3.50	—	3.57	7.53	5.71
1979	4.00	3.95	4.90	6.49	7.42	5.24	—	4.57	7.73	6.31
1980	**4.26**	**5.36**	**7.02**	**9.80**	**9.00**	**7.35**	**—**	**6.20**	**9.37**	**8.04**
1981	4.57	5.81	8.03	11.53	9.12	8.26	—	7.01	10.59	9.02
1982	4.81	6.63	8.05	11.44	9.61	8.36	—	7.37	10.56	9.21
1983	3.75	6.95	7.47	10.63	10.37	8.07	—	7.44	12.07	10.17
1984	3.76	6.93	7.16	10.07	10.92	7.62	—	7.21	12.73	10.43
1985	**3.67**	**6.73**	**7.00**	**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	5.84	—	6.21	14.07	10.93
1988	3.37	6.64	5.11	7.19	9.16	5.51	—	6.23	14.02	10.87
1989	3.66	5.98	5.78	8.14	15.93	6.89	—	6.30	13.97	10.82
1990	**3.77**	**6.13**	**6.99**	**9.84**	**13.92**	**7.82**	**[d] 4.75**	**[d R] 6.46**	**[R] 13.86**	**[d R] 9.92**
1991	5.21	5.95	6.73	9.47	14.26	8.01	4.75	[R] 6.32	14.11	[R] 9.96
1992	3.76	5.94	6.33	8.91	12.88	7.66	4.75	[R] 6.14	[R] 14.45	[R] 10.13
1993	3.77	6.17	6.62	9.31	13.14	8.10	4.75	[R] 6.37	14.71	[R] 10.45
1994	3.74	6.68	6.40	9.00	[R] 10.76	[R] 7.56	4.75	[R] 6.64	15.61	[R] 11.06
1995	**3.77**	**6.45**	**6.45**	**9.07**	**10.53**	**7.47**	**4.75**	**6.44**	**16.08**	**11.16**
	Expenditures in Million Nominal Dollars									
1970	**0.2**	**29.8**	**25.6**	**1.0**	**8.7**	**35.3**	**—**	**65.4**	**122.8**	**188.1**
1971	0.4	33.9	28.1	0.6	9.5	38.1	—	72.4	143.8	216.3
1972	0.3	39.1	28.8	0.4	8.2	37.4	—	76.8	152.0	228.9
1973	0.2	39.3	30.4	0.1	9.9	40.4	—	79.8	165.3	245.2
1974	0.1	43.8	39.8	1.0	10.1	50.9	—	94.8	188.1	282.9
1975	**0.1**	**63.1**	**39.0**	**1.0**	**7.1**	**47.1**	**—**	**110.3**	**217.4**	**327.8**
1976	0.3	56.4	48.1	0.9	5.9	54.8	—	111.6	243.1	354.7
1977	0.2	34.6	60.6	1.7	8.2	70.4	—	105.3	292.1	397.4
1978	0.4	67.3	55.4	3.7	7.1	66.1	—	133.8	328.5	462.3
1979	0.5	77.8	77.2	2.3	16.6	96.1	—	174.4	362.7	537.2
1980	**0.6**	**103.1**	**82.5**	**2.1**	**19.0**	**103.5**	**—**	**207.3**	**432.9**	**640.2**
1981	0.1	104.1	118.6	4.6	20.9	144.1	—	248.3	476.5	724.8
1982	0.2	129.5	98.9	3.9	21.2	124.1	—	253.8	498.0	751.8
1983	0.1	121.5	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**	**16.3**	**115.4**	**—**	**264.2**	**680.0**	**944.3**
1986	(s)	126.1	60.5	0.9	17.2	78.6	—	204.6	647.8	852.5
1987	0.1	124.1	53.2	0.4	15.1	68.7	—	192.9	658.3	851.2
1988	0.1	141.4	54.9	0.4	10.6	65.8	—	207.3	686.0	893.4
1989	0.2	139.3	63.6	1.8	21.0	86.4	—	225.9	719.0	944.9
1990	**0.1**	**146.6**	**72.7**	**0.7**	**19.2**	**92.6**	**[d R] 22.3**	**[d R] 261.5**	**[R] 727.3**	**[d R] 988.8**
1991	(s)	161.4	58.3	0.7	25.2	84.2	[R] 23.5	[R] 269.1	[R] 767.6	[R] 1,036.7
1992	(s)	142.6	39.4	0.9	20.2	60.4	[R] 24.7	[R] 227.7	[R] 749.7	[R] 977.4
1993	0.1	191.2	39.9	1.0	22.9	63.8	[R] 20.8	[R] 275.9	[R] 838.1	[R] 1,114.0
1994	(s)	201.6	34.8	2.6	[R] 19.9	[R] 57.2	[R] 20.4	[R] 279.4	[R] 876.9	[R] 1,156.2
1995	**(s)**	**189.2**	**35.4**	**1.3**	**18.6**	**55.3**	**22.7**	**267.2**	**895.1**	**1,162.3**

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

Table 235. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Oregon

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.53**	**1.22**	**1.22**	**0.93**	**1.12**	**2.83**	**0.79**	**1.14**	**1.16**	**3.90**	**2.29**
1971	0.45	1.26	1.28	0.95	1.18	2.86	0.81	1.16	1.19	4.14	2.38
1972	0.50	1.37	1.28	0.95	1.20	2.82	0.73	1.08	1.19	4.11	2.37
1973	0.58	1.37	1.51	1.27	1.30	3.07	0.92	1.28	1.31	4.26	2.59
1974	0.72	1.64	2.47	2.33	2.11	4.15	1.97	2.31	2.02	4.79	3.28
1975	**1.04**	**1.79**	**2.60**	**2.58**	**2.76**	**4.45**	**2.45**	**2.68**	**2.21**	**5.20**	**3.67**
1976	1.35	2.29	2.90	2.85	3.01	4.58	2.26	2.82	2.54	5.54	4.05
1977	1.52	2.95	3.12	3.16	3.61	4.93	2.35	3.02	2.98	5.85	4.51
1978	1.69	3.24	3.08	3.28	4.02	5.29	2.51	3.08	3.14	6.49	4.95
1979	2.04	3.56	4.66	4.24	4.32	7.15	3.15	4.51	3.98	6.96	5.68
1980	**2.24**	**4.88**	**6.71**	**6.54**	**5.40**	**9.75**	**4.90**	**6.39**	**5.66**	**8.86**	**7.29**
1981	2.35	5.20	7.68	7.15	6.24	10.83	6.50	7.45	6.26	10.36	8.36
1982	2.70	6.03	7.67	7.08	5.94	10.51	6.62	7.32	6.67	11.83	9.12
1983	2.55	6.23	5.97	6.62	6.10	8.81	5.97	6.42	6.31	13.11	9.76
1984	2.50	6.32	5.77	7.06	6.29	8.79	4.47	5.94	6.13	14.55	10.34
1985	**2.48**	**6.06**	**5.69**	**6.90**	**9.45**	**8.87**	**4.12**	**6.00**	**6.04**	**14.96**	**10.81**
1986	2.47	5.47	3.27	4.24	9.06	6.92	2.10	3.60	4.72	14.82	10.30
1987	2.42	5.17	3.97	4.86	8.28	7.12	2.65	4.24	4.78	15.00	10.44
1988	2.42	5.24	3.76	4.51	8.38	7.48	2.55	4.01	4.74	14.19	9.96
1989	2.37	4.64	4.56	5.69	8.55	8.50	2.39	4.77	4.67	14.17	10.05
1990	**2.54**	**4.74**	**5.39**	**6.19**	**9.03**	**9.45**	**3.03**	**5.60**	**5.04**	**[R] 14.04**	**[R] 10.09**
1991	2.65	4.61	4.79	6.09	9.29	9.14	2.36	4.96	4.70	14.29	10.19
1992	2.45	4.56	4.69	6.11	9.26	10.03	2.30	5.01	4.67	[R] 14.31	[R] 10.55
1993	2.33	4.84	4.87	6.47	9.21	9.98	2.20	4.73	4.82	[R] 14.50	[R] 10.58
1994	2.32	5.28	4.35	[R] 5.53	10.10	10.03	2.43	4.72	5.19	[R] 14.62	11.02
1995	**2.42**	**5.01**	**4.54**	**5.85**	**10.22**	**10.23**	**2.74**	**4.86**	**4.98**	**14.90**	**11.07**
	Expenditures in Million Nominal Dollars										
1970	**0.3**	**14.5**	**11.5**	**0.2**	**0.6**	**3.7**	**6.6**	**22.6**	**37.4**	**88.7**	**126.1**
1971	0.3	17.8	12.5	0.1	0.7	3.6	7.5	24.5	42.5	101.1	143.6
1972	0.2	20.8	12.9	0.1	0.6	3.4	8.6	25.5	46.5	109.7	156.2
1973	0.1	19.9	13.9	(s)	0.6	3.4	10.2	28.1	48.2	119.1	167.3
1974	0.1	22.9	19.3	0.5	0.9	4.7	19.3	44.6	67.7	133.6	201.3
1975	**0.2**	**29.6**	**18.8**	**0.5**	**0.7**	**5.1**	**14.8**	**39.8**	**69.7**	**156.1**	**225.8**
1976	0.4	33.2	23.3	0.5	0.7	5.2	10.9	40.5	74.1	164.7	238.8
1977	0.4	33.4	29.3	0.9	0.9	5.4	10.8	47.2	81.1	181.4	262.5
1978	0.4	41.1	26.8	1.9	0.9	5.4	11.4	46.5	88.0	212.7	300.7
1979	0.5	51.4	38.0	1.1	1.7	6.6	8.2	55.6	107.4	249.8	357.2
1980	**0.6**	**77.5**	**70.0**	**1.4**	**2.0**	**14.9**	**27.0**	**115.3**	**193.4**	**316.0**	**509.3**
1981	0.1	81.0	42.8	2.1	2.5	16.8	40.2	104.5	185.7	321.3	507.0
1982	0.2	102.8	44.7	0.5	2.3	16.8	61.9	126.2	229.2	367.9	597.2
1983	0.1	98.3	62.5	1.7	2.8	18.8	4.4	90.2	188.6	402.7	591.3
1984	0.2	111.5	68.3	1.3	1.8	13.7	8.3	93.4	205.0	485.3	690.3
1985	**0.1**	**118.9**	**45.9**	**1.0**	**3.1**	**10.8**	**4.9**	**65.7**	**184.7**	**527.6**	**712.4**
1986	(s)	94.2	25.6	0.2	2.5	8.5	4.3	41.1	135.4	523.2	658.6
1987	0.1	88.8	37.5	0.1	2.2	9.1	3.7	52.6	141.5	552.0	693.5
1988	0.2	98.7	33.3	0.2	1.7	9.3	5.3	49.9	148.7	548.6	697.3
1989	0.2	97.2	28.5	0.2	2.0	9.8	4.0	44.6	142.0	561.7	703.6
1990	**0.1**	**99.2**	**41.9**	**0.3**	**2.2**	**13.4**	**5.5**	**63.3**	**162.6**	**[R] 579.5**	**[R] 742.0**
1991	(s)	106.1	27.7	0.1	2.9	8.4	3.8	42.9	149.0	[R] 604.6	753.6
1992	(s)	92.6	20.9	0.2	2.6	8.7	3.5	35.9	128.5	[R] 614.0	[R] 742.5
1993	0.1	121.2	15.5	0.4	2.8	1.7	2.4	22.8	144.1	[R] 636.5	[R] 780.6
1994	(s)	126.7	13.0	0.4	3.3	1.7	1.7	20.1	146.9	[R] 669.6	[R] 816.5
1995	**(s)**	**117.3**	**20.7**	**0.5**	**3.2**	**1.7**	**1.5**	**27.6**	**144.9**	**689.2**	**834.1**

[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.

(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 236. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Oregon

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.53**	**0.46**	**0.58**	**0.80**	**0.93**	**1.12**	**5.08**	**2.83**	**0.33**	**[R] 1.37**	**[R] 0.86**	**—**	**[R] 0.68**	**1.26**	**[R] 0.79**
1971	—	0.45	0.45	0.49	0.81	0.82	0.95	1.18	5.27	2.86	0.54	[R] 1.84	[R] 0.92	—	0.73	1.35	[R] 0.85
1972	—	0.50	0.50	0.52	0.82	0.83	0.95	1.20	5.58	2.82	0.53	[R] 1.82	[R] 0.90	—	0.74	1.43	[R] 0.86
1973	—	0.58	0.58	0.66	0.85	1.10	1.27	1.30	5.33	3.07	0.72	[R] 2.08	[R] 1.07	—	[R] 0.89	1.42	[R] 0.99
1974	—	0.72	0.72	0.85	1.72	2.03	2.33	2.11	7.22	4.15	1.59	[R] 2.60	[R] 2.01	—	[R] 1.48	1.58	[R] 1.50
1975	**—**	**1.04**	**1.04**	**0.92**	**1.78**	**2.29**	**2.58**	**2.76**	**7.48**	**4.45**	**1.85**	**[R] 2.93**	**[R] 2.23**	**—**	**[R] 1.60**	**2.13**	**[R] 1.74**
1976	—	1.35	1.35	1.71	1.60	2.46	2.85	3.01	7.05	4.58	1.76	[R] 3.12	[R] 2.23	—	[R] 1.96	2.51	[R] 2.12
1977	—	1.52	1.52	2.02	1.73	2.76	3.16	3.61	6.97	4.93	1.93	[R] 3.12	[R] 2.47	—	[R] 2.25	2.78	[R] 2.40
1978	—	1.69	1.69	2.41	1.90	2.80	3.28	4.02	7.60	5.29	1.93	[R] 2.95	[R] 2.59	—	[R] 2.48	3.26	[R] 2.71
1979	—	2.04	2.04	2.78	2.43	3.74	4.24	4.32	10.21	7.15	2.29	[R] 4.91	[R] 3.45	—	[R] 3.11	3.73	[R] 3.30
1980	**—**	**2.24**	**2.24**	**4.21**	**3.60**	**5.62**	**6.54**	**5.40**	**14.36**	**9.75**	**3.39**	**[R] 10.02**	**[R] 4.99**	**—**	**[R] 4.61**	**4.65**	**[R] 4.62**
1981	—	2.35	2.35	4.43	4.36	6.31	7.15	6.24	18.00	10.83	3.86	[R] 10.72	[R] 5.77	—	[R] 4.97	5.93	[R] 5.31
1982	—	2.70	2.70	5.35	3.99	6.44	7.08	5.94	17.25	10.51	4.40	[R] 10.16	[R] 5.58	—	[R] 5.40	8.62	[R] 6.41
1983	—	2.55	2.55	5.13	4.14	6.14	6.62	6.10	16.98	8.81	4.43	[R] 10.20	[R] 5.74	—	[R] 5.34	9.72	[R] 6.81
1984	—	2.50	2.50	5.01	4.27	6.00	7.06	6.29	17.63	8.79	4.47	[R] 11.13	[R] 5.62	—	[R] 5.28	9.79	[R] 6.73
1985	**—**	**2.48**	**2.48**	**4.65**	**4.42**	**5.86**	**6.90**	**9.45**	**17.61**	**8.87**	**4.12**	**[R] 10.13**	**[R] 5.63**	**—**	**[R] 5.13**	**10.32**	**[R] 6.61**
1986	—	2.47	2.47	3.73	4.47	3.61	4.24	9.06	15.59	6.92	2.10	[R] 10.73	[R] 4.38	—	[R] 4.07	10.08	[R] 5.90
1987	—	2.42	2.42	3.30	4.27	4.13	4.86	8.28	[R] 13.58	7.12	2.65	[R] 10.73	[R] 4.68	—	[R] 4.02	9.91	[R] 5.97
1988	—	2.42	2.42	3.64	3.95	3.84	4.51	8.38	[R] 14.62	7.48	2.55	[R] 10.84	[R] 4.49	—	[R] 4.06	9.82	[R] 5.96
1989	—	2.37	2.37	3.40	3.19	4.84	5.69	8.55	14.48	8.50	2.39	[R] 10.00	[R] 4.92	—	[R] 4.14	9.69	[R] 6.10
1990	**—**	**2.54**	**2.54**	**3.39**	**3.15**	**5.26**	**6.19**	**9.03**	**14.60**	**9.45**	**3.03**	**[R] 9.71**	**[R] 4.99**	**[d R] 1.45**	**[d R] 3.60**	**[R] 9.26**	**[d R] 5.30**
1991	—	2.65	2.65	3.31	3.28	5.18	6.09	9.29	[R] 16.80	9.14	2.36	[R] 7.98	[R] 5.24	[R] 1.50	[R] 3.59	9.23	[R] 5.24
1992	—	2.45	2.45	3.24	2.81	5.19	6.11	9.26	[R] 18.32	10.03	2.30	[R] 9.14	[R] 4.78	1.51	[R] 3.45	9.42	[R] 5.13
1993	—	2.33	2.33	3.34	2.95	5.49	6.47	9.21	[R] 18.96	9.98	2.20	[R] 8.18	[R] 4.98	1.51	[R] 3.60	[R] 9.75	[R] 5.26
1994	—	2.32	2.32	3.45	3.13	4.70	5.53	10.13	[R] 19.11	10.03	2.43	[R] 8.75	[R] 4.96	1.53	[R] 3.61	10.17	[R] 5.40
1995	**—**	**2.42**	**2.42**	**3.27**	**3.21**	**4.97**	**5.85**	**9.61**	**19.40**	**10.23**	**2.74**	**8.99**	**5.38**	**1.52**	**3.60**	**10.18**	**5.39**
	Expenditures in Million Nominal Dollars																
1970	**—**	**1.2**	**1.2**	**23.9**	**8.3**	**14.8**	**0.6**	**0.8**	**8.7**	**10.7**	**7.0**	**[R] 3.3**	**[R] 54.1**	**—**	**[R] 79.3**	**36.8**	**[R] 116.1**
1971	—	1.1	1.1	25.8	14.8	16.2	0.5	0.8	7.5	9.0	13.5	[R] 1.6	[R] 63.9	—	[R] 90.8	39.9	[R] 130.7
1972	—	0.8	0.8	29.0	17.2	19.6	0.5	0.7	8.5	9.2	16.5	[R] 1.8	[R] 73.9	—	[R] 103.6	39.7	[R] 143.4
1973	—	1.0	1.0	42.2	16.2	26.4	0.6	1.1	9.8	9.6	24.0	[R] 1.8	[R] 89.6	—	[R] 132.9	46.6	[R] 179.5
1974	—	2.1	2.1	49.1	29.6	36.3	2.3	2.7	12.8	12.8	46.7	[R] 2.2	[R] 145.4	—	[R] 196.6	57.3	[R] 253.9
1975	**—**	**2.5**	**2.5**	**47.2**	**38.0**	**35.1**	**2.1**	**2.1**	**8.6**	**13.1**	**24.5**	**[R] 2.4**	**[R] 125.9**	**—**	**[R] 175.5**	**84.8**	**[R] 260.3**
1976	—	7.3	7.3	86.0	29.5	44.1	2.3	3.1	9.0	12.1	25.6	[R] 2.5	[R] 128.2	—	[R] 221.4	120.8	[R] 342.2
1977	—	7.3	7.3	90.4	32.2	58.3	4.5	3.8	9.4	12.5	26.7	[R] 2.6	[R] 149.9	—	[R] 247.6	121.4	[R] 369.1
1978	—	7.2	7.2	99.8	38.3	57.9	5.2	3.8	11.0	11.3	17.7	[R] 3.3	[R] 148.3	—	[R] 255.4	141.0	[R] 396.3
1979	—	8.8	8.8	120.2	52.5	83.5	1.2	8.6	15.4	15.1	12.0	[R] 5.4	[R] 193.7	—	[R] 322.7	165.7	[R] 488.4
1980	**—**	**8.5**	**8.5**	**138.8**	**59.2**	**128.4**	**1.4**	**9.5**	**19.3**	**21.4**	**44.2**	**[R] 10.6**	**[R] 294.0**	**—**	**[R] 441.2**	**201.6**	**[R] 642.8**
1981	—	13.9	13.9	183.2	53.2	120.0	0.7	8.6	23.2	17.9	42.5	[R] 6.8	[R] 272.9	—	[R] 470.0	311.0	[R] 781.0
1982	—	7.5	7.5	156.3	44.2	109.1	1.0	9.1	20.3	15.7	81.3	[R] 6.5	[R] 287.0	—	[R] 450.8	325.5	[R] 776.3
1983	—	9.8	9.8	146.8	59.7	114.4	0.1	6.1	20.9	8.7	16.2	[R] 7.7	[R] 233.7	—	[R] 390.3	359.8	[R] 750.1
1984	—	8.2	8.2	204.7	71.3	127.9	0.1	11.1	23.1	22.4	60.7	[R] 10.3	[R] 327.0	—	[R] 539.9	476.0	[R] 1,015.9
1985	**—**	**7.5**	**7.5**	**165.2**	**83.3**	**86.4**	**0.1**	**18.9**	**21.5**	**22.4**	**40.3**	**[R] 8.0**	**[R] 280.9**	**—**	**[R] 453.6**	**365.4**	**[R] 819.1**
1986	—	7.1	7.1	119.9	65.9	52.0	(s)	28.0	18.6	18.2	28.5	[R] 10.6	[R] 221.9	—	[R] 348.9	378.2	[R] 727.0
1987	—	8.8	8.8	124.3	60.6	73.3	(s)	24.9	[R] 18.3	18.0	26.2	[R] 11.8	[R] 233.1	—	[R] 366.2	446.7	[R] 812.9
1988	—	7.2	7.2	147.9	63.5	65.1	(s)	30.9	19.0	16.4	25.8	[R] 9.4	[R] 230.1	—	[R] 385.3	457.0	[R] 842.3
1989	—	3.5	3.5	154.0	59.4	81.7	0.1	31.7	[R] 19.4	21.3	5.5	[R] 8.1	[R] 227.2	—	[R] 384.7	493.0	[R] 877.7
1990	**—**	**3.6**	**3.6**	**169.6**	**63.3**	**87.0**	**0.2**	**24.7**	**20.1**	**21.0**	**8.6**	**[R] 7.9**	**[R] 232.8**	**[d R] 35.6**	**[d R] 441.7**	**[R] 489.5**	**[d R] 931.2**
1991	—	5.0	5.0	187.7	57.9	69.1	0.1	27.7	20.7	23.5	5.2	[R] 15.8	[R] 219.9	[R] 37.5	[R] 450.1	[R] 481.8	[R] 931.9
1992	—	5.7	5.7	196.6	61.4	68.7	0.3	26.0	[R] 23.0	13.4	7.3	[R] 19.2	[R] 219.3	[R] 35.4	[R] 456.9	[R] 486.2	[R] 943.2
1993	—	5.2	5.2	210.9	65.2	77.9	0.4	28.2	24.2	23.7	9.4	[R] 17.4	[R] 246.4	[R] 35.5	[R] 498.0	[R] 499.3	[R] 997.3
1994	—	6.6	6.6	225.9	71.0	57.3	0.3	22.2	[R] 25.5	26.3	6.4	[R] 17.8	[R] 226.8	[R] 35.1	[R] 494.4	[R] 523.1	[R] 1,017.5
1995	**—**	**6.8**	**6.8**	**235.0**	**58.8**	**75.9**	**0.8**	**29.6**	**25.4**	**27.6**	**5.7**	**17.1**	**240.9**	**38.4**	**521.0**	**550.3**	**1,071.3**

[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 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.
(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 237. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Oregon

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.53**	**—**	**2.17**	**1.34**	**0.73**	**1.12**	**5.08**	**2.83**	**0.71**	**2.41**	**2.41**	**—**	**2.41**
1971	0.45	—	2.21	1.42	0.77	1.18	5.27	2.86	0.76	2.47	2.47	—	2.47
1972	0.50	—	2.19	1.39	0.76	1.20	5.58	2.82	0.56	2.44	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	—	2.63
1974	0.72	—	3.23	2.48	1.57	2.11	7.22	4.15	1.83	3.68	3.68	—	3.68
1975	**1.04**	**—**	**3.45**	**2.69**	**2.04**	**2.76**	**7.48**	**4.45**	**2.21**	**3.98**	**3.98**	**—**	**3.98**
1976	1.35	—	3.59	2.84	2.32	3.01	7.05	4.58	2.08	4.14	4.14	—	4.14
1977	1.52	—	3.97	3.08	2.62	3.61	6.97	4.93	2.08	4.41	4.41	—	4.41
1978	—	—	4.29	3.19	2.86	4.02	7.60	5.29	2.18	4.61	4.61	—	4.61
1979	—	—	5.73	4.74	3.79	4.32	10.21	7.15	2.78	6.10	6.10	—	6.10
1980	**—**	**—**	**9.02**	**6.96**	**6.21**	**5.40**	**14.36**	**9.75**	**4.14**	**8.81**	**8.81**	**—**	**8.81**
1981	—	—	10.84	7.94	7.56	6.24	18.00	10.83	5.61	9.64	9.64	—	9.64
1982	—	—	10.92	7.82	7.37	5.94	17.25	10.51	6.01	9.25	9.25	—	9.25
1983	—	—	10.44	7.91	6.76	6.10	16.98	8.81	5.61	8.34	8.34	—	8.34
1984	—	—	10.27	8.31	6.42	6.29	17.63	8.79	5.61	8.41	8.41	—	8.41
1985	**—**	**—**	**9.99**	**8.27**	**6.16**	**9.45**	**17.61**	**8.87**	**5.02**	**8.40**	**8.40**	**—**	**8.40**
1986	—	—	8.41	6.16	4.24	9.06	15.59	6.92	2.86	6.39	6.39	—	6.39
1987	—	—	7.55	6.63	4.33	8.28	R 13.58	7.12	2.60	R 6.55	R 6.55	17.04	R 6.55
1988	—	—	7.41	6.81	4.04	8.38	R 14.62	7.48	2.26	6.69	6.69	13.54	6.69
1989	—	—	8.28	7.77	4.76	8.55	14.48	8.50	2.57	7.51	7.51	14.24	7.51
1990	**—**	**—**	**9.32**	**8.54**	**5.93**	**9.03**	**14.60**	**9.45**	**3.59**	**8.55**	**8.55**	**R 13.98**	**8.55**
1991	—	—	8.71	8.63	5.01	9.29	R 16.80	9.14	2.58	7.99	7.99	R 15.53	R 8.00
1992	—	2.09	8.54	8.63	4.67	9.26	R 18.32	10.03	1.84	R 8.37	R 8.37	R 14.58	R 8.37
1993	—	3.62	8.24	8.93	4.62	9.21	R 18.96	9.98	2.00	8.73	8.73	R 15.64	8.73
1994	—	4.69	7.96	8.75	4.16	9.28	R 19.11	10.03	R 2.02	8.65	8.65	R 15.44	8.65
1995	**—**	**4.43**	**8.36**	**8.89**	**4.28**	**9.51**	**19.40**	**10.23**	**2.13**	**8.88**	**8.88**	**16.09**	**8.89**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**3.3**	**37.4**	**8.6**	**0.1**	**15.0**	**356.7**	**4.8**	**426.0**	**426.0**	**—**	**426.0**
1971	(s)	—	1.8	47.0	9.0	0.1	13.2	380.8	2.2	454.1	454.1	—	454.1
1972	(s)	—	2.0	52.0	9.0	0.1	15.0	398.9	1.0	477.9	477.9	—	477.9
1973	(s)	—	2.2	69.1	12.2	0.1	16.1	453.7	1.6	555.0	555.0	—	555.0
1974	(s)	—	3.3	99.2	19.5	0.1	20.9	599.1	3.7	746.0	746.0	—	746.0
1975	**(s)**	**—**	**3.0**	**106.2**	**24.0**	**0.1**	**22.3**	**657.1**	**6.1**	**818.7**	**818.7**	**—**	**818.7**
1976	(s)	—	3.1	117.4	27.0	0.2	23.3	722.6	5.1	898.6	898.6	—	898.6
1977	(s)	—	4.0	146.8	34.1	0.2	22.4	811.6	5.6	1,024.7	1,024.7	—	1,024.7
1978	—	—	4.2	168.2	41.0	1.1	26.2	913.3	22.8	1,176.7	1,176.7	—	1,176.7
1979	—	—	6.0	255.6	56.3	1.5	36.8	1,174.4	65.2	1,595.9	1,595.9	—	1,595.9
1980	**—**	**—**	**11.8**	**358.9**	**86.5**	**1.3**	**46.1**	**1,526.7**	**28.8**	**2,060.1**	**2,060.1**	**—**	**2,060.1**
1981	—	—	12.0	445.4	72.3	3.2	55.5	1,655.4	127.2	2,370.9	2,370.9	—	2,370.9
1982	—	—	7.0	406.6	74.3	1.6	48.5	1,534.4	210.1	2,282.5	2,282.5	—	2,282.5
1983	—	—	6.6	420.8	67.8	1.9	50.0	1,282.2	115.2	1,944.5	1,944.5	—	1,944.5
1984	—	—	6.5	385.6	71.0	6.5	55.3	1,318.8	116.7	1,960.5	1,960.5	—	1,960.5
1985	**—**	**—**	**7.1**	**437.8**	**74.3**	**6.5**	**51.5**	**1,320.7**	**97.6**	**1,995.5**	**1,995.5**	**—**	**1,995.5**
1986	—	—	8.2	323.8	62.5	5.1	44.6	1,061.3	54.1	1,559.6	1,559.6	—	1,559.6
1987	—	—	4.8	378.3	71.4	5.3	R 43.9	1,117.2	53.9	R 1,674.9	R 1,674.9	0.4	R 1,675.2
1988	—	—	3.7	404.2	72.7	6.2	R 45.6	1,237.5	59.9	1,829.7	1,829.7	0.4	1,830.1
1989	—	—	4.2	466.7	90.9	5.8	46.3	1,391.9	76.9	2,082.7	2,082.7	0.4	2,083.1
1990	**—**	**—**	**5.7**	**548.7**	**111.3**	**6.0**	**48.0**	**1,531.8**	**84.8**	**2,336.3**	**2,336.3**	**0.4**	**2,336.6**
1991	—	—	5.5	570.9	105.8	5.3	49.4	1,509.9	92.8	2,339.7	2,339.7	0.5	2,340.1
1992	—	(s)	5.6	564.4	105.9	4.9	R 55.0	1,659.5	67.3	R 2,462.6	R 2,462.7	0.4	R 2,463.1
1993	—	(s)	4.6	523.1	112.7	4.7	57.9	1,732.6	47.8	R 2,483.4	2,483.4	0.4	R 2,483.9
1994	—	0.1	6.3	532.9	109.7	7.4	R 61.0	1,756.2	49.7	R 2,523.2	R 2,523.3	0.4	R 2,523.7
1995	**—**	**0.1**	**6.0**	**535.5**	**124.1**	**3.8**	**60.9**	**1,799.7**	**43.1**	**2,573.1**	**2,573.2**	**0.6**	**2,573.8**

[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 238. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Oregon

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**—**	**0.37**	**0.80**	**0.83**	**—**	**0.80**	**—**	**0.65**	**0.48**
1971	—	—	—	0.86	—	0.86	—	0.69	0.70
1972	—	—	—	0.76	—	0.76	—	0.72	0.72
1973	—	0.56	0.94	1.21	—	1.20	—	0.77	0.62
1974	—	0.75	2.01	2.28	—	2.28	—	0.84	1.23
1975	**—**	**1.27**	**—**	**2.31**	**—**	**2.31**	**0.20**	**0.92**	**2.04**
1976	—	1.64	—	2.22	—	2.22	0.21	0.98	0.23
1977	—	1.94	—	2.66	—	2.66	0.22	1.04	0.30
1978	—	—	—	2.54	—	2.54	0.19	1.12	0.36
1979	—	3.27	—	5.69	—	5.69	0.30	1.56	0.97
1980	**1.41**	**4.29**	**—**	**6.53**	**—**	**6.53**	**0.36**	**1.74**	**0.59**
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	1.28	0.79
1983	1.62	5.08	—	6.07	—	6.07	0.64	—	0.78
1984	2.00	5.09	—	5.75	—	5.75	0.58	—	0.78
1985	**2.00**	**—**	**—**	**5.67**	**—**	**5.67**	**0.54**	**—**	**0.67**
1986	—	2.81	—	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	0.33	0.99
1990	**1.08**	**3.03**	**—**	**3.47**	**—**	**3.47**	**0.44**	**0.85**	**0.78**
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	1.61	0.95
1993	1.12	2.25	—	3.83	—	3.83	—	1.13	1.50
1994	1.07	1.83	—	4.65	—	4.65	—	—	1.37
1995	**1.06**	**1.30**	**—**	**4.27**	**—**	**4.27**	**—**	**—**	**1.19**
	Expenditures in Million Nominal Dollars								
1970	**—**	**0.4**	**0.1**	**(s)**	**—**	**0.1**	**—**	**0.3**	**0.8**
1971	—	—	—	(s)	—	(s)	—	0.2	0.2
1972	—	—	—	(s)	—	(s)	—	0.4	0.4
1973	—	1.6	(s)	0.2	—	0.2	—	0.5	2.3
1974	—	0.2	(s)	0.7	—	0.7	—	0.4	1.3
1975	**—**	**(s)**	**—**	**0.4**	**—**	**0.4**	**(s)**	**(s)**	**0.4**
1976	—	(s)	—	0.3	—	0.3	4.8	0.5	5.6
1977	—	(s)	—	4.1	—	4.1	15.1	2.8	22.1
1978	—	—	—	2.1	—	2.1	3.3	1.5	6.9
1979	—	8.1	—	30.8	—	30.8	14.6	3.4	57.0
1980	**11.2**	**1.4**	**—**	**4.2**	**—**	**4.2**	**21.4**	**2.9**	**41.1**
1981	31.5	0.9	—	1.4	—	1.4	33.2	1.5	68.5
1982	15.3	0.2	—	0.6	—	0.6	32.6	0.5	49.1
1983	9.6	(s)	—	0.9	—	0.9	25.7	—	36.2
1984	16.8	(s)	—	0.3	—	0.3	29.7	—	46.9
1985	**13.9**	**—**	**—**	**0.1**	**—**	**0.1**	**40.6**	**—**	**54.5**
1986	—	(s)	—	0.1	—	0.1	39.5	—	39.6
1987	—	—	—	(s)	—	(s)	21.1	—	21.1
1988	—	—	—	(s)	—	(s)	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**	**(s)**	**67.9**
1991	33.5	17.2	—	0.6	—	0.6	6.8	(s)	58.1
1992	42.3	27.9	—	0.5	—	0.5	26.0	0.1	96.9
1993	39.1	36.8	—	1.2	—	1.2	—	0.1	77.3
1994	44.7	48.3	—	0.3	—	0.3	—	—	93.4
1995	**18.4**	**25.1**	**—**	**0.3**	**—**	**0.3**	**—**	**—**	**43.8**

[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 239. Energy Price and Expenditure Estimates by Source, 1970-1995, Pennsylvania

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	**0.44**	**0.35**	**0.39**	**0.87**	**1.17**	**0.72**	**1.82**	**2.92**	**0.47**	[R] **1.78**	**1.71**	**0.21**	**—**	**0.97**	**0.34**	**5.23**	**1.47**
1971	0.46	0.41	0.43	0.93	1.25	0.75	1.77	2.97	0.69	[R] 1.84	[R] 1.82	0.15	—	1.06	0.43	6.01	1.65
1972	0.56	0.43	0.47	0.99	1.27	0.78	1.84	2.94	0.70	[R] 1.88	[R] 1.84	0.16	—	1.11	0.46	6.34	1.76
1973	0.67	0.46	0.54	1.07	1.50	0.91	2.18	3.03	0.85	[R] 2.10	2.00	0.15	—	1.19	0.50	6.66	1.90
1974	1.36	0.84	1.04	1.26	2.50	1.55	3.42	4.40	2.00	[R] 3.04	[R] 3.15	0.25	—	1.87	0.93	8.81	[R] 2.84
1975	**1.52**	**1.03**	**1.21**	**1.53**	**2.65**	**2.01**	**3.39**	**4.72**	**2.02**	[R] **3.19**	**3.45**	**0.25**	**—**	**2.02**	**0.93**	**10.37**	[R] **3.25**
1976	1.62	1.02	1.25	1.72	2.80	2.18	3.95	4.90	1.94	[R] 3.21	3.54	0.24	—	2.14	0.96	10.55	3.39
1977	1.62	1.05	1.25	2.20	3.20	2.51	4.12	5.21	2.25	[R] 3.42	3.81	0.26	—	2.39	1.07	11.58	[R] 3.84
1978	1.98	1.20	1.47	2.31	3.36	2.86	4.31	5.11	2.18	[R] 3.51	3.84	0.27	—	2.47	1.15	12.27	4.07
1979	1.88	1.23	1.45	2.81	4.77	3.85	4.76	7.00	3.13	[R] 4.83	[R] 5.36	0.32	—	3.06	1.28	13.09	4.87
1980	**2.20**	**1.35**	**1.59**	**3.37**	**6.70**	**6.27**	**6.16**	**9.71**	**4.30**	[R] **7.30**	[R] **7.65**	**0.42**	**—**	[R] **4.03**	**1.55**	**15.17**	[R] **6.40**
1981	2.37	1.59	1.80	4.02	8.17	7.49	7.05	10.79	5.19	[R] 8.90	[R] 8.91	0.53	—	[R] 4.67	1.78	17.08	[R] 7.45
1982	2.53	1.67	1.80	4.85	7.97	7.02	7.77	10.04	4.87	[R] 7.99	[R] 8.56	0.67	—	[R] 4.74	1.70	19.93	[R] 8.31
1983	2.15	1.56	1.66	5.68	7.79	6.53	8.40	9.18	4.51	[R] 7.64	[R] 7.96	0.89	—	[R] 4.64	1.75	19.76	[R] 8.28
1984	2.02	1.62	1.71	5.74	7.91	6.24	8.43	8.91	4.90	[R] 8.00	[R] 7.96	0.88	—	[R] 4.51	1.72	20.03	[R] 8.06
1985	**1.88**	**1.58**	**1.64**	**5.74**	**7.69**	**5.84**	[R] **10.12**	**9.01**	**4.38**	[R] **7.73**	[R] **7.95**	**0.92**	**—**	[R] **4.43**	**1.61**	**21.24**	[R] **8.42**
1986	1.76	1.52	1.55	5.38	5.81	3.91	[R] 9.25	6.54	2.45	[R] 6.21	[R] 5.79	0.78	—	[R] 3.55	1.35	21.86	[R] 7.60
1987	1.59	1.47	1.49	4.84	5.86	4.02	[R] 8.83	7.03	2.95	[R] 5.81	[R] 6.02	0.78	—	3.56	1.36	21.48	[R] 7.42
1988	1.61	1.47	1.50	4.70	5.82	3.85	[R] 9.17	7.01	2.34	[R] 5.83	[R] 5.95	0.84	—	[R] 3.47	1.35	20.92	[R] 7.27
1989	1.67	1.47	1.50	4.96	6.28	4.44	[R] 9.59	7.79	2.83	[R] 5.94	[R] 6.55	0.88	—	[R] 3.72	1.38	21.68	[R] 7.74
1990	**1.71**	**1.54**	**1.57**	**5.34**	**7.78**	**5.59**	[R] **11.78**	**9.35**	**3.20**	[R] **6.06**	[R] **7.86**	**0.83**	[d R] **2.04**	[d R] **4.00**	**1.32**	**22.46**	[d R] **8.48**
1991	1.75	1.55	1.59	5.38	7.56	4.81	[R] 12.58	9.44	2.31	[R] 6.26	[R] 7.87	0.77	[R] 2.06	[R] 4.02	1.28	23.51	[R] 8.80
1992	1.73	1.50	1.54	5.22	7.16	4.49	[R] 10.69	9.33	2.33	[R] 6.38	[R] 7.70	0.68	2.02	[R] 3.89	1.19	23.61	[R] 8.51
1993	1.73	1.45	1.50	5.33	7.01	4.17	[R] 10.87	9.01	2.35	[R] 6.54	[R] 7.39	0.66	2.02	[R] 3.87	1.18	23.26	[R] 8.42
1994	1.73	1.44	1.50	5.73	6.99	3.90	[R] 11.91	9.21	2.53	[R] 6.47	[R] 7.45	0.62	[R] 1.97	3.93	1.14	23.13	[R] 8.58
1995	**1.72**	**1.38**	**1.45**	**5.43**	**6.87**	**3.87**	**11.66**	**9.64**	**2.64**	**6.53**	**7.78**	**0.56**	**1.90**	**3.93**	**1.06**	**23.28**	**8.68**
	Expenditures in Million Nominal Dollars																
1970	**317.5**	**339.1**	**656.6**	**653.4**	**429.1**	**36.9**	**32.7**	**1,559.6**	**157.4**	[R] **233.5**	[R] **2,449.1**	**1.1**	**—**	[R] **3,760.3**	**-296.5**	**1,330.2**	[R] **4,793.9**
1971	279.2	409.2	688.4	717.1	456.5	36.5	32.6	1,677.0	236.1	[R] 245.9	[R] 2,684.8	0.7	—	[R] 4,091.0	-397.7	1,586.9	[R] 5,280.2
1972	345.7	439.6	785.2	798.1	508.9	38.0	38.0	1,791.4	239.2	[R] 271.7	[R] 2,887.3	0.5	—	[R] 4,471.2	-461.0	1,782.8	[R] 5,793.0
1973	436.2	523.3	959.5	817.6	627.7	47.4	47.4	1,829.0	280.2	[R] 294.0	[R] 3,125.6	0.6	—	[R] 4,903.4	-532.8	2,017.4	[R] 6,387.9
1974	875.2	854.5	1,729.7	869.1	1,043.3	78.6	72.4	2,514.3	612.5	[R] 410.2	[R] 4,731.3	19.5	—	[R] 7,349.6	-973.7	2,657.3	[R] 9,033.2
1975	**913.7**	**1,078.1**	**1,991.7**	**964.8**	**1,039.9**	**97.3**	**76.5**	**2,695.2**	**441.3**	[R] **375.7**	[R] **4,725.8**	**44.3**	**—**	[R] **7,726.6**	**-1,047.7**	**3,060.5**	[R] **9,739.5**
1976	1,012.5	1,079.6	2,092.1	1,180.0	1,220.0	104.3	93.7	3,031.3	522.6	[R] 439.7	[R] 5,411.6	43.6	—	[R] 8,727.4	-1,143.4	3,270.9	[R] 10,854.9
1977	902.8	1,073.0	1,975.8	1,411.0	1,448.5	120.6	103.9	3,293.8	730.3	[R] 478.3	[R] 6,175.4	49.7	—	[R] 9,611.9	-1,299.3	3,726.6	[R] 12,039.2
1978	1,065.5	1,235.2	2,300.7	1,495.7	1,468.6	144.8	116.1	3,275.6	687.0	[R] 532.2	[R] 6,224.3	67.1	—	[R] 10,087.8	-1,513.7	4,025.9	[R] 12,600.0
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	[R] 734.2	[R] 8,273.7	66.1	—	[R] 12,863.6	-1,722.7	4,430.9	[R] 15,571.8
1980	**1,005.0**	**1,589.6**	**2,594.6**	**2,489.5**	**2,665.1**	**360.1**	**163.8**	**5,507.0**	**798.1**	[R] **998.7**	[R] **10,492.8**	**55.4**	**—**	[R] **15,632.3**	**-1,997.2**	**5,096.8**	[R] **18,732.0**
1981	941.5	1,738.9	2,680.4	3,034.3	2,836.4	382.0	191.8	5,901.0	906.4	[R] 1,212.3	[R] 11,429.9	82.8	—	[R] 17,227.3	-2,178.4	5,826.2	[R] 20,875.1
1982	482.4	1,837.2	2,319.6	3,255.5	2,443.1	342.3	198.6	5,386.2	590.1	[R] 1,029.4	[R] 9,989.6	121.7	—	[R] 15,686.4	-2,088.9	6,382.4	[R] 19,980.0
1983	483.3	1,730.1	2,213.4	3,505.9	2,393.4	337.7	214.7	4,953.7	663.7	[R] 910.9	[R] 9,474.1	142.4	—	[R] 15,335.8	-2,222.3	6,468.3	[R] 19,581.8
1984	624.9	1,870.1	2,494.9	3,715.2	2,523.1	369.6	261.3	4,784.1	669.9	[R] 952.4	[R] 9,560.5	204.8	—	[R] 15,975.5	-2,309.7	6,863.4	[R] 20,529.3
1985	**492.9**	**1,814.3**	**2,307.2**	**3,444.8**	**2,409.2**	**334.6**	[R] **272.3**	**4,825.9**	**483.8**	[R] **1,045.9**	[R] **9,371.7**	**262.2**	**—**	[R] **15,385.9**	**-2,233.1**	**7,203.2**	[R] **20,356.0**
1986	330.9	1,711.8	2,042.7	3,147.9	1,831.3	219.3	[R] 281.4	3,576.6	348.8	[R] 853.8	[R] 7,111.2	336.6	—	[R] 12,638.4	-2,058.5	7,568.9	[R] 18,148.8
1987	357.1	1,694.3	2,051.5	2,944.4	1,969.4	239.6	[R] 269.1	3,927.4	427.8	[R] 809.1	[R] 7,642.4	293.8	—	[R] 12,932.1	-2,014.1	7,789.5	[R] 18,707.5
1988	437.4	1,755.6	2,193.0	3,012.8	1,990.1	255.1	[R] 199.2	4,084.0	312.7	[R] 790.8	[R] 7,631.9	342.6	—	[R] 13,180.2	-2,092.5	7,994.3	[R] 19,082.1
1989	442.2	1,757.4	2,199.6	3,293.4	2,243.3	242.5	[R] 237.1	4,453.3	372.1	[R] 825.8	[R] 8,374.1	369.7	—	[R] 14,236.8	-2,169.5	8,360.8	[R] 20,428.1
1990	**480.0**	**1,764.7**	**2,244.7**	**3,291.5**	**2,440.5**	**380.7**	[R] **259.3**	**5,246.8**	**338.3**	[R] **842.0**	[R] **9,507.7**	**511.5**	[d R] **61.4**	[d R] **15,616.7**	**-2,215.1**	[R] **8,736.7**	[d R] **22,138.3**
1991	412.9	1,750.1	2,163.0	3,285.9	2,330.8	309.5	[R] 338.7	5,310.9	214.3	[R] 813.9	[R] 9,318.1	474.0	[R] 65.8	[R] 15,306.9	-2,122.4	[R] 9,235.6	[R] 22,420.1
1992	458.8	1,710.2	2,169.0	3,404.8	2,293.0	277.8	[R] 350.8	5,267.8	205.6	[R] 848.7	[R] 9,243.7	436.0	[R] 68.5	[R] 15,322.0	-1,992.9	[R] 9,275.2	[R] 22,604.4
1993	479.5	1,636.8	2,116.3	3,539.9	2,499.7	278.1	[R] 222.9	5,204.9	254.8	[R] 885.7	[R] 9,346.1	416.7	[R] 72.1	[R] 15,491.1	-1,991.2	9,429.7	[R] 22,929.6
1994	501.8	1,535.8	2,037.6	[R] 3,833.5	2,534.7	259.7	[R] 239.6	5,303.8	288.1	[R] 944.7	[R] 9,570.6	447.2	[R] 72.8	[R] 15,961.6	-1,971.8	[R] 9,617.1	[R] 23,607.0
1995	**500.7**	**1,504.9**	**2,005.6**	**3,765.0**	**2,470.7**	**269.9**	**229.1**	**5,685.0**	**198.1**	**982.2**	**9,835.1**	**393.2**	**84.1**	**16,083.0**	**-1,848.5**	**9,937.4**	**24,171.9**

[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 240. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Pennsylvania

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.03**	**1.20**	**1.35**	**1.57**	**2.47**	**1.41**	**—**	**1.26**	**7.15**	**1.98**
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	1.58	2.58	1.50	—	1.38	8.54	2.32
1973	1.08	1.43	1.67	1.82	3.48	1.74	—	1.53	9.03	2.60
1974	2.26	1.62	2.62	2.89	4.10	2.69	—	2.09	11.33	3.51
1975	**2.57**	**1.89**	**2.81**	**3.12**	**4.42**	**2.89**	**—**	**2.32**	**12.80**	**3.97**
1976	2.27	2.09	2.93	3.26	5.31	3.04	—	2.48	13.01	4.10
1977	2.36	2.45	3.32	3.66	5.33	3.41	—	2.86	14.01	4.67
1978	2.48	2.58	3.52	3.88	5.46	3.61	—	2.98	14.60	4.92
1979	2.54	3.13	5.03	5.27	7.45	5.11	—	3.90	15.62	5.91
1980	**2.70**	**3.73**	**6.95**	**8.05**	**9.00**	**7.10**	**—**	**4.92**	**17.42**	**7.17**
1981	3.21	4.41	8.52	10.29	9.77	8.69	—	5.79	19.54	8.34
1982	3.20	5.28	8.20	10.35	10.37	8.49	—	6.19	22.49	9.38
1983	2.78	6.26	8.09	9.19	11.37	8.33	—	6.78	22.87	10.17
1984	3.08	6.34	8.25	9.15	11.83	8.50	—	6.88	23.35	10.30
1985	**2.83**	**6.50**	**7.82**	**8.68**	**11.63**	**8.12**	**—**	**6.95**	**25.05**	**10.75**
1986	2.76	6.17	6.22	6.90	9.88	6.50	—	6.13	25.96	10.48
1987	2.72	5.82	5.88	6.52	10.30	6.21	—	5.80	25.96	10.41
1988	2.69	5.59	5.95	6.60	9.26	6.23	—	5.68	25.44	10.19
1989	2.79	5.92	6.50	7.22	11.08	6.85	—	6.10	26.09	10.57
1990	**2.96**	**6.37**	**7.84**	**8.70**	**12.94**	**8.30**	**[d] 2.83**	**[d] 6.68**	**[R] 27.03**	**[d] 11.53**
1991	2.64	6.53	7.62	8.46	13.85	8.23	2.83	6.75	28.09	11.90
1992	2.69	6.37	6.79	7.54	11.87	7.31	2.83	6.36	28.33	11.36
1993	2.79	6.60	6.60	7.32	11.86	7.03	2.83	6.47	27.99	11.41
1994	2.75	7.18	6.55	7.27	[R] 14.33	[R] 7.20	2.83	[R] 6.89	28.00	[R] 11.87
1995	**2.55**	**6.92**	**6.31**	**7.01**	**13.50**	**6.96**	**2.83**	**6.63**	**28.49**	**11.85**
	Expenditures in Million Nominal Dollars									
1970	**48.4**	**367.4**	**245.1**	**29.9**	**17.6**	**292.7**	**—**	**708.4**	**561.5**	**1,269.9**
1971	47.7	389.5	263.0	33.6	16.7	313.2	—	750.5	670.7	1,421.2
1972	38.3	414.2	285.7	38.4	19.7	343.8	—	796.4	749.3	1,545.7
1973	37.4	433.2	334.3	33.4	26.3	393.9	—	864.5	845.3	1,709.8
1974	63.5	451.3	487.0	41.4	29.8	558.1	—	1,073.0	1,057.1	2,130.1
1975	**59.9**	**527.3**	**517.2**	**35.8**	**34.7**	**587.6**	**—**	**1,174.8**	**1,208.5**	**2,383.3**
1976	51.3	621.0	594.5	40.2	43.7	678.3	—	1,350.5	1,280.8	2,631.4
1977	53.4	695.0	680.8	38.1	45.2	764.1	—	1,512.5	1,443.3	2,955.8
1978	57.7	753.5	678.5	36.5	42.4	757.4	—	1,568.6	1,532.3	3,100.9
1979	42.3	921.2	949.6	61.0	37.8	1,048.3	—	2,011.8	1,674.2	3,686.0
1980	**51.3**	**1,098.2**	**1,127.1**	**107.8**	**52.6**	**1,287.5**	**—**	**2,437.1**	**1,888.1**	**4,325.2**
1981	74.7	1,288.6	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	988.6	128.7	66.6	1,183.9	—	2,729.7	2,414.6	5,144.3
1983	51.2	1,625.5	975.2	65.6	86.8	1,127.6	—	2,804.3	2,522.9	5,327.2
1984	60.8	1,740.5	1,019.9	55.9	97.2	1,173.1	—	2,974.3	2,640.0	5,614.3
1985	**42.7**	**1,644.9**	**986.4**	**140.4**	**96.3**	**1,223.1**	**—**	**2,910.7**	**2,793.4**	**5,704.2**
1986	48.5	1,629.4	683.8	116.4	71.2	871.3	—	2,549.2	3,032.4	5,581.6
1987	53.5	1,514.6	652.8	79.5	84.6	816.9	—	2,384.9	3,166.9	5,551.9
1988	48.1	1,551.9	685.1	109.2	79.8	874.2	—	2,474.2	3,283.0	5,757.2
1989	52.3	1,662.4	835.2	103.7	103.1	1,042.0	—	2,756.7	3,395.0	6,151.6
1990	**52.2**	**1,586.5**	**776.8**	**68.0**	**118.8**	**963.6**	**[d] 35.6**	**[d] 2,638.0**	**[R] 3,519.6**	**[d R] 6,157.6**
1991	47.0	1,640.8	776.0	72.3	147.2	995.4	37.5	2,720.8	[R] 3,794.8	[R] 6,515.6
1992	52.5	1,759.1	698.2	67.7	133.7	899.6	39.5	2,750.7	[R] 3,793.3	[R] 6,544.0
1993	44.2	1,839.9	803.5	68.7	121.5	993.7	42.3	2,920.1	[R] 3,959.2	[R] 6,879.3
1994	43.5	1,996.9	755.3	61.4	[R] 150.5	[R] 967.2	41.4	[R] 3,049.1	[R] 4,035.4	[R] 7,084.5
1995	**39.1**	**1,876.8**	**723.0**	**82.0**	**151.1**	**956.1**	**46.0**	**2,918.0**	**4,160.6**	**7,078.6**

[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.

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 241. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Pennsylvania

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.32**	**0.93**	**1.09**	**0.74**	**1.40**	**2.92**	**0.47**	**1.12**	**0.90**	**6.71**	**1.90**
1971	0.43	0.97	1.16	0.79	1.40	2.97	0.71	1.22	0.97	7.54	2.12
1972	0.41	1.05	1.16	0.78	1.40	2.94	0.71	1.25	1.05	7.86	2.28
1973	0.43	1.11	1.34	0.89	1.49	3.03	0.84	1.33	1.10	8.25	2.48
1974	0.90	1.25	2.30	2.27	3.06	4.40	1.95	2.37	1.61	10.43	3.51
1975	**1.25**	**1.67**	**2.48**	**2.52**	**2.84**	**4.72**	**2.02**	**2.56**	**1.94**	**11.88**	**4.48**
1976	1.13	1.68	2.61	2.53	3.23	4.90	1.92	2.53	1.90	12.36	4.37
1977	1.13	2.26	3.01	2.90	3.51	5.21	2.27	2.93	2.40	13.44	5.20
1978	1.21	2.34	3.16	2.98	3.84	5.11	2.14	3.03	2.44	14.40	5.50
1979	1.30	2.89	4.57	4.01	4.24	7.00	3.27	4.33	3.22	15.21	6.53
1980	**1.33**	**3.49**	**6.39**	**6.01**	**5.36**	**9.71**	**4.43**	**6.08**	**3.95**	**16.63**	**7.57**
1981	1.57	4.13	8.01	7.02	6.17	10.79	5.35	7.58	4.67	18.87	8.64
1982	1.71	4.91	7.66	7.49	6.89	10.04	4.92	7.30	5.06	21.56	9.84
1983	1.58	5.90	6.70	6.95	7.14	9.18	4.53	6.47	5.64	21.67	10.39
1984	1.65	5.99	6.71	7.61	7.20	8.91	5.16	6.43	5.71	22.28	10.50
1985	**1.61**	**5.99**	**6.50**	**7.25**	**[R] 9.45**	**9.01**	**4.70**	**[R] 6.41**	**5.72**	**23.28**	**11.35**
1986	1.52	5.61	4.28	4.65	[R] 9.05	6.54	2.71	[R] 4.34	4.89	23.66	11.00
1987	1.46	5.23	4.47	5.14	[R] 8.29	7.03	3.05	[R] 4.53	4.64	22.76	10.66
1988	1.45	4.91	4.14	4.86	[R] 9.11	7.01	2.54	[R] 4.25	[R] 4.44	22.37	10.37
1989	1.44	5.16	4.78	5.65	[R] 8.69	7.79	3.02	[R] 4.87	4.75	23.26	[R] 10.75
1990	**1.47**	**5.79**	**5.85**	**6.68**	**[R] 10.95**	**9.35**	**3.46**	**[R] 6.07**	**[R] 5.51**	**24.01**	**12.03**
1991	1.43	5.80	5.48	6.20	[R] 11.75	9.44	2.51	[R] 5.77	5.38	[R] 24.66	[R] 12.40
1992	1.42	5.67	5.12	5.88	[R] 10.07	9.33	2.51	[R] 5.20	[R] 5.13	25.11	12.13
1993	1.36	5.78	4.82	5.82	[R] 9.88	9.01	2.54	[R] 4.73	5.20	24.60	12.30
1994	1.34	6.27	4.75	[R] 5.71	[R] 11.08	9.21	2.63	[R] 4.69	5.56	[R] 24.54	[R] 12.38
1995	**1.35**	**6.07**	**4.62**	**5.72**	**10.83**	**9.64**	**2.80**	**4.69**	**5.45**	**24.68**	**12.48**
	Expenditures in Million Nominal Dollars										
1970	**12.3**	**95.9**	**34.4**	**1.2**	**1.8**	**37.6**	**15.4**	**90.4**	**198.6**	**308.4**	**507.0**
1971	15.6	110.7	36.8	1.4	1.7	33.0	23.3	96.2	222.6	367.9	590.5
1972	10.9	133.1	39.9	1.6	1.9	37.2	22.6	103.3	247.2	408.5	655.7
1973	12.9	134.0	46.5	1.4	2.0	29.9	28.6	108.3	255.1	457.7	712.8
1974	20.1	131.1	74.2	2.8	3.9	30.4	59.3	170.7	321.9	571.1	893.0
1975	**23.3**	**169.1**	**79.4**	**2.5**	**3.9**	**32.5**	**46.0**	**164.3**	**356.8**	**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	1,421.6
1978	28.0	264.4	105.9	2.5	5.3	42.0	53.6	209.2	501.5	1,015.6	1,517.1
1979	19.6	329.0	150.0	4.0	3.8	35.8	65.0	258.7	607.2	1,091.8	1,699.0
1980	**23.0**	**422.8**	**218.2**	**6.6**	**5.5**	**16.0**	**42.4**	**288.6**	**734.4**	**1,234.7**	**1,969.1**
1981	31.0	542.2	240.9	7.3	7.2	37.9	53.5	346.9	920.0	1,440.8	2,360.8
1982	35.3	633.2	210.6	10.0	7.8	25.8	34.2	288.4	956.9	1,666.0	2,623.0
1983	28.4	699.9	222.6	14.4	9.6	32.2	43.5	322.3	1,050.7	1,702.8	2,753.4
1984	30.4	782.2	228.8	6.5	10.4	18.4	67.7	331.8	1,144.3	1,821.3	2,965.6
1985	**24.3**	**714.6**	**186.9**	**14.7**	**[R] 13.8**	**21.2**	**41.8**	**[R] 278.4**	**[R] 1,017.3**	**1,955.3**	**[R] 2,972.6**
1986	27.0	665.6	149.7	10.4	[R] 11.5	15.8	16.1	[R] 203.5	[R] 896.1	2,092.4	[R] 2,988.5
1987	29.8	622.2	147.1	9.6	[R] 12.0	17.9	23.1	[R] 209.6	[R] 861.7	2,101.5	[R] 2,963.2
1988	26.3	648.4	134.8	11.6	[R] 13.9	17.4	18.3	[R] 196.0	[R] 870.6	2,169.7	[R] 3,040.4
1989	27.2	708.5	203.3	9.1	[R] 14.3	18.5	17.3	[R] 262.5	[R] 998.2	2,340.9	[R] 3,339.1
1990	**22.4**	**754.0**	**190.6**	**5.7**	**[R] 17.7**	**34.2**	**17.5**	**[R] 265.7**	**[R] 1,042.2**	**[R] 2,477.7**	**[R] 3,519.8**
1991	25.2	753.3	174.0	4.6	[R] 22.0	27.5	10.0	[R] 238.1	[R] 1,016.6	[R] 2,664.5	[R] 3,681.1
1992	29.7	788.1	161.3	3.4	[R] 20.0	16.4	14.0	[R] 215.2	[R] 1,032.9	[R] 2,730.4	[R] 3,763.3
1993	20.2	789.3	168.6	5.7	[R] 17.9	4.1	17.9	[R] 214.2	[R] 1,023.7	[R] 2,794.8	[R] 3,818.6
1994	17.7	900.1	191.2	[R] 10.8	[R] 20.5	4.2	22.9	[R] 249.7	[R] 1,167.5	[R] 2,883.9	[R] 4,051.3
1995	**17.9**	**902.7**	**164.9**	**17.1**	**21.4**	**4.4**	**21.8**	**229.6**	**1,150.2**	**2,999.7**	**4,149.9**

[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 242. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Pennsylvania

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**0.44**	**0.32**	**0.41**	**0.57**	**0.78**	**0.70**	**0.74**	**1.40**	**5.08**	**2.92**	**0.50**	R **1.10**	**0.98**	**—**	**0.55**	**3.55**	**0.78**
1971	0.46	0.43	0.45	0.63	0.87	0.75	0.79	1.40	5.27	2.97	0.66	R 1.23	1.07	—	0.63	4.14	0.93
1972	0.56	0.41	0.53	0.70	0.87	0.75	0.78	1.40	5.58	2.94	0.69	R 1.23	R 1.09	—	0.70	4.41	1.03
1973	0.67	0.43	0.63	0.73	0.88	0.85	0.89	1.49	5.33	3.03	0.86	R 1.38	1.28	—	0.80	4.64	1.16
1974	1.36	0.90	1.28	0.92	1.65	2.17	2.27	3.06	7.22	4.40	2.07	R 1.82	R 2.42	—	1.46	6.70	1.98
1975	**1.52**	**1.25**	**1.47**	**1.07**	**1.97**	**2.38**	**2.52**	**2.84**	**7.48**	**4.72**	**2.07**	R **2.26**	R **2.53**	**—**	**1.62**	**7.99**	**2.24**
1976	1.62	1.13	1.54	1.32	1.97	2.41	2.53	3.23	7.05	4.90	1.97	R 2.58	R 2.53	—	1.74	8.06	2.36
1977	1.62	1.13	1.54	1.88	2.08	2.79	2.90	3.51	6.97	5.21	2.26	R 2.87	R 2.80	—	1.95	9.04	2.71
1978	1.98	1.21	1.84	1.98	2.24	2.85	2.98	3.84	7.60	5.11	2.24	R 2.92	R 2.96	—	2.16	9.68	3.01
1979	1.88	1.30	1.78	2.45	2.70	3.82	4.01	4.24	10.21	7.00	3.00	R 4.07	R 4.00	—	2.46	10.43	3.31
1980	**2.20**	**1.33**	**2.03**	**3.00**	**3.72**	**5.67**	**6.01**	**5.36**	**14.36**	**9.71**	**4.07**	R **6.45**	R **5.97**	**—**	R **3.12**	**12.87**	R **4.29**
1981	2.37	1.57	2.22	3.62	5.02	6.61	7.02	6.17	18.00	10.79	4.98	R 7.68	R 7.26	—	R 3.76	14.48	R 5.15
1982	2.53	1.71	2.27	4.38	4.27	6.87	7.49	6.89	17.25	10.04	4.75	R 6.47	R 6.74	—	R 4.28	16.97	R 6.20
1983	2.15	1.58	1.98	4.93	4.22	6.77	6.95	7.14	16.98	9.18	4.45	R 5.83	R 6.81	—	R 4.07	16.19	R 5.99
1984	2.02	1.65	1.92	4.93	4.51	6.72	7.61	7.20	17.63	8.91	5.16	R 5.97	R 7.02	—	R 3.87	16.21	R 5.69
1985	**1.88**	**1.61**	**1.81**	**4.77**	**4.95**	**6.40**	**7.25**	R **9.45**	**17.61**	**9.01**	**4.70**	R **5.59**	R **7.10**	**—**	R **3.91**	**17.07**	R **5.99**
1986	1.76	1.52	1.68	4.21	4.01	4.10	4.65	R 9.05	15.59	6.54	2.71	R 4.15	R 5.41	—	R 3.49	17.31	R 5.83
1987	1.59	1.46	1.55	3.52	3.25	4.54	5.14	R 8.29	R 13.58	7.03	3.05	R 4.59	R 5.24	—	R 3.15	16.91	R 5.36
1988	1.61	1.45	1.57	3.50	3.04	4.29	4.86	R 9.11	R 14.62	7.01	2.54	R 4.03	R 5.08	—	R 2.95	16.18	R 5.13
1989	1.67	1.44	1.61	3.76	2.81	4.99	5.65	R 8.69	14.48	7.79	3.02	R 4.70	R 5.29	—	R 3.15	16.86	R 5.35
1990	**1.71**	**1.47**	**1.65**	**4.02**	**2.83**	**5.89**	**6.68**	R **10.95**	**14.60**	**9.35**	**3.46**	R **5.05**	R **5.68**	d R **1.47**	d R **3.28**	**17.51**	d R **5.50**
1991	1.75	1.43	1.65	3.88	2.76	5.47	6.20	R 11.75	R 16.80	9.44	2.51	R 4.59	R 5.87	R 1.51	R 3.31	18.43	R 5.77
1992	1.73	1.42	1.65	3.62	2.31	5.19	5.88	R 10.07	R 18.32	9.33	2.51	R 4.69	R 5.87	R 1.46	R 3.20	18.21	R 5.53
1993	1.73	1.36	1.63	3.71	3.15	5.14	5.82	R 9.88	R 18.96	9.01	2.54	R 4.15	R 5.64	R 1.44	R 3.10	17.69	R 5.34
1994	1.73	1.34	1.63	3.87	3.27	5.04	5.71	R 8.79	R 19.11	9.21	2.63	R 4.26	R 5.59	R 1.40	R 3.12	R 17.39	R 5.35
1995	**1.72**	**1.35**	**1.63**	**3.77**	**3.44**	**5.04**	**5.72**	**8.74**	**19.40**	**9.64**	**2.80**	**4.42**	**5.85**	**1.36**	**3.10**	**17.35**	**5.37**
	Expenditures in Million Nominal Dollars																
1970	**317.5**	**64.3**	**381.8**	**186.2**	**34.0**	**38.9**	**2.5**	**12.6**	**77.6**	**18.1**	**60.9**	R **40.2**	R **284.7**	**—**	R **852.7**	**458.4**	R **1,311.2**
1971	279.2	72.0	351.2	212.0	38.5	40.7	3.3	13.4	73.8	20.7	89.3	R 46.1	R 325.9	—	R 889.1	545.8	R 1,434.8
1972	345.7	57.3	403.0	248.1	41.4	42.2	3.7	15.6	83.7	17.8	94.8	R 48.4	R 347.5	—	R 998.6	622.4	R 1,621.0
1973	436.2	62.9	499.1	248.9	40.7	55.1	2.3	18.1	117.0	18.2	125.2	R 54.4	R 431.0	—	R 1,179.0	711.6	R 1,890.6
1974	875.2	126.5	1,001.6	274.3	73.1	138.1	11.5	36.7	151.9	27.0	266.5	R 71.3	R 776.1	—	R 2,052.1	1,024.6	R 3,076.7
1975	**913.7**	**172.0**	**1,085.7**	**266.6**	**74.2**	**144.8**	**17.1**	**36.2**	**102.3**	**27.2**	**196.0**	R **86.6**	R **684.5**	**—**	R **2,036.8**	**1,092.1**	R **3,129.0**
1976	1,012.5	132.6	1,145.0	344.0	82.5	171.0	17.3	43.1	107.1	28.2	220.3	R 130.3	R 799.7	—	R 2,288.7	1,163.1	R 3,451.8
1977	902.8	121.1	1,023.8	457.1	90.6	219.5	9.1	50.7	116.5	28.0	274.4	R 157.1	R 945.9	—	R 2,426.9	1,345.2	R 3,772.0
1978	1,065.5	134.4	1,199.9	476.8	94.1	203.4	12.0	65.1	136.4	22.3	209.2	R 172.1	R 914.5	—	R 2,591.2	1,472.5	R 4,063.8
1979	1,123.0	161.2	1,284.2	722.1	113.7	338.1	16.3	104.5	191.6	40.8	215.6	R 244.1	R 1,264.6	—	R 3,271.0	1,658.1	R 4,929.1
1980	**1,005.0**	**150.8**	**1,155.8**	**957.9**	**127.1**	**358.4**	**7.1**	**102.8**	**240.0**	**29.9**	**153.1**	R **379.1**	R **1,397.6**	**—**	R **3,511.4**	**1,964.8**	R **5,476.2**
1981	941.5	148.8	1,090.3	1,190.2	180.8	378.0	19.0	114.2	288.6	69.0	177.0	R 445.9	R 1,672.5	—	R 3,953.0	2,260.0	R 6,213.0
1982	482.4	149.5	631.9	1,138.1	152.9	342.9	21.3	118.8	252.2	59.2	196.6	R 330.3	R 1,474.1	—	R 3,244.1	2,289.3	R 5,533.4
1983	483.3	151.4	634.7	1,172.0	111.7	240.2	8.3	111.6	260.0	35.3	89.5	R 308.7	R 1,165.4	—	R 2,972.1	2,226.2	R 5,198.3
1984	624.9	190.5	815.4	1,180.8	121.4	240.8	5.4	144.2	287.9	26.1	132.8	R 321.9	R 1,280.4	—	R 3,276.6	2,381.4	R 5,657.9
1985	**492.9**	**154.6**	**647.4**	**1,077.2**	**161.3**	**210.5**	**14.2**	R **153.7**	**267.9**	**60.4**	**70.5**	R **303.4**	R **1,241.8**	**—**	R **2,966.5**	**2,430.3**	R **5,396.9**
1986	330.9	152.5	483.4	850.2	158.5	154.5	11.7	R 192.4	231.9	43.2	70.8	R 197.9	R 1,061.0	—	R 2,394.7	2,419.9	R 4,814.6
1987	357.1	152.2	509.3	800.7	141.9	202.9	12.9	R 167.9	R 228.4	48.4	90.6	R 215.7	R 1,108.7	—	R 2,418.7	2,488.3	R 4,907.1
1988	437.4	146.4	583.8	803.4	110.4	170.3	9.7	R 99.6	237.0	51.1	59.1	R 185.5	R 922.6	—	R 2,309.8	2,507.3	R 4,817.1
1989	442.2	148.0	590.3	908.2	125.1	183.1	8.1	R 114.3	240.9	54.9	88.4	R 210.4	R 1,025.3	—	R 2,523.8	2,589.8	R 5,113.6
1990	**480.0**	**149.3**	**629.4**	**943.7**	**140.3**	**215.0**	**4.8**	R **116.5**	**249.9**	**57.6**	**107.9**	R **242.1**	R **1,134.1**	d R **25.8**	d R **2,733.0**	R **2,702.2**	d R **5,435.2**
1991	412.9	143.6	556.5	885.5	113.6	168.9	5.0	R 161.5	257.2	62.2	51.1	R 228.6	R 1,048.2	R 28.3	R 2,518.6	R 2,738.0	R 5,256.6
1992	458.8	146.9	605.7	848.2	92.4	186.8	4.7	R 190.2	R 286.0	65.8	52.4	R 246.6	R 1,124.8	R 29.0	R 2,607.6	R 2,716.4	R 5,324.1
1993	479.5	145.1	624.7	888.6	127.2	181.3	7.5	R 76.6	R 301.4	45.4	52.5	R 222.2	R 1,014.1	R 29.8	R 2,557.1	R 2,643.4	R 5,200.5
1994	501.8	134.6	636.4	R 906.3	165.2	149.9	8.2	R 56.7	R 317.6	44.0	54.1	R 221.2	R 1,016.8	R 31.3	R 2,591.0	R 2,664.3	R 5,255.2
1995	**500.7**	**135.5**	**636.2**	**935.1**	**178.4**	**121.3**	**5.5**	**50.7**	**316.8**	**47.3**	**36.9**	**222.0**	**978.8**	**38.1**	**2,588.1**	**2,744.0**	**5,332.1**

[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=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, 1970-1995, Pennsylvania

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.32**	**—**	**2.17**	**1.35**	**0.72**	**1.40**	**5.08**	**2.92**	**0.42**	**2.48**	**2.48**	**3.66**	**2.48**
1971	0.43	—	2.21	1.37	0.75	1.40	5.27	2.97	0.64	2.56	2.56	4.46	2.56
1972	0.41	—	2.19	1.42	0.75	1.40	5.58	2.94	0.64	2.56	2.56	4.87	2.56
1973	0.43	—	2.36	1.72	0.89	1.49	5.33	3.03	0.76	2.63	2.63	5.22	2.63
1974	0.90	—	3.23	2.63	1.54	3.06	7.22	4.40	1.77	3.86	3.86	7.50	3.86
1975	**1.25**	**—**	**3.45**	**2.64**	**2.01**	**2.84**	**7.48**	**4.72**	**1.80**	**4.15**	**4.15**	**8.41**	**4.16**
1976	1.13	—	3.59	2.95	2.18	3.23	7.05	4.90	1.77	4.35	4.34	8.58	4.35
1977	1.13	—	3.97	3.41	2.51	3.51	6.97	5.21	2.03	4.67	4.67	9.34	4.68
1978	—	—	4.29	3.56	2.86	3.84	7.60	5.11	1.90	4.66	4.66	9.29	4.66
1979	—	—	5.73	5.19	3.85	4.24	10.21	7.00	2.88	6.39	6.39	10.34	6.39
1980	**—**	**—**	**9.02**	**7.05**	**6.27**	**5.36**	**14.36**	**9.71**	**3.76**	**8.85**	**8.85**	**15.14**	**8.86**
1981	—	—	10.84	8.66	7.49	6.17	18.00	10.79	4.71	10.05	10.05	18.45	10.05
1982	—	—	10.92	8.42	7.02	6.89	17.25	10.04	4.45	9.58	9.58	19.80	9.59
1983	—	—	10.44	8.35	6.53	7.14	16.98	9.18	4.25	8.87	8.87	18.79	8.89
1984	—	—	10.27	8.45	6.24	7.20	17.63	8.91	4.61	8.66	8.66	21.12	8.67
1985	**—**	**—**	**9.99**	**8.35**	**5.84**	**[R] 9.45**	**17.61**	**9.01**	**4.14**	**8.65**	**8.65**	**21.08**	**8.67**
1986	—	—	8.41	6.52	3.91	[R] 9.05	15.59	6.54	2.23	6.27	6.27	20.55	6.29
1987	—	—	7.55	6.73	4.02	[R] 8.29	[R] 13.58	7.03	2.78	[R] 6.62	[R] 6.62	29.63	[R] 6.65
1988	—	—	7.41	6.66	3.85	[R] 9.11	[R] 14.62	7.01	2.08	6.57	6.57	29.15	6.60
1989	—	—	8.28	7.05	4.44	[R] 8.69	14.48	7.79	2.47	7.32	7.32	29.79	[R] 7.36
1990	**—**	**4.71**	**9.32**	**8.79**	**5.59**	**[R] 10.95**	**14.60**	**9.35**	**2.82**	**8.70**	**8.70**	**[R] 31.65**	**8.73**
1991	—	5.08	8.71	8.56	4.81	[R] 11.75	[R] 16.80	9.44	2.10	8.66	8.66	[R] 32.83	8.69
1992	—	5.76	8.54	8.43	4.49	[R] 10.07	[R] 18.32	9.33	2.18	[R] 8.50	[R] 8.50	[R] 33.51	[R] 8.53
1993	—	7.98	8.24	8.32	4.17	[R] 9.88	[R] 18.96	9.01	2.15	8.28	8.28	[R] 33.89	8.31
1994	—	6.23	7.96	8.31	3.90	[R] 9.03	[R] 19.11	9.21	2.44	8.41	8.41	[R] 33.51	8.44
1995	**—**	**6.99**	**8.36**	**8.06**	**3.87**	**8.66**	**19.40**	**9.64**	**2.60**	**8.69**	**8.69**	**33.08**	**8.72**
	Expenditures in Million Nominal Dollars												
1970	**0.4**	**—**	**7.3**	**99.5**	**36.9**	**0.7**	**40.9**	**1,503.8**	**14.6**	**1,703.6**	**1,704.0**	**1.9**	**1,705.9**
1971	0.4	—	7.0	96.8	36.5	0.8	42.2	1,623.3	24.2	1,830.8	1,831.2	2.4	1,833.7
1972	0.3	—	6.6	119.4	35.9	0.8	47.8	1,736.4	20.6	1,967.7	1,968.0	2.6	1,970.6
1973	0.2	—	6.8	168.8	45.8	1.0	37.9	1,781.0	30.3	2,071.6	2,071.9	2.8	2,074.6
1974	0.3	—	8.8	267.4	76.9	2.0	49.3	2,456.9	67.2	2,928.6	2,928.9	4.6	2,933.5
1975	**0.1**	**—**	**7.4**	**254.4**	**96.2**	**1.7**	**49.7**	**2,635.5**	**65.5**	**3,110.4**	**3,110.5**	**5.6**	**3,116.1**
1976	0.1	—	7.7	322.0	104.3	2.2	52.0	2,978.4	69.4	3,536.0	3,536.1	5.9	3,541.9
1977	(s)	—	8.7	382.2	120.6	2.8	55.5	3,232.8	81.0	3,883.5	3,883.5	6.1	3,889.7
1978	—	—	8.3	420.5	144.5	3.3	64.9	3,211.4	59.8	3,912.8	3,912.8	5.4	3,918.2
1979	—	—	9.9	650.3	215.6	2.7	91.2	4,195.2	86.2	5,251.0	5,251.0	6.8	5,257.7
1980	**—**	**—**	**15.3**	**885.1**	**360.1**	**2.9**	**114.3**	**5,461.1**	**113.4**	**6,952.3**	**6,952.3**	**9.2**	**6,961.5**
1981	—	—	15.2	943.7	381.9	5.3	137.4	5,794.1	153.3	7,430.8	7,430.8	11.1	7,442.0
1982	—	—	10.8	841.7	342.2	5.4	120.1	5,301.2	45.4	6,666.8	6,666.8	12.5	6,679.3
1983	—	—	11.1	877.2	337.7	6.6	123.8	4,886.2	43.8	6,286.4	6,286.4	16.4	6,302.9
1984	—	—	9.6	958.9	369.6	9.4	137.0	4,739.6	46.4	6,270.6	6,270.6	20.8	6,291.4
1985	**—**	**—**	**10.5**	**977.0**	**334.6**	**[R] 8.5**	**127.5**	**4,744.3**	**55.7**	**[R] 6,258.2**	**[R] 6,258.2**	**24.1**	**[R] 6,282.3**
1986	—	—	10.7	811.7	219.3	[R] 6.3	110.4	3,517.6	63.8	[R] 4,739.9	[R] 4,739.9	24.2	[R] 4,764.1
1987	—	—	5.6	929.9	239.6	[R] 4.6	[R] 108.7	3,861.1	103.0	[R] 5,252.7	[R] 5,252.7	32.8	[R] 5,285.4
1988	—	—	7.1	965.3	255.1	[R] 5.9	112.8	4,015.4	71.6	[R] 5,433.2	[R] 5,433.2	34.3	[R] 5,467.4
1989	—	—	7.4	974.6	242.5	[R] 5.5	114.7	4,379.9	64.1	[R] 5,788.7	[R] 5,788.7	35.1	[R] 5,823.8
1990	**—**	**(s)**	**6.8**	**1,220.2**	**380.7**	**[R] 6.3**	**119.0**	**5,155.0**	**100.5**	**[R] 6,988.5**	**[R] 6,988.5**	**37.2**	**[R] 7,025.7**
1991	—	(s)	5.1	1,186.8	309.5	[R] 8.0	[R] 122.5	5,221.2	75.4	[R] 6,928.5	[R] 6,928.5	[R] 38.3	[R] 6,966.8
1992	—	(s)	7.0	1,228.7	277.8	[R] 6.9	[R] 136.1	5,185.6	95.8	[R] 6,937.9	[R] 6,937.9	35.0	[R] 6,973.0
1993	—	(s)	6.2	1,326.4	278.1	[R] 6.9	[R] 143.5	5,155.4	82.4	[R] 6,998.9	[R] 6,999.0	[R] 32.3	[R] 7,031.2
1994	—	0.1	5.5	1,406.6	259.7	[R] 11.8	[R] 151.2	5,255.6	91.9	[R] 7,182.3	[R] 7,182.3	[R] 33.5	[R] 7,215.9
1995	**—**	**0.1**	**5.3**	**1,433.7**	**269.9**	**5.9**	**150.8**	**5,633.3**	**79.1**	**7,578.1**	**7,578.1**	**33.1**	**7,611.3**

[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 244. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Pennsylvania

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	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	0.73	0.83	—	0.75	0.16	—	0.46
1973	0.44	0.57	0.86	1.18	—	0.92	0.15	—	0.50
1974	0.78	1.54	2.00	2.31	—	2.08	0.25	—	0.93
1975	**0.96**	**1.47**	**2.07**	**2.27**	**—**	**2.12**	**0.25**	**—**	**0.93**
1976	0.98	1.64	1.99	2.38	—	2.05	0.24	—	0.96
1977	1.01	2.07	2.30	2.81	—	2.37	0.26	—	1.07
1978	1.16	2.53	2.21	2.82	0.68	2.21	0.27	—	1.15
1979	1.20	3.00	3.25	3.88	0.61	3.23	0.32	—	1.28
1980	**1.33**	**3.60**	**4.52**	**5.85**	**0.72**	**4.60**	**0.42**	**—**	**1.55**
1981	1.56	4.02	5.42	7.27	0.93	5.51	0.53	—	1.78
1982	1.64	4.10	5.02	7.06	1.14	5.11	0.67	—	1.70
1983	1.53	5.10	4.54	6.15	1.27	4.56	0.89	—	1.75
1984	1.59	4.53	4.82	6.19	1.25	4.79	0.88	—	1.72
1985	**1.56**	**5.08**	**4.32**	**5.85**	**1.27**	**4.30**	**0.92**	**—**	**1.61**
1986	1.49	3.61	2.42	3.79	1.09	2.47	0.78	—	1.35
1987	1.44	3.35	2.99	4.01	1.05	2.95	0.78	—	1.36
1988	1.45	3.33	2.37	3.57	1.02	2.39	0.84	—	1.35
1989	1.45	3.48	2.87	4.07	0.94	2.87	0.88	—	1.38
1990	**1.52**	**2.95**	**3.31**	**5.48**	**0.90**	**3.32**	**0.83**	**—**	**1.32**
1991	1.55	2.95	2.40	4.76	0.84	2.48	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	0.58	2.36	0.66	—	1.18
1994	1.43	2.29	2.53	3.89	0.55	2.50	0.62	—	1.14
1995	**1.36**	**1.98**	**2.55**	**3.80**	**0.55**	**2.38**	**0.56**	**—**	**1.06**
	Expenditures in Million Nominal Dollars								
1970	**213.6**	**4.0**	**66.6**	**11.3**	**—**	**77.8**	**1.1**	**—**	**296.5**
1971	273.5	4.8	99.4	19.3	—	118.6	0.7	—	397.7
1972	332.7	2.7	101.3	23.8	—	125.0	0.5	—	461.0
1973	409.9	1.5	96.1	24.7	—	120.8	0.6	—	532.8
1974	644.1	12.4	219.4	78.3	—	297.8	19.5	—	973.7
1975	**822.7**	**1.8**	**133.8**	**45.2**	**—**	**178.9**	**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	430.4	67.1	—	1,513.7
1979	1,199.9	5.6	404.6	44.2	2.3	451.1	66.1	—	1,722.7
1980	**1,364.4**	**10.5**	**489.2**	**76.2**	**1.4**	**566.8**	**55.4**	**—**	**1,997.2**
1981	1,484.4	13.3	522.6	73.4	1.9	597.9	82.8	—	2,178.4
1982	1,584.4	6.5	313.9	59.3	3.1	376.3	121.7	—	2,088.9
1983	1,499.2	8.4	486.9	78.2	7.3	572.3	142.4	—	2,222.3
1984	1,588.3	11.9	423.1	74.8	6.8	504.7	204.8	—	2,309.7
1985	**1,592.7**	**8.0**	**315.7**	**48.5**	**6.0**	**370.2**	**262.2**	**—**	**2,233.1**
1986	1,483.7	2.7	198.0	31.7	5.8	235.5	336.6	—	2,058.5
1987	1,458.8	6.9	211.0	36.6	6.8	254.5	293.8	—	2,014.1
1988	1,534.8	9.1	163.7	34.7	7.5	206.0	342.6	—	2,092.5
1989	1,529.8	14.4	202.2	47.0	6.4	255.6	369.7	—	2,169.5
1990	**1,540.7**	**7.2**	**112.5**	**37.8**	**5.4**	**155.8**	**511.5**	**—**	**2,215.1**
1991	1,534.3	6.2	77.8	25.1	5.0	108.0	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	19.9	3.2	125.2	416.7	—	1,991.2
1994	1,340.0	30.0	119.1	31.7	3.6	154.5	447.2	—	1,971.8
1995	**1,312.4**	**50.4**	**60.4**	**27.8**	**4.3**	**92.5**	**393.2**	**—**	**1,848.5**

[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, 1970-1995, Rhode Island

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	**—**	**0.94**	**0.94**	**1.38**	**1.35**	**0.75**	**1.77**	**2.90**	**0.43**	**1.36**	**1.41**	**—**	**—**	**1.40**	**0.43**	**6.85**	**1.91**
1971	—	1.08	1.08	1.46	1.44	0.79	1.91	2.95	0.63	1.43	1.52	—	—	1.51	0.64	7.13	2.01
1972	—	1.30	1.30	1.79	1.44	0.78	1.70	2.89	0.63	1.64	1.55	—	—	1.57	0.66	7.95	2.16
1973	—	1.57	1.57	2.01	1.66	0.93	2.03	3.06	0.71	1.51	1.73	—	—	1.76	0.71	8.39	2.44
1974	—	1.43	1.43	2.16	2.61	1.61	2.68	4.21	1.90	2.32	2.89	—	—	2.78	1.77	12.79	3.78
1975	**—**	**2.64**	**2.64**	**2.74**	**2.76**	**2.09**	**3.50**	**4.50**	**1.92**	**2.53**	**3.17**	**—**	**—**	**3.11**	**1.84**	**13.78**	**4.16**
1976	—	2.12	2.12	3.02	2.93	2.29	3.79	4.69	1.94	2.72	3.29	—	—	3.25	1.80	13.59	4.30
1977	—	2.55	2.55	3.64	3.31	2.64	3.91	4.97	2.18	2.84	3.59	—	—	3.60	2.07	15.02	4.70
1978	—	2.50	2.50	3.67	3.53	2.97	3.99	5.10	2.19	3.20	3.83	—	—	3.80	2.05	15.38	5.05
1979	—	2.18	2.18	3.22	5.09	3.98	5.04	6.98	3.13	4.29	5.51	—	—	5.07	3.03	17.41	6.55
1980	**—**	**2.37**	**2.37**	**5.09**	**7.06**	**6.51**	**6.57**	**9.72**	**4.03**	**6.05**	**7.59**	**—**	**—**	**7.06**	**3.91**	**20.67**	**9.06**
1981	—	3.43	3.43	5.77	8.71	7.80	7.88	10.79	4.83	7.15	8.96	—	—	8.18	4.43	25.68	10.80
1982	—	4.08	4.08	7.00	8.45	7.51	7.60	10.12	4.56	5.77	8.49	—	—	8.12	4.56	24.73	10.41
1983	—	3.69	3.69	7.09	8.30	6.91	8.62	9.46	4.34	5.64	8.15	—	—	7.89	4.13	25.65	10.45
1984	—	3.50	3.50	6.39	8.28	6.46	8.42	8.85	5.08	5.90	7.89	—	—	7.51	4.33	25.75	10.04
1985	**—**	**3.03**	**3.03**	**6.66**	**8.02**	**6.10**	**[R] 12.02**	**9.13**	**4.66**	**5.81**	**7.63**	**—**	**—**	**[R] 7.42**	**3.82**	**24.73**	**9.66**
1986	—	2.30	2.30	6.77	6.19	4.25	[R] 11.00	7.36	2.67	5.89	[R] 5.97	—	—	[R] 6.10	2.39	23.40	[R] 8.47
1987	—	3.09	3.09	5.49	6.16	4.18	[R] 11.55	7.96	3.10	[R] 4.55	[R] 6.39	—	—	[R] 6.17	2.50	23.93	[R] 8.61
1988	—	2.54	2.54	5.94	6.30	4.04	[R] 11.35	8.40	2.47	4.40	[R] 6.35	—	—	[R] 6.16	2.28	23.28	8.53
1989	—	2.70	2.70	6.21	6.99	4.75	[R] 9.57	9.11	2.89	4.29	7.14	—	—	6.90	2.65	24.24	9.42
1990	**—**	**3.56**	**3.56**	**5.83**	**8.50**	**6.03**	**[R] 12.80**	**10.03**	**3.40**	**4.48**	**[R] 8.21**	**—**	**[d R] 2.63**	**[d] 7.49**	**2.60**	**[R] 26.81**	**[d] 10.50**
1991	—	3.51	3.51	5.94	7.81	5.23	[R] 14.24	10.09	2.86	6.14	8.50	—	[R] 2.59	7.45	2.23	[R] 29.80	[R] 10.42
1992	—	3.43	3.43	5.52	7.20	4.79	[R] 12.50	9.83	2.57	[R] 4.16	7.73	—	[R] 2.60	6.70	2.16	[R] 30.18	[R] 9.26
1993	—	3.31	3.31	5.97	7.11	4.49	[R] 12.50	9.57	2.84	5.50	[R] 7.83	—	[R] 2.60	[R] 6.94	2.92	[R] 30.48	[R] 9.59
1994	—	3.34	3.34	5.93	7.00	4.20	[R] 13.50	9.86	2.80	[R] 5.25	[R] 7.84	—	[R] 2.57	[R] 6.97	2.49	[R] 30.02	[R] 9.60
1995	**—**	**3.31**	**3.31**	**5.18**	**7.00**	**4.19**	**13.17**	**10.42**	**2.97**	**5.73**	**8.30**	**—**	**2.51**	**6.91**	**1.95**	**30.43**	**9.86**
	Expenditures in Million Nominal Dollars																
1970	**—**	**0.2**	**0.2**	**35.2**	**67.9**	**0.6**	**2.5**	**122.0**	**25.7**	**15.5**	**234.1**	**—**	**—**	**269.6**	**-9.3**	**90.7**	**350.9**
1971	—	0.2	0.2	38.1	75.9	0.5	2.6	127.4	39.3	17.2	262.9	—	—	301.2	-12.1	101.8	390.9
1972	—	0.2	0.2	40.9	78.2	0.8	2.7	130.4	38.3	16.4	266.9	—	—	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	285.7	—	—	327.6	-11.4	137.3	453.5
1974	—	1.4	1.4	51.8	125.4	1.5	4.1	193.0	75.6	25.6	425.2	—	—	478.4	-28.0	197.9	648.2
1975	**—**	**0.4**	**0.4**	**64.3**	**128.5**	**3.2**	**6.5**	**211.9**	**52.9**	**31.4**	**434.3**	**—**	**—**	**498.9**	**-18.1**	**209.3**	**690.1**
1976	—	0.3	0.3	63.2	147.1	3.1	7.7	216.9	54.5	36.3	465.7	—	—	529.2	-11.9	223.8	741.2
1977	—	0.3	0.3	94.4	161.8	3.1	8.6	240.6	64.8	39.9	518.8	—	—	613.4	-15.0	247.5	846.0
1978	—	0.3	0.3	85.6	162.3	4.3	7.6	243.6	50.5	43.4	511.7	—	—	597.6	-15.1	259.9	842.4
1979	—	0.3	0.3	88.4	214.4	7.0	5.9	325.4	42.8	51.7	647.2	—	—	735.9	-23.1	301.3	1,014.1
1980	**—**	**0.4**	**0.4**	**142.7**	**207.0**	**12.8**	**7.1**	**429.7**	**63.9**	**74.0**	**794.4**	**—**	**—**	**937.5**	**-47.5**	**361.9**	**1,252.0**
1981	—	0.7	0.7	171.6	202.0	13.3	8.0	482.8	67.0	62.0	835.0	—	—	1,007.3	-46.5	441.4	1,402.2
1982	—	0.8	0.8	200.8	195.5	11.9	9.0	447.1	47.3	58.7	769.4	—	—	971.0	-26.7	413.5	1,357.8
1983	—	0.6	0.6	212.0	227.6	12.8	10.3	412.5	40.0	55.5	758.7	—	—	971.3	-31.7	451.3	1,390.9
1984	—	0.8	0.8	207.8	236.5	20.8	9.5	398.1	54.0	62.1	781.1	—	—	989.6	-34.3	472.1	1,427.5
1985	**—**	**0.6**	**0.6**	**204.6**	**207.9**	**17.1**	**[R] 21.7**	**415.5**	**65.5**	**127.6**	**[R] 855.3**	**—**	**—**	**[R] 1,060.5**	**-27.4**	**458.2**	**[R] 1,491.3**
1986	—	1.6	1.6	182.9	191.2	9.3	[R] 23.4	345.4	63.2	70.8	[R] 703.4	—	—	[R] 887.9	-22.3	451.6	[R] 1,317.2
1987	—	0.4	0.4	202.3	217.3	12.5	[R] 28.3	381.1	45.2	[R] 62.9	[R] 747.2	—	—	[R] 949.9	-26.8	485.1	[R] 1,408.2
1988	—	11.1	11.1	187.0	217.9	14.5	[R] 23.4	409.6	47.2	59.6	[R] 772.2	—	—	[R] 970.3	-22.4	494.0	[R] 1,441.9
1989	—	1.8	1.8	215.8	240.2	19.4	[R] 17.7	424.3	31.0	53.0	[R] 785.5	—	—	[R] 1,003.1	-17.7	526.0	[R] 1,511.4
1990	**—**	**0.5**	**0.5**	**213.6**	**229.7**	**26.4**	**[R] 23.3**	**459.0**	**30.8**	**55.9**	**[R] 825.1**	**—**	**[d R] 5.9**	**[d R] 1,045.1**	**-20.6**	**[R] 587.3**	**[d R] 1,611.9**
1991	—	0.4	0.4	330.8	230.4	19.4	[R] 24.0	459.8	19.8	26.5	[R] 779.7	—	6.3	[R] 1,117.2	-5.7	[R] 651.1	[R] 1,762.6
1992	—	0.4	0.4	435.3	222.6	15.1	[R] 20.7	452.0	19.4	[R] 46.7	[R] 776.4	—	[R] 6.5	[R] 1,218.7	-3.4	[R] 658.3	[R] 1,873.6
1993	—	0.2	0.2	462.7	226.6	13.4	[R] 23.1	446.4	23.6	36.3	[R] 769.4	—	[R] 6.7	[R] 1,239.0	-2.5	[R] 681.0	[R] 1,917.5
1994	—	0.3	0.3	432.3	241.8	12.6	[R] 24.6	447.4	20.8	50.2	[R] 797.3	—	[R] 6.6	[R] 1,236.5	-2.7	[R] 673.2	[R] 1,907.1
1995	**—**	**0.2**	**0.2**	**369.5**	**233.7**	**11.8**	**22.0**	**488.6**	**17.7**	**45.3**	**819.1**	**—**	**7.4**	**1,196.3**	**-11.0**	**688.9**	**1,874.1**

[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 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 246. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Rhode Island

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**0.98**	**1.79**	**1.49**	**1.70**	**2.55**	**1.52**	**—**	**1.59**	**8.44**	**2.19**
1971	1.51	1.89	1.57	1.66	2.82	1.59	—	1.67	8.59	2.30
1972	1.53	2.01	1.58	1.69	2.31	1.59	—	1.70	9.62	2.44
1973	1.83	2.34	1.78	1.94	3.73	1.81	—	1.93	10.17	2.83
1974	2.19	2.52	2.70	3.01	3.73	2.73	—	2.67	14.62	3.98
1975	**2.62**	**3.04**	**2.85**	**3.16**	**5.49**	**2.90**	**—**	**2.94**	**15.43**	**4.33**
1976	2.64	3.32	3.04	3.35	5.66	3.09	—	3.15	15.21	4.53
1977	3.12	4.17	3.40	3.75	5.55	3.44	—	3.65	16.91	5.12
1978	3.68	4.13	3.66	4.01	5.33	3.69	—	3.82	17.11	5.37
1979	3.64	3.64	5.25	5.33	7.64	5.28	—	4.76	19.49	6.61
1980	**4.47**	**5.58**	**7.29**	**8.15**	**8.57**	**7.33**	**—**	**6.60**	**22.64**	**9.08**
1981	5.40	6.46	8.93	10.54	10.04	8.99	—	7.76	27.89	11.16
1982	5.46	7.68	8.66	10.79	9.61	8.78	—	8.22	26.90	11.36
1983	5.02	8.37	8.45	9.36	10.92	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**	**7.62**	**8.15**	**8.93**	**11.44**	**8.33**	**—**	**8.03**	**26.77**	**10.90**
1986	4.19	7.25	6.33	6.93	9.82	6.53	—	6.86	25.42	9.90
1987	3.85	6.63	6.31	6.91	11.25	6.59	—	6.60	25.93	9.81
1988	3.99	6.43	6.39	7.00	11.14	6.61	—	6.52	25.28	9.58
1989	3.96	6.94	7.18	7.86	8.50	7.25	—	7.10	26.34	10.43
1990	**4.21**	**7.03**	**8.38**	**9.18**	**13.81**	**8.73**	**[d] 2.83**	**[d] 7.57**	**[R] 28.84**	**[d] 11.15**
1991	4.07	7.42	7.71	8.44	15.22	8.17	2.83	7.52	[R] 32.22	[R] 11.64
1992	3.94	7.54	7.04	7.71	13.80	7.37	2.83	7.23	[R] 32.75	10.99
1993	3.96	7.94	6.89	7.55	[R] 13.58	[R] 7.27	2.83	[R] 7.37	[R] 33.37	[R] 11.24
1994	4.07	8.86	6.83	7.48	[R] 15.99	[R] 7.31	2.83	[R] 7.75	[R] 32.99	[R] 11.65
1995	**4.01**	**7.82**	**6.74**	**7.39**	**16.05**	**7.21**	**2.83**	**7.23**	**33.62**	**11.39**
	Expenditures in Million Nominal Dollars									
1970	**0.1**	**21.9**	**50.7**	**3.2**	**1.5**	**55.5**	**—**	**77.5**	**40.0**	**117.5**
1971	0.2	23.5	56.1	3.1	1.6	60.7	—	84.4	44.2	128.5
1972	0.1	27.3	58.6	2.9	1.4	62.9	—	90.3	52.7	143.0
1973	0.1	27.1	62.5	2.0	1.9	66.4	—	93.6	59.7	153.3
1974	0.1	33.0	86.0	2.1	1.8	90.0	—	123.2	83.2	206.4
1975	**0.1**	**40.2**	**89.6**	**1.6**	**3.0**	**94.1**	**—**	**134.5**	**88.7**	**223.2**
1976	0.1	41.4	103.7	2.2	3.4	109.3	—	150.9	94.5	245.4
1977	0.2	57.1	114.2	1.6	3.4	119.2	—	176.5	102.5	279.0
1978	0.2	56.9	115.8	1.5	2.9	120.1	—	177.2	105.2	282.4
1979	0.1	49.2	151.5	1.4	3.1	156.0	—	205.4	120.3	325.7
1980	**0.2**	**79.5**	**140.0**	**2.5**	**3.6**	**146.1**	**—**	**225.8**	**142.1**	**367.9**
1981	0.5	95.3	133.5	2.8	4.4	140.7	—	236.4	172.9	409.4
1982	0.6	118.0	124.4	7.5	4.2	136.1	—	254.7	168.1	422.8
1983	0.5	119.1	142.3	3.0	5.6	151.0	—	270.5	182.1	452.6
1984	0.5	112.9	147.1	1.9	6.1	155.2	—	268.6	184.0	452.5
1985	**0.3**	**118.0**	**162.4**	**6.6**	**11.5**	**180.5**	**—**	**298.8**	**180.0**	**478.8**
1986	0.3	120.2	110.5	6.4	9.2	126.0	—	246.5	179.0	425.5
1987	0.2	114.0	117.4	4.0	12.5	133.8	—	248.1	193.4	441.5
1988	0.2	116.7	134.1	3.8	10.7	148.6	—	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	**0.3**	**128.0**	**124.6**	**2.0**	**13.9**	**140.5**	**[d] 5.2**	**[d] 274.0**	**[R] 233.8**	**[d R] 507.8**
1991	0.2	132.5	120.7	1.7	15.4	137.7	5.5	276.0	[R] 260.4	[R] 536.4
1992	0.3	153.6	134.0	1.6	13.4	149.0	5.8	308.7	[R] 264.1	572.7
1993	0.2	161.1	131.6	1.7	[R] 15.6	[R] 149.0	5.9	[R] 316.2	[R] 274.6	[R] 590.8
1994	0.2	158.5	139.9	1.6	[R] 18.2	[R] 159.7	5.8	[R] 324.2	[R] 276.6	[R] 600.8
1995	**0.2**	**139.1**	**131.8**	**1.1**	**16.5**	**149.4**	**6.5**	**295.1**	**283.5**	**578.6**

[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.

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, 1970-1995, Rhode Island

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.90**	**1.44**	**1.10**	**0.78**	**1.20**	**2.90**	**0.44**	**0.85**	**1.00**	**7.02**	**2.08**
1971	0.63	1.59	1.17	0.82	1.29	2.95	0.66	0.97	1.10	7.26	2.27
1972	1.05	1.79	1.17	0.82	1.32	2.89	0.66	0.97	1.15	8.08	2.49
1973	1.28	1.86	1.39	1.04	1.29	3.06	0.70	1.11	1.28	8.49	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**	**2.59**	**2.66**	**4.50**	**1.81**	**2.28**	**2.39**	**13.84**	**5.23**
1976	1.82	3.35	2.62	2.41	3.00	4.69	1.79	2.36	2.53	13.64	5.37
1977	2.04	3.42	2.96	3.04	3.29	4.97	2.07	2.66	2.80	15.07	5.95
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	3.06	4.62	4.38	3.67	6.98	3.23	4.41	3.87	17.50	7.85
1980	**1.67**	**5.00**	**6.46**	**—**	**5.29**	**9.72**	**3.96**	**6.05**	**5.44**	**20.45**	**10.70**
1981	1.86	5.70	8.10	7.98	6.20	10.79	4.79	7.21	6.20	25.31	13.30
1982	2.01	6.62	7.85	8.04	6.44	10.12	4.55	6.90	6.69	23.99	12.79
1983	1.97	6.87	7.25	8.17	6.86	9.46	4.34	6.34	6.61	25.23	13.02
1984	2.39	6.34	7.18	8.53	6.20	8.85	5.35	6.46	6.38	25.58	12.81
1985	**2.38**	**6.45**	**6.92**	**8.31**	**R 12.75**	**9.13**	**4.96**	**R 6.08**	**R 6.27**	**24.56**	**12.49**
1986	2.08	6.21	4.74	5.51	R 11.92	7.36	2.85	R 3.77	R 4.65	23.01	9.92
1987	2.36	5.38	5.18	5.86	R 11.80	7.96	3.42	R 4.75	R 5.08	23.26	R 10.65
1988	2.53	5.65	5.02	5.41	R 11.54	8.40	2.83	R 4.26	4.93	22.62	10.77
1989	2.60	6.24	5.52	5.62	R 10.83	9.11	3.06	R 4.83	R 5.58	23.52	11.81
1990	**2.62**	**6.04**	**6.95**	**8.81**	**R 11.56**	**10.03**	**3.35**	**R 5.44**	**R 5.73**	**R 26.21**	**R 13.06**
1991	2.65	5.87	6.00	7.03	R 12.78	10.09	2.92	R 4.91	R 5.38	R 29.00	R 13.58
1992	2.67	6.21	5.82	6.21	R 10.66	9.83	2.71	R 4.60	R 5.50	R 29.51	R 14.06
1993	2.33	6.90	5.55	6.05	R 10.72	9.57	2.82	R 4.34	R 5.72	R 30.01	R 14.12
1994	2.23	7.36	5.59	R 5.99	R 10.52	9.86	2.82	R 4.50	R 6.15	R 29.41	13.22
1995	**2.26**	**6.25**	**5.49**	**5.97**	**10.79**	**10.42**	**3.00**	**4.63**	**5.62**	**29.78**	**13.37**
	Expenditures in Million Nominal Dollars										
1970	**0.1**	**7.5**	**9.4**	**(s)**	**0.1**	**0.6**	**2.7**	**12.8**	**20.3**	**30.8**	**51.1**
1971	(s)	7.3	10.4	(s)	0.1	0.6	4.6	15.7	23.1	35.4	58.5
1972	0.1	8.6	10.9	(s)	0.1	0.6	4.8	16.4	25.1	42.1	67.2
1973	0.1	8.8	12.2	(s)	0.1	0.6	4.8	17.8	26.7	47.7	74.3
1974	0.1	9.4	18.4	(s)	0.2	0.9	10.0	29.5	38.9	65.3	104.2
1975	**0.1**	**11.6**	**19.3**	**(s)**	**0.3**	**1.0**	**6.9**	**27.3**	**39.1**	**74.4**	**113.5**
1976	0.1	9.8	22.4	(s)	0.3	1.0	8.9	32.7	42.5	78.8	121.3
1977	0.1	10.4	25.0	(s)	0.4	1.1	10.8	37.3	47.8	89.2	137.0
1978	0.1	15.7	24.9	(s)	0.3	1.2	7.3	33.7	49.5	95.2	144.7
1979	(s)	19.1	33.4	(s)	0.3	1.6	5.4	40.7	59.8	111.9	171.8
1980	**(s)**	**34.5**	**23.2**	**—**	**0.4**	**2.5**	**4.5**	**30.6**	**65.1**	**132.0**	**197.1**
1981	0.1	40.0	18.0	(s)	0.5	2.9	5.7	27.2	67.3	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	8.2	35.3	85.0	170.3	255.3
1984	0.2	48.8	24.8	0.2	0.6	1.3	13.8	40.7	89.6	181.1	270.8
1985	**0.1**	**50.6**	**17.8**	**0.2**	**R 2.3**	**1.5**	**17.2**	**R 39.0**	**R 89.7**	**181.0**	**R 270.6**
1986	0.1	42.9	22.3	0.1	R 2.0	1.3	20.5	R 46.2	R 89.2	178.1	R 267.3
1987	0.1	52.0	26.9	0.2	R 2.3	1.5	10.9	R 41.8	R 93.9	190.2	R 284.0
1988	0.1	48.4	23.6	0.1	R 2.0	1.6	11.0	R 38.2	R 86.8	196.0	R 282.7
1989	0.1	56.2	25.0	0.1	R 1.9	1.8	8.8	R 37.7	R 94.0	211.0	R 305.0
1990	**0.1**	**50.0**	**27.2**	**0.1**	**R 2.0**	**2.0**	**12.7**	**R 44.1**	**R 94.3**	**R 240.4**	**R 334.7**
1991	0.1	49.9	27.1	(s)	R 2.3	1.9	10.8	R 42.2	R 92.2	R 264.3	R 356.5
1992	0.1	57.4	20.4	0.1	R 1.8	1.7	8.9	R 32.9	R 90.5	R 268.9	R 359.3
1993	0.1	65.4	20.7	0.1	R 2.2	0.5	11.4	R 34.8	R 100.3	R 278.3	R 378.5
1994	0.1	91.2	26.4	0.2	R 2.1	0.5	11.2	R 40.4	R 131.6	R 274.6	R 406.2
1995	**0.1**	**77.3**	**22.9**	**1.0**	**2.0**	**0.5**	**9.5**	**36.0**	**113.4**	**283.5**	**396.9**

[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.

—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 248. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Rhode Island

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.90**	**0.90**	**0.85**	**0.66**	**0.71**	**0.78**	**1.20**	**5.08**	**2.90**	**0.42**	**1.86**	**0.62**	**—**	**0.66**	**4.83**	**1.06**
1971	—	0.63	0.63	0.94	0.82	0.76	0.82	1.29	5.27	2.95	0.59	2.67	0.76	—	0.79	5.23	1.20
1972	—	1.05	1.05	1.12	0.84	0.76	0.82	1.32	5.58	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	1.52
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	10.46	2.98
1975	**—**	**2.65**	**2.65**	**2.10**	**1.86**	**2.34**	**2.59**	**2.66**	**7.48**	**4.50**	**2.05**	**4.18**	**2.17**	**—**	**2.15**	**11.36**	**3.20**
1976	—	1.82	1.82	2.26	1.94	2.23	2.41	3.00	7.05	4.69	2.04	3.92	2.24	—	2.24	11.28	3.25
1977	—	2.04	2.04	2.91	2.03	2.82	3.04	3.29	6.97	4.97	2.27	4.16	2.48	—	2.57	12.41	3.51
1978	—	1.80	1.80	2.76	2.21	2.99	3.23	3.46	7.60	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	6.98	3.07	5.82	3.63	—	3.39	14.59	5.20
1980	**—**	**1.67**	**1.67**	**4.45**	**3.58**	**5.65**	**6.18**	**5.29**	**14.36**	**9.72**	**4.24**	**8.20**	**5.07**	**—**	**4.91**	**18.39**	**7.27**
1981	—	1.86	1.86	5.21	5.42	7.25	7.98	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	5.09	—	5.31	22.57	8.16
1983	—	—	—	5.96	4.23	7.54	8.17	6.86	16.98	9.46	4.33	7.61	5.27	—	5.45	22.90	8.57
1984	—	2.39	2.39	5.65	4.62	7.29	8.53	6.20	17.63	8.85	5.35	7.50	5.59	—	5.60	23.38	8.66
1985	**—**	**2.38**	**2.38**	**5.70**	**5.18**	**7.11**	**8.31**	**[R] 12.75**	**17.61**	**9.13**	**4.96**	**7.37**	**[R] 5.58**	**—**	**[R] 5.59**	**21.93**	**[R] 7.49**
1986	—	2.08	2.08	5.58	4.86	4.71	5.51	[R] 11.92	15.59	7.36	2.85	10.73	[R] 4.77	—	[R] 4.82	20.90	[R] 7.30
1987	—	2.36	2.36	5.23	3.54	5.01	5.86	[R] 11.80	[R] 13.58	7.96	3.42	10.73	[R] 4.47	—	[R] 4.59	21.89	[R] 7.15
1988	—	2.53	2.53	4.70	3.34	4.62	5.41	[R] 11.54	[R] 14.62	8.40	2.83	10.84	[R] 4.11	—	[R] 3.96	21.10	[R] 6.42
1989	—	2.60	2.60	5.03	3.17	4.81	5.62	[R] 10.83	14.48	9.11	3.06	10.00	[R] 4.03	—	[R] 4.20	21.98	[R] 7.25
1990	**—**	**2.62**	**2.62**	**5.18**	**3.34**	**7.53**	**8.81**	**[R] 11.56**	**14.60**	**10.03**	**3.35**	**9.71**	**[R] 4.45**	**[d R] 1.73**	**[d R] 4.55**	**24.46**	**[d] 8.07**
1991	—	—	—	5.25	3.05	6.01	7.03	[R] 12.78	[R] 16.80	10.09	2.92	16.33	[R] 4.95	[R] 1.67	[R] 5.14	[R] 27.17	[R] 7.66
1992	—	—	—	4.58	2.78	5.31	6.21	[R] 10.66	[R] 18.32	9.83	2.71	24.75	[R] 3.80	[R] 1.64	[R] 4.37	[R] 27.03	[R] 5.88
1993	—	—	—	4.97	3.30	5.18	6.05	[R] 10.72	[R] 18.96	9.57	2.82	19.10	[R] 4.41	[R] 1.62	4.83	[R] 26.46	[R] 6.44
1994	—	—	—	4.31	3.66	5.12	5.99	[R] 8.94	[R] 19.11	9.86	2.82	24.75	[R] 4.47	[R] 1.56	4.32	[R] 25.96	[R] 5.97
1995	**—**	**—**	**—**	**3.99**	**3.79**	**5.11**	**5.97**	**7.65**	**19.40**	**10.42**	**3.00**	**23.89**	**4.74**	**1.45**	**4.13**	**26.01**	**6.07**
	Expenditures in Million Nominal Dollars																
1970	**—**	**(s)**	**(s)**	**5.0**	**4.1**	**2.8**	**0.4**	**0.7**	**1.5**	**(s)**	**8.3**	**2.2**	**20.1**	**—**	**25.1**	**19.9**	**45.0**
1971	—	(s)	(s)	5.9	6.0	2.7	0.4	0.8	1.9	(s)	13.1	2.0	26.8	—	32.7	22.3	55.0
1972	—	(s)	(s)	4.9	4.5	2.6	0.3	1.0	2.1	(s)	13.9	2.2	26.6	—	31.5	26.5	58.0
1973	—	(s)	(s)	5.9	7.1	3.0	0.3	1.2	2.1	(s)	16.1	3.0	32.9	—	38.8	29.9	68.7
1974	—	(s)	(s)	7.7	11.5	5.5	0.6	1.8	2.7	0.1	31.8	3.4	57.4	—	65.1	49.4	114.5
1975	**—**	**0.1**	**0.1**	**12.4**	**16.5**	**6.0**	**0.6**	**2.9**	**1.8**	**0.1**	**24.7**	**3.4**	**56.0**	**—**	**68.5**	**46.2**	**114.7**
1976	—	0.1	0.1	11.1	16.5	6.2	0.9	3.6	1.9	0.1	32.2	7.9	69.4	—	80.5	50.6	131.1
1977	—	0.1	0.1	26.8	19.2	8.1	0.9	4.4	2.6	0.1	37.7	9.5	82.4	—	109.2	55.9	165.1
1978	—	0.1	0.1	13.0	19.0	8.5	0.9	3.8	3.1	0.1	27.5	11.1	73.8	—	86.9	59.4	146.3
1979	—	0.1	0.1	15.6	17.4	9.5	1.2	2.4	4.3	0.1	16.8	15.5	67.3	—	82.9	69.0	152.0
1980	**—**	**0.2**	**0.2**	**23.1**	**24.7**	**13.6**	**1.1**	**2.9**	**5.4**	**0.1**	**17.4**	**22.0**	**87.2**	**—**	**110.5**	**87.8**	**198.3**
1981	—	0.1	0.1	27.6	35.8	13.6	0.3	2.8	6.5	0.1	23.0	8.1	90.2	—	117.9	106.2	224.1
1982	—	—	—	30.5	32.1	13.4	—	3.9	5.7	0.1	17.6	5.4	78.2	—	108.7	91.2	199.9
1983	—	—	—	31.3	34.0	16.0	(s)	3.6	5.8	0.1	12.8	4.6	77.0	—	108.4	99.0	207.3
1984	—	0.1	0.1	31.4	41.0	15.9	(s)	2.0	6.5	0.5	21.6	4.2	91.7	—	123.1	107.1	230.2
1985	**—**	**0.2**	**0.2**	**27.2**	**102.3**	**10.2**	**(s)**	**[R] 6.9**	**6.0**	**1.3**	**30.3**	**4.1**	**[R] 161.2**	**—**	**[R] 188.6**	**97.3**	**[R] 285.9**
1986	—	1.2	1.2	19.8	47.7	7.9	0.1	[R] 11.5	5.2	1.2	20.9	4.0	[R] 98.5	—	[R] 119.5	94.6	[R] 214.1
1987	—	0.1	0.1	23.6	41.7	15.8	0.1	[R] 13.1	[R] 5.1	1.2	18.0	4.4	[R] 99.4	—	[R] 123.1	101.6	[R] 224.7
1988	—	10.9	10.9	21.5	38.6	7.3	0.5	[R] 9.8	5.3	1.5	11.3	3.5	[R] 77.8	—	[R] 110.2	98.0	[R] 208.2
1989	—	1.6	1.6	23.9	33.7	8.7	(s)	[R] 6.5	5.4	1.7	9.6	3.1	[R] 68.7	—	[R] 94.1	102.0	[R] 196.1
1990	**—**	**(s)**	**(s)**	**23.3**	**36.3**	**10.3**	**0.7**	**[R] 6.5**	**5.6**	**1.8**	**9.7**	**3.0**	**[R] 73.9**	**[d R] 0.7**	**[d R] 97.9**	**113.0**	**[d R] 210.9**
1991	—	—	—	145.1	9.3	8.0	0.6	[R] 5.6	5.8	1.4	7.0	1.2	[R] 38.9	0.8	[R] 184.8	[R] 126.4	[R] 311.2
1992	—	—	—	223.3	27.7	8.7	0.4	[R] 4.9	[R] 6.4	1.4	7.8	1.9	59.3	[R] 0.8	[R] 283.3	[R] 125.4	[R] 408.7
1993	—	—	—	235.2	17.9	8.7	0.3	[R] 5.0	6.8	2.5	10.7	1.6	[R] 53.4	[R] 0.8	[R] 289.4	[R] 128.1	[R] 417.5
1994	—	—	—	181.3	30.5	9.1	0.3	[R] 3.8	[R] 7.1	2.5	8.4	2.1	[R] 63.8	[R] 0.8	[R] 245.9	[R] 122.1	[R] 368.0
1995	**—**	**—**	**—**	**143.6**	**24.9**	**8.1**	**0.2**	**3.3**	**7.1**	**3.0**	**7.1**	**2.0**	**55.7**	**1.0**	**200.2**	**121.9**	**322.1**

[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=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 249. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Rhode Island

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**—**	**—**	**2.17**	**1.36**	**0.75**	**1.20**	**5.08**	**2.90**	**0.41**	**2.17**	**2.17**	**—**	**2.17**
1971	—	—	2.21	1.49	0.79	1.29	5.27	2.95	0.62	2.21	2.21	—	2.21
1972	—	—	2.19	1.50	0.78	1.32	5.58	2.89	0.62	2.29	2.29	—	2.29
1973	—	—	2.36	1.84	0.93	1.29	5.33	3.06	0.65	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	**2.65**	**—**	**3.45**	**2.90**	**2.09**	**2.66**	**7.48**	**4.50**	**1.71**	**4.19**	**4.19**	**—**	**4.19**
1976	1.82	—	3.59	3.10	2.29	3.00	7.05	4.69	1.72	4.40	4.40	—	4.40
1977	—	—	3.97	3.61	2.64	3.29	6.97	4.97	1.91	4.78	4.78	—	4.78
1978	—	—	4.29	3.79	2.97	3.46	7.60	5.10	1.84	4.93	4.93	—	4.93
1979	—	—	5.73	5.34	3.98	3.67	10.21	6.98	2.88	6.71	6.71	—	6.71
1980	**—**	**—**	**9.02**	**7.41**	**6.51**	**5.29**	**14.36**	**9.72**	**3.34**	**9.40**	**9.40**	**—**	**9.40**
1981	—	—	10.84	8.93	7.80	6.20	18.00	10.79	4.14	10.56	10.56	—	10.56
1982	—	—	10.92	8.71	7.51	6.44	17.25	10.12	4.20	9.95	9.95	—	9.95
1983	—	—	10.44	8.91	6.91	6.86	16.98	9.46	—	9.37	9.37	—	9.37
1984	—	—	10.27	8.70	6.46	6.20	17.63	8.85	—	8.76	8.76	—	8.76
1985	**—**	**—**	**9.99**	**8.89**	**6.10**	**[R] 12.75**	**17.61**	**9.13**	**—**	**9.03**	**9.03**	**—**	**9.03**
1986	—	—	8.41	7.26	4.25	[R] 11.92	15.59	7.36	2.20	7.28	7.28	—	7.28
1987	—	—	7.55	6.96	4.18	[R] 11.80	[R] 13.58	7.96	2.55	[R] 7.58	[R] 7.58	—	[R] 7.58
1988	—	—	7.41	7.36	4.04	[R] 11.54	[R] 14.62	8.40	2.05	7.87	7.87	—	7.87
1989	—	—	8.28	7.81	4.75	[R] 10.83	14.48	9.11	2.50	8.60	8.60	—	8.60
1990	**—**	**3.77**	**9.32**	**9.93**	**6.03**	**[R] 11.56**	**14.60**	**10.03**	**3.42**	**9.72**	**9.72**	**—**	**9.72**
1991	—	3.67	8.71	9.39	5.23	[R] 12.78	[R] 16.80	10.09	2.16	9.71	9.71	—	9.71
1992	—	3.81	8.54	8.91	4.79	[R] 10.66	[R] 18.32	9.83	1.86	[R] 9.44	[R] 9.44	—	[R] 9.44
1993	—	6.89	8.24	9.00	4.49	[R] 10.72	[R] 18.96	9.57	2.96	9.28	9.28	—	9.28
1994	—	6.89	7.96	8.85	4.20	[R] 8.65	[R] 19.11	9.86	2.45	[R] 9.49	[R] 9.49	—	[R] 9.49
1995	**—**	**5.70**	**8.36**	**8.83**	**4.19**	**8.74**	**19.40**	**10.42**	**2.55**	**9.95**	**9.95**	**—**	**9.95**
	Expenditures in Million Nominal Dollars												
1970	**—**	**—**	**1.6**	**4.8**	**0.6**	**0.1**	**2.4**	**121.4**	**6.5**	**137.4**	**137.4**	**—**	**137.4**
1971	—	—	1.8	6.5	0.5	0.2	2.1	126.8	11.2	149.0	149.0	—	149.0
1972	—	—	2.0	6.0	0.8	0.2	2.3	129.8	8.7	149.7	149.7	—	149.7
1973	—	—	2.6	7.9	0.9	0.2	2.2	138.0	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	**(s)**	**—**	**5.0**	**13.3**	**3.2**	**0.3**	**2.6**	**210.8**	**3.5**	**238.7**	**238.7**	**—**	**238.7**
1976	(s)	—	4.1	14.7	3.1	0.4	2.7	215.8	2.6	243.4	243.4	—	243.4
1977	—	—	3.2	14.4	3.1	0.4	3.0	239.4	1.4	264.9	264.9	—	264.9
1978	—	—	4.3	12.9	4.3	0.6	3.5	242.4	0.8	268.9	268.9	—	268.9
1979	—	—	7.0	19.4	7.0	0.2	4.9	323.8	2.5	364.6	364.6	—	364.6
1980	**—**	**—**	**12.2**	**29.2**	**12.8**	**0.2**	**6.1**	**427.1**	**1.2**	**488.7**	**488.7**	**—**	**488.7**
1981	—	—	1.2	36.2	13.3	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	6.6	410.4	—	475.7	475.7	—	475.7
1984	—	—	1.1	47.8	20.8	0.7	7.3	396.3	—	474.0	474.0	—	474.0
1985	**—**	**—**	**1.5**	**16.9**	**17.1**	**1.0**	**6.8**	**412.7**	**—**	**[R] 456.0**	**[R] 456.0**	**—**	**[R] 456.0**
1986	—	—	1.5	50.0	9.3	[R] 0.8	5.9	342.8	0.1	410.3	410.3	—	410.3
1987	—	—	1.6	56.7	12.5	[R] 0.4	[R] 5.8	378.4	2.7	[R] 458.0	[R] 458.0	—	[R] 458.0
1988	—	—	1.7	52.0	14.5	[R] 0.9	6.0	406.6	3.8	485.5	485.5	—	485.5
1989	—	—	1.9	72.7	19.4	0.7	6.1	420.8	1.1	[R] 522.8	[R] 522.8	—	[R] 522.8
1990	**—**	**(s)**	**2.0**	**66.9**	**26.4**	**0.8**	**6.3**	**455.2**	**0.7**	**[R] 558.4**	**558.4**	**—**	**558.4**
1991	—	(s)	1.3	74.0	19.4	[R] 0.7	6.5	456.5	0.1	558.5	558.5	—	558.5
1992	—	(s)	1.3	59.0	15.1	0.5	[R] 7.3	449.0	0.7	[R] 532.8	[R] 532.9	—	[R] 532.9
1993	—	(s)	0.3	65.2	13.4	0.3	7.6	443.4	0.4	530.7	530.7	—	530.7
1994	—	(s)	0.4	66.1	12.6	0.5	8.1	444.4	0.2	532.1	532.1	—	532.1
1995	**—**	**(s)**	**0.9**	**70.4**	**11.8**	**0.3**	**8.0**	**485.1**	**(s)**	**576.6**	**576.6**	**—**	**576.6**

[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.
(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 250. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Rhode Island

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**—**	**0.39**	**0.44**	**0.48**	**—**	**0.44**	**—**	**—**	**0.43**
1971	—	0.49	0.66	0.76	—	0.66	—	—	0.64
1972	—	0.49	0.66	0.76	—	0.66	—	—	0.66
1973	—	0.57	0.71	1.27	—	0.72	—	—	0.71
1974	1.34	0.88	1.93	2.12	—	1.93	—	—	1.77
1975	**—**	**1.15**	**1.84**	**2.00**	**—**	**1.84**	**—**	**—**	**1.84**
1976	—	1.37	1.84	2.40	—	1.85	—	—	1.80
1977	—	—	2.07	2.68	—	2.07	—	—	2.07
1978	—	—	2.04	2.76	—	2.05	—	—	2.05
1979	—	2.47	3.19	4.23	—	3.21	—	—	3.03
1980	**—**	**3.32**	**3.97**	**6.03**	**—**	**4.00**	**—**	**—**	**3.91**
1981	—	3.27	4.79	7.55	—	4.82	—	—	4.43
1982	—	3.96	4.60	7.17	—	4.65	—	—	4.56
1983	—	3.75	4.35	6.32	—	4.40	—	—	4.13
1984	—	3.91	4.65	6.17	—	4.70	—	—	4.33
1985	**—**	**3.37**	**4.03**	**5.83**	**—**	**4.08**	**—**	**—**	**3.82**
1986	—	—	2.37	3.55	—	2.39	—	—	2.39
1987	—	2.32	2.68	3.39	—	2.70	—	—	2.50
1988	—	2.09	2.25	3.71	—	2.28	—	—	2.28
1989	—	2.41	2.70	4.23	—	2.77	—	—	2.65
1990	**—**	**2.17**	**3.59**	**5.53**	**—**	**3.68**	**—**	**—**	**2.60**
1991	—	1.98	2.41	4.70	—	2.70	—	—	2.23
1992	—	2.13	1.95	4.43	—	2.17	—	—	2.16
1993	—	2.39	3.20	4.11	—	3.41	—	—	2.92
1994	—	2.23	2.54	3.88	—	2.79	—	—	2.49
1995	**—**	**1.85**	**2.57**	**4.13**	**—**	**2.92**	**—**	**—**	**1.95**
	Expenditures in Million Nominal Dollars								
1970	**—**	**0.9**	**8.2**	**0.2**	**—**	**8.4**	**—**	**—**	**9.3**
1971	—	1.4	10.5	0.2	—	10.7	—	—	12.1
1972	—	0.1	11.1	0.2	—	11.3	—	—	11.3
1973	—	(s)	11.0	0.3	—	11.3	—	—	11.4
1974	1.1	1.8	24.5	0.6	—	25.2	—	—	28.0
1975	**—**	**(s)**	**17.8**	**0.3**	**—**	**18.1**	**—**	**—**	**18.1**
1976	—	0.9	10.8	0.1	—	11.0	—	—	11.9
1977	—	—	14.8	0.1	—	15.0	—	—	15.0
1978	—	—	14.8	0.2	—	15.1	—	—	15.1
1979	—	4.5	18.1	0.5	—	18.6	—	—	23.1
1980	**—**	**5.7**	**40.8**	**1.0**	**—**	**41.8**	**—**	**—**	**47.5**
1981	—	8.7	36.9	0.8	—	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**	**—**	**—**	**27.4**
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	—	—	22.4
1989	—	5.3	11.5	0.9	—	12.4	—	—	17.7
1990	**—**	**12.3**	**7.7**	**0.6**	**—**	**8.3**	**—**	**—**	**20.6**
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
1995	**—**	**9.5**	**1.0**	**0.5**	**—**	**1.5**	**—**	**—**	**11.0**

[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 251. Energy Price and Expenditure Estimates by Source, 1970-1995, 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	**—**	**0.47**	**0.47**	**0.57**	**1.03**	**0.73**	**2.04**	**2.75**	**0.42**	**1.39**	**1.89**	**0.19**	**—**	**1.20**	**0.42**	**3.98**	**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	0.76	2.10	2.93	0.55	1.52	2.05	0.18	—	1.26	0.43	4.35	2.10
1973	—	0.54	0.54	0.80	1.47	0.90	2.74	3.07	0.57	1.71	2.16	0.18	—	1.35	0.45	4.68	2.30
1974	—	1.35	1.35	0.95	2.57	1.56	3.34	4.24	1.28	2.46	3.17	0.17	—	1.94	0.78	6.23	3.30
1975	**—**	**1.25**	**1.25**	**1.16**	**2.68**	**2.03**	**3.56**	**4.35**	**1.40**	**2.84**	**3.43**	**0.19**	**—**	**1.86**	**0.56**	**7.72**	**3.79**
1976	—	1.11	1.11	1.53	2.86	2.17	4.17	4.63	1.63	3.10	3.56	0.20	—	2.04	0.62	8.18	3.86
1977	—	1.28	1.28	1.97	3.17	2.55	4.16	4.90	1.95	3.33	3.77	0.27	—	2.31	0.85	9.05	4.32
1978	—	1.43	1.43	2.20	3.43	2.83	4.38	5.01	1.94	3.62	3.95	0.32	—	2.41	0.90	9.50	4.68
1979	—	1.49	1.49	2.62	4.63	3.95	5.39	7.23	2.50	4.84	5.56	0.36	—	3.17	1.00	10.25	5.81
1980	**—**	**1.60**	**1.60**	**3.07**	**6.84**	**6.46**	**5.77**	**10.18**	**3.43**	**[R] 7.24**	**[R] 8.13**	**0.44**	**—**	**4.09**	**1.14**	**11.11**	**[R] 7.28**
1981	—	1.82	1.82	3.90	8.41	7.61	7.57	11.33	4.45	[R] 9.05	[R] 9.63	0.45	—	[R] 4.68	1.31	12.81	[R] 8.55
1982	—	1.93	1.93	4.52	8.04	7.18	7.93	10.65	4.06	[R] 8.47	[R] 9.33	0.48	—	[R] 4.79	1.36	14.53	[R] 9.04
1983	—	1.95	1.95	5.12	7.43	6.87	8.61	9.26	4.17	[R] 7.48	[R] 8.25	0.50	—	[R] 4.07	1.08	15.13	[R] 8.72
1984	—	1.95	1.95	5.32	7.60	6.62	9.05	8.83	4.94	[R] 8.19	[R] 8.09	0.61	—	[R] 4.21	1.20	15.15	[R] 8.74
1985	**—**	**1.88**	**1.88**	**5.06**	**7.11**	**6.11**	**[R] 10.08**	**8.84**	**4.36**	**[R] 8.04**	**[R] 8.09**	**0.62**	**—**	**[R] 3.81**	**1.11**	**15.99**	**[R] 8.91**
1986	—	1.82	1.82	4.40	5.71	4.23	[R] 9.97	6.40	2.50	[R] 5.81	[R] 6.04	0.61	—	[R] 2.99	1.03	16.25	[R] 7.90
1987	—	1.74	1.74	4.60	5.91	4.35	[R] 8.51	7.08	2.93	[R] 5.35	[R] 6.40	0.64	—	[R] 3.02	1.03	16.41	[R] 8.19
1988	—	1.75	1.75	4.25	5.72	4.19	[R] 10.37	7.08	2.30	[R] 4.97	[R] 6.24	0.59	—	[R] 2.92	1.00	16.40	[R] 8.04
1989	—	1.71	1.71	4.22	6.21	4.74	[R] 9.44	7.84	2.70	[R] 5.57	[R] 6.97	0.58	—	[R] 3.18	0.99	16.53	[R] 8.48
1990	**—**	**1.73**	**1.73**	**4.01**	**7.70**	**6.07**	**[R] 10.56**	**8.80**	**3.11**	**[R] 6.17**	**[R] 8.02**	**0.53**	**[d R] 1.58**	**[d R] 3.43**	**0.94**	**[R] 16.40**	**[d R] 8.79**
1991	—	1.64	1.64	3.66	7.26	5.12	[R] 11.06	8.56	2.42	[R] 5.99	[R] 7.67	0.52	[R] 1.64	[R] 3.31	0.90	[R] 16.49	[R] 8.62
1992	—	1.57	1.57	3.96	6.85	4.82	[R] 9.55	8.25	2.50	[R] 5.70	[R] 7.37	0.50	1.61	[R] 3.14	0.84	16.21	[R] 8.41
1993	—	1.60	1.60	4.19	6.63	4.49	[R] 9.41	7.94	2.25	[R] 5.53	[R] 7.03	0.50	1.63	[R] 3.08	0.88	[R] 16.54	[R] 8.36
1994	—	1.60	1.60	4.22	6.81	4.19	[R] 10.44	8.03	2.35	[R] 5.56	[R] 7.27	0.53	1.61	[R] 3.19	0.91	16.63	[R] 8.53
1995	**—**	**1.55**	**1.55**	**4.06**	**6.73**	**4.21**	**10.58**	**8.32**	**2.68**	**5.74**	**7.48**	**0.51**	**1.61**	**3.16**	**0.85**	**16.68**	**8.70**
	Expenditures in Million Nominal Dollars																
1970	**—**	**65.3**	**65.3**	**91.4**	**56.7**	**12.4**	**22.6**	**415.8**	**14.2**	**48.0**	**569.7**	**(s)**	**—**	**726.5**	**-65.0**	**294.7**	**956.2**
1971	—	78.5	78.5	99.9	61.7	13.4	22.6	457.1	19.7	56.4	630.9	4.9	—	814.1	-85.2	341.5	1,070.4
1972	—	86.8	86.8	104.3	66.7	12.8	26.9	504.9	22.1	54.1	687.5	9.3	—	887.9	-98.7	404.6	1,193.7
1973	—	91.0	91.0	122.9	91.7	13.6	34.7	557.2	34.0	58.8	790.1	12.3	—	1,016.3	-115.1	477.0	1,378.1
1974	—	209.0	209.0	126.3	143.8	23.5	36.8	768.1	76.8	83.8	1,132.8	20.4	—	1,488.5	-233.6	628.7	1,883.5
1975	**—**	**174.7**	**174.7**	**143.3**	**130.7**	**29.5**	**42.3**	**809.3**	**67.5**	**87.4**	**1,166.8**	**40.6**	**—**	**1,525.4**	**-205.4**	**782.8**	**2,102.7**
1976	—	189.9	189.9	227.1	174.9	30.0	56.5	910.5	119.4	109.8	1,401.2	40.1	—	1,858.3	-226.4	900.8	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	43.8	60.0	1,052.9	161.0	144.8	1,684.7	67.8	—	2,285.1	-376.2	1,155.9	3,064.8
1979	—	307.9	307.9	310.5	321.4	62.9	58.9	1,438.9	172.0	194.3	2,248.5	71.7	—	2,938.7	-396.1	1,247.7	3,790.3
1980	**—**	**392.2**	**392.2**	**441.2**	**424.9**	**107.1**	**67.4**	**1,899.0**	**155.3**	**[R] 275.6**	**[R] 2,929.4**	**83.4**	**—**	**[R] 3,846.3**	**-467.6**	**1,412.5**	**[R] 4,791.2**
1981	—	486.0	486.0	552.8	481.2	118.2	77.9	2,118.4	149.7	[R] 323.2	[R] 3,268.6	85.5	—	[R] 4,392.9	-552.4	1,725.9	[R] 5,566.4
1982	—	524.5	524.5	443.1	444.1	106.5	74.7	1,982.8	79.9	[R] 242.2	[R] 2,930.3	70.3	—	[R] 3,968.2	-493.0	1,996.1	[R] 5,471.3
1983	—	455.2	455.2	520.1	456.7	94.1	81.5	1,746.6	103.2	[R] 246.1	[R] 2,728.3	140.6	—	[R] 3,844.2	-492.9	2,156.7	[R] 5,508.0
1984	—	476.7	476.7	577.4	509.6	110.1	82.1	1,723.4	155.8	[R] 217.7	[R] 2,798.7	152.5	—	[R] 4,005.3	-525.3	2,337.2	[R] 5,817.2
1985	**—**	**493.6**	**493.6**	**495.3**	**485.7**	**105.3**	**[R] 114.8**	**1,751.7**	**80.0**	**[R] 267.2**	**[R] 2,804.7**	**214.5**	**—**	**[R] 4,008.1**	**-601.3**	**2,523.7**	**[R] 5,930.5**
1986	—	480.7	480.7	435.6	388.8	72.7	[R] 104.5	1,321.6	37.8	[R] 224.9	[R] 2,150.3	233.9	—	[R] 3,300.5	-598.7	2,741.1	[R] 5,442.9
1987	—	513.0	513.0	488.0	408.2	75.4	[R] 112.7	1,448.6	45.3	[R] 223.2	[R] 2,313.5	269.0	—	[R] 3,583.6	-670.6	2,909.0	[R] 5,822.1
1988	—	526.9	526.9	479.3	419.7	73.4	[R] 134.0	1,393.6	47.3	[R] 243.3	[R] 2,311.2	257.5	—	[R] 3,574.8	-677.1	2,955.0	[R] 5,852.8
1989	—	514.1	514.1	495.2	451.9	80.3	[R] 127.7	1,754.5	46.5	[R] 233.4	[R] 2,694.5	251.7	—	[R] 3,955.5	-672.7	3,038.0	[R] 6,320.8
1990	**—**	**499.0**	**499.0**	**525.9**	**651.9**	**97.4**	**[R] 111.6**	**1,987.6**	**47.9**	**[R] 230.2**	**[R] 3,126.6**	**242.8**	**[d R] 34.6**	**[d R] 4,428.9**	**-656.9**	**[R] 3,113.3**	**[d R] 6,885.2**
1991	—	478.2	478.2	492.8	646.6	95.8	[R] 144.1	1,912.1	37.0	[R] 275.6	[R] 3,111.2	240.5	[R] 38.9	[R] 4,361.5	-640.7	[R] 3,211.3	[R] 6,932.1
1992	—	451.3	451.3	549.8	548.2	68.0	[R] 124.5	1,869.9	37.7	[R] 261.1	[R] 2,909.5	241.2	[R] 40.9	[R] 4,192.5	-603.7	[R] 3,230.5	[R] 6,819.4
1993	—	528.2	528.2	598.5	527.5	49.7	[R] 124.2	1,879.1	53.9	[R] 270.2	[R] 2,904.6	247.1	[R] 41.7	[R] 4,320.1	-675.1	[R] 3,472.0	[R] 7,117.0
1994	—	528.1	528.1	617.7	615.6	33.9	[R] 146.9	1,908.8	38.5	[R] 251.4	[R] 2,995.1	250.0	[R] 41.9	[R] 4,432.8	-683.9	[R] 3,509.2	[R] 7,258.0
1995	**—**	**486.9**	**486.9**	**621.3**	**584.2**	**24.5**	**146.7**	**2,051.8**	**45.4**	**279.4**	**3,131.9**	**267.8**	**49.6**	**4,557.6**	**-676.0**	**3,703.0**	**7,584.5**

[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 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.
(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 252. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, South Carolina

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.20**	**1.32**	**1.30**	**1.58**	**2.46**	**1.64**	**—**	**1.51**	**5.64**	**2.82**
1971	0.96	1.43	1.37	1.60	2.33	1.66	—	1.55	6.08	3.02
1972	1.22	1.57	1.37	1.62	2.54	1.72	—	1.65	6.50	3.28
1973	1.16	1.61	1.65	1.89	3.65	2.20	—	1.92	6.68	3.66
1974	2.00	1.92	2.54	2.98	4.01	3.03	—	2.48	8.30	4.86
1975	**2.47**	**2.08**	**2.69**	**3.16**	**4.28**	**3.29**	**—**	**2.71**	**9.60**	**5.78**
1976	2.90	2.24	2.93	3.31	5.31	3.66	—	2.86	10.44	5.63
1977	3.00	2.81	3.29	3.75	5.22	3.91	—	3.29	11.42	6.50
1978	3.04	2.91	3.52	4.01	5.14	4.10	—	3.43	11.85	7.08
1979	3.01	3.45	4.64	5.44	7.10	5.42	—	4.53	12.67	8.51
1980	**3.19**	**4.06**	**6.95**	**8.27**	**7.47**	**7.50**	**—**	**5.76**	**13.69**	**9.73**
1981	3.88	4.79	8.66	10.41	9.07	9.12	—	6.75	15.73	11.63
1982	3.69	5.35	8.37	10.39	9.57	9.19	—	6.95	17.61	13.13
1983	3.67	6.21	7.54	9.27	10.02	8.77	—	7.19	18.97	13.87
1984	3.68	6.46	7.81	8.96	10.43	8.98	—	7.43	19.20	14.29
1985	**3.48**	**6.44**	**7.19**	**8.25**	**9.72**	**8.38**	**—**	**7.44**	**20.54**	**14.90**
1986	3.31	6.35	6.66	7.64	10.26	8.14	—	7.06	20.89	15.20
1987	3.20	6.41	5.29	6.07	7.93	6.39	—	6.32	21.03	14.69
1988	3.26	6.55	6.01	6.90	10.62	7.90	—	7.12	20.89	15.03
1989	3.34	6.56	5.90	6.77	10.02	7.62	—	7.09	21.08	15.21
1990	**3.34**	**6.97**	**7.57**	**8.69**	**10.57**	**9.01**	**[d] 3.53**	**[d] 7.51**	**20.95**	**[d] 15.20**
1991	3.15	6.80	7.06	8.10	11.00	8.95	3.53	7.43	[R] 21.16	[R] 15.09
1992	3.11	6.84	5.87	6.73	8.87	7.64	3.53	6.82	[R] 21.07	14.81
1993	3.26	6.94	5.90	6.77	8.70	7.43	3.53	6.76	21.48	[R] 14.94
1994	3.23	7.42	6.13	7.03	[R] 12.11	[R] 9.67	3.53	[R] 7.77	21.97	[R] 15.71
1995	**3.10**	**7.34**	**6.67**	**7.65**	**12.37**	**9.92**	**3.53**	**7.81**	**22.07**	**15.84**
	Expenditures in Million Nominal Dollars									
1970	**2.5**	**25.6**	**18.2**	**18.0**	**16.5**	**52.6**	**—**	**80.7**	**141.3**	**222.0**
1971	1.8	28.8	17.6	22.6	15.7	55.9	—	86.6	162.6	249.2
1972	2.1	33.3	19.8	17.4	18.7	55.9	—	91.3	182.7	273.9
1973	2.3	37.6	22.0	17.6	25.9	65.6	—	105.5	212.1	317.6
1974	4.0	40.2	29.3	17.3	24.1	70.7	—	114.9	264.9	379.8
1975	**4.9**	**38.8**	**26.6**	**15.4**	**27.9**	**69.8**	**—**	**113.5**	**322.3**	**435.8**
1976	3.5	76.1	39.7	18.0	38.0	95.6	—	175.3	369.0	544.3
1977	3.0	91.6	45.3	17.9	37.4	100.6	—	195.2	440.8	635.9
1978	1.1	84.8	41.2	16.9	35.1	93.2	—	179.1	473.7	652.8
1979	1.2	61.9	53.5	30.0	38.0	121.5	—	184.6	493.6	678.1
1980	**5.4**	**79.1**	**64.0**	**56.3**	**41.5**	**161.7**	**—**	**246.2**	**587.6**	**833.8**
1981	3.4	93.0	72.1	32.6	51.6	156.3	—	252.8	701.2	954.0
1982	3.7	96.8	55.2	31.0	45.1	131.3	—	231.8	811.0	1,042.7
1983	5.5	119.6	51.6	26.6	56.2	134.3	—	259.4	894.5	1,153.9
1984	3.7	127.5	54.8	18.6	59.2	132.5	—	263.7	954.3	1,218.0
1985	**2.0**	**108.7**	**48.3**	**56.6**	**65.1**	**170.0**	**—**	**280.8**	**1,027.5**	**1,308.2**
1986	6.3	114.1	45.6	42.9	62.7	151.2	—	271.6	1,149.0	1,420.6
1987	3.4	133.1	43.2	39.7	57.1	140.0	—	276.5	1,213.8	1,490.3
1988	3.6	139.9	39.2	50.1	76.4	165.7	—	309.2	1,224.0	1,533.2
1989	0.5	137.8	44.1	45.5	77.1	166.7	—	304.9	1,256.0	1,560.9
1990	**0.2**	**131.9**	**44.5**	**27.1**	**64.5**	**136.1**	**[d] 10.8**	**[d] 278.9**	**[R] 1,305.1**	**[d R] 1,584.0**
1991	0.6	136.9	41.1	33.6	78.3	152.9	11.3	301.7	[R] 1,350.5	[R] 1,652.2
1992	0.8	157.4	23.6	16.8	68.0	108.4	11.9	278.6	[R] 1,361.4	[R] 1,640.0
1993	3.3	173.8	28.6	24.8	67.2	120.6	13.0	310.7	[R] 1,516.5	[R] 1,827.2
1994	1.9	179.7	23.8	14.8	[R] 96.2	[R] 134.8	12.7	[R] 329.1	[R] 1,491.7	[R] 1,820.8
1995	**0.5**	**189.7**	**26.0**	**20.4**	**94.3**	**140.8**	**14.1**	**345.1**	**1,610.5**	**1,955.7**

[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 253. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, South Carolina

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.50**	**0.86**	**1.01**	**0.63**	**1.39**	**2.75**	**0.46**	**1.28**	**0.93**	**4.85**	**2.35**
1971	0.56	0.96	1.05	0.64	1.46	2.85	0.67	1.30	1.00	5.19	2.58
1972	0.57	0.98	1.05	0.64	1.50	2.93	0.72	1.31	1.04	5.38	2.77
1973	0.60	0.99	1.27	0.77	1.58	3.07	0.61	1.44	1.07	5.60	2.92
1974	1.45	1.10	2.13	2.25	2.53	4.24	1.13	2.37	1.49	7.23	3.96
1975	**1.53**	**1.22**	**2.32**	**2.29**	**2.68**	**4.35**	**1.15**	**2.58**	**1.58**	**8.55**	**4.84**
1976	1.34	1.45	2.54	2.52	2.90	4.63	1.39	2.57	1.66	9.11	4.29
1977	1.38	2.07	2.90	2.95	3.01	4.90	1.75	2.84	2.21	9.98	5.20
1978	1.62	2.38	3.05	3.19	3.62	5.01	1.89	3.08	2.54	10.45	6.15
1979	1.63	2.74	4.31	3.96	3.76	7.23	2.66	4.20	3.15	11.33	7.33
1980	**1.70**	**3.11**	**6.33**	**5.15**	**4.24**	**10.18**	**3.41**	**6.70**	**3.57**	**12.07**	**7.65**
1981	1.88	3.87	7.89	7.41	5.71	11.33	4.35	7.91	4.59	14.22	9.54
1982	1.99	4.67	7.50	7.01	6.29	10.65	4.10	8.02	5.17	15.98	11.43
1983	1.86	5.39	6.50	6.92	6.56	9.26	4.32	6.94	5.48	16.56	11.39
1984	1.88	5.71	6.64	7.62	6.76	8.83	4.87	6.83	5.77	17.25	11.97
1985	**1.77**	**5.60**	**6.22**	**7.39**	**[R] 10.60**	**8.84**	**4.50**	**[R] 7.19**	**[R] 5.96**	**18.01**	**[R] 12.87**
1986	1.77	5.47	3.86	5.05	[R] 9.57	6.40	2.67	[R] 5.23	[R] 4.91	18.37	12.60
1987	1.70	5.45	4.19	5.15	[R] 9.20	7.08	2.97	[R] 5.43	[R] 5.18	18.33	[R] 12.74
1988	1.67	5.44	3.79	4.72	[R] 10.07	7.08	2.40	[R] 5.09	[R] 5.07	18.03	[R] 12.52
1989	1.69	5.51	4.40	5.61	[R] 8.68	7.84	2.81	[R] 5.54	[R] 5.48	18.11	[R] 13.26
1990	**1.74**	**5.74**	**5.52**	**6.70**	**[R] 10.55**	**8.80**	**3.25**	**[R] 7.09**	**[R] 6.10**	**17.92**	**[R] 13.93**
1991	1.71	5.41	4.97	6.05	[R] 11.13	8.56	2.59	[R] 6.85	[R] 5.69	18.15	[R] 14.05
1992	1.72	5.50	4.76	5.74	[R] 10.54	8.25	2.61	[R] 6.22	[R] 5.61	18.00	[R] 13.71
1993	1.72	5.66	4.55	5.54	[R] 10.41	7.94	2.30	[R] 5.77	[R] 5.43	[R] 18.15	[R] 13.67
1994	1.75	5.93	4.32	[R] 5.34	[R] 9.32	8.03	2.36	[R] 5.49	[R] 5.67	[R] 18.57	[R] 14.15
1995	**1.71**	**5.93**	**4.32**	**5.18**	**9.58**	**8.32**	**2.72**	**5.31**	**5.72**	**18.52**	**14.05**
	Expenditures in Million Nominal Dollars										
1970	**1.9**	**12.3**	**4.2**	**0.2**	**1.6**	**3.0**	**0.2**	**9.2**	**23.4**	**70.1**	**93.5**
1971	2.0	14.2	4.0	0.2	1.7	3.1	0.7	9.8	26.0	81.1	107.1
1972	1.8	14.2	4.5	0.2	2.0	3.3	0.9	10.9	26.9	92.5	119.4
1973	2.2	16.3	5.0	0.2	2.0	3.5	0.9	11.6	30.2	109.8	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	**5.7**	**21.5**	**6.8**	**0.3**	**3.1**	**5.1**	**1.2**	**16.5**	**43.7**	**207.8**	**251.5**
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	3.8	5.9	4.8	26.8	97.3	275.0	372.3
1978	1.1	60.6	10.6	0.4	4.4	6.1	4.6	26.1	87.8	303.5	391.3
1979	1.2	50.0	14.8	0.6	3.5	8.9	6.3	34.1	85.3	320.2	405.5
1980	**5.3**	**73.5**	**17.8**	**0.7**	**4.1**	**12.8**	**0.7**	**36.2**	**115.0**	**358.4**	**473.4**
1981	3.1	77.0	19.9	1.2	5.7	15.2	2.8	44.8	124.9	407.9	532.8
1982	3.7	74.9	17.6	1.0	5.2	14.2	0.7	38.7	117.3	499.2	616.4
1983	5.2	91.6	31.5	0.9	6.5	14.8	2.0	55.8	152.5	525.1	677.6
1984	3.5	97.5	33.0	0.5	6.8	9.7	3.1	53.2	154.1	541.7	695.8
1985	**1.9**	**88.0**	**30.5**	**2.0**	**[R] 12.5**	**10.7**	**2.3**	**[R] 57.9**	**[R] 147.8**	**600.8**	**[R] 748.6**
1986	6.3	89.5	15.8	1.6	[R] 10.3	8.1	0.6	[R] 36.3	[R] 132.1	658.4	[R] 790.5
1987	3.3	96.3	21.2	1.5	[R] 11.7	9.2	0.6	[R] 44.2	[R] 143.9	689.1	[R] 833.0
1988	3.4	97.7	23.3	0.7	[R] 12.8	8.7	0.7	[R] 46.2	[R] 147.3	709.0	[R] 856.4
1989	0.5	93.4	23.7	2.2	[R] 11.8	8.5	0.7	[R] 46.9	[R] 140.7	747.0	[R] 887.7
1990	**0.2**	**90.8**	**19.5**	**0.5**	**[R] 11.3**	**11.8**	**0.4**	**[R] 43.4**	**[R] 134.5**	**[R] 776.3**	**[R] 910.7**
1991	0.6	87.8	15.1	0.4	[R] 14.0	5.4	0.4	[R] 35.3	[R] 123.7	[R] 805.2	[R] 928.9
1992	0.9	94.0	18.6	0.4	[R] 14.3	4.5	0.9	[R] 38.6	[R] 133.5	[R] 808.1	[R] 941.6
1993	2.9	99.0	22.5	0.6	[R] 14.2	1.3	0.4	[R] 39.0	[R] 140.9	[R] 865.7	[R] 1,006.6
1994	1.7	109.2	16.4	0.8	[R] 13.1	1.3	1.0	[R] 32.5	[R] 143.4	[R] 899.6	[R] 1,043.0
1995	**0.4**	**114.9**	**24.4**	**0.8**	**12.9**	**1.4**	**0.7**	**40.1**	**155.5**	**939.5**	**1,094.9**

[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 254. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, South Carolina

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.50**	**0.50**	**0.45**	**0.67**	**0.58**	**0.63**	**1.39**	**5.08**	**2.75**	**0.40**	**1.58**	**0.83**	**—**	**0.57**	**2.41**	**0.87**
1971	—	0.56	0.56	0.48	0.72	0.59	0.64	1.46	5.27	2.85	0.51	1.61	0.84	—	0.62	2.61	0.97
1972	—	0.57	0.57	0.53	0.77	0.59	0.64	1.50	5.58	2.93	0.45	1.60	0.82	—	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	3.06	1.25
1974	—	1.45	1.45	0.70	1.38	2.06	2.25	2.53	7.22	4.24	1.58	2.88	1.97	—	1.32	4.49	2.03
1975	**—**	**1.53**	**1.53**	**1.00**	**1.78**	**2.12**	**2.29**	**2.68**	**7.48**	**4.35**	**1.82**	**3.34**	**2.27**	**—**	**1.56**	**5.80**	**2.48**
1976	—	1.34	1.34	1.27	1.81	2.32	2.52	2.90	7.05	4.63	1.83	3.49	2.32	—	1.75	6.06	2.61
1977	—	1.38	1.38	1.56	1.98	2.70	2.95	3.01	6.97	4.90	2.15	3.76	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	3.99	2.73	—	2.23	7.20	3.33
1979	—	1.63	1.63	2.43	2.58	3.65	3.96	3.76	10.21	7.23	2.46	5.26	3.43	—	2.72	7.96	3.84
1980	**—**	**1.70**	**1.70**	**2.89**	**3.58**	**4.62**	**5.15**	**4.24**	**14.36**	**10.18**	**3.53**	**[R] 7.69**	**[R] 5.01**	**—**	**[R] 3.37**	**8.56**	**[R] 4.43**
1981	—	1.88	1.88	3.75	4.86	6.69	7.41	5.71	18.00	11.33	4.79	[R] 9.47	[R] 7.02	—	[R] 4.25	10.03	[R] 5.57
1982	—	1.99	1.99	4.25	4.08	6.36	7.01	6.29	17.25	10.65	4.18	[R] 8.71	[R] 6.44	—	[R] 4.13	11.41	[R] 6.04
1983	—	1.86	1.86	4.73	4.08	6.76	6.92	6.56	16.98	9.26	4.21	[R] 8.06	[R] 5.93	—	[R] 4.23	11.58	[R] 6.18
1984	—	1.88	1.88	4.91	4.53	6.69	7.62	6.76	17.63	8.83	4.87	[R] 7.94	[R] 6.25	—	[R] 4.44	11.50	[R] 6.44
1985	**—**	**1.77**	**1.77**	**4.57**	**4.99**	**6.49**	**7.39**	**[R] 10.60**	**17.61**	**8.84**	**4.50**	**[R] 7.82**	**[R] 6.74**	**—**	**[R] 4.26**	**12.02**	**[R] 6.51**
1986	—	1.77	1.77	3.62	4.18	4.43	5.05	[R] 9.57	15.59	6.40	2.67	[R] 4.58	[R] 4.76	—	[R] 3.35	12.00	[R] 5.94
1987	—	1.70	1.70	3.82	3.20	4.52	5.15	[R] 9.20	[R] 13.58	7.08	2.97	[R] 5.44	[R] 4.85	—	[R] 3.44	12.27	[R] 6.08
1988	—	1.67	1.67	3.34	3.17	4.14	4.72	[R] 10.07	[R] 14.62	7.08	2.40	[R] 4.51	[R] 4.28	—	[R] 3.14	12.42	[R] 5.77
1989	—	1.69	1.69	3.37	2.90	4.92	5.61	[R] 8.68	14.48	7.84	2.81	[R] 5.69	[R] 4.88	—	[R] 3.34	12.48	[R] 5.99
1990	**—**	**1.74**	**1.74**	**3.26**	**2.90**	**5.88**	**6.70**	**[R] 10.55**	**14.60**	**8.80**	**3.25**	**[R] 6.47**	**[R] 5.55**	**[d R] 1.27**	**[d R] 3.33**	**12.24**	**[d R] 5.74**
1991	—	1.71	1.71	2.87	3.06	5.31	6.05	[R] 11.13	[R] 16.80	8.56	2.59	[R] 5.74	[R] 5.44	[R] 1.34	[R] 3.23	12.20	[R] 5.65
1992	—	1.72	1.72	3.05	2.27	5.03	5.74	[R] 10.54	[R] 18.32	8.25	2.61	[R] 5.80	[R] 5.14	1.31	[R] 3.19	11.82	[R] 5.52
1993	—	1.72	1.72	3.26	2.93	4.86	5.54	[R] 10.41	[R] 18.96	7.94	2.30	[R] 5.20	[R] 4.59	1.31	[R] 3.13	11.89	[R] 5.43
1994	—	1.75	1.75	3.22	2.87	4.69	5.34	[R] 7.93	[R] 19.11	8.03	2.36	[R] 5.05	[R] 4.62	1.31	[R] 3.10	11.80	[R] 5.48
1995	**—**	**1.71**	**1.71**	**3.03**	**3.29**	**4.54**	**5.18**	**8.04**	**19.40**	**8.32**	**2.72**	**5.44**	**4.87**	**1.32**	**3.10**	**11.73**	**5.49**
	Expenditures in Million Nominal Dollars																
1970	**—**	**22.0**	**22.0**	**36.4**	**9.9**	**8.9**	**1.1**	**4.1**	**4.6**	**4.8**	**4.0**	**4.4**	**41.8**	**—**	**100.2**	**83.3**	**183.5**
1971	—	20.2	20.2	39.2	10.0	8.5	1.8	4.8	4.8	4.3	9.8	7.0	51.0	—	110.4	97.8	208.2
1972	—	17.6	17.6	44.8	11.2	9.6	1.0	5.8	5.4	3.2	10.5	7.8	54.5	—	116.9	129.4	246.3
1973	—	16.9	16.9	55.5	11.8	10.7	0.7	6.3	7.6	4.5	13.7	10.4	65.8	—	138.2	155.1	293.3
1974	—	46.0	46.0	52.6	24.6	25.6	2.2	9.3	9.9	5.3	32.8	16.3	125.9	—	224.6	222.2	446.8
1975	**—**	**43.2**	**43.2**	**72.3**	**28.9**	**25.2**	**1.9**	**10.6**	**11.3**	**4.8**	**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	296.9	640.0
1977	—	45.2	45.2	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	38.2	8.1	18.9	14.0	3.5	82.7	57.4	254.4	—	412.7	378.7	791.4
1979	—	59.0	59.0	186.6	33.7	43.9	3.4	16.7	19.6	4.3	97.4	84.4	303.3	—	549.0	434.0	983.0
1980	**—**	**74.9**	**74.9**	**275.2**	**36.4**	**50.4**	**3.7**	**21.3**	**24.6**	**5.1**	**94.2**	**[R] 124.4**	**[R] 360.2**	**—**	**[R] 710.4**	**466.5**	**[R] 1,176.9**
1981	—	94.8	94.8	365.9	46.9	70.0	4.1	19.1	29.6	4.3	77.7	[R] 174.1	[R] 425.9	—	[R] 886.6	616.9	[R] 1,503.5
1982	—	111.7	111.7	269.4	32.6	55.6	2.1	22.7	25.8	3.0	52.9	[R] 119.2	[R] 314.0	—	[R] 695.1	686.0	[R] 1,381.0
1983	—	101.3	101.3	304.8	51.5	58.0	4.1	16.6	26.6	1.4	77.1	[R] 104.7	[R] 340.1	—	[R] 746.2	737.0	[R] 1,483.2
1984	—	103.7	103.7	350.4	37.3	58.8	2.1	12.8	29.5	13.8	121.8	[R] 96.1	[R] 372.2	—	[R] 826.3	841.2	[R] 1,667.5
1985	**—**	**111.3**	**111.3**	**296.3**	**45.3**	**64.2**	**9.4**	**[R] 31.9**	**27.4**	**32.6**	**63.1**	**[R] 94.1**	**[R] 368.1**	**—**	**[R] 775.7**	**895.4**	**[R] 1,671.1**
1986	—	108.6	108.6	229.1	57.4	39.5	3.8	[R] 28.9	23.8	21.3	29.6	[R] 66.8	[R] 271.1	—	[R] 608.8	933.7	[R] 1,542.5
1987	—	109.3	109.3	256.8	51.6	36.7	4.4	[R] 41.5	[R] 23.4	24.7	34.3	[R] 76.4	[R] 293.1	—	[R] 659.2	1,006.1	[R] 1,665.3
1988	—	108.9	108.9	237.3	69.3	40.3	4.7	[R] 41.6	24.3	23.9	37.0	[R] 67.1	[R] 308.2	—	[R] 654.4	1,022.0	[R] 1,676.4
1989	—	105.1	105.1	257.9	44.5	54.7	5.4	[R] 36.0	24.7	30.2	35.3	[R] 83.3	[R] 314.0	—	[R] 676.9	1,035.0	[R] 1,712.0
1990	**—**	**101.2**	**101.2**	**290.9**	**38.1**	**66.8**	**3.7**	**[R] 32.4**	**25.6**	**32.3**	**39.1**	**[R] 106.9**	**[R] 344.9**	**[d R] 23.8**	**[d R] 760.8**	**[R] 1,031.9**	**[d R] 1,792.8**
1991	—	95.5	95.5	253.1	39.4	65.0	3.7	[R] 48.0	26.3	30.2	26.1	[R] 139.9	[R] 378.7	[R] 27.5	[R] 754.8	[R] 1,055.6	[R] 1,810.5
1992	—	94.2	94.2	295.2	31.1	52.2	2.3	[R] 38.9	[R] 29.3	31.0	29.4	[R] 144.4	[R] 358.6	[R] 28.9	[R] 777.0	[R] 1,061.1	[R] 1,838.1
1993	—	103.8	103.8	320.1	45.8	44.3	3.0	[R] 39.7	[R] 30.9	16.1	44.7	[R] 129.6	[R] 354.1	[R] 28.7	[R] 806.7	[R] 1,089.8	[R] 1,896.5
1994	—	102.3	102.3	323.7	37.9	36.6	2.3	[R] 33.4	[R] 32.5	17.5	36.4	[R] 128.5	[R] 325.1	[R] 29.2	[R] 780.2	[R] 1,117.9	[R] 1,898.1
1995	**—**	**94.5**	**94.5**	**305.8**	**57.7**	**48.8**	**2.3**	**37.1**	**32.5**	**18.6**	**36.7**	**130.6**	**364.1**	**35.5**	**799.9**	**1,152.9**	**1,952.8**

[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 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 255. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, South Carolina

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.50**	**—**	**2.17**	**1.32**	**0.73**	**1.39**	**5.08**	**2.75**	**0.41**	**2.34**	**2.34**	**—**	**2.34**
1971	0.56	—	2.21	1.55	0.76	1.46	5.27	2.85	0.60	2.47	2.47	—	2.47
1972	0.57	—	2.19	1.56	0.76	1.50	5.58	2.93	0.63	2.59	2.59	—	2.59
1973	0.60	—	2.36	1.88	0.90	1.58	5.33	3.07	0.55	2.72	2.72	—	2.72
1974	1.45	—	3.23	2.92	1.56	2.53	7.22	4.24	1.01	3.85	3.85	—	3.85
1975	**1.53**	**—**	**3.45**	**3.01**	**2.03**	**2.68**	**7.48**	**4.35**	**1.52**	**4.04**	**4.04**	**—**	**4.04**
1976	1.34	—	3.59	3.21	2.17	2.90	7.05	4.63	1.27	4.28	4.28	—	4.28
1977	1.38	—	3.97	3.55	2.55	3.01	6.97	4.90	1.55	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	—	—	5.73	5.00	3.95	3.76	10.21	7.23	2.36	6.61	6.61	—	6.61
1980	**—**	**—**	**9.02**	**7.63**	**6.46**	**4.24**	**14.36**	**10.18**	**2.90**	**9.42**	**9.42**	**—**	**9.42**
1981	—	—	10.84	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	10.65	3.72	10.00	10.00	—	10.00
1983	—	—	10.44	7.69	6.87	6.56	16.98	9.26	4.05	8.80	8.80	—	8.80
1984	—	—	10.27	7.88	6.62	6.76	17.63	8.83	5.28	8.50	8.50	—	8.50
1985	**—**	**—**	**9.99**	**7.36**	**6.11**	**[R] 10.60**	**17.61**	**8.84**	**3.82**	**8.39**	**8.39**	**—**	**8.39**
1986	—	—	8.41	6.00	4.23	[R] 9.57	15.59	6.40	2.01	6.19	6.19	—	6.19
1987	—	—	7.55	6.48	4.35	[R] 9.20	[R] 13.58	7.08	2.80	[R] 6.78	[R] 6.78	—	[R] 6.78
1988	—	—	7.41	6.27	4.19	[R] 10.07	[R] 14.62	7.08	1.98	[R] 6.70	[R] 6.70	—	[R] 6.70
1989	—	—	8.28	6.82	4.74	[R] 8.68	14.48	7.84	2.38	7.45	7.45	—	7.45
1990	**—**	**—**	**9.32**	**8.17**	**6.07**	**[R] 10.55**	**14.60**	**8.80**	**2.58**	**8.49**	**8.49**	**—**	**8.49**
1991	—	—	8.71	7.77	5.12	[R] 11.13	[R] 16.80	8.56	2.06	8.12	8.12	—	8.12
1992	—	—	8.54	7.39	4.82	[R] 10.54	[R] 18.32	8.25	2.14	[R] 7.90	[R] 7.90	—	[R] 7.90
1993	—	—	8.24	7.17	4.49	[R] 10.41	[R] 18.96	7.94	2.00	7.65	7.65	—	7.65
1994	—	3.30	7.96	7.26	4.19	[R] 8.26	[R] 19.11	8.03	2.18	7.80	7.80	—	7.80
1995	**—**	**4.55**	**8.36**	**7.35**	**4.21**	**8.58**	**19.40**	**8.32**	**2.53**	**8.05**	**8.05**	**—**	**8.05**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**2.5**	**22.3**	**12.4**	**0.3**	**7.3**	**408.0**	**4.1**	**457.0**	**457.0**	**—**	**457.0**
1971	(s)	—	2.2	27.2	13.4	0.4	7.7	449.7	5.3	505.9	505.9	—	505.9
1972	(s)	—	2.5	26.9	12.8	0.5	8.7	498.5	4.3	554.1	554.1	—	554.1
1973	(s)	—	2.2	49.2	13.6	0.5	8.3	549.1	4.2	627.2	627.2	—	627.2
1974	(s)	—	2.4	75.8	23.5	0.8	10.8	758.0	5.5	876.8	876.8	—	876.8
1975	**(s)**	**—**	**2.5**	**70.5**	**29.5**	**0.8**	**9.7**	**799.5**	**4.0**	**916.4**	**916.4**	**—**	**916.4**
1976	(s)	—	3.0	85.1	30.0	1.1	10.1	900.8	5.4	1,035.5	1,035.5	—	1,035.5
1977	(s)	—	2.8	110.2	37.7	1.2	11.0	973.8	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	—	—	4.5	200.1	62.9	0.7	18.1	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	118.2	1.5	27.3	2,098.9	25.3	2,576.1	2,576.1	—	2,576.1
1982	—	—	6.6	307.8	106.5	1.7	23.9	1,965.6	19.0	2,431.1	2,431.1	—	2,431.1
1983	—	—	7.0	311.1	94.1	2.2	24.6	1,730.4	23.8	2,193.2	2,193.2	—	2,193.2
1984	—	—	6.3	358.1	110.1	3.4	27.2	1,699.9	30.9	2,235.9	2,235.9	—	2,235.9
1985	**—**	**—**	**6.9**	**336.7**	**105.3**	**[R] 5.3**	**25.4**	**1,708.4**	**14.6**	**[R] 2,202.5**	**[R] 2,202.5**	**—**	**[R] 2,202.5**
1986	—	—	6.6	285.4	72.7	[R] 2.6	21.9	1,292.2	7.7	[R] 1,689.2	[R] 1,689.2	—	[R] 1,689.2
1987	—	—	4.6	304.5	75.4	[R] 2.4	[R] 21.6	1,414.7	10.3	[R] 1,833.5	[R] 1,833.5	—	[R] 1,833.5
1988	—	—	4.7	312.6	73.4	[R] 3.2	22.4	1,360.9	9.6	[R] 1,786.8	[R] 1,786.8	—	[R] 1,786.8
1989	—	—	5.0	323.2	80.3	[R] 2.8	22.8	1,715.9	10.0	[R] 2,160.2	[R] 2,160.2	—	[R] 2,160.2
1990	**—**	**—**	**4.8**	**516.8**	**97.4**	**[R] 3.3**	**23.6**	**1,943.5**	**8.3**	**[R] 2,597.7**	**[R] 2,597.7**	**—**	**[R] 2,597.7**
1991	—	—	7.9	521.8	95.8	[R] 3.8	24.3	1,876.5	10.3	[R] 2,540.5	[R] 2,540.5	—	[R] 2,540.5
1992	—	—	9.7	450.0	68.0	[R] 3.3	[R] 27.1	1,834.4	7.2	[R] 2,399.7	[R] 2,399.7	—	[R] 2,399.7
1993	—	—	7.0	428.7	49.7	[R] 3.1	28.5	1,861.7	8.0	[R] 2,386.7	[R] 2,386.7	—	[R] 2,386.7
1994	—	(s)	4.6	532.4	33.9	[R] 4.3	[R] 30.1	1,890.0	1.0	[R] 2,496.2	[R] 2,496.2	—	[R] 2,496.2
1995	**—**	**(s)**	**5.2**	**480.2**	**24.5**	**2.4**	**30.0**	**2,031.8**	**7.0**	**2,581.1**	**2,581.1**	**—**	**2,581.1**

[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.

(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 256. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, South Carolina

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.43**	**0.37**	**0.46**	**0.70**	**—**	**0.52**	**0.19**	**—**	**0.42**
1971	0.49	0.43	0.69	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	—	0.69	0.18	—	0.45
1974	1.30	0.76	1.13	2.29	—	1.22	0.17	—	0.78
1975	**1.14**	**0.71**	**1.14**	**2.41**	**—**	**1.17**	**0.19**	**—**	**0.56**
1976	1.04	1.01	1.42	2.41	—	1.48	0.20	—	0.62
1977	1.24	1.23	1.73	2.74	—	1.96	0.27	—	0.85
1978	1.38	1.74	1.90	2.83	—	2.01	0.32	—	0.90
1979	1.46	2.17	2.60	3.77	—	2.72	0.36	—	1.00
1980	**1.56**	**2.41**	**3.44**	**5.78**	**—**	**3.91**	**0.44**	**—**	**1.14**
1981	1.80	3.29	4.36	7.37	—	5.04	0.45	—	1.31
1982	1.91	3.94	4.15	6.87	—	5.22	0.48	—	1.36
1983	1.96	4.29	4.31	5.99	—	5.89	0.50	—	1.08
1984	1.97	4.46	—	5.94	—	5.94	0.61	—	1.20
1985	**1.91**	**4.54**	**3.94**	**5.73**	**—**	**5.72**	**0.62**	**—**	**1.11**
1986	1.83	2.03	2.16	3.64	—	3.61	0.61	—	1.03
1987	1.74	3.35	2.93	4.00	—	3.98	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	4.26	—	4.07	0.58	—	0.99
1990	**1.72**	**1.72**	**3.02**	**6.22**	**—**	**6.00**	**0.53**	**—**	**0.94**
1991	1.63	1.49	2.22	4.75	—	4.54	0.52	—	0.90
1992	1.53	1.69	2.38	4.62	—	4.39	0.50	—	0.84
1993	1.57	2.91	2.19	4.26	—	3.60	0.50	—	0.88
1994	1.56	1.67	2.26	4.10	—	4.03	0.53	—	0.91
1995	**1.51**	**1.60**	**2.48**	**4.11**	**—**	**3.67**	**0.51**	**—**	**0.85**
	Expenditures in Million Nominal Dollars								
1970	**39.0**	**17.1**	**5.9**	**3.1**	**—**	**9.0**	**(s)**	**—**	**65.0**
1971	54.4	17.7	3.8	4.3	—	8.2	4.9	—	85.2
1972	65.4	11.9	6.3	5.9	—	12.2	9.3	—	98.7
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	—	233.6
1975	**120.9**	**10.7**	**31.6**	**1.7**	**—**	**33.3**	**40.6**	**—**	**205.4**
1976	139.9	3.9	38.0	4.3	—	42.3	40.1	—	226.4
1977	191.4	3.2	55.1	24.9	—	80.0	49.3	—	323.8
1978	217.3	9.4	67.6	14.2	—	81.7	67.8	—	376.2
1979	246.4	12.1	56.7	9.3	—	65.9	71.7	—	396.1
1980	**306.6**	**13.4**	**45.0**	**19.1**	**—**	**64.1**	**83.4**	**—**	**467.6**
1981	384.6	16.9	43.9	21.6	—	65.5	85.5	—	552.4
1982	405.4	2.1	7.3	7.8	—	15.2	70.3	—	493.0
1983	343.3	4.1	0.2	4.6	—	4.8	140.6	—	492.9
1984	365.9	2.0	—	4.9	—	4.9	152.5	—	525.3
1985	**378.4**	**2.3**	**(s)**	**6.1**	**—**	**6.1**	**214.5**	**—**	**601.3**
1986	359.5	2.9	(s)	2.4	—	2.5	233.9	—	598.7
1987	397.0	1.8	(s)	2.7	—	2.7	269.0	—	670.6
1988	410.9	4.4	(s)	4.2	—	4.2	257.5	—	677.1
1989	408.0	6.1	0.6	6.3	—	6.8	251.7	—	672.7
1990	**397.5**	**12.3**	**0.2**	**4.3**	**—**	**4.4**	**242.8**	**—**	**656.9**
1991	381.4	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	0.8	3.5	—	4.3	247.1	—	675.1
1994	422.3	5.1	0.1	6.4	—	6.5	250.0	—	683.9
1995	**391.5**	**10.9**	**1.1**	**4.8**	**—**	**5.8**	**267.8**	**—**	**676.0**

[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 257. Energy Price and Expenditure Estimates by Source, 1970-1995, South Dakota

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	**—**	**0.41**	**0.41**	**0.69**	**0.97**	**0.75**	**1.61**	**2.97**	**0.70**	**1.44**	**2.05**	**—**	**—**	**1.65**	**0.41**	**7.38**	**2.13**
1971	—	0.44	0.44	0.75	1.00	0.78	1.70	2.88	0.79	1.47	2.03	—	—	1.69	0.45	7.39	2.17
1972	—	0.46	0.46	0.77	1.00	0.78	1.55	2.61	0.78	1.54	1.90	—	—	1.60	0.48	7.46	2.09
1973	—	0.42	0.42	0.81	1.29	0.93	2.66	3.09	0.83	1.50	2.36	—	—	1.95	0.44	7.48	2.48
1974	—	0.60	0.60	1.05	2.44	1.60	2.85	4.20	1.68	2.71	3.41	—	—	2.73	0.54	8.02	3.33
1975	**—**	**0.53**	**0.53**	**1.04**	**2.60**	**2.09**	**3.05**	**4.70**	**2.15**	**2.90**	**3.77**	**—**	**—**	**2.72**	**0.58**	**8.21**	**3.64**
1976	—	0.59	0.59	1.18	2.81	2.26	3.17	4.89	1.76	2.98	3.97	—	—	2.66	0.58	9.06	3.73
1977	—	0.64	0.64	1.50	3.16	2.69	3.77	5.12	1.97	3.20	4.31	—	—	2.99	0.60	9.25	4.09
1978	—	0.69	0.69	1.86	3.34	2.90	3.83	5.34	2.06	3.22	4.43	—	—	3.15	0.68	10.21	4.40
1979	—	0.69	0.69	2.39	4.68	4.03	4.98	7.44	2.25	4.01	5.92	—	—	4.38	0.72	10.76	5.87
1980	**—**	**0.85**	**0.85**	**2.83**	**6.53**	**6.47**	**5.50**	**10.14**	**3.28**	**6.07**	**8.19**	**—**	**—**	**5.74**	**0.83**	**12.95**	**7.77**
1981	—	1.06	1.06	3.55	7.70	7.60	5.72	11.22	3.99	8.36	9.38	—	—	6.54	1.01	14.74	8.88
1982	—	1.25	1.25	4.35	7.44	7.19	6.11	10.72	3.91	7.05	8.88	—	—	6.40	1.20	16.04	8.68
1983	—	1.27	1.27	5.08	6.94	6.98	6.71	9.53	4.03	7.55	8.25	—	—	6.28	1.23	16.99	8.72
1984	—	1.30	1.30	5.53	6.97	6.60	6.50	9.32	4.60	7.12	8.12	—	—	6.14	1.23	17.04	8.70
1985	**—**	**1.37**	**1.37**	**5.01**	**6.76**	**6.29**	**[R] 8.03**	**9.26**	**4.43**	**7.04**	**[R] 8.09**	**—**	**—**	**6.09**	**1.22**	**17.38**	**8.59**
1986	—	1.36	1.36	4.62	5.11	4.57	[R] 7.69	6.83	2.33	5.76	6.10	—	—	[R] 4.96	1.27	17.35	[R] 7.24
1987	—	1.41	1.41	4.27	5.40	4.39	[R] 6.58	7.16	2.83	[R] 5.63	[R] 6.30	—	—	[R] 5.46	1.28	17.64	[R] 7.41
1988	—	1.27	1.27	4.18	5.01	4.36	[R] 6.60	7.46	2.31	5.24	[R] 6.22	—	—	4.87	1.25	17.54	[R] 7.39
1989	—	1.31	1.31	4.12	5.93	4.76	[R] 8.65	8.51	2.15	5.16	[R] 7.32	—	—	[R] 5.63	1.27	17.71	[R] 8.08
1990	**—**	**1.22**	**1.22**	**4.41**	**6.97**	**6.21**	**[R] 8.55**	**9.40**	**2.61**	**5.35**	**[R] 8.09**	**—**	**[d R] 2.68**	**[d R] 6.13**	**1.19**	**[R] 17.96**	**[d R] 8.68**
1991	—	1.22	1.22	4.21	6.50	5.36	[R] 7.33	8.92	2.33	5.59	[R] 7.65	—	2.69	5.61	1.16	[R] 17.96	[R] 8.38
1992	—	1.21	1.21	4.44	6.64	5.16	[R] 7.96	8.65	2.28	[R] 5.25	7.45	—	[R] 2.74	5.67	1.15	[R] 18.22	8.30
1993	—	1.20	1.20	4.60	6.42	4.90	[R] 8.15	8.78	2.41	[R] 6.27	[R] 7.53	—	[R] 2.65	[R] 5.76	1.13	18.17	[R] 8.31
1994	—	1.21	1.21	4.57	6.32	4.58	[R] 7.19	8.85	2.34	[R] 6.59	[R] 7.42	—	[R] 2.63	[R] 5.62	1.12	[R] 18.15	[R] 8.17
1995	**—**	**1.08**	**1.08**	**4.17**	**6.35**	**4.54**	**7.44**	**9.07**	**2.36**	**6.12**	**7.54**	**—**	**2.67**	**5.64**	**1.07**	**18.18**	**8.22**
	Expenditures in Million Nominal Dollars																
1970	**—**	**2.3**	**2.3**	**25.2**	**24.8**	**4.7**	**16.5**	**154.6**	**1.4**	**10.8**	**212.9**	**—**	**—**	**240.5**	**-4.7**	**70.6**	**306.4**
1971	—	2.5	2.5	23.9	27.0	5.1	17.1	154.8	1.0	11.5	216.6	—	—	243.1	-4.4	74.2	312.9
1972	—	2.4	2.4	26.3	26.5	4.8	18.4	147.9	1.7	12.8	212.1	—	—	240.9	-5.0	80.7	316.6
1973	—	2.7	2.7	25.3	31.9	5.4	29.1	178.5	1.2	14.7	260.8	—	—	288.8	-4.8	84.0	368.0
1974	—	4.4	4.4	33.5	52.5	9.5	29.5	235.8	1.4	19.9	348.7	—	—	386.6	-5.8	93.7	474.5
1975	**—**	**12.9**	**12.9**	**33.7**	**58.2**	**11.9**	**33.2**	**262.4**	**2.9**	**20.6**	**389.2**	**—**	**—**	**435.9**	**-16.0**	**113.6**	**533.5**
1976	—	22.0	22.0	46.1	54.6	12.4	35.6	280.9	3.4	22.8	409.7	—	—	477.8	-20.9	133.1	590.0
1977	—	22.8	22.8	54.1	55.5	15.8	52.3	303.6	3.5	19.5	450.1	—	—	527.1	-19.7	140.1	647.4
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	165.5	720.2
1979	—	24.5	24.5	60.3	173.5	29.0	44.9	420.8	3.1	27.9	699.3	—	—	784.1	-25.5	186.1	944.7
1980	**—**	**30.9**	**30.9**	**67.7**	**182.6**	**46.0**	**51.2**	**516.3**	**2.5**	**35.1**	**833.6**	**—**	**—**	**932.1**	**-28.7**	**224.7**	**1,128.1**
1981	—	38.5	38.5	78.3	197.9	46.6	37.1	541.8	4.0	42.5	869.9	—	—	986.7	-32.8	249.4	1,203.3
1982	—	46.3	46.3	108.3	219.8	44.1	49.3	510.3	1.3	41.1	865.8	—	—	1,020.4	-37.5	280.8	1,263.6
1983	—	39.0	39.0	118.8	180.9	36.1	54.5	448.0	3.4	38.6	761.5	—	—	919.3	-33.5	314.4	1,200.2
1984	—	44.8	44.8	136.5	198.7	36.5	23.8	435.1	2.6	49.4	746.2	—	—	927.5	-37.6	322.5	1,212.5
1985	**—**	**47.3**	**47.3**	**125.9**	**197.0**	**34.6**	**[R] 35.9**	**451.2**	**1.0**	**50.2**	**[R] 770.0**	**—**	**—**	**[R] 943.2**	**-36.2**	**335.0**	**[R] 1,242.0**
1986	—	39.8	39.8	107.4	180.4	12.9	[R] 43.9	323.0	0.9	39.8	[R] 600.8	—	—	[R] 748.0	-31.5	335.9	[R] 1,052.4
1987	—	20.5	20.5	90.1	185.9	16.0	[R] 56.8	338.5	1.0	[R] 33.6	[R] 631.7	—	—	[R] 742.3	-13.7	343.8	[R] 1,072.4
1988	—	43.0	43.0	102.3	181.7	20.6	[R] 38.1	359.8	1.2	38.4	[R] 639.8	—	—	[R] 785.1	-38.5	373.0	[R] 1,119.6
1989	—	42.7	42.7	105.9	188.0	26.3	[R] 115.4	407.6	0.9	34.3	[R] 772.5	—	—	[R] 921.1	-36.0	383.1	[R] 1,268.2
1990	**—**	**39.8**	**39.8**	**111.0**	**224.3**	**36.8**	**[R] 114.4**	**441.3**	**1.0**	**36.1**	**[R] 854.0**	**—**	**[d R] 2.8**	**[d R] 1,007.5**	**-34.4**	**[R] 388.1**	**[d R] 1,361.1**
1991	—	44.0	44.0	109.4	221.9	10.8	[R] 47.5	427.3	1.0	36.0	[R] 744.5	—	2.9	[R] 900.8	-36.4	[R] 409.6	[R] 1,274.0
1992	—	40.6	40.6	110.2	216.5	35.4	[R] 55.7	424.8	2.1	[R] 38.0	772.5	—	3.0	926.3	-33.5	[R] 403.6	[R] 1,296.5
1993	—	41.2	41.2	131.8	232.7	31.6	[R] 76.2	440.9	1.8	35.2	[R] 818.3	—	[R] 2.6	[R] 993.9	-32.7	[R] 428.1	[R] 1,389.3
1994	—	47.5	47.5	129.2	257.3	32.3	[R] 60.0	457.6	1.3	[R] 36.4	[R] 845.0	—	2.6	[R] 1,024.3	-35.3	[R] 444.2	[R] 1,433.3
1995	**—**	**39.5**	**39.5**	**131.7**	**246.5**	**36.1**	**61.9**	**477.0**	**0.2**	**41.5**	**863.1**	**—**	**2.8**	**1,037.1**	**-33.2**	**459.8**	**1,463.6**

[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 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 258. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, South Dakota

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.75**	**1.04**	**1.28**	**1.57**	**1.78**	**1.60**	**—**	**1.30**	**7.76**	**2.41**
1971	1.15	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	1.58	1.80	3.31	2.70	—	1.95	7.85	3.22
1974	3.50	1.29	2.51	2.78	3.17	2.94	—	2.09	8.43	3.55
1975	**3.61**	**1.40**	**2.55**	**2.91**	**3.41**	**3.14**	**—**	**2.23**	**8.97**	**3.82**
1976	3.52	1.50	2.80	3.14	3.59	3.38	—	2.28	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	3.33	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**	**6.85**	**6.89**	**—**	**4.84**	**14.52**	**7.89**
1981	2.69	3.90	8.30	9.59	7.01	7.73	—	5.51	16.41	9.06
1982	4.30	4.71	8.07	9.59	7.38	7.82	—	6.03	17.90	9.65
1983	3.69	5.53	7.36	8.73	7.75	7.59	—	6.39	19.36	10.77
1984	2.18	6.09	7.26	8.80	7.15	7.26	—	6.49	18.74	10.81
1985	**2.65**	**5.69**	**7.64**	**9.27**	**7.56**	**7.66**	**—**	**6.42**	**19.13**	**10.69**
1986	3.05	5.24	5.45	6.61	6.92	5.96	—	5.55	19.44	9.99
1987	2.97	4.81	4.64	5.63	5.31	4.97	—	4.89	19.93	9.73
1988	2.58	4.81	3.95	4.78	5.64	4.61	—	4.72	19.62	9.70
1989	2.65	4.77	5.35	6.49	10.56	7.95	—	6.28	19.95	10.54
1990	**2.62**	**5.06**	**5.52**	**6.70**	**7.20**	**6.48**	**[d] 3.56**	**[d] 5.73**	**[R] 20.37**	**[d R] 9.87**
1991	2.97	4.85	5.13	6.22	6.40	5.70	3.56	5.17	[R] 20.24	9.81
1992	2.63	5.07	5.77	7.00	7.88	6.97	3.56	5.70	[R] 20.80	[R] 10.47
1993	2.44	5.23	5.98	7.26	7.20	6.70	3.56	5.76	[R] 20.63	[R] 10.31
1994	2.44	5.22	5.53	6.71	[R] 7.04	[R] 6.44	3.56	[R] 5.62	20.68	[R] 10.41
1995	**2.64**	**4.98**	**4.98**	**6.04**	**7.32**	**6.42**	**3.56**	**5.48**	**20.75**	**10.29**
	Expenditures in Million Nominal Dollars									
1970	**0.4**	**14.3**	**5.7**	**0.1**	**13.5**	**19.4**	**—**	**34.0**	**42.0**	**76.0**
1971	0.2	13.7	5.4	0.1	14.0	19.5	—	33.4	44.1	77.5
1972	0.2	14.9	6.2	0.1	14.4	20.6	—	35.7	48.3	84.1
1973	0.2	13.4	6.5	0.1	24.7	31.3	—	44.9	49.4	94.2
1974	0.8	14.6	8.7	(s)	21.5	30.3	—	45.7	55.1	100.8
1975	**0.5**	**16.7**	**8.5**	**(s)**	**25.3**	**33.9**	**—**	**51.1**	**63.3**	**114.4**
1976	0.2	21.8	6.4	2.2	25.7	34.3	—	56.3	72.6	128.9
1977	0.5	25.8	5.2	1.9	32.7	39.8	—	66.1	76.5	142.6
1978	0.2	31.2	6.2	2.2	31.5	39.9	—	71.3	93.4	164.7
1979	0.3	30.9	26.6	0.4	24.6	51.6	—	82.8	105.9	188.7
1980	**0.4**	**33.1**	**30.7**	**0.4**	**29.3**	**60.5**	**—**	**93.9**	**129.9**	**223.8**
1981	1.0	38.2	33.8	0.8	23.7	58.3	—	97.4	140.2	237.6
1982	0.5	54.6	41.1	1.2	25.3	67.5	—	122.6	159.7	282.3
1983	0.1	59.5	26.0	1.3	31.5	58.9	—	118.5	182.9	301.5
1984	0.1	67.7	27.7	1.5	15.5	44.7	—	112.6	176.9	289.4
1985	**0.3**	**65.3**	**33.1**	**1.8**	**19.1**	**54.1**	**—**	**119.7**	**180.7**	**300.4**
1986	0.5	55.6	33.0	0.9	21.2	55.1	—	111.2	182.7	293.9
1987	0.1	45.2	23.1	0.5	25.2	48.9	—	94.2	182.3	276.4
1988	0.1	52.5	21.1	0.4	19.5	41.0	—	93.5	195.0	288.5
1989	0.1	55.0	28.1	0.3	55.2	83.6	—	138.7	199.0	337.7
1990	**0.1**	**52.4**	**25.9**	**0.2**	**45.2**	**71.3**	**[d] 2.0**	**[d] 125.8**	**[R] 199.2**	**[d R] 324.9**
1991	0.1	55.4	24.0	0.2	24.5	48.7	2.1	106.3	210.0	316.3
1992	(s)	55.6	15.9	0.1	28.7	44.8	2.2	102.6	[R] 201.7	[R] 304.4
1993	(s)	65.9	20.6	0.2	35.2	56.0	1.9	123.8	[R] 218.9	[R] 342.7
1994	0.3	63.5	17.3	0.1	[R] 32.7	[R] 50.1	1.8	[R] 115.8	[R] 222.1	[R] 337.8
1995	**0.1**	**63.7**	**15.7**	**0.1**	**36.7**	**52.5**	**2.0**	**118.4**	**231.4**	**349.7**

[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.
(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 259. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, South Dakota

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.49**	**0.63**	**1.06**	**—**	**1.13**	**2.97**	**0.66**	**1.22**	**0.76**	**7.53**	**1.94**
1971	0.53	0.67	1.09	—	1.16	2.88	0.77	1.26	0.80	7.50	2.09
1972	0.55	0.69	1.09	—	1.18	2.61	0.77	1.22	0.82	7.43	2.10
1973	0.62	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**	**—**	**2.28**	**4.70**	**2.21**	**2.54**	**1.31**	**8.82**	**2.71**
1976	1.23	1.13	2.56	—	2.44	4.89	1.69	2.66	1.37	9.89	2.69
1977	1.34	1.44	2.93	—	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	4.53	2.82	11.39	4.73
1980	**1.79**	**2.72**	**6.45**	**—**	**4.36**	**10.14**	**3.08**	**6.24**	**3.69**	**13.11**	**5.99**
1981	1.93	3.40	7.80	—	4.32	11.22	4.64	7.37	4.19	15.18	7.10
1982	1.73	4.10	7.46	6.76	5.17	10.72	4.03	7.32	4.78	15.30	7.45
1983	1.92	4.82	6.37	6.82	5.67	9.53	4.08	6.44	5.21	16.40	8.23
1984	2.08	5.30	6.37	6.99	5.55	9.32	4.60	6.86	5.62	16.93	9.42
1985	**2.42**	**4.56**	**6.03**	**6.65**	**[R] 8.66**	**9.26**	**4.44**	**[R] 7.01**	**[R] 5.03**	**17.53**	**[R] 9.14**
1986	1.96	4.32	3.69	4.30	[R] 8.58	6.83	2.33	[R] 5.40	[R] 4.52	17.68	[R] 8.53
1987	1.85	4.17	4.25	4.81	[R] 8.15	7.16	2.84	[R] 5.55	[R] 4.60	17.52	[R] 8.62
1988	1.76	4.02	3.80	4.41	[R] 8.04	7.46	2.35	[R] 5.20	[R] 4.35	17.66	[R] 8.78
1989	1.76	3.92	4.44	4.99	[R] 7.41	8.51	2.15	[R] 6.10	[R] 4.46	17.57	[R] 8.90
1990	**1.79**	**4.13**	**5.44**	**6.15**	**[R] 9.74**	**9.40**	**2.61**	**[R] 7.50**	**[R] 4.96**	**[R] 18.09**	**[R] 9.52**
1991	1.73	3.97	4.83	5.48	[R] 8.68	8.92	2.33	[R] 6.23	[R] 4.39	[R] 18.28	[R] 9.30
1992	1.67	4.13	4.63	5.41	[R] 8.04	8.65	2.28	[R] 5.72	[R] 4.47	[R] 18.63	[R] 9.44
1993	1.69	4.31	4.45	5.25	[R] 9.19	8.78	2.41	[R] 6.28	[R] 4.66	[R] 18.69	[R] 9.36
1994	1.69	4.31	4.24	[R] 5.10	[R] 8.06	8.85	2.34	[R] 5.59	[R] 4.51	[R] 18.47	9.70
1995	**1.27**	**3.93**	**4.26**	**5.10**	**8.09**	**9.07**	**2.36**	**5.54**	**4.25**	**18.40**	**9.56**
	Expenditures in Million Nominal Dollars										
1970	**0.2**	**7.2**	**1.9**	**—**	**1.5**	**0.8**	**0.1**	**4.2**	**11.6**	**24.1**	**35.7**
1971	0.2	7.1	1.7	—	1.5	0.8	(s)	4.1	11.3	25.4	36.7
1972	0.2	7.8	2.0	—	1.8	0.7	0.1	4.6	12.5	27.4	39.8
1973	0.2	8.1	2.2	—	1.6	0.9	0.1	4.8	13.1	29.0	42.1
1974	0.4	13.2	3.1	—	2.7	1.3	0.2	7.3	20.9	31.8	52.7
1975	**0.3**	**11.4**	**3.1**	**—**	**3.0**	**1.4**	**0.3**	**7.8**	**19.5**	**29.9**	**49.4**
1976	0.1	17.4	2.3	—	3.1	1.5	0.6	7.5	25.0	33.0	58.0
1977	0.4	21.4	1.9	—	4.0	1.6	0.7	8.2	29.9	33.6	63.5
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	**0.4**	**23.1**	**13.7**	**—**	**3.3**	**3.5**	**0.4**	**20.9**	**44.4**	**51.0**	**95.3**
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	20.5	59.3	64.5	123.8
1983	0.1	42.2	8.1	(s)	4.1	4.9	1.6	18.7	61.0	70.9	131.9
1984	0.2	48.9	8.7	(s)	2.1	6.8	1.2	18.9	68.0	103.4	171.4
1985	**0.5**	**46.0**	**9.8**	**(s)**	**[R] 3.9**	**4.8**	**0.5**	**[R] 18.9**	**[R] 65.4**	**111.5**	**[R] 176.9**
1986	0.6	39.8	5.8	(s)	[R] 4.6	5.4	0.1	[R] 16.0	[R] 56.4	96.7	[R] 153.1
1987	0.1	34.6	10.2	(s)	[R] 6.8	4.9	0.1	[R] 22.1	[R] 56.8	97.4	[R] 154.1
1988	0.1	34.4	7.6	(s)	[R] 4.9	4.9	0.3	[R] 17.8	[R] 52.3	106.0	[R] 158.3
1989	0.1	35.2	5.7	(s)	[R] 6.8	5.3	0.3	[R] 18.1	[R] 53.4	108.1	[R] 161.4
1990	**0.1**	**35.9**	**6.6**	**(s)**	**[R] 10.8**	**3.8**	**0.4**	**[R] 21.6**	**[R] 57.6**	**[R] 111.8**	**[R] 169.4**
1991	0.1	38.3	5.4	(s)	[R] 5.9	2.5	0.5	[R] 14.3	[R] 52.7	[R] 119.7	[R] 172.3
1992	(s)	38.2	6.6	(s)	[R] 5.2	2.5	0.5	[R] 14.8	[R] 53.0	[R] 119.1	[R] 172.2
1993	(s)	46.7	6.4	(s)	[R] 7.9	0.5	(s)	[R] 14.9	[R] 61.7	[R] 124.2	[R] 185.9
1994	0.3	44.7	6.6	(s)	[R] 6.6	0.5	0.1	[R] 13.8	[R] 58.8	[R] 142.7	[R] 201.5
1995	**0.1**	**42.6**	**8.1**	**(s)**	**7.2**	**0.5**	**(s)**	**15.8**	**58.6**	**152.2**	**210.7**

[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.
(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 260. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, South Dakota

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.49**	**0.49**	**0.32**	**0.76**	**0.73**	**0.78**	**1.13**	**5.08**	**2.97**	**0.70**	**—**	**1.56**	**—**	**1.34**	**4.72**	**1.42**
1971	—	0.53	0.53	0.35	0.82	0.72	0.78	1.16	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	2.61	0.78	—	1.33	—	1.17	5.11	1.27
1973	—	0.62	0.62	0.41	0.91	0.94	1.02	1.25	5.33	3.09	0.97	—	1.69	—	1.51	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	—	2.56	5.57	2.67
1975	**—**	**1.04**	**1.04**	**0.60**	**2.09**	**2.57**	**2.74**	**2.28**	**7.48**	**4.70**	**2.02**	**—**	**3.15**	**—**	**2.63**	**6.00**	**2.95**
1976	—	1.23	1.23	0.73	2.03	2.71	2.91	2.44	7.05	4.89	1.90	—	3.24	—	2.47	6.76	2.92
1977	—	1.34	1.34	0.96	2.10	2.82	3.04	3.03	6.97	5.12	2.14	—	3.48	—	2.76	7.02	3.24
1978	—	1.42	1.42	1.60	2.17	3.16	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	4.60	4.07	10.21	7.44	2.27	—	4.80	—	4.47	8.28	4.85
1980	**—**	**1.79**	**1.79**	**2.35**	**3.82**	**5.65**	**5.92**	**4.36**	**14.36**	**10.14**	**3.34**	**—**	**6.44**	**—**	**5.53**	**9.70**	**6.02**
1981	—	1.93	1.93	3.02	5.42	6.58	6.93	4.32	18.00	11.22	3.92	—	7.39	—	6.22	10.96	6.82
1982	—	1.73	1.73	3.90	4.45	6.39	6.76	5.17	17.25	10.72	3.86	—	6.90	—	5.69	12.96	6.51
1983	—	1.92	1.92	4.41	4.74	6.67	6.82	5.67	16.98	9.53	3.98	—	6.99	—	6.03	12.79	6.98
1984	—	2.08	2.08	4.60	4.95	6.61	6.99	5.55	17.63	9.32	4.60	—	6.74	—	5.79	12.49	6.49
1985	**—**	**2.42**	**2.42**	**4.11**	**5.06**	**6.28**	**6.65**	**[R] 8.66**	**17.61**	**9.26**	**4.44**	**—**	**[R] 6.64**	**—**	**[R] 5.63**	**12.34**	**[R] 6.35**
1986	—	1.96	1.96	3.53	3.99	4.06	4.30	[R] 8.58	15.59	6.83	2.33	—	[R] 4.72	—	[R] 4.25	12.59	[R] 5.24
1987	—	1.85	1.85	3.04	3.73	4.54	4.81	[R] 8.15	[R] 13.58	7.16	2.84	—	[R] 5.15	—	[R] 4.52	13.41	[R] 5.67
1988	—	1.76	1.76	3.12	3.58	4.16	4.41	[R] 8.04	[R] 14.62	7.46	2.35	—	[R] 4.62	—	[R] 4.12	13.51	[R] 5.38
1989	—	1.76	1.76	3.04	3.14	4.72	4.99	[R] 7.41	14.48	8.51	2.15	—	[R] 5.50	—	[R] 4.71	13.82	[R] 5.89
1990	**—**	**1.79**	**1.79**	**3.73**	**3.24**	**5.81**	**6.15**	**[R] 9.74**	**14.60**	**9.40**	**2.61**	**—**	**[R] 6.52**	**[d] 1.63**	**[d R] 5.50**	**[R] 13.65**	**[d R] 6.60**
1991	—	1.73	1.73	3.25	3.24	5.17	5.48	[R] 8.68	[R] 16.80	8.92	2.33	16.33	[R] 5.48	1.63	[R] 4.55	13.58	[R] 5.89
1992	—	1.67	1.67	3.58	2.71	5.11	5.41	[R] 8.04	[R] 18.32	8.65	2.28	24.75	[R] 5.19	1.63	[R] 4.45	[R] 13.65	[R] 5.84
1993	—	1.69	1.69	3.71	3.06	4.96	5.25	[R] 9.19	[R] 18.96	8.78	2.41	19.10	[R] 5.63	1.63	[R] 4.71	[R] 13.48	[R] 5.97
1994	—	1.69	1.69	3.68	3.12	4.81	5.10	[R] 7.07	[R] 19.11	8.85	2.34	24.75	[R] 5.20	1.63	[R] 4.27	[R] 13.22	[R] 5.43
1995	**—**	**1.27**	**1.27**	**3.39**	**3.34**	**4.82**	**5.10**	**7.42**	**19.40**	**9.07**	**2.36**	**23.89**	**5.32**	**1.63**	**4.22**	**12.97**	**5.37**
	Expenditures in Million Nominal Dollars																
1970	**—**	**(s)**	**(s)**	**2.2**	**4.5**	**9.9**	**(s)**	**1.3**	**0.4**	**34.5**	**0.2**	**—**	**50.7**	**—**	**53.0**	**4.5**	**57.5**
1971	—	(s)	(s)	1.9	5.3	9.8	(s)	1.3	0.5	30.9	0.1	—	47.9	—	49.9	4.8	54.6
1972	—	(s)	(s)	2.4	5.8	9.7	(s)	2.0	0.6	23.5	0.3	—	42.0	—	44.4	5.0	49.3
1973	—	(s)	(s)	2.2	7.5	10.7	(s)	2.4	1.0	33.6	0.3	—	55.6	—	57.9	5.7	63.6
1974	—	0.1	0.1	3.9	10.3	21.8	(s)	4.9	1.4	43.1	0.5	—	81.9	—	85.9	6.8	92.7
1975	**—**	**1.2**	**1.2**	**3.5**	**11.9**	**24.5**	**(s)**	**4.5**	**0.9**	**40.1**	**0.7**	**—**	**82.6**	**—**	**87.3**	**20.4**	**107.6**
1976	—	3.9	3.9	5.9	9.9	19.1	1.7	6.5	1.0	36.8	1.2	—	76.1	—	85.8	27.4	113.2
1977	—	4.3	4.3	6.7	7.8	16.2	1.4	15.1	0.2	38.7	1.6	—	81.1	—	92.1	30.0	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	30.7	144.8
1979	—	1.5	1.5	7.0	13.5	67.6	0.6	16.5	0.2	64.7	1.3	—	164.5	—	172.9	35.9	208.8
1980	**—**	**4.4**	**4.4**	**11.0**	**16.1**	**54.0**	**0.2**	**17.5**	**0.3**	**78.5**	**2.0**	**—**	**168.5**	**—**	**183.9**	**43.8**	**227.6**
1981	—	6.1	6.1	12.1	19.0	60.9	0.4	10.0	0.4	71.6	3.5	—	165.8	—	183.9	46.9	230.8
1982	—	9.9	9.9	15.2	18.9	64.6	0.2	19.9	0.3	63.6	0.9	—	168.2	—	193.4	56.6	250.0
1983	—	6.9	6.9	16.9	16.8	56.0	0.3	17.5	0.3	60.0	1.8	—	152.7	—	176.5	60.6	237.0
1984	—	8.1	8.1	19.7	26.5	60.0	0.4	5.6	0.4	44.4	1.4	—	138.6	—	166.4	42.2	208.7
1985	**—**	**11.7**	**11.7**	**14.6**	**28.3**	**61.1**	**0.2**	**[R] 12.1**	**0.3**	**33.8**	**0.4**	**—**	**[R] 136.3**	**—**	**[R] 162.5**	**42.9**	**[R] 205.4**
1986	—	8.2	8.2	11.9	21.6	60.1	0.3	[R] 17.2	0.3	21.3	0.8	—	[R] 121.5	—	[R] 141.6	56.5	[R] 198.1
1987	—	7.4	7.4	10.1	16.7	63.3	0.1	[R] 23.3	0.3	23.7	0.8	—	[R] 128.3	—	[R] 145.8	64.1	[R] 209.9
1988	—	6.1	6.1	14.8	20.8	64.6	0.1	[R] 13.2	0.3	21.3	0.8	—	[R] 121.2	—	[R] 142.1	72.0	[R] 214.1
1989	—	7.8	7.8	15.3	16.2	56.2	0.2	[R] 52.8	0.3	24.2	0.6	—	[R] 150.3	—	[R] 173.5	76.0	[R] 249.5
1990	**—**	**6.9**	**6.9**	**22.0**	**17.0**	**69.3**	**0.1**	**[R] 57.6**	**0.3**	**24.0**	**0.6**	**—**	**[R] 168.9**	**[d R] 0.8**	**[d R] 198.5**	**[R] 77.1**	**[d R] 275.7**
1991	—	8.7	8.7	15.4	16.5	70.5	0.1	[R] 16.7	0.3	22.7	0.5	1.6	[R] 128.9	0.8	[R] 153.8	80.0	[R] 233.8
1992	—	7.7	7.7	16.3	15.9	65.0	0.1	[R] 21.2	0.4	19.5	1.6	2.6	[R] 126.3	0.8	[R] 151.0	[R] 82.8	[R] 233.8
1993	—	9.8	9.8	18.7	13.1	72.8	(s)	[R] 32.2	0.4	24.9	1.8	2.2	[R] 147.3	0.8	[R] 176.6	[R] 84.9	[R] 261.5
1994	—	13.2	13.2	20.5	13.0	79.2	(s)	[R] 19.4	0.4	21.5	1.2	2.9	[R] 137.7	0.8	[R] 172.2	[R] 79.5	[R] 251.7
1995	**—**	**8.6**	**8.6**	**23.8**	**18.2**	**66.8**	**0.1**	**17.5**	**0.4**	**25.4**	**0.2**	**2.8**	**131.4**	**0.8**	**164.6**	**76.2**	**240.9**

[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 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.
(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 261. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, South Dakota

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.49**	**—**	**2.17**	**1.32**	**0.75**	**1.13**	**5.08**	**2.97**	**0.65**	**2.56**	**2.56**	**—**	**2.56**
1971	0.53	—	2.21	1.31	0.78	1.16	5.27	2.88	0.77	2.47	2.47	—	2.47
1972	0.55	—	2.19	1.35	0.78	1.18	5.58	2.61	—	2.34	2.34	—	2.34
1973	0.62	—	2.36	1.65	0.93	1.25	5.33	3.09	—	2.74	2.74	—	2.74
1974	0.97	—	3.23	2.60	1.60	2.23	7.22	4.20	—	3.78	3.78	—	3.78
1975	**1.04**	**—**	**3.45**	**2.72**	**2.09**	**2.28**	**7.48**	**4.70**	**1.82**	**4.23**	**4.23**	**—**	**4.23**
1976	1.23	—	3.59	2.92	2.26	2.44	7.05	4.89	1.71	4.41	4.41	—	4.41
1977	1.34	—	3.97	3.38	2.69	3.03	6.97	5.12	1.85	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	—	6.65	6.65	—	6.65
1980	**—**	**—**	**9.02**	**7.12**	**6.47**	**4.36**	**14.36**	**10.14**	**—**	**9.21**	**9.21**	**—**	**9.21**
1981	—	—	10.84	8.42	7.60	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	6.98	5.67	16.98	9.53	—	8.89	8.89	—	8.89
1984	—	—	10.27	7.20	6.60	5.55	17.63	9.32	—	8.73	8.73	—	8.73
1985	**—**	**—**	**9.99**	**6.93**	**6.29**	**[R] 8.66**	**17.61**	**9.26**	**—**	**8.64**	**8.64**	**—**	**8.64**
1986	—	—	8.41	6.38	4.57	[R] 8.58	15.59	6.83	—	6.77	6.77	—	6.77
1987	—	—	7.55	6.83	4.39	[R] 8.15	[R] 13.58	7.16	—	[R] 7.03	[R] 7.03	—	[R] 7.03
1988	—	—	7.41	6.66	4.36	[R] 8.04	[R] 14.62	7.46	—	7.17	7.17	—	7.17
1989	—	—	8.28	7.44	4.76	[R] 7.41	14.48	8.51	2.07	8.05	8.05	—	8.05
1990	**—**	**—**	**9.32**	**8.57**	**6.21**	**[R] 9.74**	**14.60**	**9.40**	**1.82**	**9.01**	**9.01**	**—**	**9.01**
1991	—	4.06	8.71	8.34	5.36	[R] 8.68	[R] 16.80	8.92	—	8.78	8.78	—	8.78
1992	—	4.02	8.54	8.25	5.16	[R] 8.04	[R] 18.32	8.65	—	[R] 8.34	[R] 8.34	—	[R] 8.34
1993	—	4.14	8.24	8.01	4.90	[R] 9.19	[R] 18.96	8.78	—	8.38	8.38	—	8.38
1994	—	3.14	7.96	7.92	4.58	[R] 9.02	[R] 19.11	8.85	—	8.35	8.35	—	8.35
1995	**—**	**3.84**	**8.36**	**7.89**	**4.54**	**9.37**	**19.40**	**9.07**	**—**	**8.44**	**8.44**	**—**	**8.44**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**1.1**	**7.1**	**4.7**	**0.2**	**4.7**	**119.3**	**(s)**	**137.2**	**137.2**	**—**	**137.2**
1971	(s)	—	0.9	9.8	5.1	0.3	4.7	123.2	(s)	144.1	144.1	—	144.1
1972	(s)	—	1.0	8.2	4.8	0.3	5.4	123.7	—	143.3	143.3	—	143.3
1973	(s)	—	0.9	12.4	5.4	0.3	5.2	144.0	—	168.1	168.1	—	168.1
1974	(s)	—	1.4	18.7	9.5	0.4	6.8	191.4	—	228.3	228.3	—	228.3
1975	**(s)**	**—**	**1.3**	**21.1**	**11.9**	**0.5**	**6.3**	**220.8**	**(s)**	**262.1**	**262.1**	**—**	**262.1**
1976	(s)	—	1.3	26.5	12.4	0.4	6.6	242.6	(s)	289.8	289.8	—	289.8
1977	(s)	—	1.6	31.5	15.8	0.5	6.6	263.2	(s)	319.2	319.2	—	319.2
1978	—	—	1.7	36.4	21.0	0.5	7.7	269.3	(s)	336.5	336.5	—	336.5
1979	—	—	2.4	67.8	29.0	0.9	10.8	353.7	—	464.5	464.5	—	464.5
1980	**—**	**—**	**4.4**	**82.0**	**46.0**	**1.1**	**13.6**	**434.3**	**—**	**581.3**	**581.3**	**—**	**581.3**
1981	—	—	5.6	89.3	46.6	0.9	16.3	466.0	—	624.8	624.8	—	624.8
1982	—	—	5.9	99.8	44.1	1.0	14.3	442.4	—	607.5	607.5	—	607.5
1983	—	—	5.2	89.4	36.1	1.3	14.7	383.1	—	529.7	529.7	—	529.7
1984	—	—	4.4	101.4	36.5	0.6	16.3	383.9	—	543.0	543.0	—	543.0
1985	**—**	**—**	**4.4**	**91.8**	**34.6**	**[R] 0.8**	**15.2**	**412.7**	**—**	**[R] 559.4**	**[R] 559.4**	**—**	**[R] 559.4**
1986	—	—	3.6	80.6	12.9	0.8	13.1	296.3	—	407.3	407.3	—	407.3
1987	—	—	3.1	88.7	16.0	[R] 1.4	[R] 12.9	310.0	—	[R] 431.9	[R] 431.9	—	[R] 431.9
1988	—	—	3.3	87.2	20.6	[R] 0.6	13.4	333.6	—	[R] 458.7	[R] 458.7	—	[R] 458.7
1989	—	—	3.7	97.2	26.3	0.5	13.6	378.2	(s)	[R] 519.6	[R] 519.6	—	[R] 519.6
1990	**—**	**—**	**4.4**	**121.5**	**36.8**	**0.8**	**14.1**	**413.5**	**(s)**	**[R] 591.2**	**[R] 591.2**	**—**	**[R] 591.2**
1991	—	(s)	2.7	121.0	10.8	0.4	14.6	402.1	—	[R] 551.6	551.6	—	551.6
1992	—	(s)	2.7	128.5	35.4	0.5	[R] 16.2	402.8	—	[R] 586.2	[R] 586.2	—	[R] 586.2
1993	—	(s)	2.2	132.0	31.6	0.8	[R] 17.1	415.5	—	[R] 599.2	[R] 599.2	—	[R] 599.2
1994	—	(s)	1.9	153.1	32.3	[R] 1.3	18.0	435.6	—	[R] 642.2	642.3	—	642.3
1995	**—**	**(s)**	**2.0**	**154.8**	**36.1**	**0.5**	**17.9**	**451.0**	**—**	**662.2**	**662.2**	**—**	**662.2**

[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.
(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 262. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, South Dakota

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.35**	**0.33**	**0.70**	**0.97**	**—**	**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	—	—	0.48
1973	0.38	0.40	0.79	1.25	—	0.84	—	—	0.44
1974	0.47	0.47	1.66	2.11	—	1.74	—	—	0.54
1975	**0.48**	**0.64**	**2.19**	**2.29**	**—**	**2.22**	**—**	**—**	**0.58**
1976	0.53	0.86	1.69	2.57	—	1.80	—	—	0.58
1977	0.55	1.20	1.84	3.00	—	2.10	—	—	0.60
1978	0.61	1.54	2.02	3.02	—	2.37	—	—	0.68
1979	0.66	1.90	2.22	4.24	—	3.07	—	—	0.72
1980	**0.76**	**1.97**	**3.07**	**6.50**	**—**	**6.03**	**—**	**—**	**0.83**
1981	0.94	2.26	4.63	7.88	—	7.83	—	—	1.01
1982	1.15	3.76	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**	**3.99**	**5.81**	**—**	**5.75**	**—**	**—**	**1.22**
1986	1.24	3.49	2.33	3.68	—	3.64	—	—	1.27
1987	1.23	2.43	2.39	4.34	—	4.23	—	—	1.28
1988	1.21	2.28	2.06	4.02	—	3.65	—	—	1.25
1989	1.24	2.58	—	4.50	—	4.50	—	—	1.27
1990	**1.15**	**2.60**	**—**	**5.65**	**—**	**5.65**	**—**	**—**	**1.19**
1991	1.13	1.76	—	4.88	—	4.88	—	—	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
1995	**1.03**	**1.58**	**—**	**3.98**	**—**	**3.98**	**—**	**—**	**1.07**
	Expenditures in Million Nominal Dollars								
1970	**1.8**	**1.5**	**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**	**—**	**—**	**16.0**
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	(s)	2.0	1.5	—	3.5	—	—	24.8
1979	22.4	0.2	1.2	1.6	—	2.8	—	—	25.5
1980	**25.8**	**0.5**	**0.2**	**2.2**	**—**	**2.4**	**—**	**—**	**28.7**
1981	30.2	0.1	(s)	2.5	—	2.5	—	—	32.8
1982	35.4	0.1	(s)	2.0	—	2.1	—	—	37.5
1983	32.0	0.2	(s)	1.4	—	1.4	—	—	33.5
1984	36.4	0.2	(s)	0.9	—	0.9	—	—	37.6
1985	**34.8**	**0.1**	**(s)**	**1.3**	**—**	**1.3**	**—**	**—**	**36.2**
1986	30.5	0.1	(s)	0.8	—	0.8	—	—	31.5
1987	12.9	0.2	(s)	0.5	—	0.6	—	—	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**	**0.6**	**—**	**1.1**	**—**	**1.1**	**—**	**—**	**34.4**
1991	35.1	0.3	—	1.0	—	1.0	—	—	36.4
1992	32.8	0.1	—	0.5	—	0.5	—	—	33.5
1993	31.4	0.4	—	0.9	—	0.9	—	—	32.7
1994	33.7	0.4	—	1.2	—	1.2	—	—	35.3
1995	**30.7**	**1.5**	**—**	**1.1**	**—**	**1.1**	**—**	**—**	**33.2**

[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 263. Energy Price and Expenditure Estimates by Source, 1970-1995, Tennessee

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**	**0.25**	**0.26**	**0.54**	**1.11**	**0.73**	**1.92**	**2.84**	**0.36**	**R 1.21**	**R 2.10**	**—**	**—**	**R 1.03**	**0.23**	**2.85**	**R 1.73**
1971	0.44	0.35	0.35	0.59	1.16	0.76	1.87	2.84	0.49	R 1.35	R 2.18	—	—	1.13	0.32	3.38	R 1.91
1972	0.57	0.38	0.38	0.65	1.19	0.76	2.08	2.84	0.46	R 1.40	R 2.19	—	—	R 1.14	0.36	3.36	R 1.93
1973	0.66	0.40	0.40	0.65	1.44	0.90	3.21	3.00	0.67	R 1.47	R 2.37	—	—	R 1.19	0.38	3.53	R 2.06
1974	1.23	0.57	0.58	0.77	2.48	1.56	3.22	4.06	1.74	R 2.60	R 3.39	—	—	R 1.74	0.51	4.27	R 2.80
1975	**1.60**	**0.91**	**0.91**	**0.93**	**2.68**	**2.03**	**3.44**	**4.58**	**1.78**	**R 3.04**	**R 3.82**	**—**	**—**	**2.13**	**0.89**	**5.83**	**R 3.56**
1976	1.67	0.93	0.93	1.29	2.71	2.18	3.75	4.77	1.89	R 3.12	R 3.86	—	—	2.21	0.95	6.38	R 3.83
1977	1.76	1.05	1.06	1.69	3.03	2.55	4.48	5.13	2.04	R 3.16	R 4.13	—	—	2.49	1.10	6.81	R 4.17
1978	1.89	1.21	1.22	1.77	3.16	2.88	4.25	5.35	2.08	R 3.40	R 4.32	—	—	R 2.70	1.28	8.49	R 4.70
1979	1.75	1.36	1.36	2.17	4.61	3.90	5.24	7.13	2.48	R 4.71	R 5.86	—	—	R 3.45	1.38	9.72	R 5.72
1980	**1.81**	**1.54**	**1.54**	**2.69**	**6.80**	**6.39**	**6.42**	**9.89**	**3.36**	**R 6.75**	**R 8.44**	**0.38**	**—**	**R 4.44**	**1.57**	**10.67**	**R 7.33**
1981	2.03	1.71	1.71	3.24	8.10	7.67	7.65	11.13	4.27	R 8.82	R 9.87	0.42	—	R 4.98	1.63	12.96	R 8.56
1982	2.04	1.73	1.74	4.04	7.82	7.42	7.99	10.40	4.34	R 7.56	R 9.28	0.40	—	4.87	1.47	15.15	R 8.97
1983	1.58	1.69	1.69	4.62	6.84	6.44	8.04	9.01	4.38	R 7.61	R 8.19	0.50	—	R 4.24	1.42	14.48	R 8.30
1984	1.91	1.62	1.62	4.40	6.85	6.14	8.44	8.72	4.90	R 7.41	R 7.98	0.65	—	4.28	1.41	14.11	R 8.11
1985	**1.93**	**1.55**	**1.55**	**4.46**	**6.58**	**5.83**	**R 9.19**	**8.85**	**4.80**	**R 7.09**	**7.92**	**0.78**	**—**	**4.27**	**1.41**	**14.65**	**8.18**
1986	1.75	1.44	1.44	4.20	5.88	3.81	R 8.86	7.01	2.83	R 5.50	R 6.38	—	—	3.88	1.43	15.59	R 7.51
1987	1.63	1.38	1.38	3.69	6.24	4.01	R 8.91	7.44	2.88	R 5.16	R 6.69	—	—	R 3.96	1.38	15.98	R 7.69
1988	1.70	1.35	1.35	3.75	5.99	3.82	R 9.11	7.43	2.64	R 4.87	R 6.60	0.83	—	R 3.76	1.30	16.19	R 7.73
1989	1.74	1.35	1.36	3.87	6.61	4.34	R 9.59	8.25	2.68	R 4.90	R 7.21	0.89	—	3.87	1.23	15.91	R 8.01
1990	**1.83**	**1.35**	**1.35**	**3.98**	**7.93**	**5.58**	**R 11.09**	**9.40**	**3.14**	**R 5.40**	**R 8.27**	**0.84**	**d R 2.31**	**d R 4.21**	**1.24**	**R 15.58**	**d R 8.48**
1991	1.80	1.28	1.28	3.91	7.39	4.82	R 9.88	9.00	2.34	R 5.44	R 7.90	0.85	2.32	3.98	1.15	15.29	R 8.23
1992	—	1.30	1.30	4.14	7.23	4.56	R 8.73	8.92	2.51	R 5.08	R 7.72	0.94	2.35	R 4.03	1.20	15.28	R 8.12
1993	—	1.28	1.28	4.48	7.20	4.19	R 9.52	8.78	2.67	R 5.07	R 7.59	0.95	2.20	R 4.17	1.25	15.33	R 8.11
1994	—	1.28	1.28	4.66	7.04	3.92	R 10.28	8.83	2.86	R 5.03	R 7.52	1.00	R 2.12	R 4.15	1.22	15.35	R 8.16
1995	**—**	**1.19**	**1.19**	**4.23**	**7.06**	**3.93**	**10.33**	**8.99**	**2.40**	**5.29**	**7.66**	**0.58**	**2.10**	**3.97**	**1.04**	**15.30**	**8.11**
	Expenditures in Million Nominal Dollars																
1970	**2.5**	**100.7**	**103.1**	**123.6**	**70.8**	**13.6**	**23.0**	**625.1**	**1.1**	**R 92.2**	**R 825.8**	**—**	**—**	**R 1,052.6**	**-80.9**	**504.6**	**R 1,476.2**
1971	2.7	126.5	129.2	140.2	78.1	14.3	22.4	665.0	0.4	R 88.7	R 868.9	—	—	R 1,138.3	-106.0	594.0	R 1,626.3
1972	3.6	164.7	168.3	164.9	99.6	14.7	27.3	721.0	0.8	R 91.5	R 954.8	—	—	R 1,288.0	-143.3	635.2	R 1,780.0
1973	4.6	208.5	213.1	172.9	133.0	19.3	45.7	825.6	0.6	R 110.8	R 1,135.1	—	—	R 1,521.1	-184.0	745.9	R 2,083.0
1974	7.5	266.2	273.7	181.3	234.3	33.7	41.4	1,102.2	5.1	R 163.3	R 1,580.0	—	—	R 2,035.0	-205.8	898.2	R 2,727.4
1975	**8.9**	**422.1**	**431.0**	**186.1**	**272.8**	**45.1**	**48.8**	**1,292.7**	**4.3**	**R 190.7**	**R 1,854.4**	**—**	**—**	**R 2,471.4**	**-376.4**	**1,357.0**	**R 3,452.0**
1976	9.8	515.2	525.0	256.5	347.5	50.5	52.2	1,409.5	26.2	R 225.3	R 2,111.4	—	—	R 2,892.8	-492.9	1,578.4	R 3,978.3
1977	14.1	571.6	585.7	323.9	426.0	63.1	57.9	1,553.2	32.3	R 261.4	R 2,393.9	—	—	R 3,303.5	-553.9	1,739.2	R 4,488.8
1978	13.3	676.6	689.9	303.2	504.8	76.3	56.8	1,686.5	18.6	R 298.9	R 2,641.8	—	—	R 3,634.8	-663.4	2,086.6	R 5,058.1
1979	10.8	728.8	739.6	453.8	649.1	107.8	57.7	2,140.8	33.0	R 404.4	R 3,392.8	—	—	R 4,586.2	-644.5	2,413.5	R 6,355.2
1980	**5.0**	**883.2**	**888.2**	**570.9**	**759.3**	**149.8**	**65.3**	**2,853.4**	**28.2**	**R 496.2**	**R 4,352.2**	**2.1**	**—**	**R 5,813.5**	**-804.8**	**2,656.5**	**R 7,665.2**
1981	9.2	961.0	970.2	659.0	921.5	150.8	42.0	3,192.2	26.9	R 573.0	R 4,906.5	21.6	—	R 6,557.2	-863.9	3,102.4	R 8,795.7
1982	6.8	810.3	817.2	767.8	857.2	95.5	65.7	2,978.9	15.3	R 488.8	R 4,501.5	44.6	—	R 6,131.0	-739.5	3,353.0	R 8,744.5
1983	6.9	919.2	926.2	849.5	802.1	74.5	66.9	2,548.1	20.0	R 430.6	R 3,942.1	76.6	—	R 5,794.4	-844.6	3,390.2	R 8,340.0
1984	7.4	892.0	899.5	854.9	876.0	125.9	67.2	2,629.7	12.8	R 462.8	R 4,174.4	88.7	—	R 6,017.6	-827.8	3,428.6	R 8,618.3
1985	**8.0**	**921.3**	**929.3**	**813.4**	**853.7**	**160.1**	**R 74.9**	**2,698.2**	**9.6**	**R 460.5**	**R 4,256.9**	**81.1**	**—**	**R 6,080.7**	**-846.9**	**3,409.7**	**R 8,643.5**
1986	5.1	867.9	873.1	742.6	774.8	127.8	R 85.7	2,221.8	7.1	R 400.7	R 3,618.0	—	—	R 5,233.7	-716.0	3,559.5	R 8,077.1
1987	3.3	819.0	822.3	689.5	821.3	129.0	R 84.5	2,460.3	4.4	R 388.3	R 3,887.9	—	—	R 5,399.7	-682.9	3,754.3	R 8,471.1
1988	3.6	818.8	822.4	747.2	822.1	91.3	R 102.7	2,316.9	5.5	R 365.8	R 3,704.2	34.9	—	R 5,308.7	-718.6	3,975.4	R 8,565.5
1989	3.6	761.6	765.2	797.6	898.8	106.8	R 120.9	2,600.6	5.7	R 414.1	R 4,146.9	149.2	—	R 5,858.9	-773.6	4,030.7	R 9,116.1
1990	**3.3**	**809.6**	**812.8**	**804.8**	**1,103.3**	**131.7**	**R 115.3**	**2,846.3**	**4.6**	**R 472.1**	**R 4,673.4**	**125.9**	**d R 40.7**	**d R 6,457.7**	**-803.6**	**R 4,054.4**	**d R 9,708.4**
1991	0.9	724.2	725.0	829.9	974.2	92.9	R 113.7	2,655.2	4.0	R 464.3	R 4,304.2	151.1	R 43.6	R 6,053.9	-745.1	R 4,041.5	R 9,350.3
1992	—	765.0	765.0	938.5	1,012.2	115.3	R 149.8	2,746.7	4.5	R 444.0	R 4,472.6	156.4	R 44.5	R 6,376.9	-791.8	R 4,041.0	R 9,626.1
1993	—	880.2	880.2	1,065.2	1,005.8	155.5	R 121.7	2,821.4	6.1	R 433.9	R 4,544.5	33.6	R 38.1	R 6,561.6	-782.1	4,116.3	R 9,895.8
1994	—	798.7	798.7	1,070.5	1,017.3	172.3	R 129.0	2,917.4	5.4	R 459.6	R 4,700.9	127.7	R 39.1	R 6,736.9	-792.0	R 4,264.5	R 10,209.3
1995	**—**	**796.2**	**796.2**	**1,017.3**	**1,125.1**	**180.5**	**127.0**	**3,062.8**	**3.0**	**469.8**	**4,968.2**	**96.9**	**44.0**	**6,922.6**	**-768.2**	**4,224.3**	**10,378.6**

[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 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 264. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Tennessee

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**0.74**	**0.89**	**1.24**	**1.62**	**2.16**	**1.82**	**—**	**1.15**	**3.34**	**2.15**
1971	0.95	0.95	1.36	1.61	2.05	1.78	—	1.19	3.92	2.43
1972	1.06	1.00	1.37	1.67	2.32	1.97	—	1.25	3.90	2.45
1973	1.03	1.06	1.55	1.90	3.87	2.79	—	1.59	4.16	2.85
1974	1.85	1.15	2.41	3.16	3.51	3.28	—	1.79	5.03	3.42
1975	**1.75**	**1.25**	**2.49**	**3.38**	**3.84**	**3.56**	**—**	**1.93**	**6.62**	**4.46**
1976	1.75	1.57	2.77	3.46	4.13	3.70	—	2.23	7.26	4.96
1977	1.99	2.03	3.20	3.83	4.96	4.28	—	2.70	7.36	5.38
1978	1.89	2.08	3.36	4.24	4.68	4.34	—	2.77	8.57	6.19
1979	1.51	2.29	4.62	6.61	6.40	6.16	—	3.06	9.73	6.97
1980	**1.97**	**2.85**	**6.89**	**9.09**	**7.65**	**7.95**	**—**	**3.73**	**10.43**	**7.79**
1981	2.38	3.38	8.54	11.11	9.06	9.91	—	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	9.71	9.04	9.11	—	5.61	14.31	10.85
1984	2.07	4.92	8.12	8.73	9.71	9.02	—	5.55	14.01	10.66
1985	**1.85**	**4.96**	**6.59**	**7.09**	**9.23**	**7.95**	**—**	**5.44**	**14.28**	**10.97**
1986	1.67	4.81	5.30	5.71	8.96	7.76	—	5.24	15.26	11.63
1987	1.79	4.53	5.25	5.65	9.09	7.55	—	4.99	16.03	11.96
1988	1.52	4.51	5.53	5.95	9.06	7.67	—	5.00	16.74	12.11
1989	1.61	4.68	5.90	6.35	10.25	8.63	—	5.33	16.65	12.11
1990	**1.77**	**4.94**	**6.59**	**7.09**	**11.90**	**10.19**	**[d] 3.53**	**[d] 5.44**	**16.68**	**[d] 11.36**
1991	1.75	5.02	6.12	6.58	10.57	9.28	3.53	5.40	[R] 16.55	11.20
1992	1.61	5.33	5.21	5.61	9.41	8.15	3.53	5.50	16.71	[R] 11.15
1993	1.79	5.50	5.30	5.70	9.61	8.51	3.53	5.72	16.87	11.43
1994	1.77	5.94	5.53	5.95	[R] 11.83	[R] 9.67	3.53	[R] 6.28	17.23	[R] 12.14
1995	**1.50**	**5.60**	**5.42**	**5.83**	**11.72**	**9.74**	**3.53**	**5.95**	**17.33**	**11.74**
	Expenditures in Million Nominal Dollars									
1970	**3.3**	**42.5**	**1.2**	**18.6**	**18.9**	**38.7**	**—**	**84.5**	**204.2**	**288.7**
1971	4.6	45.9	1.4	18.7	18.0	38.1	—	88.6	243.0	331.6
1972	3.8	55.1	1.7	15.2	22.8	39.7	—	98.5	254.0	352.5
1973	3.3	49.6	2.2	19.7	40.1	61.9	—	114.8	289.7	404.4
1974	5.2	51.0	3.1	27.7	32.5	63.2	—	119.3	339.5	458.9
1975	**4.7**	**56.8**	**3.4**	**25.3**	**39.5**	**68.1**	**—**	**129.7**	**520.6**	**650.3**
1976	3.6	70.5	6.6	30.5	41.4	78.5	—	152.6	585.4	738.0
1977	3.9	91.2	7.2	32.4	45.5	85.0	—	180.1	665.0	845.1
1978	3.3	85.2	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	76.3	—	185.3	833.1	1,018.5
1980	**3.9**	**129.8**	**12.4**	**28.3**	**42.2**	**82.8**	**—**	**216.5**	**932.6**	**1,149.1**
1981	2.9	143.8	23.4	56.7	25.3	105.5	—	252.2	1,087.4	1,339.6
1982	2.6	181.6	19.0	33.6	38.7	91.4	—	275.5	1,216.3	1,491.9
1983	6.6	213.6	11.8	40.1	42.2	94.1	—	314.3	1,209.0	1,523.3
1984	5.4	222.0	13.4	43.6	40.5	97.5	—	324.9	1,253.9	1,578.8
1985	**2.7**	**202.0**	**9.9**	**29.7**	**40.2**	**79.8**	**—**	**284.5**	**1,244.6**	**1,529.1**
1986	1.1	199.9	5.1	10.7	46.5	62.2	—	263.2	1,347.6	1,610.8
1987	1.5	203.5	7.0	14.4	46.7	68.1	—	273.1	1,501.5	1,774.6
1988	2.5	221.7	7.3	21.1	58.0	86.4	—	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	1,957.0
1990	**3.4**	**236.8**	**9.1**	**13.0**	**74.0**	**96.1**	**[d] 25.3**	**[d] 361.7**	**[R] 1,636.6**	**[d R] 1,998.3**
1991	2.8	256.2	9.6	10.0	74.0	93.5	26.7	379.1	[R] 1,671.4	[R] 2,050.5
1992	2.2	287.2	7.9	11.5	71.5	90.8	28.1	408.2	[R] 1,681.8	[R] 2,090.1
1993	1.8	335.2	6.3	10.0	76.3	92.6	21.4	451.0	[R] 1,738.2	[R] 2,189.2
1994	1.4	351.5	9.7	14.8	[R] 90.8	[R] 115.4	21.0	[R] 489.2	[R] 1,927.9	[R] 2,417.2
1995	**1.9**	**346.2**	**8.9**	**12.3**	**90.4**	**111.6**	**23.3**	**483.0**	**1,831.5**	**2,314.5**

[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 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 265. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Tennessee

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.35**	**0.70**	**1.06**	**0.78**	**1.27**	**2.84**	**0.42**	**1.46**	**0.75**	**4.97**	**1.87**
1971	0.44	0.75	1.16	0.84	1.38	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	1.62	0.96	5.80	2.45
1974	1.07	0.96	2.16	2.16	2.50	4.06	1.66	2.68	1.22	6.67	2.94
1975	**1.17**	**1.09**	**2.29**	**2.32**	**2.39**	**4.58**	**1.77**	**2.88**	**1.38**	**8.27**	**3.48**
1976	1.01	1.39	2.56	2.47	2.77	4.77	1.76	2.99	1.70	8.87	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	1.98	3.07	3.17	3.47	5.35	1.91	3.63	2.33	11.05	6.71
1979	1.35	2.39	4.41	4.65	3.94	7.13	2.24	5.02	2.78	12.36	7.16
1980	**1.39**	**2.95**	**6.49**	**6.16**	**4.96**	**9.89**	**3.44**	**7.05**	**3.57**	**13.29**	**7.97**
1981	1.57	3.48	8.05	7.24	6.20	11.13	4.24	8.53	4.35	15.44	9.72
1982	1.68	4.32	7.57	8.35	6.28	10.40	4.06	8.00	4.95	18.77	11.87
1983	1.58	5.04	6.40	6.83	6.76	9.01	4.12	6.77	5.08	16.08	9.99
1984	1.59	4.75	6.46	8.16	7.04	8.72	4.90	6.93	5.09	16.55	8.81
1985	**1.60**	**4.75**	**6.12**	**7.77**	**[R] 9.14**	**8.85**	**4.80**	**[R] 6.47**	**[R] 5.18**	**17.05**	**9.04**
1986	1.54	4.53	3.74	5.01	[R] 8.75	7.01	2.83	[R] 4.65	[R] 4.49	17.96	9.40
1987	1.43	4.20	4.27	5.56	[R] 8.71	7.44	2.88	[R] 5.25	[R] 4.32	17.67	9.33
1988	1.40	4.25	3.86	5.14	[R] 9.18	7.43	2.62	[R] 5.25	4.30	18.03	9.30
1989	1.40	4.35	4.50	5.83	[R] 8.69	8.25	2.69	[R] 6.28	[R] 4.47	18.03	9.95
1990	**1.40**	**4.64**	**5.52**	**7.18**	**[R] 9.88**	**9.40**	**3.16**	**[R] 7.35**	**[R] 4.82**	**18.02**	**10.65**
1991	1.42	4.61	4.90	6.39	[R] 8.80	9.00	2.48	[R] 6.82	[R] 4.73	[R] 17.98	[R] 10.54
1992	1.41	4.91	4.72	6.34	[R] 8.18	8.92	2.67	[R] 5.94	[R] 4.93	[R] 19.38	[R] 9.19
1993	1.41	5.09	4.54	6.15	[R] 9.37	8.78	2.72	[R] 5.89	[R] 5.09	[R] 20.13	[R] 8.84
1994	1.41	5.39	4.33	[R] 5.98	[R] 8.22	8.83	2.87	[R] 5.17	[R] 5.26	[R] 19.94	8.96
1995	**1.42**	**5.02**	**4.34**	**5.99**	**8.25**	**8.99**	**2.40**	**5.38**	**4.93**	**19.96**	**8.76**
	Expenditures in Million Nominal Dollars										
1970	**2.9**	**30.4**	**2.6**	**1.8**	**2.0**	**5.9**	**(s)**	**12.2**	**45.6**	**107.8**	**153.4**
1971	3.9	33.8	2.9	1.9	2.1	5.5	(s)	12.4	50.1	128.9	179.0
1972	2.9	39.2	3.6	1.5	2.4	5.4	(s)	12.9	55.1	141.6	196.7
1973	2.7	41.8	4.7	1.9	2.7	5.9	(s)	15.2	59.8	160.5	220.2
1974	5.5	43.7	6.8	3.7	4.1	8.3	(s)	23.0	72.2	182.7	254.8
1975	**5.8**	**47.9**	**7.9**	**3.4**	**4.3**	**10.1**	**(s)**	**25.7**	**79.4**	**210.0**	**289.4**
1976	3.8	54.7	15.2	4.3	4.9	10.4	(s)	34.8	93.4	239.3	332.7
1977	4.1	72.8	16.4	4.7	5.4	11.4	0.1	37.9	114.9	338.4	453.3
1978	4.3	63.1	17.1	5.0	5.3	12.6	(s)	40.1	107.4	513.8	621.2
1979	3.8	105.4	24.0	4.0	4.0	16.0	(s)	48.1	157.4	587.9	745.3
1980	**5.1**	**132.1**	**38.4**	**3.6**	**4.8**	**24.2**	**1.0**	**72.0**	**209.2**	**644.5**	**853.7**
1981	3.5	151.1	52.5	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	74.2	7.4	5.6	25.0	3.2	115.4	348.6	888.0	1,236.6
1984	7.7	226.5	80.8	8.6	5.2	27.1	2.6	124.3	358.5	561.6	920.1
1985	**4.3**	**213.2**	**109.9**	**7.4**	**[R] 7.0**	**15.6**	**2.9**	**[R] 142.9**	**[R] 360.4**	**573.3**	**[R] 933.7**
1986	1.9	199.0	30.8	2.6	[R] 8.0	14.8	2.3	[R] 58.4	[R] 259.3	595.9	[R] 855.3
1987	2.2	191.1	28.9	4.0	[R] 7.9	14.6	1.2	[R] 56.5	[R] 249.9	614.9	[R] 864.8
1988	4.2	200.8	24.8	7.1	[R] 10.4	20.2	1.3	[R] 63.6	[R] 268.7	644.9	[R] 913.7
1989	4.8	213.3	17.4	5.1	[R] 11.2	22.3	0.9	[R] 56.9	[R] 275.1	753.0	[R] 1,028.1
1990	**4.8**	**209.0**	**20.5**	**2.8**	**[R] 10.8**	**22.7**	**0.7**	**[R] 57.5**	**[R] 271.4**	**[R] 803.8**	**[R] 1,075.2**
1991	3.9	218.7	17.2	1.1	[R] 10.9	19.8	0.3	[R] 49.2	[R] 271.8	[R] 804.8	[R] 1,076.6
1992	3.5	235.5	28.6	2.5	[R] 11.0	16.2	1.0	[R] 59.2	[R] 298.2	[R] 488.8	[R] 786.9
1993	2.5	267.5	24.8	2.1	[R] 13.1	9.4	0.6	[R] 49.9	[R] 320.0	[R] 419.2	[R] 739.2
1994	2.1	282.2	25.4	[R] 2.5	[R] 11.1	2.3	0.6	[R] 41.8	[R] 326.1	[R] 416.4	[R] 742.5
1995	**3.4**	**265.4**	**20.2**	**2.7**	**11.2**	**2.3**	**0.2**	**36.7**	**305.5**	**424.5**	**730.0**

[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.

(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 266. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Tennessee

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.78**	**1.27**	**5.08**	**2.84**	**0.36**	R **0.94**	R **0.91**	**—**	**0.54**	**2.05**	R **0.94**
1971	0.44	0.44	0.44	0.44	0.72	0.78	0.84	1.38	5.27	2.84	0.49	R 1.00	R 1.01	—	R 0.60	2.46	R 1.11
1972	0.57	0.44	0.46	0.49	0.77	0.78	0.84	1.36	5.58	2.84	0.45	R 1.00	R 1.02	—	0.64	2.45	R 1.13
1973	0.66	0.46	0.48	0.49	0.82	0.87	0.94	1.46	5.33	3.00	0.53	R 1.14	R 1.12	—	0.66	2.59	R 1.19
1974	1.23	1.07	1.09	0.60	1.39	2.00	2.16	2.50	7.22	4.06	1.76	R 2.32	R 2.15	—	R 1.14	3.25	R 1.75
1975	**1.60**	**1.17**	**1.22**	**0.73**	**1.79**	**2.11**	**2.32**	**2.39**	**7.48**	**4.58**	**1.89**	R **2.83**	R **2.41**	**—**	**1.38**	**4.87**	R **2.60**
1976	1.67	1.01	1.08	1.14	1.81	2.26	2.47	2.77	7.05	4.77	1.91	R 3.13	R 2.47	—	1.65	5.38	R 2.90
1977	1.76	1.15	1.22	1.45	1.97	2.74	2.84	3.31	6.97	5.13	2.05	R 3.45	R 2.74	—	R 1.93	5.69	R 3.06
1978	1.89	1.32	1.38	1.57	2.19	2.88	3.17	3.47	7.60	5.35	2.09	R 3.59	R 2.96	—	R 2.10	7.36	R 3.54
1979	1.75	1.35	1.39	2.04	2.57	3.65	4.65	3.94	10.21	7.13	2.52	R 4.87	R 3.88	—	R 2.60	8.63	R 4.21
1980	**1.81**	**1.39**	**1.41**	**2.54**	**3.56**	**5.50**	**6.16**	**4.96**	**14.36**	**9.89**	**3.36**	R **6.96**	R **5.71**	**—**	R **3.38**	**9.71**	R **5.14**
1981	2.03	1.57	1.60	3.10	4.81	6.62	7.24	6.20	18.00	11.13	4.31	R 8.76	R 7.31	—	R 3.87	11.71	R 5.94
1982	2.04	1.68	1.69	3.87	4.57	7.62	8.35	6.28	17.25	10.40	4.41	R 7.69	R 6.83	—	R 4.16	13.50	R 6.40
1983	1.58	1.58	1.58	4.21	4.57	6.70	6.83	6.76	16.98	9.01	4.44	R 7.01	R 6.54	—	R 3.86	13.70	R 6.47
1984	1.91	1.59	1.60	4.01	4.39	6.70	8.16	7.04	17.63	8.72	4.90	R 7.01	R 6.54	—	R 3.85	13.50	R 6.79
1985	**1.93**	**1.60**	**1.61**	**4.11**	**4.76**	**6.37**	**7.77**	R **9.14**	**17.61**	**8.85**	**4.80**	R **6.74**	**6.50**	**—**	R **3.91**	**14.22**	**6.84**
1986	1.75	1.54	1.55	3.77	4.89	4.12	5.01	R 8.75	15.59	7.01	2.83	R 3.96	R 4.87	—	R 3.34	15.12	R 6.53
1987	1.63	1.43	1.43	3.05	3.24	4.56	5.56	R 8.71	R 13.58	7.44	2.88	R 4.86	R 4.79	—	R 3.07	15.39	R 6.38
1988	1.70	1.40	1.40	3.16	3.05	4.22	5.14	R 9.18	R 14.62	7.43	2.62	R 4.03	R 4.44	—	R 2.97	15.15	R 6.37
1989	1.74	1.40	1.41	3.27	2.86	4.78	5.83	R 8.69	14.48	8.25	2.69	R 4.79	R 4.59	—	R 3.08	14.51	R 6.22
1990	**1.83**	**1.40**	**1.41**	**3.29**	**2.94**	**5.90**	**7.18**	R **9.88**	**14.60**	**9.40**	**3.16**	R **5.83**	R **5.24**	d R **1.48**	d R **3.30**	**13.74**	d R **6.10**
1991	1.80	1.42	1.42	3.12	3.30	5.25	6.39	R 8.80	R 16.80	9.00	2.48	R 5.26	R 5.10	1.50	R 3.20	R 13.20	R 5.90
1992	—	1.41	1.41	3.34	2.03	5.21	6.34	R 8.18	R 18.32	8.92	2.67	R 5.23	R 4.88	R 1.49	R 3.26	R 13.49	R 6.22
1993	—	1.41	1.41	3.76	2.37	5.05	6.15	R 9.37	R 18.96	8.78	2.72	R 4.61	R 4.69	1.48	R 3.29	R 13.54	R 6.35
1994	—	1.41	1.41	3.72	2.45	4.91	5.98	R 7.21	R 19.11	8.83	2.87	R 4.53	R 4.58	R 1.45	R 3.23	13.24	R 6.19
1995	**—**	**1.42**	**1.42**	**3.24**	**2.62**	**4.91**	**5.99**	**7.56**	**19.40**	**8.99**	**2.40**	**4.91**	**4.81**	**1.44**	**3.17**	**13.19**	**6.20**
	Expenditures in Million Nominal Dollars																
1970	**2.5**	**17.8**	**20.3**	**46.3**	**16.2**	**13.3**	**7.5**	**1.7**	**10.3**	**3.5**	**1.1**	R **21.4**	R **75.1**	**—**	R **141.7**	**192.6**	R **334.3**
1971	2.7	17.1	19.8	55.5	16.6	14.9	7.9	1.6	13.3	3.1	0.4	R 13.5	R 71.4	—	R 146.7	222.1	R 368.7
1972	3.6	20.9	24.4	65.3	19.1	17.8	6.7	1.6	15.1	3.1	0.8	R 15.2	R 79.3	—	R 169.0	239.6	R 408.7
1973	4.6	24.2	28.8	77.6	25.5	22.1	7.3	2.3	18.2	2.3	(s)	R 19.0	R 96.6	—	R 203.0	295.8	R 498.9
1974	7.5	54.2	61.7	86.6	31.7	52.4	11.5	3.8	23.7	3.9	4.4	R 40.2	R 171.5	—	R 319.8	376.0	R 695.9
1975	**8.9**	**52.0**	**60.8**	**81.4**	**44.8**	**57.6**	**9.4**	**3.9**	**23.7**	**2.8**	**2.3**	R **46.4**	R **190.8**	**—**	R **333.0**	**626.3**	R **959.4**
1976	9.8	48.8	58.6	131.1	46.7	87.2	13.2	4.7	24.8	2.3	23.4	R 66.5	R 268.9	—	R 458.6	753.7	R 1,212.3
1977	14.1	67.2	81.3	159.9	66.3	102.0	14.5	5.5	23.9	2.6	30.8	R 89.8	R 335.5	—	R 576.6	735.7	R 1,312.4
1978	13.3	85.4	98.8	154.9	80.9	109.4	15.7	9.0	27.9	2.2	17.9	R 100.8	R 363.9	—	R 617.6	813.4	R 1,431.0
1979	10.8	92.3	103.1	241.6	75.1	126.5	38.3	14.9	39.3	1.8	30.2	R 151.5	R 477.5	—	R 822.2	992.5	R 1,814.7
1980	**5.0**	**89.4**	**94.4**	**306.4**	**79.8**	**136.3**	**30.8**	**17.1**	**49.2**	**1.9**	**27.0**	R **232.5**	R **574.6**	**—**	R **975.4**	**1,079.4**	R **2,054.8**
1981	9.2	128.6	137.8	363.1	87.3	141.5	22.6	11.6	59.1	1.7	23.0	R 260.8	R 607.6	—	R 1,108.5	1,202.8	R 2,311.3
1982	6.8	121.7	128.6	414.9	126.7	148.1	20.1	19.2	51.7	1.4	12.2	R 179.1	R 558.4	—	R 1,101.9	1,129.0	R 2,231.0
1983	6.9	143.9	150.9	414.4	90.9	103.9	6.4	14.7	53.3	0.8	16.7	R 159.3	R 446.0	—	R 1,011.3	1,293.2	R 2,304.5
1984	7.4	147.2	154.6	406.4	111.1	112.5	7.1	15.4	59.0	20.7	10.3	R 154.3	R 490.2	—	R 1,051.3	1,613.1	R 2,664.4
1985	**8.0**	**156.6**	**164.6**	**398.1**	**139.3**	**129.0**	**8.9**	R **22.2**	**54.9**	**29.9**	**6.6**	R **146.9**	R **537.7**	**—**	R **1,100.4**	**1,591.8**	R **2,692.2**
1986	5.1	153.5	158.6	343.7	134.9	87.9	1.6	R 24.9	47.5	21.3	4.9	R 138.0	R 461.0	—	R 963.4	1,616.0	R 2,579.3
1987	3.3	137.5	140.8	294.8	98.3	92.3	3.0	R 26.1	R 46.8	23.8	3.2	R 158.7	R 452.1	—	R 887.7	1,637.9	R 2,525.5
1988	3.6	136.4	140.0	324.1	81.8	83.1	3.8	R 29.4	48.6	21.9	4.0	R 138.4	R 411.1	—	R 875.2	1,733.5	R 2,608.7
1989	3.6	137.6	141.2	346.6	108.1	65.7	1.2	R 30.0	49.4	26.2	4.7	R 161.4	R 446.7	—	R 934.5	1,666.7	R 2,601.2
1990	**3.3**	**132.8**	**136.1**	**357.4**	**113.0**	**100.4**	**1.9**	R **25.9**	**51.2**	**28.6**	**3.9**	R **220.8**	R **545.7**	d R **15.4**	d R **1,054.5**	**1,613.9**	d R **2,668.4**
1991	0.9	132.0	132.9	354.4	117.3	82.5	1.5	R 24.6	52.7	26.3	3.2	R 212.2	R 520.3	R 16.9	R 1,024.6	R 1,565.3	R 2,589.8
1992	—	130.9	130.9	415.1	71.2	110.8	0.4	R 63.9	R 58.6	26.9	3.1	R 215.0	R 549.9	R 16.4	R 1,112.3	R 1,870.3	R 2,982.6
1993	—	139.5	139.5	460.8	77.3	99.5	1.3	R 27.4	R 61.8	33.4	5.4	R 191.0	R 497.1	R 16.7	1,114.1	R 1,958.8	R 3,073.0
1994	—	144.6	144.6	435.6	88.7	106.9	1.1	R 19.1	R 65.1	36.4	4.8	R 193.7	R 515.8	R 18.1	R 1,114.1	R 1,920.0	R 3,034.1
1995	**—**	**134.7**	**134.7**	**401.1**	**94.3**	**113.6**	**1.3**	**20.7**	**64.9**	**40.9**	**2.7**	**199.8**	**538.2**	**20.8**	**1,094.8**	**1,968.1**	**3,062.9**

[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 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.
(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 267. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Tennessee

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.35**	**—**	**2.17**	**1.28**	**0.73**	**1.27**	**5.08**	**2.84**	**0.42**	**2.49**	**2.49**	**4.97**	**2.49**
1971	0.44	—	2.21	1.32	0.76	1.38	5.27	2.84	0.58	2.51	2.51	5.51	2.51
1972	0.44	—	2.19	1.37	0.76	1.36	5.58	2.84	—	2.49	2.49	5.50	2.49
1973	0.46	—	2.36	1.70	0.90	1.46	5.33	3.00	0.67	2.67	2.67	5.80	2.67
1974	1.07	—	3.23	2.70	1.56	2.50	7.22	4.06	1.59	3.70	3.70	6.67	3.70
1975	**1.17**	**—**	**3.45**	**3.02**	**2.03**	**2.39**	**7.48**	**4.58**	**1.67**	**4.19**	**4.19**	**8.27**	**4.19**
1976	1.01	—	3.59	3.06	2.18	2.77	7.05	4.77	1.71	4.34	4.34	8.87	4.34
1977	1.15	—	3.97	3.30	2.55	3.31	6.97	5.13	1.90	4.65	4.65	9.43	4.65
1978	—	—	4.29	3.48	2.88	3.47	7.60	5.35	1.81	4.85	4.85	11.05	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	**—**	**—**	**9.02**	**7.25**	**6.39**	**4.96**	**14.36**	**9.89**	**3.45**	**9.20**	**9.20**	**13.29**	**9.20**
1981	—	—	10.84	8.48	7.67	6.20	18.00	11.13	3.90	10.46	10.46	15.44	10.46
1982	—	—	10.92	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	6.44	6.76	16.98	9.01	—	8.53	8.53	16.08	8.53
1984	—	—	10.27	6.92	6.14	7.04	17.63	8.72	—	8.27	8.27	16.55	8.27
1985	**—**	**—**	**9.99**	**6.73**	**5.83**	**[R] 9.14**	**17.61**	**8.85**	**—**	**8.29**	**8.29**	**17.05**	**8.29**
1986	—	—	8.41	6.47	3.81	[R] 8.75	15.59	7.01	—	6.73	6.73	17.96	6.73
1987	—	—	7.55	6.75	4.01	[R] 8.71	[R] 13.58	7.44	1.92	[R] 7.11	[R] 7.11	19.96	[R] 7.11
1988	—	—	7.41	6.49	3.82	[R] 9.18	[R] 14.62	7.43	3.01	7.07	7.07	20.34	7.07
1989	—	—	8.28	6.96	4.34	[R] 8.69	14.48	8.25	2.37	7.77	7.77	19.95	7.77
1990	**—**	**4.14**	**9.32**	**8.36**	**5.58**	**[R] 9.88**	**14.60**	**9.40**	**2.22**	**8.97**	**8.97**	**[R] 20.11**	**8.97**
1991	—	3.98	8.71	7.84	4.82	[R] 8.80	[R] 16.80	9.00	1.71	8.57	8.57	[R] 20.13	8.57
1992	—	4.22	8.54	7.82	4.56	[R] 8.18	[R] 18.32	8.92	1.65	[R] 8.47	[R] 8.47	[R] 21.74	[R] 8.47
1993	—	4.47	8.24	7.80	4.19	[R] 9.37	[R] 18.96	8.78	1.58	8.27	8.27	[R] 23.20	8.27
1994	—	5.51	7.96	7.70	3.92	[R] 9.20	[R] 19.11	8.83	[R] 1.55	8.21	8.21	[R] 22.68	8.21
1995	**—**	**4.93**	**8.36**	**7.63**	**3.93**	**9.55**	**19.40**	**8.99**	**1.91**	**8.29**	**8.29**	**22.17**	**8.29**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**1.3**	**53.6**	**13.6**	**0.5**	**15.1**	**615.7**	**(s)**	**699.8**	**699.9**	**(s)**	**699.9**
1971	(s)	—	1.3	58.9	14.3	0.6	15.4	656.4	(s)	746.9	746.9	(s)	746.9
1972	(s)	—	1.3	75.7	14.7	0.5	17.5	712.5	—	822.2	822.2	(s)	822.2
1973	(s)	—	1.3	102.2	19.3	0.7	18.0	817.5	0.6	959.5	959.5	(s)	959.5
1974	(s)	—	1.5	167.5	33.7	1.1	23.4	1,090.0	0.7	1,317.8	1,317.8	(s)	1,317.8
1975	**(s)**	**—**	**1.2**	**187.1**	**45.1**	**1.1**	**36.6**	**1,279.8**	**2.0**	**1,553.0**	**1,553.0**	**(s)**	**1,553.0**
1976	(s)	—	1.0	204.6	50.5	1.2	38.3	1,396.8	2.8	1,695.4	1,695.4	(s)	1,695.4
1977	(s)	—	1.3	242.9	63.1	1.6	28.6	1,539.1	1.4	1,878.0	1,878.0	(s)	1,878.0
1978	—	—	1.2	290.9	76.3	2.1	33.4	1,671.6	0.7	2,076.2	2,076.2	(s)	2,076.2
1979	—	—	20.4	475.1	107.8	1.5	47.0	2,123.0	2.0	2,776.8	2,776.8	(s)	2,776.8
1980	**—**	**—**	**13.2**	**557.1**	**149.8**	**1.1**	**58.9**	**2,827.3**	**0.1**	**3,607.6**	**3,607.6**	**(s)**	**3,607.6**
1981	—	—	12.7	688.7	150.8	2.0	70.8	3,161.4	1.9	4,088.3	4,088.3	(s)	4,088.3
1982	—	—	9.4	627.3	95.5	3.5	61.8	2,950.8	0.5	3,748.9	3,748.9	(s)	3,749.0
1983	—	—	9.4	601.2	74.5	4.5	63.7	2,522.3	—	3,275.6	3,275.6	(s)	3,275.6
1984	—	—	8.5	662.0	125.9	6.1	70.6	2,582.0	—	3,455.0	3,455.0	(s)	3,455.0
1985	**—**	**—**	**7.8**	**596.7**	**160.1**	**[R] 5.5**	**65.7**	**2,652.7**	**—**	**[R] 3,488.5**	**[R] 3,488.5**	**(s)**	**[R] 3,488.5**
1986	—	—	8.5	646.5	127.8	[R] 6.4	56.9	2,185.7	—	[R] 3,031.8	[R] 3,031.8	(s)	[R] 3,031.8
1987	—	—	7.1	688.2	129.0	[R] 3.8	[R] 56.0	2,422.0	(s)	[R] 3,306.1	[R] 3,306.1	(s)	[R] 3,306.1
1988	—	—	6.8	699.5	91.3	[R] 4.9	58.1	2,274.8	0.2	[R] 3,135.7	[R] 3,135.7	(s)	[R] 3,135.7
1989	—	—	7.6	799.1	106.8	[R] 5.0	59.1	2,552.1	0.2	[R] 3,529.8	[R] 3,529.8	(s)	[R] 3,529.8
1990	**—**	**(s)**	**8.2**	**965.8**	**131.7**	**[R] 4.5**	**61.3**	**2,794.9**	**0.1**	**[R] 3,966.5**	**[R] 3,966.5**	**(s)**	**[R] 3,966.5**
1991	—	(s)	6.4	857.0	92.9	[R] 4.3	63.1	2,609.1	0.5	[R] 3,633.3	[R] 3,633.3	(s)	[R] 3,633.3
1992	—	(s)	14.8	858.6	115.3	[R] 3.6	[R] 70.1	2,703.6	0.5	[R] 3,766.4	[R] 3,766.4	(s)	[R] 3,766.4
1993	—	(s)	16.4	864.8	155.5	[R] 4.9	[R] 73.9	2,778.7	0.2	[R] 3,894.4	[R] 3,894.4	(s)	[R] 3,894.5
1994	—	(s)	15.8	862.8	172.3	[R] 8.0	[R] 77.9	2,878.7	(s)	[R] 4,015.4	[R] 4,015.5	0.1	[R] 4,015.5
1995	**—**	**(s)**	**16.8**	**971.9**	**180.5**	**4.7**	**77.7**	**3,019.6**	**(s)**	**4,271.1**	**4,271.1**	**0.1**	**4,271.2**

[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.

(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 268. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Tennessee

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.23**	**0.25**	**—**	**—**	**—**	**—**	**—**	**—**	**0.23**
1971	0.33	0.27	—	0.99	—	0.99	—	—	0.32
1972	0.36	0.31	—	0.87	—	0.87	—	—	0.36
1973	0.38	0.31	—	1.02	—	1.02	—	—	0.38
1974	0.50	—	—	2.66	—	2.66	—	—	0.51
1975	**0.87**	**—**	**—**	**2.19**	**—**	**2.19**	**—**	**—**	**0.89**
1976	0.92	0.90	—	2.33	—	2.33	—	—	0.95
1977	1.03	—	—	2.64	—	2.64	—	—	1.10
1978	1.20	—	—	2.65	—	2.65	—	—	1.28
1979	1.36	—	2.18	3.58	—	3.46	—	—	1.38
1980	**1.56**	**2.33**	**—**	**6.39**	**—**	**6.39**	**0.38**	**—**	**1.57**
1981	1.74	2.89	—	8.24	—	8.24	0.42	—	1.63
1982	1.75	—	—	8.10	—	8.10	0.40	—	1.47
1983	1.72	3.78	—	6.50	—	6.50	0.50	—	1.42
1984	1.62	—	—	6.11	—	6.11	0.65	—	1.41
1985	**1.54**	**—**	**—**	**5.85**	**—**	**5.85**	**0.78**	**—**	**1.41**
1986	1.42	—	—	3.37	—	3.37	—	—	1.43
1987	1.37	—	—	3.93	—	3.93	—	—	1.38
1988	1.34	2.39	—	3.51	—	3.51	0.83	—	1.30
1989	1.34	2.74	—	3.95	—	3.95	0.89	—	1.23
1990	**1.34**	**2.72**	**—**	**5.61**	**—**	**5.61**	**0.84**	**—**	**1.24**
1991	1.25	2.44	—	4.98	—	4.98	0.85	—	1.15
1992	1.27	2.42	—	4.80	—	4.80	0.94	—	1.20
1993	1.26	1.07	—	4.31	—	4.31	0.95	—	1.25
1994	1.26	1.16	—	4.15	—	4.15	1.00	—	1.22
1995	**1.15**	**2.21**	**—**	**3.97**	**—**	**3.97**	**0.58**	**—**	**1.04**
	Expenditures in Million Nominal Dollars								
1970	**76.5**	**4.4**	**—**	**—**	**—**	**—**	**—**	**—**	**80.9**
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	3.9	—	1.8	—	1.8	—	—	184.0
1974	201.3	—	—	4.6	—	4.6	—	—	205.8
1975	**359.6**	**—**	**—**	**16.7**	**—**	**16.7**	**—**	**—**	**376.4**
1976	459.0	0.2	—	33.8	—	33.8	—	—	492.9
1977	496.4	—	—	57.5	—	57.5	—	—	553.9
1978	583.5	—	—	79.8	—	79.8	—	—	663.4
1979	630.3	—	0.8	13.4	—	14.2	—	—	644.5
1980	**784.9**	**2.6**	**—**	**15.1**	**—**	**15.1**	**2.1**	**—**	**804.8**
1981	826.0	0.9	—	15.4	—	15.4	21.6	—	863.9
1982	681.4	—	—	13.5	—	13.5	44.6	—	739.5
1983	756.5	0.4	—	11.0	—	11.0	76.6	—	844.6
1984	731.7	—	—	7.4	—	7.4	88.7	—	827.8
1985	**757.7**	**—**	**—**	**8.1**	**—**	**8.1**	**81.1**	**—**	**846.9**
1986	711.4	—	—	4.5	—	4.5	—	—	716.0
1987	677.8	—	—	5.1	—	5.1	—	—	682.9
1988	675.7	0.6	—	7.5	—	7.5	34.9	—	718.6
1989	616.1	0.1	—	8.2	—	8.2	149.2	—	773.6
1990	**668.5**	**1.6**	**—**	**7.6**	**—**	**7.6**	**125.9**	**—**	**803.6**
1991	585.5	0.5	—	7.9	—	7.9	151.1	—	745.1
1992	628.5	0.7	—	6.3	—	6.3	156.4	—	791.8
1993	736.4	1.7	—	10.4	—	10.4	33.6	—	782.1
1994	650.6	1.2	—	12.6	—	12.6	127.7	—	792.0
1995	**656.1**	**4.7**	**—**	**10.5**	**—**	**10.5**	**96.9**	**—**	**768.2**

[a] There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
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 269. Energy Price and Expenditure Estimates by Source, 1970-1995, Texas

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**	**0.86**	**0.39**	**0.29**	**0.94**	**0.72**	**1.07**	**2.66**	**0.42**	**1.05**	**1.55**	**—**	**0.65**	**0.85**	**0.25**	**4.52**	**1.28**
1971	0.44	0.68	0.45	0.33	1.02	0.75	1.14	2.73	0.45	R 1.12	1.63	—	0.69	0.88	0.28	4.57	1.33
1972	0.57	0.23	0.39	0.34	1.01	0.75	1.16	2.70	0.57	1.12	1.60	—	0.72	0.91	0.28	4.70	1.40
1973	0.66	0.36	0.42	0.36	1.23	0.89	1.41	2.79	0.54	1.20	1.70	—	0.77	0.98	0.27	4.88	1.47
1974	1.23	0.55	0.67	0.54	2.20	1.54	2.46	3.98	1.40	R 2.21	R 2.72	—	0.84	1.57	0.46	5.84	2.25
1975	**1.60**	**0.46**	**0.61**	**0.89**	**2.35**	**2.01**	**2.49**	**4.36**	**1.61**	**R 2.64**	**3.03**	**—**	**0.92**	**1.93**	**0.73**	**6.81**	**2.80**
1976	1.67	0.67	0.74	1.21	2.61	2.12	2.65	4.56	1.57	R 2.96	3.22	—	0.98	2.20	0.95	7.82	3.14
1977	1.76	0.73	0.80	1.36	2.86	2.48	3.11	4.85	1.76	3.30	3.51	—	1.04	2.42	1.15	8.98	3.48
1978	1.89	0.85	0.87	1.71	2.98	2.86	2.60	4.88	1.63	R 3.41	3.46	—	1.12	2.53	1.26	9.78	3.68
1979	1.75	1.10	1.14	1.93	4.57	3.96	4.31	6.59	2.15	R 4.58	R 4.76	—	1.56	3.35	1.44	10.89	R 4.71
1980	**1.81**	**1.19**	**1.22**	**2.17**	**6.73**	**6.34**	**5.29**	**9.26**	**2.49**	**R 6.63**	**R 6.61**	**—**	**1.74**	**4.22**	**1.65**	**12.69**	**R 5.99**
1981	2.03	1.46	1.47	2.78	7.78	7.47	5.99	10.50	3.10	R 8.40	R 7.76	—	1.24	R 4.99	2.11	15.62	R 7.08
1982	2.04	1.60	1.61	3.44	7.32	7.09	6.13	9.83	3.53	R 7.30	R 7.39	—	1.28	R 5.11	2.55	18.34	R 7.52
1983	1.58	1.68	1.68	3.53	6.59	6.27	6.64	8.74	3.49	R 6.55	R 6.95	—	1.12	R 4.95	2.54	19.06	R 7.43
1984	1.91	1.67	1.68	3.68	6.61	6.04	6.45	8.66	3.59	R 6.67	R 6.91	—	1.28	R 4.99	2.54	18.42	R 7.38
1985	**1.93**	**1.59**	**1.60**	**3.38**	**6.34**	**5.67**	**R 4.59**	**8.79**	**4.00**	**R 6.29**	**R 6.42**	**—**	**0.79**	**R 4.59**	**2.44**	**18.58**	**R 6.97**
1986	1.75	1.55	1.55	2.62	4.99	3.56	R 4.42	6.47	1.45	R 4.20	R 4.81	—	0.32	R 3.55	1.92	16.91	R 5.69
1987	—	1.54	1.54	2.38	5.68	3.85	R 3.88	7.19	2.59	R 4.53	R 5.11	—	0.95	3.60	1.80	16.32	R 5.68
1988	—	1.47	1.47	2.44	5.42	3.57	R 3.77	7.32	1.84	R 3.96	R 4.87	0.37	—	3.47	1.74	16.58	R 5.52
1989	—	1.44	1.44	2.51	6.10	4.16	R 2.84	7.92	2.43	R 4.58	R 5.02	0.42	0.35	R 3.50	1.73	16.79	R 5.60
1990	**—**	**1.44**	**1.44**	**2.47**	**7.35**	**5.41**	**R 4.38**	**9.16**	**2.93**	**R 5.29**	**R 6.23**	**0.56**	**[d] 1.73**	**[d] 4.06**	**1.67**	**17.09**	**[d] R 6.42**
1991	—	1.49	1.49	2.30	6.99	4.64	R 4.46	9.09	2.97	R 4.86	R 5.96	0.49	R 1.80	3.86	1.61	17.91	R 6.28
1992	—	1.48	1.48	2.47	7.07	4.32	R 4.21	9.05	1.90	R 4.57	R 5.74	0.52	1.82	3.84	1.67	18.21	R 6.22
1993	—	1.42	1.42	2.79	7.07	4.01	R 4.04	8.90	1.88	R 4.26	R 5.66	0.69	R 1.74	R 3.88	1.81	18.93	R 6.37
1994	—	1.34	1.34	2.51	7.05	3.73	R 5.20	8.94	2.03	R 4.20	R 5.97	0.60	R 1.71	3.91	1.59	19.07	R 6.51
1995	**—**	**1.33**	**1.33**	**2.24**	**7.05**	**3.74**	**5.08**	**9.21**	**1.99**	**4.53**	**6.03**	**0.56**	**1.95**	**3.79**	**1.44**	**18.12**	**6.34**
	Expenditures in Million Nominal Dollars																
1970	**11.6**	**0.2**	**11.9**	**804.9**	**176.6**	**97.4**	**611.9**	**1,976.0**	**36.0**	**R 478.0**	**R 3,375.9**	**—**	**0.7**	**R 4,193.3**	**-267.6**	**1,421.0**	**R 5,346.7**
1971	10.2	0.6	10.7	981.2	206.9	105.0	662.8	2,134.9	33.4	R 542.2	R 3,685.2	—	0.7	R 4,677.8	-335.9	1,551.2	R 5,893.2
1972	13.4	6.2	19.6	1,016.2	269.7	108.4	774.8	2,258.3	51.1	R 594.2	R 4,056.5	—	0.8	R 5,093.1	-384.2	1,782.9	R 6,491.8
1973	17.6	35.8	53.3	1,136.2	376.3	132.1	967.0	2,481.0	100.8	R 700.9	R 4,758.2	—	0.8	R 5,948.5	-383.4	1,961.4	R 7,526.5
1974	29.9	59.4	89.3	1,639.4	700.8	222.8	1,616.1	3,505.5	313.9	R 1,300.0	R 7,659.2	—	0.8	R 9,388.7	-675.1	2,410.9	R 11,124.5
1975	**41.0**	**79.2**	**120.2**	**2,361.3**	**735.9**	**306.2**	**1,452.4**	**4,020.6**	**383.7**	**R 1,431.1**	**R 8,329.9**	**—**	**0.9**	**R 10,812.2**	**-1,099.3**	**2,895.0**	**R 12,607.9**
1976	27.9	140.5	168.4	3,282.2	862.3	303.7	1,573.7	4,471.7	416.5	R 2,007.6	R 9,635.5	—	1.0	R 13,087.1	-1,519.4	3,496.8	R 15,064.4
1977	31.3	198.4	229.7	3,996.9	1,186.7	369.4	1,845.4	4,966.1	547.0	R 2,600.1	R 11,514.7	—	1.0	R 15,742.3	-2,062.7	4,510.4	R 18,190.0
1978	20.4	345.3	365.7	5,231.6	1,337.5	447.0	1,561.4	5,175.1	575.7	R 2,932.3	R 12,029.2	—	1.1	R 17,627.6	-2,442.4	5,270.4	R 20,455.6
1979	52.8	615.5	668.3	5,574.0	2,305.9	648.7	2,866.1	6,783.8	954.0	R 4,542.6	R 18,101.3	—	1.4	R 24,344.9	-2,869.2	6,019.3	R 27,495.0
1980	**47.9**	**844.6**	**892.5**	**6,838.0**	**2,823.7**	**1,098.5**	**3,670.4**	**8,805.7**	**969.9**	**R 6,657.2**	**R 24,025.4**	**—**	**1.4**	**R 31,757.3**	**-3,576.1**	**7,434.5**	**R 35,615.7**
1981	37.8	1,223.8	1,261.6	8,869.9	4,096.5	1,295.2	4,439.1	10,214.6	1,243.4	R 7,075.8	R 28,364.7	—	1.0	R 38,497.2	-4,635.8	9,476.0	R 43,337.4
1982	21.0	1,474.6	1,495.5	9,736.5	3,855.6	1,706.4	4,268.4	9,842.7	1,285.5	R 5,080.9	R 26,039.6	—	0.8	R 37,272.5	-5,579.5	11,268.2	R 42,961.2
1983	0.5	1,711.3	1,711.8	9,522.6	3,718.3	1,669.1	4,686.2	8,948.5	917.8	R 4,839.5	R 24,779.5	—	0.9	R 36,014.7	-5,566.6	12,051.8	R 42,500.0
1984	25.6	1,774.6	1,800.2	10,687.9	3,744.3	2,202.2	6,084.2	8,948.2	776.2	R 4,758.0	R 26,513.0	—	1.5	R 39,002.5	-5,814.0	12,669.6	R 45,858.1
1985	**20.9**	**1,812.0**	**1,832.9**	**9,815.8**	**3,475.1**	**2,383.1**	**R 4,236.4**	**9,479.5**	**710.5**	**R 4,115.4**	**R 24,400.0**	**—**	**2.5**	**R 36,051.1**	**-5,652.8**	**13,119.7**	**R 43,518.0**
1986	3.6	1,794.5	1,798.1	7,021.2	2,511.6	1,614.0	R 4,011.0	7,119.0	251.2	R 2,854.3	R 18,361.1	—	1.0	R 27,181.5	-4,302.1	11,920.6	R 34,800.0
1987	—	1,850.9	1,850.9	6,513.9	2,920.5	1,839.5	R 3,858.2	7,735.2	351.5	R 2,969.0	R 19,673.9	—	2.3	R 28,041.0	-4,036.5	11,645.3	R 35,649.9
1988	—	1,852.4	1,852.4	7,247.2	2,729.9	1,911.9	R 4,024.8	8,038.9	278.0	R 2,748.1	R 19,731.6	15.1	—	R 28,846.3	-4,073.9	12,325.7	R 37,098.1
1989	—	1,910.4	1,910.4	7,783.9	3,123.7	2,189.7	R 3,190.5	8,458.3	437.5	R 3,005.3	R 20,405.0	44.6	0.7	R 30,144.6	-4,245.4	12,782.0	R 38,681.3
1990	**—**	**1,918.8**	**1,918.8**	**7,311.4**	**3,525.7**	**2,931.6**	**R 4,635.4**	**9,831.0**	**505.9**	**R 3,919.2**	**R 25,348.8**	**94.9**	**[d] R 38.9**	**[d] R 34,712.7**	**-4,165.2**	**R 13,430.7**	**[d] R 43,978.3**
1991	—	1,981.4	1,981.4	6,953.6	3,446.5	2,377.9	R 5,167.7	9,485.4	524.9	R 3,589.3	R 24,591.8	103.3	R 42.2	R 33,672.3	-4,063.1	R 14,271.2	R 43,880.4
1992	—	1,961.2	1,961.2	7,289.1	3,716.3	2,198.6	R 5,074.1	9,543.5	364.0	R 3,497.5	R 24,394.0	135.9	R 42.8	R 33,823.0	-4,210.8	R 14,457.4	R 44,069.6
1993	—	2,008.2	2,008.2	8,821.1	3,777.4	1,975.4	R 4,686.8	9,700.6	260.8	R 3,300.9	R 23,701.9	91.7	R 40.5	R 34,663.5	-4,678.8	R 15,644.2	R 45,628.9
1994	—	1,859.5	1,859.5	R 7,798.4	3,674.1	1,760.3	R 6,765.5	10,276.3	273.3	R 3,258.0	R 26,007.6	184.1	R 40.6	R 35,890.3	-4,259.3	R 16,149.9	R 47,780.9
1995	**—**	**1,815.3**	**1,815.3**	**7,224.0**	**3,392.4**	**1,759.9**	**6,806.5**	**10,326.6**	**277.8**	**3,410.7**	**25,973.9**	**214.4**	**44.2**	**35,271.8**	**-3,981.7**	**15,675.1**	**46,965.3**

[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 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 270. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Texas

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**0.90**	**0.90**	**0.98**	**1.29**	**1.71**	**1.70**	**—**	**1.06**	**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	0.99	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	3.15	—	1.39	6.61	3.08
1974	1.07	1.13	2.12	2.68	3.22	3.19	—	1.49	7.73	3.66
1975	**—**	**1.48**	**2.24**	**3.01**	**3.50**	**3.45**	**—**	**1.79**	**8.74**	**4.08**
1976	—	1.93	2.54	3.14	3.95	3.89	—	2.24	9.84	4.73
1977	1.61	2.33	2.82	3.71	4.65	4.51	—	2.62	11.11	5.45
1978	—	2.66	2.96	3.90	4.32	4.21	—	2.89	11.86	5.99
1979	—	3.12	4.80	5.55	5.77	5.62	—	3.32	13.05	6.51
1980	**2.54**	**3.31**	**6.51**	**8.35**	**7.39**	**7.43**	**—**	**3.69**	**14.92**	**8.55**
1981	3.42	4.06	8.03	10.15	8.17	8.22	—	4.47	18.32	10.71
1982	3.18	5.05	7.53	10.10	9.35	9.41	—	5.39	21.25	12.61
1983	—	5.39	6.87	8.96	8.86	8.69	—	5.70	22.44	13.36
1984	—	5.60	7.28	8.75	8.79	8.66	—	5.87	21.62	13.28
1985	**2.83**	**5.55**	**6.99**	**8.40**	**8.53**	**8.52**	**—**	**5.87**	**21.99**	**13.88**
1986	2.78	5.09	4.57	5.50	8.08	8.03	—	5.41	20.18	13.10
1987	2.40	5.00	4.69	5.63	7.60	7.52	—	5.27	19.74	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	9.97	—	5.77	20.45	13.22
1990	**2.41**	**5.55**	**4.32**	**5.20**	**10.39**	**10.36**	**[d] 3.53**	**[d] 5.93**	**[R] 21.12**	**[d R] 13.77**
1991	2.36	5.49	3.98	4.78	11.71	11.61	3.53	5.80	22.17	14.25
1992	2.43	5.51	5.46	6.57	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	5.90	23.45	15.08
1994	2.25	5.75	5.47	6.58	[R] 9.91	[R] 9.87	3.53	[R] 5.92	23.68	15.60
1995	**—**	**5.68**	**5.29**	**6.35**	**10.20**	**10.15**	**3.53**	**5.86**	**22.61**	**15.22**
	Expenditures in Million Nominal Dollars									
1970	**(s)**	**213.8**	**0.8**	**0.2**	**99.5**	**100.5**	**—**	**314.3**	**701.2**	**1,015.6**
1971	(s)	235.7	0.9	0.2	97.1	98.3	—	334.0	776.4	1,110.4
1972	(s)	244.0	1.4	0.3	99.6	101.2	—	345.3	895.3	1,240.6
1973	(s)	250.9	1.8	0.4	168.4	170.6	—	421.5	961.1	1,382.7
1974	(s)	260.4	3.3	0.6	149.5	153.4	—	413.8	1,147.9	1,561.7
1975	**—**	**353.8**	**3.5**	**0.7**	**148.5**	**152.7**	**—**	**506.5**	**1,219.6**	**1,726.1**
1976	—	468.2	4.9	0.5	171.5	176.8	—	645.0	1,382.3	2,027.2
1977	(s)	645.8	9.2	0.7	184.3	194.3	—	840.0	1,776.0	2,616.0
1978	—	750.6	10.8	0.9	189.6	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	**(s)**	**765.9**	**0.3**	**9.4**	**166.4**	**176.1**	**—**	**942.0**	**2,910.3**	**3,852.3**
1981	0.1	877.4	0.3	6.6	185.8	192.7	—	1,070.1	3,601.8	4,671.9
1982	0.2	1,153.8	1.3	20.4	159.8	181.4	—	1,335.4	4,402.9	5,738.3
1983	—	1,192.1	13.8	5.7	180.1	199.6	—	1,391.7	4,619.9	6,011.6
1984	—	1,340.4	14.3	22.7	162.5	199.5	—	1,539.9	5,043.0	6,582.9
1985	**0.2**	**1,226.8**	**1.6**	**5.4**	**223.3**	**230.2**	**—**	**1,457.1**	**5,381.8**	**6,839.0**
1986	0.3	1,032.8	0.6	1.4	194.4	196.4	—	1,229.5	4,984.7	6,214.2
1987	0.6	1,097.7	2.2	1.9	195.9	200.1	—	1,298.3	5,009.0	6,307.3
1988	0.8	1,127.5	0.8	1.8	178.6	181.2	—	1,309.5	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	7,076.7
1990	**0.2**	**1,217.6**	**0.1**	**0.8**	**231.1**	**231.9**	**[d] 20.6**	**[d] 1,470.3**	**[R] 5,947.4**	**[d R] 7,417.7**
1991	0.2	1,268.8	0.1	0.9	171.0	172.0	21.7	1,462.7	[R] 6,361.3	[R] 7,824.0
1992	0.2	1,240.9	0.1	0.8	125.9	126.8	22.8	1,390.7	[R] 6,342.7	[R] 7,733.3
1993	0.1	1,369.9	0.1	1.2	129.8	131.1	20.0	1,521.1	[R] 7,017.3	[R] 8,538.4
1994	(s)	1,278.5	0.2	0.7	[R] 130.6	[R] 131.6	19.6	[R] 1,429.6	[R] 7,254.7	[R] 8,684.3
1995	**—**	**1,222.0**	**0.2**	**0.8**	**122.6**	**123.6**	**21.8**	**1,367.3**	**7,161.9**	**8,529.2**

[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.
(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 271. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Texas

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.86**	**0.44**	**0.90**	**0.76**	**1.00**	**2.66**	**0.48**	**1.01**	**0.56**	**5.19**	**1.91**
1971	0.76	0.48	0.97	0.80	1.08	2.73	0.51	1.07	0.60	5.22	2.08
1972	0.90	0.51	0.97	0.80	1.11	2.70	0.66	1.05	0.63	5.34	2.23
1973	0.84	0.54	1.14	0.95	1.26	2.79	0.60	1.14	0.69	5.46	2.24
1974	1.31	0.69	1.99	2.16	2.41	3.98	1.57	2.26	1.10	6.43	3.01
1975	**—**	**1.02**	**2.14**	**2.23**	**2.42**	**4.36**	**1.87**	**2.37**	**1.41**	**7.59**	**3.92**
1976	—	1.38	2.42	2.85	2.55	4.56	1.63	2.89	1.77	8.61	4.44
1977	1.66	1.75	2.71	3.10	3.00	4.85	1.90	3.02	2.08	10.06	5.03
1978	—	2.14	2.83	3.33	2.47	4.88	1.72	3.03	2.38	11.10	5.59
1979	—	2.76	4.59	4.69	4.25	6.59	2.23	4.60	3.30	12.34	5.93
1980	**0.89**	**2.90**	**6.23**	**6.89**	**5.22**	**9.26**	**2.53**	**6.24**	**3.89**	**14.12**	**7.77**
1981	1.48	3.56	7.68	7.61	5.92	10.50	2.88	6.80	4.67	17.24	9.64
1982	1.68	4.35	7.20	7.25	6.05	9.83	3.11	6.51	4.82	19.62	10.77
1983	—	4.89	6.13	6.83	6.57	8.74	3.22	6.57	5.67	20.46	11.07
1984	—	4.88	6.14	8.08	6.40	8.66	4.47	7.16	5.84	20.14	11.51
1985	**1.60**	**4.70**	**6.13**	**7.68**	**[R] 4.48**	**8.79**	**3.87**	**[R] 6.38**	**5.23**	**20.06**	**12.20**
1986	1.50	4.00	3.60	4.64	[R] 4.33	6.47	2.00	[R] 4.27	4.06	18.28	[R] 11.29
1987	1.27	4.09	4.09	5.47	[R] 3.78	7.19	2.67	[R] 4.56	4.22	17.45	10.56
1988	1.31	4.03	3.70	4.89	[R] 3.68	7.32	1.90	[R] 4.46	[R] 4.12	17.76	10.75
1989	1.27	3.95	4.23	5.80	[R] 2.68	7.92	2.33	[R] 5.12	4.17	17.92	10.99
1990	**1.14**	**3.97**	**5.58**	**7.44**	**[R] 4.25**	**9.16**	**2.60**	**[R] 6.61**	**[R] 4.41**	**18.12**	**11.66**
1991	1.23	3.86	4.87	6.48	[R] 4.37	9.09	1.95	[R] 5.91	4.13	19.11	[R] 12.08
1992	1.27	3.90	4.53	6.17	[R] 4.15	9.05	2.07	[R] 5.72	4.13	19.56	12.23
1993	1.16	4.33	4.40	6.01	[R] 3.97	8.90	—	[R] 4.57	[R] 4.35	20.23	[R] 13.33
1994	1.26	4.15	4.07	[R] 5.68	[R] 8.78	8.94	2.12	[R] 4.92	[R] 4.22	20.52	13.41
1995	**—**	**3.92**	**4.16**	**5.65**	**9.19**	**9.21**	**2.46**	**5.12**	**4.01**	**19.38**	**12.29**
	Expenditures in Million Nominal Dollars										
1970	**(s)**	**66.3**	**4.4**	**15.6**	**10.3**	**9.7**	**0.2**	**40.1**	**106.4**	**405.2**	**511.7**
1971	(s)	70.6	5.2	13.8	10.6	8.8	0.2	38.6	109.2	450.9	560.1
1972	(s)	74.0	7.9	16.1	11.3	8.7	0.7	44.7	118.7	515.9	634.6
1973	(s)	86.1	10.3	28.3	11.7	9.2	1.2	60.6	146.8	561.2	708.0
1974	(s)	95.2	18.9	53.7	19.7	14.4	5.3	112.0	207.2	675.9	883.1
1975	**—**	**122.6**	**20.8**	**53.1**	**18.1**	**15.7**	**7.9**	**115.7**	**238.3**	**877.2**	**1,115.4**
1976	—	192.6	28.6	46.3	19.5	38.0	6.3	138.7	331.3	1,031.2	1,362.4
1977	(s)	285.1	54.7	66.3	21.0	25.3	8.0	175.3	460.5	1,300.1	1,760.6
1978	—	371.0	63.8	79.9	19.1	20.6	8.1	191.4	562.4	1,532.6	2,095.1
1979	—	665.0	119.5	270.5	16.9	40.2	14.8	461.9	1,127.0	1,723.8	2,850.8
1980	**(s)**	**504.3**	**103.1**	**126.9**	**20.7**	**160.5**	**40.9**	**452.2**	**956.5**	**2,122.5**	**3,079.0**
1981	0.1	578.6	167.4	293.8	23.8	43.1	45.8	573.8	1,152.5	2,780.1	3,932.6
1982	0.1	849.9	204.6	53.4	18.3	44.9	35.5	356.6	1,206.6	3,303.0	4,509.7
1983	—	794.7	319.5	456.1	23.6	111.5	20.6	931.3	1,726.0	3,576.1	5,302.0
1984	—	840.5	314.5	459.6	20.9	79.5	19.1	893.5	1,734.0	3,927.2	5,661.3
1985	**0.2**	**741.3**	**342.4**	**10.9**	**[R] 20.7**	**90.2**	**6.1**	**[R] 470.3**	**[R] 1,211.7**	**4,116.0**	**[R] 5,327.7**
1986	0.3	613.0	113.4	4.7	[R] 18.4	70.9	3.1	[R] 210.4	[R] 823.7	3,827.0	[R] 4,650.7
1987	0.6	666.7	195.1	2.5	[R] 17.2	86.5	9.0	[R] 310.3	[R] 977.6	3,719.8	[R] 4,697.4
1988	0.9	734.8	120.4	1.1	[R] 14.7	94.0	6.5	[R] 236.7	[R] 972.5	3,970.0	[R] 4,942.4
1989	0.2	750.8	96.1	13.3	[R] 11.4	97.0	4.4	[R] 222.1	[R] 973.1	4,123.0	[R] 5,096.2
1990	**0.2**	**713.5**	**106.5**	**1.0**	**[R] 16.7**	**109.8**	**1.2**	**[R] 235.2**	**[R] 948.8**	**[R] 4,376.7**	**[R] 5,325.5**
1991	0.2	725.7	83.7	0.5	[R] 11.3	77.5	2.7	[R] 175.6	[R] 901.5	[R] 4,704.4	[R] 5,605.8
1992	0.2	755.3	81.9	2.4	[R] 9.2	68.8	0.2	[R] 162.4	[R] 917.9	[R] 4,810.1	[R] 5,728.0
1993	0.1	783.1	60.0	0.8	[R] 9.3	7.4	—	[R] 77.6	[R] 860.8	[R] 5,209.8	[R] 6,070.6
1994	(s)	780.4	59.8	0.9	[R] 20.4	7.5	(s)	[R] 88.7	[R] 869.1	[R] 5,464.6	[R] 6,333.8
1995	**—**	**857.2**	**53.5**	**1.5**	**19.5**	**7.9**	**(s)**	**82.4**	**939.6**	**5,314.4**	**6,254.0**

[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 272. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Texas

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.86**	**0.38**	**0.20**	**0.74**	**0.66**	**0.76**	**1.00**	**5.08**	**2.66**	**0.37**	**0.79**	**0.96**	**—**	**0.53**	**2.51**	**0.63**
1971	0.44	0.76	0.45	0.24	0.76	0.70	0.80	1.08	5.27	2.73	0.47	R 0.88	1.03	—	0.57	2.48	0.67
1972	0.57	0.90	0.58	0.25	0.78	0.70	0.80	1.11	5.58	2.70	0.47	0.87	1.04	—	0.63	2.60	0.73
1973	0.66	0.84	0.76	0.30	0.77	0.83	0.95	1.26	5.33	2.79	0.54	0.99	1.15	—	0.70	2.85	0.81
1974	1.23	1.31	1.28	0.51	1.56	1.88	2.16	2.41	7.22	3.98	1.31	R 1.98	R 2.20	—	1.34	3.68	1.47
1975	**1.60**	**1.01**	**1.20**	**0.92**	**1.77**	**2.02**	**2.23**	**2.42**	**7.48**	**4.36**	**1.51**	**R 2.48**	**R 2.40**	**—**	**1.73**	**4.70**	**1.95**
1976	1.67	1.84	1.79	1.27	1.85	2.47	2.85	2.55	7.05	4.56	1.81	R 2.84	2.68	—	2.09	5.79	R 2.36
1977	1.76	1.66	1.69	1.23	2.00	2.66	3.10	3.00	6.97	4.85	1.91	3.20	3.04	—	R 2.31	6.73	2.66
1978	1.89	2.06	2.03	1.86	2.22	2.84	3.33	2.47	7.60	4.88	1.95	R 3.29	2.94	—	2.49	7.38	2.87
1979	1.75	2.28	2.09	1.84	2.51	4.24	4.69	4.25	10.21	6.59	2.70	R 4.46	R 4.29	—	R 3.46	8.51	3.87
1980	**1.81**	**0.89**	**1.28**	**2.24**	**3.79**	**6.09**	**6.89**	**5.22**	**14.36**	**9.26**	**3.69**	**R 6.53**	**R 5.89**	**—**	**R 4.33**	**9.99**	**R 4.73**
1981	2.03	1.48	1.59	2.81	5.18	6.79	7.61	5.92	18.00	10.50	3.98	R 8.26	R 6.86	—	R 5.01	12.44	R 5.53
1982	2.04	1.68	1.72	3.30	4.42	6.32	7.25	6.05	17.25	9.83	4.44	R 7.03	R 6.37	—	R 5.06	14.92	R 5.83
1983	1.58	1.71	1.71	3.34	4.24	6.40	6.83	6.57	16.98	8.74	4.46	R 6.24	R 6.35	—	R 5.05	15.32	R 5.90
1984	1.91	1.65	1.69	3.68	4.19	6.41	8.08	6.40	17.63	8.66	4.47	R 6.11	R 6.33	—	R 5.17	14.26	R 5.88
1985	**1.93**	**1.60**	**1.64**	**3.07**	**4.20**	**6.10**	**7.68**	**R 4.48**	**17.61**	**8.79**	**3.87**	**R 5.92**	**R 5.25**	**—**	**R 4.25**	**14.15**	**R 5.00**
1986	1.75	1.50	1.51	2.36	4.58	3.68	4.64	R 4.33	15.59	6.47	2.00	R 3.47	R 4.15	—	R 3.38	12.51	R 4.08
1987	—	1.27	1.27	1.98	3.35	4.34	5.47	R 3.78	R 13.58	7.19	2.67	R 4.12	R 4.07	—	R 3.16	11.82	R 3.79
1988	—	1.31	1.31	2.11	3.21	3.88	4.89	R 3.68	R 14.62	7.32	1.90	R 3.46	R 3.76	—	R 3.01	11.87	R 3.62
1989	—	1.27	1.27	2.15	2.84	4.60	5.80	R 2.68	14.48	7.92	2.33	R 4.17	R 3.46	—	2.83	11.96	R 3.45
1990	**—**	**1.14**	**1.14**	**2.09**	**2.94**	**5.91**	**7.44**	**R 4.25**	**14.60**	**9.16**	**2.60**	**R 5.11**	**R 4.75**	**d R 1.25**	**d R 3.53**	**11.82**	**d 4.10**
1991	—	1.23	1.23	1.86	3.33	5.14	6.48	R 4.37	R 16.80	9.09	1.95	R 4.43	R 4.58	1.35	R 3.34	R 12.15	3.93
1992	—	1.27	1.27	2.02	2.33	4.90	6.17	R 4.15	R 18.32	9.05	2.07	R 4.18	R 4.32	R 1.34	3.30	12.31	R 3.91
1993	—	1.16	1.16	2.44	3.14	4.77	6.01	R 3.97	R 18.96	8.90	1.94	R 3.70	R 4.08	R 1.33	R 3.30	12.67	R 3.92
1994	—	1.26	1.26	2.11	2.94	4.50	5.68	R 5.14	R 19.11	8.94	2.12	R 3.60	R 4.71	R 1.32	R 3.54	12.52	4.13
1995	**—**	**1.25**	**1.25**	**1.81**	**3.18**	**4.48**	**5.65**	**5.02**	**19.40**	**9.21**	**2.46**	**3.94**	**4.78**	**1.36**	**3.43**	**11.68**	**3.96**
	Expenditures in Million Nominal Dollars																
1970	**11.6**	**0.2**	**11.8**	**258.3**	**58.0**	**33.9**	**16.7**	**481.0**	**79.6**	**19.7**	**4.5**	**R 235.9**	**R 929.3**	**—**	**R 1,199.4**	**314.5**	**R 1,514.0**
1971	10.2	0.5	10.7	340.8	58.1	38.2	12.2	529.2	84.6	21.7	4.6	R 299.0	R 1,047.4	—	R 1,398.9	324.0	R 1,722.9
1972	13.4	0.6	14.0	328.2	58.5	54.8	17.0	636.8	95.9	17.3	7.9	R 330.1	R 1,218.4	—	R 1,560.5	371.7	R 1,932.2
1973	17.6	27.6	45.2	448.3	60.3	70.9	18.6	758.5	103.3	17.3	24.7	R 412.8	R 1,466.4	—	R 1,959.8	439.0	R 2,398.9
1974	29.9	47.1	77.0	677.5	126.7	154.2	39.0	1,399.3	134.2	23.9	71.0	R 843.4	R 2,791.7	—	R 3,546.2	587.2	R 4,133.4
1975	**41.0**	**52.3**	**93.3**	**834.9**	**95.7**	**168.1**	**37.5**	**1,241.2**	**117.3**	**22.8**	**99.0**	**R 1,025.1**	**R 2,806.7**	**—**	**R 3,734.9**	**798.2**	**R 4,533.1**
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	R 1,610.2	R 3,571.1	—	R 4,878.8	1,083.4	R 5,962.2
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	R 2,155.1	R 4,533.2	—	R 5,828.8	1,434.3	R 7,263.1
1978	20.4	103.8	124.3	1,987.1	105.4	425.7	73.2	1,307.4	169.7	18.5	146.8	R 2,381.1	R 4,627.8	—	R 6,739.1	1,669.1	R 8,408.2
1979	52.8	122.0	174.8	1,589.8	156.2	781.1	196.9	2,706.8	238.5	30.4	272.4	R 3,510.8	R 7,893.1	—	R 9,657.7	2,052.3	R 11,710.0
1980	**47.9**	**32.9**	**80.9**	**2,840.6**	**274.5**	**701.9**	**464.9**	**3,470.9**	**298.7**	**22.9**	**300.1**	**R 5,259.0**	**R 10,792.9**	**—**	**R 13,714.3**	**2,401.7**	**R 16,116.0**
1981	37.8	107.6	145.4	3,928.9	272.5	1,117.6	165.0	4,199.9	359.2	41.4	624.9	R 5,707.7	R 12,488.1	—	R 16,562.4	3,094.1	R 19,656.6
1982	21.0	122.2	143.2	3,561.9	230.2	999.4	348.3	4,064.2	313.9	32.9	693.9	R 3,890.4	R 10,573.1	—	R 14,278.2	3,562.2	R 17,840.4
1983	0.5	112.0	112.4	3,665.9	329.6	1,197.7	92.3	4,448.8	323.6	24.5	365.7	R 3,411.9	R 10,194.2	—	R 13,972.6	3,855.9	R 17,828.5
1984	25.6	130.1	155.7	4,368.8	298.0	1,178.6	147.9	5,881.7	358.3	102.3	242.7	R 3,222.3	R 11,431.7	—	R 15,956.2	3,699.4	R 19,655.5
1985	**20.9**	**117.6**	**138.5**	**3,940.8**	**329.2**	**969.9**	**18.0**	**R 3,982.6**	**333.4**	**217.1**	**133.2**	**R 3,166.5**	**R 9,149.9**	**—**	**R 13,229.2**	**3,621.9**	**R 16,851.1**
1986	3.6	105.1	108.7	2,775.0	414.4	588.5	12.0	R 3,786.3	288.6	154.3	16.7	R 1,907.2	R 7,168.0	—	R 10,051.8	3,108.9	R 13,160.6
1987	—	78.4	78.4	2,507.9	279.8	663.2	13.8	R 3,638.9	R 284.2	159.1	16.8	R 2,184.8	R 7,240.5	—	R 9,826.8	2,916.5	R 12,743.4
1988	—	68.3	68.3	3,131.1	307.9	624.6	3.7	R 3,825.2	295.0	158.8	9.3	R 1,936.5	R 7,161.0	—	R 10,360.5	3,041.7	R 13,402.2
1989	—	79.1	79.1	3,476.9	182.7	673.2	8.2	R 2,933.4	299.8	187.7	5.0	R 2,298.3	R 6,588.4	—	R 10,144.4	3,103.0	R 13,247.4
1990	**—**	**69.9**	**69.9**	**3,188.7**	**273.0**	**890.0**	**6.3**	**R 4,380.2**	**311.0**	**207.5**	**15.2**	**R 3,114.6**	**R 9,197.8**	**d R 17.3**	**d R 12,473.6**	**R 3,106.7**	**d R 15,580.3**
1991	—	77.8	77.8	2,915.7	206.8	692.1	1.7	R 4,980.0	320.1	220.4	7.2	R 2,852.3	R 9,280.6	R 19.5	R 12,293.6	R 3,205.5	R 15,499.1
1992	—	76.9	76.9	3,112.5	182.3	656.4	2.9	R 4,934.4	R 355.9	206.3	4.7	R 2,721.4	R 9,064.2	R 18.9	R 12,272.6	R 3,304.6	R 15,577.3
1993	—	82.0	82.0	4,019.0	264.9	620.1	3.3	R 4,542.8	R 375.1	160.8	20.1	R 2,416.3	R 8,403.5	R 19.5	R 12,523.9	R 3,417.2	R 15,941.1
1994	—	104.6	104.6	R 3,429.6	213.7	495.8	3.2	R 6,595.4	R 395.2	176.2	24.9	R 2,393.1	R 10,297.7	R 19.9	R 13,851.8	R 3,430.6	R 17,282.3
1995	**—**	**79.8**	**79.8**	**3,120.9**	**248.7**	**430.0**	**4.1**	**6,654.1**	**394.3**	**190.8**	**28.8**	**2,514.7**	**10,465.6**	**22.4**	**13,688.7**	**3,198.8**	**16,887.6**

[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.

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 273. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Texas

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.86**	**—**	**2.17**	**1.05**	**0.72**	**1.00**	**5.08**	**2.66**	**0.42**	**2.07**	**2.07**	**—**	**2.07**
1971	0.76	—	2.21	1.15	0.75	1.08	5.27	2.73	0.45	2.16	2.16	—	2.16
1972	0.90	—	2.19	1.15	0.75	1.11	5.58	2.70	0.58	2.14	2.14	—	2.14
1973	0.84	—	2.36	1.40	0.89	1.26	5.33	2.79	0.53	2.20	2.20	—	2.20
1974	1.31	—	3.23	2.33	1.54	2.41	7.22	3.98	1.39	3.22	3.22	—	3.22
1975	**1.01**	**—**	**3.45**	**2.49**	**2.01**	**2.42**	**7.48**	**4.36**	**1.63**	**3.54**	**3.54**	**—**	**3.54**
1976	1.84	—	3.59	2.67	2.12	2.55	7.05	4.56	1.49	3.71	3.71	—	3.71
1977	1.66	—	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	2.86	2.47	7.60	4.88	1.51	3.96	3.96	—	3.96
1979	—	—	5.73	4.79	3.96	4.25	10.21	6.59	1.96	5.29	5.29	—	5.29
1980	**—**	**—**	**9.02**	**7.09**	**6.34**	**5.22**	**14.36**	**9.26**	**2.15**	**7.42**	**7.42**	**—**	**7.42**
1981	—	—	10.84	8.33	7.47	5.92	18.00	10.50	2.49	8.76	8.76	—	8.76
1982	—	—	10.92	7.86	7.09	6.05	17.25	9.83	2.81	8.37	8.37	—	8.37
1983	—	—	10.44	6.82	6.27	6.57	16.98	8.74	3.02	7.55	7.55	—	7.55
1984	—	—	10.27	6.80	6.04	6.40	17.63	8.66	3.25	7.44	7.44	—	7.44
1985	**—**	**—**	**9.99**	**6.50**	**5.67**	**R 4.48**	**17.61**	**8.79**	**4.03**	**7.44**	**7.44**	**—**	**7.44**
1986	—	—	8.41	5.84	3.56	R 4.33	15.59	6.47	1.42	5.36	5.36	—	5.36
1987	—	—	7.55	6.60	3.85	R 3.78	R 13.58	7.19	2.57	R 6.04	R 6.04	—	R 6.04
1988	—	—	7.41	6.44	3.57	R 3.68	R 14.62	7.32	1.83	5.89	5.89	—	5.89
1989	—	—	8.28	6.97	4.16	R 2.68	14.48	7.92	2.41	6.41	6.41	—	6.41
1990	**—**	**2.97**	**9.32**	**8.20**	**5.41**	**R 4.25**	**14.60**	**9.16**	**2.94**	**7.57**	**7.57**	**—**	**7.57**
1991	—	5.28	8.71	7.84	4.64	R 4.37	R 16.80	9.09	3.00	7.30	7.30	—	7.30
1992	—	4.32	8.54	7.99	4.32	R 4.15	R 18.32	9.05	1.90	7.13	7.13	—	7.13
1993	—	4.89	8.24	7.94	4.01	R 3.97	R 18.96	8.90	1.87	7.20	7.20	19.56	7.20
1994	—	3.27	7.96	7.87	3.73	R 8.54	R 19.11	8.94	2.02	7.25	7.25	—	7.25
1995	**—**	**2.76**	**8.36**	**7.84**	**3.74**	**8.84**	**19.40**	**9.21**	**1.94**	**7.34**	**7.34**	**—**	**7.34**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**22.0**	**137.5**	**97.4**	**21.1**	**50.0**	**1,946.6**	**30.9**	**2,305.5**	**2,305.6**	**—**	**2,305.6**
1971	(s)	—	22.3	162.5	105.0	25.9	52.0	2,104.5	27.7	2,499.8	2,499.9	—	2,499.9
1972	(s)	—	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	(s)	—	18.5	292.8	132.1	28.4	58.7	2,454.5	51.9	3,036.9	3,037.0	—	3,037.0
1974	(s)	—	26.2	520.1	222.8	47.6	76.2	3,467.3	186.2	4,546.3	4,546.4	—	4,546.4
1975	**(s)**	**—**	**22.8**	**542.6**	**306.2**	**44.6**	**78.9**	**3,982.0**	**256.2**	**5,233.3**	**5,233.3**	**—**	**5,233.3**
1976	(s)	—	23.0	599.3	303.7	48.4	82.6	4,404.6	251.0	5,712.6	5,712.6	—	5,712.6
1977	(s)	—	27.3	751.2	369.4	59.7	80.7	4,916.6	345.4	6,550.4	6,550.4	—	6,550.4
1978	—	—	27.7	834.9	447.0	45.3	94.4	5,136.1	346.2	6,931.7	6,931.7	—	6,931.7
1979	—	—	34.0	1,376.2	648.7	12.2	132.7	6,713.2	605.4	9,522.5	9,522.5	—	9,522.5
1980	**—**	**—**	**57.5**	**1,993.2**	**1,098.5**	**12.4**	**166.3**	**8,622.3**	**618.1**	**12,568.4**	**12,568.4**	**—**	**12,568.4**
1981	—	—	71.2	2,788.2	1,295.2	29.6	199.9	10,130.2	561.9	15,076.3	15,076.3	—	15,076.3
1982	—	—	49.8	2,613.1	1,706.4	26.2	174.7	9,764.9	537.7	14,872.8	14,872.8	—	14,872.8
1983	—	—	40.2	2,133.6	1,669.1	33.7	180.1	8,812.5	488.7	13,357.9	13,357.9	—	13,357.9
1984	—	—	49.9	2,214.9	2,202.2	19.2	199.4	8,766.4	506.4	13,958.3	13,958.3	—	13,958.3
1985	**—**	**—**	**66.4**	**2,136.1**	**2,383.1**	**R 9.8**	**185.6**	**9,172.2**	**547.0**	**R 14,500.3**	**R 14,500.3**	**—**	**R 14,500.3**
1986	—	—	65.4	1,800.9	1,614.0	R 12.0	160.6	6,893.7	227.7	R 10,774.4	R 10,774.4	—	R 10,774.4
1987	—	—	43.8	2,048.6	1,839.5	R 6.2	R 158.2	7,489.6	315.8	R 11,901.8	R 11,901.8	—	R 11,901.8
1988	—	—	37.9	1,971.0	1,911.9	R 6.2	164.2	7,786.0	252.7	R 12,130.0	R 12,130.0	—	R 12,130.0
1989	—	—	34.3	2,297.4	2,189.7	R 4.5	166.9	8,173.6	394.7	R 13,261.0	R 13,261.0	—	R 13,261.0
1990	**—**	**(s)**	**39.4**	**2,505.6**	**2,931.6**	**R 7.4**	**173.1**	**9,513.7**	**484.0**	**R 15,654.8**	**R 15,654.8**	**—**	**R 15,654.8**
1991	—	(s)	28.8	2,660.7	2,377.9	R 5.5	R 178.2	9,187.6	512.8	R 14,951.4	R 14,951.4	—	R 14,951.4
1992	—	(s)	33.8	2,970.9	2,198.6	R 4.7	R 198.1	9,268.4	356.7	R 15,031.1	R 15,031.1	R (s)	R 15,031.1
1993	—	0.4	28.8	3,091.8	1,975.4	R 5.0	R 208.8	9,532.4	236.4	R 15,078.6	R 15,078.9	(s)	R 15,078.9
1994	—	0.2	31.1	3,113.4	1,760.3	R 19.0	R 220.0	10,092.6	R 243.9	R 15,480.3	R 15,480.5	—	R 15,480.5
1995	**—**	**0.1**	**27.2**	**2,901.5**	**1,759.9**	**10.3**	**219.4**	**10,127.8**	**248.2**	**15,294.4**	**15,294.5**	**—**	**15,294.5**

[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.
Sources: 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, 1970-1995, Texas

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**—**	**0.24**	**0.47**	**0.63**	**—**	**0.51**	**—**	**0.65**	**0.25**
1971	0.21	0.28	0.50	0.67	—	0.52	—	0.69	0.28
1972	0.22	0.28	0.67	0.94	—	0.69	—	0.72	0.28
1973	0.12	0.27	0.59	1.22	—	0.60	—	0.77	0.27
1974	0.17	0.45	1.60	1.88	—	1.62	—	0.84	0.46
1975	**0.23**	**0.76**	**1.89**	**2.03**	**—**	**1.89**	**—**	**0.92**	**0.73**
1976	0.34	1.02	1.47	2.41	—	1.50	—	0.98	0.95
1977	0.58	1.22	1.90	2.52	—	1.93	—	1.04	1.15
1978	0.68	1.38	1.76	2.51	—	1.77	—	1.12	1.26
1979	0.98	1.59	2.20	4.95	—	2.37	—	1.56	1.44
1980	**1.21**	**1.84**	**2.59**	**3.83**	**—**	**3.35**	**—**	**1.74**	**1.65**
1981	1.46	2.46	2.92	4.33	—	3.75	—	1.24	2.11
1982	1.60	3.14	3.20	4.96	—	4.20	—	1.28	2.55
1983	1.68	3.17	3.29	5.18	—	4.13	—	1.12	2.54
1984	1.68	3.18	3.91	5.97	—	5.24	—	1.28	2.54
1985	**1.59**	**3.15**	**4.36**	**5.57**	**—**	**4.90**	**—**	**0.79**	**2.44**
1986	1.55	2.27	1.55	3.03	—	2.35	—	0.32	1.92
1987	1.55	2.06	2.76	3.87	—	3.26	—	0.95	1.80
1988	1.47	2.09	2.08	3.43	—	2.69	0.37	—	1.74
1989	1.45	2.15	2.74	4.20	—	3.51	0.42	0.35	1.73
1990	**1.45**	**2.10**	**3.50**	**5.78**	**—**	**5.14**	**0.56**	**0.35**	**1.67**
1991	1.50	1.97	3.47	4.91	—	4.56	0.49	0.35	1.61
1992	1.49	2.20	2.16	4.11	—	3.35	0.52	0.35	1.67
1993	1.44	2.41	2.07	3.85	0.84	2.09	0.69	0.35	1.81
1994	1.35	2.15	2.10	3.78	0.50	2.71	0.60	0.35	1.59
1995	**1.34**	**1.89**	**1.90**	**3.74**	**—**	**3.43**	**0.56**	**—**	**1.44**
	Expenditures in Million Nominal Dollars								
1970	**—**	**266.5**	**0.3**	**0.2**	**—**	**0.5**	**—**	**0.7**	**267.6**
1971	(s)	334.0	0.9	0.2	—	1.1	—	0.7	335.9
1972	5.6	370.0	7.4	0.4	—	7.9	—	0.8	384.2
1973	8.1	350.9	23.0	0.5	—	23.6	—	0.8	383.4
1974	12.3	606.2	51.4	4.4	—	55.8	—	0.8	675.1
1975	**26.9**	**1,050.0**	**20.6**	**0.9**	**—**	**21.5**	**—**	**0.9**	**1,099.3**
1976	55.6	1,426.5	34.5	1.9	—	36.4	—	1.0	1,519.4
1977	135.3	1,864.8	57.7	3.8	—	61.5	—	1.0	2,062.7
1978	241.5	2,122.9	74.6	2.3	—	77.0	—	1.1	2,442.4
1979	493.4	2,304.0	61.4	9.0	—	70.4	—	1.4	2,869.2
1980	**811.7**	**2,727.1**	**10.7**	**25.1**	**—**	**35.9**	**—**	**1.4**	**3,576.1**
1981	1,116.0	3,485.1	10.8	23.0	—	33.8	—	1.0	4,635.8
1982	1,352.1	4,170.9	18.4	37.3	—	55.7	—	0.8	5,579.5
1983	1,599.4	3,869.8	42.8	53.7	—	96.5	—	0.9	5,566.6
1984	1,644.5	4,138.1	8.0	21.9	—	29.9	—	1.5	5,814.0
1985	**1,694.0**	**3,907.0**	**24.2**	**25.1**	**—**	**49.3**	**—**	**2.5**	**5,652.8**
1986	1,688.7	2,600.4	3.6	8.3	—	12.0	—	1.0	4,302.1
1987	1,771.4	2,241.5	9.9	11.4	—	21.3	—	2.3	4,036.5
1988	1,782.4	2,253.8	9.6	13.1	—	22.6	15.1	—	4,073.9
1989	1,830.8	2,279.2	33.4	56.6	—	90.0	44.6	0.7	4,245.4
1990	**1,848.5**	**2,191.6**	**5.6**	**23.6**	**—**	**29.2**	**94.9**	**1.0**	**4,165.2**
1991	1,903.1	2,043.5	2.3	10.0	—	12.2	103.3	1.0	4,063.1
1992	1,884.0	2,180.4	2.4	7.1	—	9.5	135.9	1.0	4,210.8
1993	1,926.1	2,648.6	4.3	5.4	1.6	11.2	91.7	1.1	4,678.8
1994	1,754.9	2,309.8	4.5	4.8	(s)	9.4	184.1	1.1	4,259.3
1995	**1,735.5**	**2,023.8**	**0.7**	**7.2**	**—**	**8.0**	**214.4**	**—**	**3,981.7**

[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 275. Energy Price and Expenditure Estimates by Source, 1970-1995, Utah

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	**0.43**	**0.28**	**0.38**	**0.57**	**1.09**	**0.76**	**2.12**	**2.75**	**0.39**	**R 1.04**	**1.67**	**—**	**—**	**1.02**	**0.25**	**5.31**	**R 1.30**
1971	0.47	0.36	0.43	0.63	1.11	0.80	1.74	2.80	0.42	R 1.22	R 1.69	—	—	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	R 1.21	1.79	—	—	1.15	0.29	5.63	R 1.46
1973	0.61	0.37	0.49	0.71	1.33	0.94	4.00	2.99	0.76	R 1.32	R 2.02	—	—	R 1.25	0.36	5.65	1.60
1974	1.29	0.57	0.93	0.80	2.43	1.62	3.09	4.03	1.82	R 2.11	R 2.95	—	—	1.83	0.43	6.08	R 2.22
1975	**1.38**	**0.55**	**0.92**	**1.07**	**2.61**	**2.12**	**4.37**	**4.52**	**1.71**	**R 2.27**	**R 3.27**	**—**	**—**	**2.04**	**0.51**	**7.06**	**2.59**
1976	1.51	0.79	1.16	1.30	2.68	2.32	3.51	4.68	1.67	R 2.16	R 3.35	—	—	2.20	0.68	8.13	R 2.70
1977	1.58	0.84	1.14	1.48	2.93	2.71	4.24	4.88	2.06	R 2.35	R 3.61	—	—	2.38	0.80	8.78	3.14
1978	1.70	0.94	1.18	1.74	3.03	2.92	4.64	5.10	1.58	R 2.52	R 3.76	—	—	2.48	0.90	10.01	R 3.41
1979	1.74	1.17	1.31	2.08	4.48	4.08	4.87	7.19	2.45	R 3.22	R 5.32	—	—	R 3.17	1.09	11.39	R 4.42
1980	**1.97**	**1.16**	**1.35**	**2.33**	**6.54**	**6.59**	**5.68**	**9.80**	**3.70**	**R 4.73**	**R 7.46**	**—**	**—**	**R 4.04**	**1.20**	**13.11**	**R 5.76**
1981	2.26	1.29	1.51	2.74	7.52	7.67	5.54	10.98	4.76	R 6.43	R 9.05	—	—	R 4.55	1.31	14.49	R 6.68
1982	2.07	1.45	1.54	3.26	7.31	7.38	6.79	10.82	3.98	R 5.67	R 8.91	—	—	R 4.75	1.45	16.12	R 7.24
1983	1.58	1.39	1.42	3.57	6.93	7.02	7.50	9.01	4.20	R 5.47	R 7.77	—	—	R 4.38	1.39	17.39	R 6.90
1984	1.91	1.39	1.49	4.46	6.88	6.63	7.33	8.93	4.05	R 5.53	R 7.69	—	—	R 4.45	1.36	17.78	R 7.04
1985	**1.93**	**1.39**	**1.48**	**4.01**	**6.67**	**6.25**	**R 8.90**	**9.09**	**3.86**	**R 5.39**	**R 7.77**	**—**	**—**	**R 4.26**	**1.39**	**19.05**	**R 7.18**
1986	1.75	1.42	1.46	4.41	5.62	4.05	R 7.01	6.78	2.36	R 4.73	R 5.96	—	—	R 3.79	1.42	19.56	R 6.91
1987	—	1.25	1.25	4.16	5.97	4.19	R 6.88	7.44	2.16	R 3.96	R 6.26	—	—	3.40	1.27	19.15	R 7.30
1988	2.02	1.26	1.34	3.94	6.04	3.95	R 6.98	7.71	1.98	R 4.22	R 6.46	—	—	R 3.27	1.27	18.41	R 6.75
1989	1.92	1.25	1.31	3.99	6.77	4.60	R 8.87	8.24	1.67	R 3.75	R 6.91	—	—	3.35	1.25	17.10	R 6.76
1990	**1.84**	**1.18**	**1.24**	**4.17**	**8.04**	**5.75**	**R 8.91**	**9.09**	**2.67**	**R 4.03**	**R 7.79**	**—**	**d R 3.55**	**d 3.53**	**1.18**	**16.09**	**d R 7.08**
1991	1.99	1.21	1.28	4.21	7.36	5.13	R 9.39	8.81	2.31	R 3.98	R 7.21	—	3.55	3.59	1.21	R 16.09	R 6.87
1992	2.00	1.21	1.28	R 4.24	7.29	4.96	R 9.66	8.95	1.78	R 4.17	R 7.44	—	R 3.63	R 3.56	1.22	15.61	R 7.08
1993	1.95	1.19	1.24	3.99	7.24	4.91	R 9.45	8.76	1.96	R 4.11	R 7.34	—	R 3.58	3.50	1.21	15.69	R 6.87
1994	1.90	1.14	1.19	3.64	7.09	4.56	R 8.01	8.93	1.94	R 4.21	R 7.37	—	R 3.55	R 3.41	1.17	15.78	R 6.89
1995	**1.97**	**1.08**	**1.15**	**3.37**	**7.54**	**4.84**	**7.72**	**9.17**	**1.86**	**4.32**	**7.64**	**—**	**3.60**	**3.58**	**1.13**	**15.63**	**6.93**
	Expenditures in Million Nominal Dollars																
1970	**22.7**	**7.4**	**30.1**	**61.5**	**32.4**	**7.6**	**6.7**	**177.5**	**10.3**	**R 18.9**	**R 253.4**	**—**	**—**	**R 345.0**	**-6.4**	**92.0**	**R 430.6**
1971	23.0	10.7	33.7	67.3	42.1	8.6	5.9	190.6	11.6	R 21.2	R 279.9	—	—	R 380.9	-6.7	102.0	R 476.2
1972	23.6	10.6	34.2	71.4	40.6	8.6	9.8	209.7	10.7	R 24.8	R 304.2	—	—	R 409.8	-7.4	113.9	R 516.3
1973	30.7	17.8	48.5	77.3	62.1	9.9	14.0	229.2	14.6	R 24.9	R 354.7	—	—	R 480.5	-11.0	129.5	R 599.0
1974	68.7	30.8	99.6	83.8	125.8	16.8	11.2	305.8	42.5	R 39.9	R 542.1	—	—	R 725.4	-15.3	145.4	R 855.5
1975	**71.7**	**35.3**	**107.0**	**113.6**	**137.5**	**22.4**	**15.4**	**357.3**	**43.5**	**R 37.3**	**R 613.4**	**—**	**—**	**R 833.9**	**-26.2**	**186.9**	**R 994.6**
1976	79.4	39.0	118.4	163.7	131.6	23.6	12.9	387.2	43.6	R 42.0	R 640.9	—	—	R 923.0	-22.1	215.1	R 1,116.0
1977	84.4	66.8	151.2	129.6	149.9	30.7	12.0	423.2	53.2	R 49.1	R 718.1	—	—	R 998.9	-52.3	257.1	R 1,203.7
1978	77.6	92.3	169.9	173.5	161.4	35.2	10.8	468.4	36.9	R 50.9	R 763.5	—	—	R 1,106.8	-73.8	324.0	R 1,357.1
1979	73.2	150.5	223.6	212.8	250.1	52.1	27.9	622.2	43.0	R 70.5	R 1,065.6	—	—	R 1,502.1	-114.0	396.5	R 1,784.6
1980	**77.9**	**149.2**	**227.1**	**255.6**	**319.7**	**96.4**	**23.8**	**799.6**	**74.8**	**R 86.5**	**R 1,400.8**	**—**	**—**	**R 1,883.5**	**-141.2**	**469.3**	**R 2,211.7**
1981	89.4	176.0	265.3	284.1	310.9	103.3	30.7	897.1	22.8	R 89.4	R 1,454.2	—	—	R 2,003.7	-153.3	569.8	R 2,420.2
1982	47.0	198.0	244.9	327.1	274.1	115.0	37.0	898.0	14.2	R 80.3	R 1,418.5	—	—	R 1,990.6	-170.5	665.0	R 2,485.0
1983	35.1	192.3	227.4	390.1	257.7	128.7	41.2	754.8	31.3	R 73.6	R 1,287.3	—	—	R 1,904.8	-168.2	712.6	R 2,449.2
1984	68.0	208.6	276.6	489.7	276.2	126.3	34.9	757.7	14.6	R 95.4	R 1,305.0	—	—	R 2,071.4	-178.2	757.9	R 2,651.1
1985	**64.8**	**230.2**	**295.0**	**439.9**	**230.8**	**133.0**	**R 44.4**	**775.3**	**1.7**	**R 102.9**	**R 1,288.1**	**—**	**—**	**R 2,022.9**	**-208.0**	**830.7**	**R 2,645.7**
1986	36.9	238.1	275.0	365.0	239.3	98.4	R 36.9	624.7	0.7	R 76.2	R 1,076.3	—	—	R 1,716.2	-222.5	852.9	R 2,346.7
1987	—	342.0	342.0	348.4	235.3	116.8	R 38.5	687.1	1.5	R 68.0	R 1,147.2	—	—	R 1,837.6	-331.1	861.6	R 2,368.1
1988	63.8	387.5	451.3	376.3	258.0	110.4	R 34.0	735.7	0.6	R 61.5	R 1,200.2	—	—	R 2,027.7	-367.6	895.9	R 2,556.0
1989	60.6	391.4	452.0	406.0	243.7	131.7	R 43.0	749.2	0.2	R 70.8	R 1,238.6	—	—	R 2,096.7	-367.7	853.9	R 2,582.9
1990	**60.8**	**394.2**	**455.0**	**419.4**	**343.9**	**171.0**	**R 33.3**	**794.2**	**2.1**	**R 68.5**	**R 1,412.9**	**—**	**d R 7.5**	**d R 2,294.8**	**-370.7**	**R 831.0**	**d R 2,755.1**
1991	63.5	377.6	441.1	512.8	334.1	170.3	R 24.4	795.4	0.3	R 106.8	R 1,431.3	—	7.8	R 2,393.0	-362.7	R 857.9	R 2,888.2
1992	59.8	403.4	463.2	R 481.3	342.6	156.3	R 23.3	842.4	0.2	R 79.3	R 1,444.0	—	R 8.1	R 2,396.6	-395.5	R 867.8	R 2,869.0
1993	52.6	406.0	458.5	512.6	337.3	152.6	R 25.9	866.6	1.4	R 79.2	R 1,463.0	—	R 7.8	R 2,441.9	-399.0	R 887.1	R 2,930.0
1994	51.2	398.5	449.8	457.8	346.9	135.2	R 22.2	912.0	1.4	R 80.7	R 1,498.5	—	R 7.7	R 2,413.7	-395.5	944.5	R 2,962.7
1995	**52.2**	**358.0**	**410.2**	**439.3**	**402.3**	**154.3**	**42.4**	**1,000.7**	**0.8**	**92.5**	**1,692.9**	**—**	**8.4**	**2,550.8**	**-358.2**	**967.5**	**3,160.0**

[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 276. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Utah

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**0.76**	**0.91**	**1.28**	**2.62**	**2.31**	**2.06**	**—**	**0.99**	**6.69**	**1.62**
1971	0.73	0.93	1.36	3.00	1.84	1.70	—	0.98	6.90	1.62
1972	0.73	0.96	1.36	3.17	2.78	2.37	—	1.08	6.92	1.77
1973	0.72	1.04	1.58	3.57	4.90	3.57	—	1.25	6.97	1.99
1974	1.23	1.12	2.51	4.60	3.58	3.12	—	1.29	7.37	2.11
1975	**1.33**	**1.28**	**2.84**	**5.16**	**5.77**	**4.31**	**—**	**1.49**	**8.84**	**2.37**
1976	1.52	1.45	2.94	4.77	4.13	3.57	—	1.59	10.01	2.57
1977	1.71	1.72	3.25	5.50	5.00	4.07	—	1.94	10.86	3.65
1978	2.20	2.02	3.30	5.86	5.02	4.12	—	2.18	12.76	3.88
1979	3.65	2.32	4.51	8.22	6.74	5.59	—	2.54	14.24	4.22
1980	**3.02**	**2.51**	**6.89**	**—**	**8.68**	**8.08**	**—**	**2.69**	**16.92**	**4.64**
1981	4.34	3.00	8.22	15.04	7.75	8.40	—	3.20	18.45	5.61
1982	3.81	3.63	8.24	15.05	8.91	9.35	—	3.95	19.70	7.33
1983	3.40	3.96	6.68	14.09	9.35	8.87	—	4.19	21.36	7.09
1984	3.78	5.29	6.25	14.01	8.47	8.15	—	5.39	21.71	8.16
1985	**3.46**	**4.52**	**7.25**	**16.24**	**9.25**	**9.07**	**—**	**4.67**	**22.80**	**7.69**
1986	3.42	4.89	4.04	9.06	6.93	6.49	—	4.93	23.27	8.37
1987	2.62	4.60	3.73	8.35	7.34	6.65	—	4.69	23.28	8.73
1988	2.63	4.73	3.86	8.63	7.49	6.61	—	4.78	22.88	8.75
1989	3.01	4.73	5.43	12.17	12.23	9.66	—	4.93	21.68	8.43
1990	**3.02**	**4.85**	**7.20**	**16.13**	**9.19**	**8.59**	**[d] 4.75**	**[d] 4.94**	**[R] 20.90**	**[d R] 8.15**
1991	3.06	5.07	6.86	15.36	9.59	8.62	4.75	5.12	[R] 20.86	[R] 8.09
1992	2.80	5.05	7.08	15.85	10.06	9.04	4.75	5.10	20.43	8.30
1993	2.47	4.75	4.12	9.24	10.06	6.87	4.75	4.77	[R] 20.08	7.83
1994	2.28	4.64	4.32	9.67	[R] 9.93	[R] 7.03	4.75	[R] 4.66	[R] 20.26	[R] 8.12
1995	**2.21**	**4.46**	**6.38**	**14.29**	**10.07**	**8.70**	**4.75**	**4.54**	**20.34**	**8.06**
	Expenditures in Million Nominal Dollars									
1970	**0.7**	**37.9**	**1.1**	**0.1**	**6.0**	**7.2**	**—**	**45.9**	**38.5**	**84.4**
1971	1.5	43.5	1.8	0.2	5.1	7.1	—	52.1	44.2	96.3
1972	1.0	44.0	1.8	0.2	8.8	10.8	—	55.8	47.8	103.6
1973	1.2	48.0	2.8	0.2	12.9	15.9	—	65.2	54.0	119.1
1974	3.7	53.9	4.7	0.1	8.8	13.6	—	71.2	63.5	134.7
1975	**1.5**	**72.8**	**5.9**	**0.1**	**12.1**	**18.1**	**—**	**92.3**	**75.2**	**167.5**
1976	2.5	91.6	5.8	0.1	9.1	14.9	—	109.0	91.3	200.3
1977	3.9	58.2	6.4	0.1	8.5	15.0	—	77.1	102.3	179.3
1978	5.0	92.2	6.5	0.1	8.8	15.4	—	112.5	126.3	238.8
1979	16.2	134.3	6.1	0.4	7.9	14.4	—	165.0	155.9	320.9
1980	**5.8**	**158.0**	**4.5**	**—**	**11.1**	**15.6**	**—**	**179.4**	**179.9**	**359.4**
1981	6.9	176.8	3.5	2.2	10.8	16.5	—	200.2	216.4	416.6
1982	5.5	156.7	6.0	3.9	13.8	23.8	—	186.0	254.4	440.4
1983	5.2	234.3	6.4	3.2	17.8	27.3	—	266.9	277.3	544.2
1984	7.9	310.5	6.1	2.7	19.5	28.3	—	346.7	285.7	632.4
1985	**7.2**	**285.3**	**3.1**	**0.9**	**21.0**	**25.0**	**—**	**317.5**	**310.1**	**627.6**
1986	5.3	267.4	1.8	0.2	15.7	17.7	—	290.4	316.7	607.1
1987	2.7	206.4	2.2	0.4	17.4	20.0	—	229.1	316.1	545.3
1988	4.2	215.9	3.0	0.3	17.3	20.6	—	240.6	324.0	564.6
1989	5.6	232.2	5.8	0.4	21.0	27.2	—	264.9	308.0	572.9
1990	**6.5**	**229.3**	**5.7**	**0.4**	**14.1**	**20.3**	**[d] 5.9**	**[d] 262.0**	**[R] 302.9**	**[d R] 564.9**
1991	7.6	275.1	6.4	0.4	14.4	21.3	6.2	310.2	[R] 317.5	[R] 627.7
1992	5.0	243.2	4.8	0.2	12.2	17.1	6.6	271.9	314.0	585.9
1993	2.4	265.6	3.6	0.2	7.3	11.1	6.2	285.4	[R] 323.7	[R] 609.1
1994	2.0	242.7	2.8	0.3	[R] 5.9	[R] 9.0	6.1	[R] 259.7	[R] 346.3	[R] 606.0
1995	**1.4**	**232.1**	**3.1**	**0.2**	**7.6**	**11.0**	**6.8**	**251.3**	**349.9**	**601.2**

[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 277. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Utah

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.29**	**0.63**	**1.06**	**0.71**	**1.20**	**2.75**	**0.27**	**0.84**	**0.70**	**5.32**	**1.78**
1971	0.37	0.68	1.09	0.70	1.24	2.80	0.28	0.86	0.72	5.47	1.78
1972	0.33	0.76	1.09	0.70	1.13	2.84	0.28	0.90	0.78	5.62	2.04
1973	0.37	0.84	1.33	0.92	1.25	2.99	0.63	1.18	0.96	5.72	2.14
1974	0.72	0.98	2.27	2.11	2.07	4.03	1.58	2.05	1.52	6.03	2.66
1975	**0.74**	**1.60**	**2.49**	**2.35**	**2.30**	**4.52**	**1.55**	**2.22**	**1.94**	**7.15**	**3.30**
1976	0.97	1.61	2.64	2.60	2.59	4.68	1.50	2.24	1.86	7.92	3.18
1977	1.06	1.82	2.91	2.74	3.09	4.88	2.13	2.69	2.18	8.91	3.82
1978	1.09	1.74	2.99	2.82	3.49	5.10	1.69	2.61	2.11	10.32	4.39
1979	1.25	2.43	4.24	3.75	4.38	7.19	2.63	3.84	2.69	11.86	6.02
1980	**1.07**	**5.12**	**6.42**	**5.82**	**4.36**	**9.80**	**3.69**	**5.14**	**4.30**	**13.22**	**7.70**
1981	1.21	4.97	7.73	6.56	4.79	10.98	—	7.90	4.16	15.03	11.20
1982	1.47	3.65	7.62	6.61	5.94	10.82	4.70	7.69	3.97	16.78	7.69
1983	1.49	4.01	6.49	7.42	6.52	9.01	4.49	6.35	4.51	18.54	9.87
1984	1.47	4.61	6.39	6.87	6.26	8.93	4.00	6.23	4.51	18.77	10.61
1985	**1.28**	**4.57**	**6.03**	**6.62**	**[R] 8.60**	**9.09**	**3.94**	**[R] 6.46**	**[R] 4.32**	**20.09**	**11.79**
1986	1.29	4.99	3.75	4.22	[R] 7.07	6.78	2.40	[R] 4.12	[R] 3.81	20.49	12.77
1987	1.08	4.61	4.21	4.57	[R] 6.54	7.44	2.16	[R] 4.40	[R] 4.28	20.06	[R] 10.75
1988	1.12	3.77	3.89	4.35	[R] 6.53	7.71	1.98	[R] 4.33	[R] 3.60	19.91	9.86
1989	1.19	3.83	4.64	5.18	[R] 7.02	8.24	1.66	[R] 5.25	[R] 3.67	18.87	[R] 9.97
1990	**1.23**	**3.95**	**5.81**	**6.50**	**[R] 8.71**	**9.09**	**2.51**	**[R] 6.08**	**[R] 3.80**	**[R] 17.34**	**9.53**
1991	1.14	4.19	5.13	5.67	[R] 9.12	8.81	2.31	[R] 5.75	3.90	17.10	9.14
1992	1.09	4.08	4.97	5.57	[R] 9.26	8.95	1.78	[R] 5.55	3.88	[R] 16.79	9.65
1993	1.11	3.76	4.97	5.61	[R] 9.23	8.76	1.96	[R] 4.95	3.70	[R] 16.82	[R] 9.09
1994	1.16	3.59	4.65	[R] 5.48	[R] 8.68	8.93	1.94	[R] 4.83	3.59	[R] 16.68	8.77
1995	**0.89**	**3.42**	**4.79**	**5.63**	**8.41**	**9.17**	**1.86**	**5.04**	**3.48**	**16.80**	**8.85**
	Expenditures in Million Nominal Dollars										
1970	**0.5**	**6.0**	**3.2**	**0.2**	**0.6**	**2.9**	**1.4**	**8.2**	**14.8**	**34.3**	**49.0**
1971	1.4	5.4	5.2	0.3	0.6	2.8	1.6	10.4	17.3	37.9	55.1
1972	0.9	5.6	5.4	0.3	0.6	2.9	1.4	10.6	17.0	42.7	59.7
1973	1.2	7.2	8.5	0.3	0.6	2.9	3.1	15.5	23.8	47.2	71.0
1974	4.0	5.4	15.6	0.4	0.9	2.8	9.8	29.4	38.8	51.8	90.6
1975	**1.5**	**9.2**	**18.8**	**0.4**	**0.9**	**5.0**	**10.7**	**35.8**	**46.4**	**60.5**	**106.9**
1976	2.9	22.4	18.8	0.4	1.0	4.9	11.2	36.3	61.7	72.8	134.5
1977	4.5	16.7	20.8	0.3	0.9	5.1	14.9	42.0	63.2	83.6	146.8
1978	4.6	14.1	21.5	0.3	1.1	4.6	9.7	37.2	55.9	105.3	161.2
1979	10.3	(s)	21.0	1.2	0.9	6.0	10.5	39.7	50.0	125.7	175.7
1980	**3.8**	**1.8**	**38.4**	**1.1**	**1.0**	**4.1**	**24.4**	**69.0**	**74.7**	**141.7**	**216.4**
1981	3.6	1.8	9.3	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	5.6	1.1	27.1	105.9	183.6	289.5
1983	4.3	34.5	29.7	0.4	2.2	6.2	6.3	44.7	83.5	211.9	295.4
1984	5.7	42.5	29.9	0.3	2.5	3.6	3.4	39.7	87.9	273.4	361.3
1985	**4.9**	**41.7**	**19.0**	**0.7**	**[R] 3.4**	**4.2**	**1.1**	**[R] 28.5**	**[R] 75.1**	**315.0**	**[R] 390.1**
1986	3.7	21.9	19.9	0.1	[R] 2.8	3.2	0.6	[R] 26.7	[R] 52.3	327.3	[R] 379.7
1987	2.0	73.8	18.1	0.5	[R] 2.7	3.6	1.5	[R] 26.4	[R] 102.3	332.9	[R] 435.1
1988	3.3	73.1	15.8	0.1	[R] 2.7	3.6	0.6	[R] 22.8	[R] 99.2	342.0	[R] 441.2
1989	4.1	68.7	12.4	0.1	[R] 2.1	3.9	0.1	[R] 18.7	[R] 91.5	333.0	[R] 424.5
1990	**4.9**	**69.7**	**12.2**	**0.2**	**[R] 2.4**	**4.6**	**1.2**	**[R] 20.5**	**[R] 95.1**	**[R] 318.9**	**414.0**
1991	5.2	86.7	14.0	0.3	[R] 2.4	3.8	0.3	[R] 20.8	[R] 112.8	325.0	[R] 437.8
1992	3.7	73.0	13.6	(s)	[R] 2.0	3.4	0.2	[R] 19.3	[R] 95.9	335.0	[R] 430.9
1993	2.0	91.7	10.6	0.1	[R] 1.2	0.9	0.7	13.5	107.2	[R] 339.7	[R] 447.0
1994	1.8	101.8	13.1	[R] (s)	0.9	1.0	0.2	[R] 15.3	[R] 118.9	[R] 360.9	479.8
1995	**1.0**	**97.6**	**12.3**	**(s)**	**1.1**	**1.0**	**0.2**	**14.7**	**113.4**	**370.4**	**483.7**

[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.
(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 278. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Utah

	Primary Energy																
	Coal				Petroleum												
	Coking Coal	Steam Coal	Total	Natural Gas	Asphalt and Road Oil	Distillate Fuel	Kerosene	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Other [b]	Total	Biofuels	Total [c]	Electricity	Total Energy [c]
Year	Prices in Nominal Dollars per Million Btu																
1970	**0.43**	**0.29**	**0.40**	**0.32**	**0.57**	**0.66**	**0.71**	**1.20**	**5.08**	**2.75**	**0.60**	**0.51**	**R 0.75**	**—**	**0.46**	**3.75**	**0.56**
1971	0.47	0.37	0.45	0.36	0.81	0.66	0.70	1.24	5.27	2.80	0.67	R 0.63	0.83	—	0.52	3.90	0.63
1972	0.52	0.33	0.47	0.39	0.83	0.65	0.70	1.13	5.58	2.84	0.67	0.60	R 0.83	—	0.54	4.09	0.67
1973	0.61	0.37	0.54	0.42	0.86	0.86	0.92	1.25	5.33	2.99	0.83	R 0.61	R 0.95	—	0.62	4.08	0.76
1974	1.29	0.72	1.17	0.48	1.70	1.96	2.11	2.07	7.22	4.03	1.92	R 0.84	R 1.90	—	1.20	4.49	1.33
1975	**1.38**	**0.74**	**1.26**	**0.73**	**1.79**	**2.18**	**2.35**	**2.30**	**7.48**	**4.52**	**1.78**	**1.41**	**R 2.02**	**—**	**1.38**	**5.39**	**1.60**
1976	1.51	0.97	1.39	1.02	1.62	2.44	2.60	2.59	7.05	4.68	1.75	1.57	2.07	—	1.51	6.27	1.73
1977	1.58	1.06	1.47	1.24	1.75	2.57	2.74	3.09	6.97	4.88	2.04	1.84	R 2.28	—	1.69	6.80	2.00
1978	1.70	1.09	1.53	1.49	1.92	2.59	2.82	3.49	7.60	5.10	1.53	1.63	2.17	—	1.74	7.53	2.16
1979	1.74	1.25	1.59	1.81	2.45	3.64	3.75	4.38	10.21	7.19	2.36	R 1.96	R 3.13	—	2.19	8.67	R 2.70
1980	**1.97**	**1.07**	**1.77**	**2.08**	**3.65**	**5.49**	**5.82**	**4.36**	**14.36**	**9.80**	**3.71**	**R 2.76**	**R 4.41**	**—**	**2.74**	**10.22**	**R 3.45**
1981	2.26	1.21	1.93	2.40	4.50	6.23	6.56	4.79	18.00	10.98	4.78	R 3.56	R 5.55	—	R 3.00	11.50	R 3.98
1982	2.07	1.47	1.80	2.61	4.15	6.13	6.61	5.94	17.25	10.82	3.93	R 2.78	R 5.33	—	R 3.11	13.05	R 4.50
1983	1.58	1.49	1.54	2.92	4.17	6.55	7.42	6.52	16.98	9.01	4.05	R 2.41	R 5.31	—	R 3.13	13.48	R 4.52
1984	1.91	1.47	1.79	3.27	4.57	6.67	6.87	6.26	17.63	8.93	4.00	R 2.74	R 5.40	—	R 3.21	13.35	R 4.32
1985	**1.93**	**1.28**	**1.77**	**3.01**	**4.85**	**6.43**	**6.62**	**R 8.60**	**17.61**	**9.09**	**3.94**	**R 2.62**	**R 5.45**	**—**	**R 3.11**	**14.36**	**R 4.43**
1986	1.75	1.29	1.62	3.16	4.38	4.10	4.22	R 7.07	15.59	6.78	2.40	1.53	R 4.28	—	R 3.01	14.90	R 4.75
1987	—	1.08	1.08	2.96	3.23	4.43	4.57	R 6.54	R 13.58	7.44	2.16	1.50	R 4.00	—	R 3.09	14.35	R 5.27
1988	2.02	1.12	1.75	2.87	3.32	4.22	4.35	R 6.53	R 14.62	7.71	1.98	1.45	R 4.01	—	R 2.68	13.27	R 4.21
1989	1.92	1.19	1.68	3.04	2.73	5.03	5.18	R 7.02	14.48	8.24	1.66	1.74	R 4.07	—	R 2.74	11.77	R 4.01
1990	**1.84**	**1.23**	**1.64**	**3.33**	**2.70**	**6.31**	**6.50**	**R 8.71**	**14.60**	**9.09**	**2.51**	**2.02**	**R 4.68**	**d R 1.80**	**d R 2.90**	**R 11.15**	**d R 4.09**
1991	1.99	1.14	1.76	3.44	3.25	5.50	5.67	R 9.12	R 16.80	8.81	2.31	R 2.00	R 4.21	1.80	R 3.07	R 11.28	R 4.17
1992	2.00	1.09	1.74	R 3.79	2.96	5.41	5.57	R 9.26	R 18.32	8.95	1.78	R 1.75	R 4.33	R 1.80	R 3.16	R 10.79	R 4.32
1993	1.95	1.11	1.62	3.40	2.91	5.44	5.61	R 9.23	R 18.96	8.76	1.96	R 1.47	R 4.41	R 1.80	R 2.99	11.07	R 4.17
1994	1.90	1.16	1.59	2.56	2.81	5.32	5.48	R 7.37	R 19.11	8.93	1.94	R 1.75	R 4.36	R 1.80	R 2.67	R 11.22	R 4.00
1995	**1.97**	**0.89**	**1.49**	**2.20**	**3.17**	**5.47**	**5.63**	**7.30**	**19.40**	**9.17**	**1.86**	**1.92**	**4.68**	**1.80**	**2.64**	**10.91**	**3.91**
	Expenditures in Million Nominal Dollars																
1970	**22.7**	**3.6**	**26.4**	**16.5**	**6.0**	**6.0**	**0.8**	**0.1**	**2.9**	**3.8**	**6.0**	**R 2.0**	**R 27.6**	**—**	**R 70.5**	**19.2**	**R 89.6**
1971	23.0	4.9	27.9	17.6	7.5	8.4	0.9	0.1	2.7	3.7	6.9	R 2.5	R 32.7	—	R 78.2	19.8	R 98.1
1972	23.6	4.7	28.2	20.6	9.9	8.5	1.2	0.3	3.1	3.9	7.1	R 2.4	R 36.4	—	R 85.2	23.4	R 108.6
1973	30.7	7.2	37.9	20.7	8.1	14.1	1.5	0.4	3.4	3.9	10.0	R 2.9	R 44.3	—	R 102.9	28.3	R 131.3
1974	68.7	10.8	79.6	22.9	17.7	35.5	1.9	1.5	4.5	3.6	31.0	R 3.9	R 99.5	—	R 202.0	30.1	R 232.2
1975	**71.7**	**9.5**	**81.2**	**29.9**	**14.5**	**40.9**	**1.5**	**2.3**	**3.3**	**6.3**	**30.5**	**R 7.5**	**R 107.0**	**—**	**R 218.0**	**51.2**	**R 269.2**
1976	79.4	14.8	94.2	47.2	17.9	41.7	1.2	2.7	3.5	6.3	30.9	R 8.6	R 112.7	—	R 254.1	51.0	R 305.1
1977	84.4	15.3	99.7	49.1	21.1	49.2	1.4	2.4	4.5	6.6	34.1	R 10.0	R 129.4	—	R 278.2	71.3	R 349.5
1978	77.6	20.4	98.0	57.7	21.7	50.1	1.4	0.8	5.2	5.9	24.5	R 9.0	R 118.7	—	R 274.4	92.4	R 366.8
1979	73.2	24.1	97.3	68.9	30.9	65.1	2.0	18.9	7.4	7.9	28.3	R 11.0	R 171.3	—	R 337.5	114.9	R 452.4
1980	**77.9**	**12.0**	**89.9**	**86.0**	**35.8**	**70.9**	**2.2**	**11.5**	**9.2**	**8.5**	**49.1**	**R 14.9**	**R 202.1**	**—**	**R 378.0**	**147.7**	**R 525.7**
1981	89.4	21.8	111.2	98.9	27.7	82.2	2.6	17.7	11.1	9.6	22.3	R 15.7	R 188.9	—	R 399.0	199.7	R 598.6
1982	47.0	27.3	74.3	88.5	25.7	74.7	3.7	19.6	9.7	10.3	13.1	R 13.6	R 170.5	—	R 333.3	227.0	R 560.3
1983	35.1	21.0	56.2	117.6	22.7	69.7	0.4	18.8	10.0	9.4	17.1	R 13.3	R 161.4	—	R 335.2	223.4	R 558.6
1984	68.0	19.9	87.9	135.8	40.6	72.4	0.3	10.2	11.0	7.1	7.2	R 16.2	R 165.0	—	R 388.7	198.8	R 587.5
1985	**64.8**	**13.5**	**78.3**	**111.8**	**50.8**	**41.3**	**0.1**	**R 17.6**	**10.3**	**10.5**	**(s)**	**R 16.6**	**R 147.1**	**—**	**R 337.2**	**205.7**	**R 542.9**
1986	36.9	10.7	47.6	74.4	37.7	46.3	0.3	R 16.3	8.9	7.5	(s)	R 8.0	R 125.0	—	R 247.0	208.9	R 455.9
1987	—	12.1	12.1	66.7	30.6	39.6	0.1	R 17.0	R 8.8	7.9	(s)	R 7.8	R 111.8	—	R 190.7	212.6	R 403.2
1988	63.8	15.3	79.1	86.8	23.5	47.1	R (s)	R 12.5	9.1	8.5	(s)	R 7.2	R 108.3	—	R 274.2	229.9	R 504.1
1989	60.6	18.4	79.1	103.0	30.3	45.2	(s)	R 18.4	9.2	8.4	(s)	R 9.4	R 121.0	—	R 303.0	212.9	R 516.0
1990	**60.8**	**19.3**	**80.1**	**115.8**	**24.7**	**55.3**	**0.2**	**R 15.2**	**9.6**	**9.4**	**(s)**	**R 10.9**	**R 125.2**	**d R 1.5**	**d R 322.7**	**R 209.3**	**d R 531.9**
1991	63.5	13.4	77.0	141.9	61.9	60.6	0.1	R 6.1	9.9	9.7	(s)	R 10.9	R 159.3	1.6	R 379.8	R 215.4	R 595.2
1992	59.8	13.2	73.1	R 152.8	32.1	61.3	(s)	R 7.8	R 11.0	9.7	(s)	R 10.1	R 132.0	R 1.5	R 359.3	R 218.8	R 578.1
1993	52.6	18.9	71.4	140.5	33.4	58.0	0.1	R 15.9	11.6	11.4	0.7	R 7.9	R 139.0	R 1.5	R 352.4	223.7	R 576.1
1994	51.2	22.2	73.4	91.6	33.9	55.4	0.1	R 13.9	12.2	14.8	1.2	R 8.4	R 139.8	R 1.6	R 306.4	R 237.3	R 543.7
1995	**52.2**	**18.8**	**71.0**	**89.4**	**45.8**	**51.0**	**0.1**	**32.7**	**12.2**	**15.5**	**0.6**	**9.2**	**167.1**	**1.6**	**329.1**	**247.2**	**576.3**

[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 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.
(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 279. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Utah

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.29**	**—**	**2.17**	**1.32**	**0.76**	**1.20**	**5.08**	**2.75**	**0.26**	**2.28**	**2.28**	**—**	**2.28**
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	5.58	2.84	0.28	2.39	2.39	—	2.39
1973	0.37	—	2.36	1.68	0.94	1.25	5.33	2.99	0.62	2.55	2.54	—	2.54
1974	0.72	—	3.23	2.82	1.62	2.07	7.22	4.03	1.55	3.56	3.56	—	3.56
1975	**0.74**	**—**	**3.45**	**2.97**	**2.12**	**2.30**	**7.48**	**4.52**	**1.84**	**3.97**	**3.97**	**—**	**3.97**
1976	0.97	—	3.59	2.84	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	4.88	2.01	4.37	4.37	—	4.37
1978	—	—	4.29	3.35	2.92	3.49	7.60	5.10	1.63	4.57	4.57	—	4.57
1979	—	—	5.73	4.98	4.08	4.38	10.21	7.19	—	6.37	6.37	—	6.37
1980	**—**	**—**	**9.02**	**7.02**	**6.59**	**4.36**	**14.36**	**9.80**	**—**	**8.82**	**8.82**	**—**	**8.82**
1981	—	—	10.84	8.15	7.67	4.79	18.00	10.98	—	10.06	10.06	—	10.06
1982	—	—	10.92	7.91	7.38	5.94	17.25	10.82	—	9.89	9.89	—	9.89
1983	—	—	10.44	7.25	7.02	6.52	16.98	9.01	4.32	8.42	8.42	—	8.42
1984	—	—	10.27	7.11	6.63	6.26	17.63	8.93	4.18	8.30	8.30	—	8.30
1985	**—**	**—**	**9.99**	**6.82**	**6.25**	**[R] 8.60**	**17.61**	**9.09**	**—**	**8.28**	**8.28**	**—**	**8.28**
1986	—	—	8.41	6.80	4.05	[R] 7.07	15.59	6.78	—	6.39	6.39	—	6.39
1987	—	—	7.55	6.97	4.19	[R] 6.54	[R] 13.58	7.44	—	6.78	6.78	—	6.78
1988	—	—	7.41	7.27	3.95	[R] 6.53	[R] 14.62	7.71	—	6.98	6.98	—	6.98
1989	—	—	8.28	7.82	4.60	[R] 7.02	14.48	8.24	2.73	7.49	7.49	—	7.49
1990	**—**	**6.29**	**9.32**	**8.76**	**5.75**	**[R] 8.71**	**14.60**	**9.09**	**2.92**	**8.39**	**8.39**	**—**	**8.39**
1991	—	5.14	8.71	8.30	5.13	[R] 9.12	[R] 16.80	8.81	—	7.97	7.97	—	7.97
1992	—	5.03	8.54	8.20	4.96	[R] 9.26	[R] 18.32	8.95	—	[R] 8.07	[R] 8.07	—	[R] 8.07
1993	—	4.88	8.24	8.07	4.91	[R] 9.23	[R] 18.96	8.76	—	7.96	7.96	—	7.96
1994	—	4.59	7.96	7.89	4.56	[R] 7.93	[R] 19.11	8.93	—	8.00	8.00	—	8.00
1995	**—**	**4.45**	**8.36**	**8.22**	**4.84**	**7.74**	**19.40**	**9.17**	**—**	**8.26**	**8.26**	**—**	**8.26**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**1.9**	**22.1**	**7.6**	**(s)**	**5.0**	**170.9**	**(s)**	**207.5**	**207.5**	**—**	**207.5**
1971	(s)	—	1.9	26.8	8.6	(s)	5.2	184.1	0.1	226.6	226.6	—	226.6
1972	(s)	—	2.0	24.8	8.6	(s)	5.9	203.0	0.1	244.3	244.3	—	244.3
1973	(s)	—	2.0	36.6	9.9	(s)	6.4	222.4	0.1	277.5	277.5	—	277.5
1974	(s)	—	3.1	69.8	16.8	0.1	8.3	299.5	0.5	398.1	398.1	—	398.1
1975	**(s)**	**—**	**2.8**	**71.7**	**22.4**	**0.1**	**7.2**	**346.0**	**0.8**	**451.0**	**451.0**	**—**	**451.0**
1976	(s)	—	2.9	65.3	23.6	0.2	7.5	376.0	0.8	476.1	476.1	—	476.1
1977	(s)	—	3.5	73.5	30.7	0.1	8.2	411.5	0.7	528.1	528.1	—	528.1
1978	—	—	3.6	83.1	35.2	0.2	9.6	457.8	0.8	590.2	590.2	—	590.2
1979	—	—	4.2	157.4	52.1	0.2	13.5	608.3	—	835.7	835.7	—	835.7
1980	**—**	**—**	**6.3**	**203.5**	**96.4**	**0.2**	**16.9**	**787.0**	**—**	**1,110.3**	**1,110.3**	**—**	**1,110.3**
1981	—	—	7.7	213.4	103.3	1.0	20.3	882.4	—	1,228.1	1,228.1	—	1,228.1
1982	—	—	4.2	174.1	115.0	1.8	17.7	882.1	—	1,194.9	1,194.9	—	1,194.9
1983	—	—	5.4	149.1	128.7	2.5	18.3	739.2	7.9	1,051.0	1,051.0	—	1,051.0
1984	—	—	4.0	165.7	126.3	2.6	20.2	747.0	4.0	1,069.9	1,069.9	—	1,069.9
1985	**—**	**—**	**4.7**	**165.5**	**133.0**	**[R] 2.3**	**18.8**	**760.7**	**—**	**[R] 1,085.1**	**[R] 1,085.1**	**—**	**[R] 1,085.1**
1986	—	—	4.7	168.6	98.4	[R] 2.0	16.3	614.0	—	[R] 904.0	[R] 904.0	—	[R] 904.0
1987	—	—	3.8	170.9	116.8	[R] 1.4	[R] 16.0	675.5	—	[R] 984.5	[R] 984.5	—	[R] 984.5
1988	—	—	4.2	189.7	110.4	[R] 1.6	16.6	723.6	—	[R] 1,046.1	[R] 1,046.1	—	[R] 1,046.1
1989	—	—	4.4	178.1	131.7	1.4	16.9	736.9	(s)	[R] 1,069.6	[R] 1,069.6	—	[R] 1,069.6
1990	**—**	**(s)**	**5.0**	**268.1**	**171.0**	**[R] 1.6**	**17.6**	**780.2**	**0.9**	**[R] 1,244.3**	**[R] 1,244.3**	**—**	**[R] 1,244.3**
1991	—	(s)	5.2	250.7	170.3	1.4	18.1	781.9	—	[R] 1,227.6	[R] 1,227.6	—	[R] 1,227.6
1992	—	0.1	5.7	261.1	156.3	1.3	[R] 20.1	829.3	—	[R] 1,273.9	[R] 1,274.0	—	[R] 1,274.0
1993	—	0.2	4.7	263.5	152.6	[R] 1.4	21.2	854.3	—	[R] 1,297.7	[R] 1,297.9	—	[R] 1,297.9
1994	—	0.3	3.5	274.1	135.2	1.6	[R] 22.3	896.2	—	1,333.1	1,333.3	—	1,333.3
1995	**—**	**0.5**	**2.7**	**334.1**	**154.3**	**0.9**	**22.3**	**984.1**	**—**	**1,498.3**	**1,498.8**	**—**	**1,498.8**

[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 280. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Utah

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.23**	**0.31**	**0.26**	**0.32**	**—**	**0.26**	**—**	**—**	**0.25**
1971	0.28	0.32	0.26	0.33	—	0.26	—	—	0.28
1972	0.29	0.35	0.27	0.34	—	0.27	—	—	0.29
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	**0.48**	**0.61**	**1.54**	**2.31**	**—**	**1.59**	**—**	**—**	**0.51**
1976	0.64	0.94	1.49	2.41	—	1.54	—	—	0.68
1977	0.74	1.09	1.98	2.60	—	1.99	—	—	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**	**2.00**	**3.69**	**6.23**	**—**	**5.00**	**—**	**—**	**1.20**
1981	1.27	2.29	4.06	7.33	—	6.46	—	—	1.31
1982	1.41	2.43	4.77	6.94	—	6.92	—	—	1.45
1983	1.35	3.13	4.59	6.11	—	6.11	—	—	1.39
1984	1.34	3.72	—	6.09	—	6.09	—	—	1.36
1985	**1.37**	**4.12**	**3.71**	**5.67**	**—**	**5.02**	**—**	**—**	**1.39**
1986	1.41	5.10	2.09	3.62	—	3.55	—	—	1.42
1987	1.25	5.07	—	4.12	—	4.12	—	—	1.27
1988	1.27	2.83	—	3.98	—	3.98	—	—	1.27
1989	1.24	3.14	—	4.45	—	4.45	—	—	1.25
1990	**1.17**	**5.04**	**—**	**5.42**	**—**	**5.42**	**—**	**—**	**1.18**
1991	1.19	1.62	—	4.90	—	4.90	—	—	1.21
1992	1.21	1.75	—	4.84	—	4.84	—	—	1.22
1993	1.19	2.18	—	5.39	—	5.39	—	—	1.21
1994	1.14	2.32	—	4.67	—	4.67	—	—	1.17
1995	**1.09**	**2.15**	**—**	**5.05**	**—**	**5.05**	**—**	**—**	**1.13**
	Expenditures in Million Nominal Dollars								
1970	**2.5**	**1.0**	**2.8**	**(s)**	**—**	**2.9**	**—**	**—**	**6.4**
1971	2.9	0.7	3.1	(s)	—	3.1	—	—	6.7
1972	4.0	1.2	2.2	(s)	—	2.2	—	—	7.4
1973	8.2	1.4	1.4	(s)	—	1.4	—	—	11.0
1974	12.2	1.5	1.2	0.3	—	1.5	—	—	15.3
1975	**22.8**	**1.8**	**1.5**	**0.1**	**—**	**1.6**	**—**	**—**	**26.2**
1976	18.8	2.5	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	**127.6**	**9.8**	**1.4**	**2.4**	**—**	**3.8**	**—**	**—**	**141.2**
1981	143.7	6.6	0.5	2.5	—	3.0	—	—	153.3
1982	161.2	6.9	(s)	2.4	—	2.4	—	—	170.5
1983	161.7	3.7	(s)	2.8	—	2.8	—	—	168.2
1984	175.1	1.0	—	2.0	—	2.0	—	—	178.2
1985	**204.6**	**1.0**	**0.6**	**1.8**	**—**	**2.4**	**—**	**—**	**208.0**
1986	218.4	1.3	0.1	2.7	—	2.8	—	—	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	**363.5**	**4.6**	**—**	**2.6**	**—**	**2.6**	**—**	**—**	**370.7**
1991	351.4	8.9	—	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	21.5	—	1.4	—	1.4	—	—	395.5
1995	**336.7**	**19.7**	**—**	**1.8**	**—**	**1.8**	**—**	**—**	**358.2**

[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 281. Energy Price and Expenditure Estimates by Source, 1970-1995, Vermont

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	**—**	**0.72**	**0.72**	**1.41**	**1.37**	**0.75**	**2.15**	**3.09**	**0.66**	**1.64**	**1.97**	**—**	**—**	**1.92**	**0.72**	**6.05**	**2.40**
1971	—	0.80	0.80	1.45	1.44	0.79	2.18	3.20	0.74	1.74	2.09	—	—	2.04	0.82	6.21	2.56
1972	—	0.91	0.91	1.38	1.46	1.25	2.16	3.20	0.72	2.02	2.13	0.07	—	2.03	0.59	6.85	2.68
1973	—	1.04	1.04	1.39	1.67	1.32	2.88	3.34	0.72	2.35	2.31	0.16	—	1.89	0.28	7.34	2.90
1974	—	1.66	1.66	1.39	2.62	1.92	4.80	4.47	1.96	3.32	3.48	0.17	—	2.47	0.28	9.17	4.14
1975	**—**	**2.35**	**2.35**	**1.87**	**2.77**	**2.22**	**4.12**	**4.69**	**1.92**	**3.82**	**3.64**	**0.31**	**—**	**2.41**	**0.36**	**10.33**	**4.40**
1976	—	1.87	1.87	2.45	2.97	2.34	4.40	4.81	1.88	4.03	3.70	0.35	—	2.64	0.38	10.91	4.56
1977	—	2.05	2.05	2.96	3.36	2.69	5.04	4.96	2.21	4.39	4.02	0.34	1.04	2.81	0.38	11.28	4.85
1978	—	2.25	2.25	3.10	3.56	2.97	4.62	5.13	2.09	5.03	4.22	0.37	1.12	3.02	0.39	12.09	5.16
1979	—	2.36	2.36	3.44	5.07	4.05	6.15	7.28	2.91	6.07	6.02	0.41	1.56	4.05	0.49	12.29	6.82
1980	**—**	**2.46**	**2.46**	**5.62**	**7.01**	**6.55**	**7.56**	**10.12**	**4.05**	**9.09**	**8.42**	**0.58**	**1.74**	**5.67**	**0.69**	**14.33**	**9.29**
1981	—	3.19	3.19	6.27	8.60	7.83	8.72	11.22	4.97	11.42	9.88	0.56	1.24	6.10	0.63	17.22	10.86
1982	—	2.64	2.64	6.33	8.26	7.54	8.09	10.52	4.72	10.93	9.45	0.69	1.28	5.36	0.74	18.74	10.93
1983	—	2.52	2.52	5.83	8.34	6.91	10.22	9.94	4.66	10.23	9.20	0.60	1.12	6.09	0.68	19.05	10.73
1984	—	2.67	2.67	5.64	8.41	6.46	10.71	9.51	5.06	8.68	8.88	0.59	1.28	5.68	0.71	19.22	10.53
1985	**—**	**2.84**	**2.84**	**5.59**	**8.06**	**6.10**	**[R] 11.82**	**9.53**	**4.54**	**8.41**	**8.86**	**0.64**	**0.79**	**5.92**	**0.72**	**20.81**	**10.51**
1986	—	2.62	2.62	5.00	6.27	4.25	[R] 10.52	7.47	2.92	6.99	[R] 6.92	0.70	0.32	[R] 5.29	0.73	22.51	[R] 9.14
1987	—	3.37	3.37	4.92	6.18	4.18	[R] 10.60	7.58	3.15	[R] 6.01	[R] 6.95	0.69	0.95	[R] 4.75	0.73	24.16	[R] 9.46
1988	—	3.40	3.40	4.51	6.15	4.04	[R] 9.46	7.87	2.54	6.06	[R] 7.05	0.71	0.87	[R] 4.67	0.74	23.69	[R] 9.52
1989	—	3.12	3.12	4.56	6.70	5.33	[R] 12.28	8.84	2.83	6.53	[R] 7.99	0.62	2.92	5.40	0.76	23.46	[R] 10.27
1990	**—**	**3.73**	**3.73**	**4.65**	**8.08**	**6.60**	**[R] 13.23**	**9.66**	**3.32**	**10.46**	**[R] 9.23**	**0.57**	**[d R] 2.29**	**[d R] 5.90**	**0.66**	**[R] 24.25**	**[d R] 11.30**
1991	—	3.07	3.07	4.51	7.61	5.07	[R] 14.45	9.48	2.51	5.58	[R] 8.75	0.56	[R] 2.27	[R] 5.52	0.65	[R] 25.29	[R] 10.98
1992	—	2.91	2.91	[R] 5.00	7.09	4.72	[R] 11.88	9.39	2.53	[R] 5.97	[R] 8.39	0.53	2.22	5.58	0.62	[R] 25.89	10.76
1993	—	3.62	3.62	4.99	7.00	5.16	[R] 11.75	9.09	2.62	9.04	[R] 8.20	0.54	1.90	[R] 5.62	0.60	[R] 26.49	[R] 10.60
1994	—	3.06	3.06	5.40	7.01	4.76	[R] 12.51	9.17	2.64	[R] 7.03	[R] 8.34	0.49	1.90	[R] 5.30	0.54	[R] 26.74	[R] 10.82
1995	**—**	**3.62**	**3.62**	**5.22**	**6.95**	**4.62**	**12.48**	**9.71**	**2.90**	**6.90**	**8.57**	**0.48**	**2.01**	**5.62**	**0.58**	**27.73**	**11.07**
	Expenditures in Million Nominal Dollars																
1970	**—**	**1.5**	**1.5**	**3.8**	**45.7**	**0.5**	**4.4**	**82.5**	**3.7**	**8.8**	**145.6**	**—**	**—**	**150.9**	**-2.2**	**53.9**	**202.6**
1971	—	1.6	1.6	4.4	45.1	0.5	4.9	89.7	4.2	9.8	154.2	—	—	160.2	-2.3	61.3	219.2
1972	—	1.2	1.2	5.3	48.4	1.8	5.7	95.5	4.3	9.2	164.8	0.1	—	171.4	-2.6	74.7	243.5
1973	—	1.5	1.5	5.9	58.8	1.6	7.4	101.0	3.9	9.7	182.5	2.9	—	192.7	-5.6	82.2	269.3
1974	—	2.4	2.4	6.7	77.3	2.2	12.6	132.0	6.5	12.4	243.0	4.6	—	256.7	-8.5	99.6	347.9
1975	**—**	**1.7**	**1.7**	**7.5**	**75.0**	**2.2**	**12.8**	**140.2**	**9.6**	**11.0**	**250.8**	**12.0**	**—**	**272.0**	**-14.5**	**105.6**	**363.0**
1976	—	1.1	1.1	9.1	94.6	1.8	15.5	151.8	14.8	13.3	291.8	12.6	—	314.6	-13.9	130.0	430.7
1977	—	1.5	1.5	11.9	104.8	2.0	17.5	159.6	15.9	13.7	313.5	12.8	(s)	339.7	-14.9	124.8	449.7
1978	—	1.1	1.1	11.8	109.4	2.2	20.3	170.0	12.9	14.8	329.6	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	22.3	429.8	15.3	0.5	462.2	-19.0	157.3	600.5
1980	**—**	**1.3**	**1.3**	**22.2**	**167.3**	**5.6**	**18.5**	**288.9**	**12.0**	**26.5**	**518.8**	**18.7**	**0.9**	**561.9**	**-23.4**	**193.1**	**731.7**
1981	—	3.3	3.3	27.3	191.2	3.5	19.9	324.5	10.9	28.4	578.5	22.1	0.3	631.5	-25.2	219.2	825.5
1982	—	3.3	3.3	27.4	129.9	3.8	25.2	305.6	10.6	26.0	501.2	31.7	0.6	564.3	-35.5	241.8	770.5
1983	—	2.9	2.9	25.2	167.0	4.0	32.0	291.2	9.3	28.6	532.1	18.7	0.6	579.5	-22.4	254.2	811.4
1984	—	3.7	3.7	27.2	182.2	6.2	24.9	290.9	13.8	28.2	546.3	21.4	2.4	601.0	-28.1	277.1	850.0
1985	**—**	**5.6**	**5.6**	**27.7**	**196.9**	**6.7**	**[R] 33.7**	**290.9**	**3.5**	**53.5**	**[R] 585.2**	**20.8**	**2.3**	**[R] 641.6**	**-26.1**	**285.1**	**[R] 900.6**
1986	—	1.7	1.7	24.7	145.1	3.1	[R] 33.2	234.0	8.7	41.1	[R] 465.2	15.5	0.3	[R] 507.4	-17.3	286.2	[R] 776.4
1987	—	1.1	1.1	25.1	157.3	4.2	[R] 42.7	259.4	6.7	[R] 36.3	[R] 506.6	26.3	1.5	[R] 560.6	-29.2	337.8	[R] 869.2
1988	—	1.0	1.0	24.8	167.3	3.2	[R] 40.0	281.3	3.8	37.5	[R] 533.0	31.3	0.9	[R] 591.0	-33.9	357.0	[R] 914.1
1989	—	0.7	0.7	27.6	180.6	6.6	[R] 68.0	304.2	3.4	39.4	[R] 602.2	24.1	5.5	[R] 660.2	-31.0	366.0	[R] 995.2
1990	**—**	**0.8**	**0.8**	**31.0**	**190.5**	**6.6**	**[R] 67.2**	**337.8**	**5.0**	**25.2**	**[R] 632.3**	**22.1**	**[d] 8.9**	**[d R] 695.1**	**-26.8**	**[R] 390.3**	**[d R] 1,058.7**
1991	—	0.9	0.9	31.5	188.8	4.6	[R] 85.3	337.2	4.2	30.7	[R] 650.7	24.9	[R] 9.4	[R] 717.4	-30.1	[R] 405.9	[R] 1,093.2
1992	—	1.5	1.5	[R] 37.8	206.1	3.0	[R] 82.3	339.3	4.5	[R] 23.8	[R] 659.0	21.2	[R] 9.4	[R] 728.9	-25.7	[R] 436.5	[R] 1,139.7
1993	—	0.5	0.5	36.0	218.6	3.5	[R] 69.5	338.7	7.9	20.1	[R] 658.4	19.5	[R] 10.0	[R] 724.4	-22.3	[R] 453.4	[R] 1,155.5
1994	—	0.4	0.4	39.3	206.8	3.7	[R] 75.7	344.8	4.7	22.5	[R] 658.2	22.5	10.2	[R] 730.6	-25.5	[R] 462.3	[R] 1,167.4
1995	**—**	**0.3**	**0.3**	**37.8**	**216.5**	**3.3**	**75.6**	**368.0**	**4.0**	**22.8**	**690.2**	**19.8**	**13.2**	**761.2**	**-24.7**	**482.9**	**1,219.3**

[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 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.
(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 282. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Vermont

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.37**	**1.97**	**1.51**	**1.63**	**2.55**	**1.57**	**—**	**1.58**	**6.68**	**2.24**
1971	1.56	2.04	1.58	1.66	2.62	1.65	—	1.67	6.86	2.43
1972	1.58	2.13	1.59	1.69	2.55	1.66	—	1.68	7.55	2.56
1973	1.83	2.16	1.79	1.94	3.62	1.91	—	1.92	8.11	2.86
1974	2.19	2.35	2.72	3.01	5.93	2.99	—	2.95	9.88	4.14
1975	**2.62**	**2.62**	**2.87**	**3.16**	**4.72**	**3.07**	**—**	**3.04**	**11.47**	**4.52**
1976	2.64	2.66	3.06	3.35	4.94	3.25	—	3.22	12.64	4.72
1977	3.12	3.59	3.42	3.75	6.01	3.69	—	3.68	12.83	5.22
1978	3.68	3.53	3.66	4.01	5.49	3.87	—	3.85	13.86	5.57
1979	4.68	4.06	5.23	5.33	7.82	5.38	—	5.31	14.09	7.07
1980	**4.42**	**6.30**	**7.32**	**8.15**	**9.28**	**7.56**	**—**	**7.43**	**15.76**	**9.65**
1981	5.38	7.05	9.04	10.54	10.15	9.26	—	8.99	18.20	11.48
1982	5.26	7.30	8.66	10.79	9.61	8.97	—	8.73	19.57	12.31
1983	4.57	6.85	8.47	9.36	12.55	9.04	—	8.82	19.99	11.86
1984	5.28	6.36	8.39	9.33	11.79	8.86	—	8.60	19.74	11.74
1985	**4.91**	**6.33**	**8.08**	**8.98**	**11.79**	**8.67**	**—**	**8.41**	**21.20**	**11.08**
1986	4.71	6.36	6.49	7.22	10.02	7.11	—	7.01	23.15	10.15
1987	4.37	6.31	6.23	6.92	10.04	7.00	—	6.91	27.72	11.51
1988	4.51	5.71	6.19	6.88	8.95	6.83	—	6.70	26.66	11.21
1989	4.48	5.70	6.79	7.54	12.77	8.24	—	7.97	26.24	11.91
1990	**4.73**	**5.87**	**8.02**	**8.92**	**13.76**	**9.49**	**[d] 2.83**	**[d] 8.68**	**[R] 27.16**	**[d R] 12.69**
1991	4.59	6.31	7.71	8.57	15.17	9.61	2.83	8.84	[R] 27.92	12.73
1992	4.46	6.73	6.98	7.76	12.37	8.48	2.83	7.95	[R] 28.02	[R] 12.05
1993	4.48	6.20	6.84	7.61	12.20	8.09	2.83	7.56	[R] 28.84	11.95
1994	4.59	6.97	6.63	7.37	[R] 13.58	[R] 8.38	2.83	[R] 7.88	29.18	[R] 12.56
1995	**4.53**	**6.85**	**6.46**	**7.18**	**13.75**	**8.24**	**2.83**	**7.73**	**30.83**	**12.64**
	Expenditures in Million Nominal Dollars									
1970	**0.6**	**2.1**	**34.0**	**4.0**	**3.4**	**41.4**	**—**	**44.1**	**27.7**	**71.8**
1971	0.6	2.3	33.6	4.1	3.8	41.6	—	44.5	31.8	76.3
1972	0.5	2.6	36.9	3.8	4.5	45.3	—	48.3	38.6	86.9
1973	0.5	2.6	42.6	3.8	6.3	52.6	—	55.8	41.9	97.7
1974	0.5	2.9	53.7	5.0	10.8	69.5	—	73.0	50.5	123.5
1975	**0.5**	**3.0**	**51.9**	**4.2**	**9.7**	**65.8**	**—**	**69.3**	**55.8**	**125.1**
1976	0.5	3.3	65.1	5.5	11.4	82.0	—	85.8	64.0	149.8
1977	0.6	4.2	66.7	6.0	13.1	85.8	—	90.6	64.2	154.8
1978	0.6	4.2	73.0	6.0	12.9	91.9	—	96.8	72.3	169.0
1979	0.6	4.6	98.1	9.8	9.3	117.2	—	122.4	81.6	204.0
1980	**0.7**	**8.1**	**92.5**	**10.6**	**12.1**	**115.3**	**—**	**124.1**	**95.8**	**219.8**
1981	1.9	9.0	105.8	10.6	14.1	130.4	—	141.4	106.1	247.4
1982	1.2	9.3	70.4	9.4	14.5	94.2	—	104.7	116.1	220.7
1983	0.9	8.5	98.8	11.4	22.5	132.7	—	142.1	120.4	262.5
1984	1.2	8.5	100.5	7.1	21.3	128.8	—	138.5	124.5	263.0
1985	**2.3**	**9.1**	**104.5**	**26.2**	**25.5**	**156.3**	**—**	**167.7**	**111.2**	**278.9**
1986	0.7	10.0	69.9	11.9	22.2	104.0	—	114.7	91.3	206.0
1987	0.7	10.4	68.1	9.8	28.1	106.0	—	117.0	133.3	250.3
1988	0.6	10.6	70.0	12.0	29.6	111.7	—	122.8	143.0	265.8
1989	0.3	11.9	85.5	11.9	54.6	152.0	—	164.2	149.0	313.2
1990	**0.5**	**12.4**	**90.2**	**9.8**	**55.3**	**155.3**	**[d] 3.4**	**[d] 171.6**	**[R] 167.6**	**[d R] 339.2**
1991	0.3	13.7	91.5	12.0	65.1	168.6	3.6	186.3	[R] 169.9	[R] 356.2
1992	0.4	16.9	89.1	9.2	63.8	162.1	3.8	183.2	[R] 184.2	[R] 367.4
1993	0.4	15.7	94.5	10.1	53.0	157.6	3.9	177.6	194.0	[R] 371.5
1994	0.2	16.9	83.8	7.6	[R] 60.6	[R] 152.0	3.8	[R] 172.9	200.0	[R] 372.9
1995	**0.2**	**15.7**	**84.5**	**7.3**	**60.9**	**152.8**	**4.2**	**172.9**	**207.5**	**380.5**

[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 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 283. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Vermont

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.87**	**1.43**	**1.11**	**0.92**	**1.37**	**3.09**	**0.79**	**1.04**	**1.06**	**6.78**	**2.18**
1971	0.61	1.49	1.17	0.97	1.34	3.20	0.84	1.09	1.11	6.92	2.36
1972	1.02	1.62	1.18	0.97	1.37	3.20	0.88	1.11	1.15	7.57	2.58
1973	1.25	1.69	1.39	1.23	1.33	3.34	0.73	1.21	1.24	8.19	2.84
1974	1.71	1.86	2.32	2.41	2.24	4.47	1.93	2.26	2.22	10.25	4.37
1975	**2.60**	**2.10**	**2.46**	**2.65**	**2.92**	**4.69**	**1.91**	**2.35**	**2.33**	**11.34**	**4.51**
1976	1.79	2.63	2.64	2.89	3.37	4.81	1.78	2.36	2.37	12.18	4.45
1977	2.02	3.20	2.99	3.13	3.41	4.96	2.14	2.69	2.73	12.39	4.96
1978	1.78	3.23	3.16	3.25	3.61	5.13	1.92	2.76	2.80	13.26	5.33
1979	1.54	3.57	4.55	4.66	3.67	7.28	2.97	4.31	4.16	13.24	7.06
1980	**1.65**	**6.22**	**6.48**	**6.39**	**5.59**	**10.12**	**4.09**	**5.93**	**5.90**	**15.56**	**9.00**
1981	1.86	6.90	8.18	7.18	6.49	11.22	5.00	7.54	7.21	19.48	11.29
1982	1.99	7.11	7.84	7.90	6.68	10.52	4.49	7.33	7.14	21.00	12.20
1983	1.93	6.57	7.62	7.58	7.11	9.94	4.44	7.50	7.13	21.76	13.25
1984	2.39	5.73	7.52	7.99	6.94	9.51	5.06	7.29	6.70	22.17	12.64
1985	**2.38**	**5.76**	**7.16**	**7.62**	**[R] 11.92**	**9.53**	**4.54**	**[R] 7.66**	**[R] 6.63**	**24.02**	**[R] 12.60**
1986	2.12	5.19	5.23	4.90	[R] 11.70	7.47	2.92	[R] 5.42	[R] 5.30	25.65	[R] 12.15
1987	2.36	4.94	5.03	5.52	[R] 11.86	7.58	3.15	[R] 5.59	[R] 5.38	24.53	[R] 13.10
1988	2.53	4.72	4.93	5.22	[R] 11.32	7.87	2.54	[R] 5.56	[R] 5.31	24.44	[R] 13.04
1989	2.60	4.81	5.57	6.22	[R] 10.63	8.84	2.84	[R] 6.11	[R] 5.76	24.23	[R] 13.02
1990	**2.62**	**5.12**	**6.85**	**7.18**	**[R] 11.23**	**9.66**	**3.33**	**[R] 7.06**	**[R] 6.47**	**[R] 25.21**	**[R] 14.38**
1991	2.57	5.30	6.13	6.87	[R] 12.54	9.48	2.51	[R] 6.54	[R] 6.20	[R] 26.50	[R] 14.23
1992	2.58	5.69	5.51	6.39	[R] 10.46	9.39	2.54	[R] 6.01	[R] 5.90	[R] 27.40	[R] 13.96
1993	2.32	5.26	5.42	6.07	[R] 10.52	9.09	2.62	[R] 5.59	[R] 5.48	[R] 27.62	[R] 13.96
1994	2.23	5.62	5.40	[R] 6.22	[R] 10.32	9.17	2.64	[R] 5.83	[R] 5.73	[R] 27.95	[R] 14.37
1995	**2.26**	**5.45**	**5.22**	**6.12**	**10.59**	**9.71**	**2.90**	**5.86**	**5.71**	**29.04**	**15.38**
	Expenditures in Million Nominal Dollars										
1970	**0.2**	**0.8**	**5.1**	**0.1**	**0.3**	**0.4**	**2.1**	**8.1**	**9.1**	**14.1**	**23.2**
1971	0.2	0.9	5.1	0.1	0.3	0.4	2.2	8.2	9.3	16.0	25.3
1972	0.2	1.0	5.6	0.1	0.4	0.4	2.4	9.0	10.2	19.3	29.5
1973	0.2	1.0	6.8	0.1	0.4	0.5	1.9	9.7	10.9	21.4	32.3
1974	0.3	1.1	9.3	0.2	0.7	0.6	3.0	13.9	15.3	25.9	41.2
1975	**0.4**	**1.6**	**9.1**	**0.2**	**1.1**	**0.7**	**4.5**	**15.6**	**17.6**	**27.4**	**45.0**
1976	0.2	2.0	11.5	0.3	1.4	0.8	6.5	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	1.5	0.9	5.5	21.1	24.2	36.6	60.8
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**	**5.1**	**23.4**	**1.6**	**1.3**	**1.7**	**6.1**	**34.1**	**39.3**	**49.0**	**88.3**
1981	0.4	5.7	26.4	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	63.7	101.4
1983	0.3	5.6	18.8	0.4	2.2	3.0	1.3	25.8	31.6	69.4	101.0
1984	0.4	8.3	19.0	0.2	2.2	1.8	2.1	25.3	34.0	70.1	104.1
1985	**1.6**	**9.0**	**22.1**	**1.6**	**[R] 4.6**	**2.0**	**0.7**	**[R] 30.9**	**[R] 41.4**	**78.6**	**[R] 120.0**
1986	0.2	8.6	16.4	1.7	[R] 4.6	1.6	2.5	[R] 26.6	[R] 35.5	87.1	[R] 122.6
1987	0.2	8.9	19.1	1.0	[R] 5.9	1.6	1.8	[R] 29.4	[R] 38.6	119.2	[R] 157.8
1988	0.2	9.1	19.8	1.9	[R] 6.6	1.6	1.0	[R] 30.9	[R] 40.1	125.0	[R] 165.2
1989	0.1	9.9	23.4	2.0	[R] 8.0	1.7	1.5	[R] 36.7	[R] 46.6	127.1	[R] 173.7
1990	**0.2**	**10.3**	**22.5**	**0.5**	**[R] 8.0**	**2.1**	**2.5**	**[R] 35.5**	**[R] 46.1**	**[R] 131.3**	**[R] 177.4**
1991	0.1	10.8	25.0	0.6	[R] 9.5	1.4	2.1	[R] 38.5	[R] 49.5	[R] 138.4	[R] 187.9
1992	0.2	13.1	26.2	0.5	[R] 9.5	1.7	1.7	[R] 39.6	[R] 52.9	[R] 147.1	[R] 200.0
1993	0.1	12.5	23.6	1.2	[R] 8.1	0.3	2.9	[R] 36.0	[R] 48.6	[R] 152.1	[R] 200.7
1994	0.2	14.9	24.2	0.7	[R] 8.1	0.3	1.4	[R] 34.8	[R] 49.9	[R] 154.7	[R] 204.6
1995	**0.1**	**14.5**	**20.4**	**0.5**	**8.3**	**0.3**	**1.3**	**30.8**	**45.3**	**163.2**	**208.5**

[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.

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 284. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Vermont

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.87**	**0.87**	**0.85**	**0.68**	**0.84**	**0.92**	**1.37**	**5.08**	**3.09**	**0.53**	**4.14**	**0.97**	**—**	**0.96**	**4.52**	**1.71**
1971	—	0.61	0.61	0.93	0.85	0.89	0.97	1.34	5.27	3.20	0.64	3.97	1.09	—	1.06	4.62	1.84
1972	—	1.02	1.02	1.00	0.87	0.89	0.97	1.37	5.58	3.20	0.57	4.23	1.11	—	1.09	5.17	2.11
1973	—	1.25	1.25	1.10	0.87	1.13	1.23	1.33	5.33	3.34	0.71	4.63	1.35	—	1.31	5.52	2.37
1974	—	1.71	1.71	1.19	1.55	2.22	2.41	2.24	7.22	4.47	1.99	4.63	2.45	—	2.19	7.20	3.59
1975	**—**	**2.60**	**2.60**	**1.44**	**1.91**	**2.38**	**2.65**	**2.92**	**7.48**	**4.69**	**1.93**	**4.95**	**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	8.10	4.19
1977	—	2.02	2.02	2.67	2.07	2.90	3.13	3.41	6.97	4.96	2.28	6.26	2.99	—	2.93	8.13	4.23
1978	—	1.78	1.78	2.75	2.25	3.00	3.25	3.61	7.60	5.13	2.25	7.75	3.23	—	3.15	8.82	4.68
1979	—	1.54	1.54	3.22	2.62	4.42	4.66	3.67	10.21	7.28	2.86	9.43	4.52	—	4.25	8.95	5.70
1980	**—**	**1.65**	**1.65**	**4.94**	**3.66**	**5.84**	**6.39**	**5.59**	**14.36**	**10.12**	**4.01**	**12.01**	**5.96**	**—**	**5.73**	**11.37**	**7.69**
1981	—	1.86	1.86	5.65	5.42	6.53	7.18	6.49	18.00	11.22	4.96	13.85	6.99	—	6.58	14.15	9.18
1982	—	1.99	1.99	5.50	4.02	7.09	7.90	6.68	17.25	10.52	4.84	15.76	6.91	—	6.51	15.76	9.42
1983	—	1.93	1.93	5.06	4.22	6.87	7.58	7.11	16.98	9.94	4.70	14.29	6.80	—	6.28	15.60	9.55
1984	—	2.39	2.39	5.22	4.62	6.91	7.99	6.94	17.63	9.51	5.06	13.48	6.45	—	6.16	16.67	10.04
1985	**—**	**2.38**	**2.38**	**4.91**	**5.20**	**6.58**	**7.62**	[R] **11.92**	**17.61**	**9.53**	**4.54**	**13.38**	[R] **6.99**	**—**	[R] **6.48**	**18.40**	[R] **10.86**
1986	—	2.12	2.12	3.57	4.86	4.24	4.90	[R] 11.70	15.59	7.47	2.92	14.34	[R] 5.32	—	[R] 5.04	20.05	[R] 9.84
1987	—	2.36	2.36	3.52	3.55	4.78	5.52	[R] 11.86	[R] 13.58	7.58	3.15	13.55	[R] 5.34	—	[R] 5.06	19.79	[R] 9.11
1988	—	2.53	2.53	3.00	3.39	4.51	5.22	[R] 11.32	[R] 14.62	7.87	2.54	11.82	[R] 4.93	—	[R] 4.61	19.39	[R] 8.99
1989	—	2.60	2.60	3.05	3.17	5.38	6.22	[R] 10.63	14.48	8.84	2.84	17.61	[R] 5.77	—	[R] 5.25	19.21	[R] 9.57
1990	**—**	**2.62**	**2.62**	**3.56**	**3.34**	**6.21**	**7.18**	[R] **11.23**	**14.60**	**9.66**	**3.33**	**14.39**	[R] **7.24**	[d R] **1.61**	[d R] **5.32**	[R] **19.39**	[d R] **10.30**
1991	—	2.57	2.57	3.03	3.05	5.94	6.87	[R] 12.54	[R] 16.80	9.48	2.51	[R] —	[R] 5.35	[R] 1.64	[R] 4.44	[R] 20.56	[R] 9.01
1992	—	2.58	2.58	[R] 3.16	2.79	5.53	6.39	[R] 10.46	[R] 18.32	9.39	2.54	[R] —	[R] 5.23	[R] 1.55	4.21	[R] 21.39	[R] 9.22
1993	—	—	—	3.58	3.30	5.25	6.07	[R] 10.52	[R] 18.96	9.09	2.62	[R] —	[R] 5.47	[R] 1.36	[R] 4.01	[R] 21.98	[R] 9.31
1994	—	—	—	3.48	3.65	5.38	6.22	[R] 8.77	[R] 19.11	9.17	2.64	—	[R] 5.28	[R] 1.36	[R] 3.83	[R] 21.97	[R] 9.27
1995	**—**	**—**	**—**	**3.40**	**3.79**	**5.29**	**6.12**	**7.50**	**19.40**	**9.71**	**2.90**	**—**	**5.36**	**1.38**	**3.73**	**22.15**	**9.27**
	Expenditures in Million Nominal Dollars																
1970	**—**	**0.1**	**0.1**	**0.9**	**1.2**	**2.3**	**0.2**	**0.6**	**0.5**	**1.1**	**1.5**	**1.0**	**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	9.8	—	11.1	13.5	24.6
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	0.5	0.7	0.4	1.2	2.0	2.6	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**	**1.0**	**1.9**	**0.5**	**1.9**	**5.1**	**2.5**	**18.3**	**—**	**20.7**	**22.3**	**43.0**
1976	—	0.1	0.1	3.7	0.4	7.2	1.1	2.7	0.5	1.7	8.1	3.3	24.9	—	28.6	34.6	63.2
1977	—	0.2	0.2	4.4	0.5	7.1	0.8	3.1	0.6	1.6	8.5	3.1	25.2	—	29.8	27.6	57.3
1978	—	(s)	(s)	4.7	0.3	7.5	0.9	5.6	0.8	1.3	7.2	4.0	27.6	—	32.3	33.5	65.8
1979	—	0.1	0.1	5.6	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**	**1.0**	**17.1**	**0.3**	**5.0**	**1.3**	**1.0**	**5.9**	**5.9**	**37.6**	**—**	**45.6**	**48.4**	**94.0**
1981	—	0.1	0.1	11.6	1.8	17.8	0.4	3.7	1.6	0.7	6.0	6.7	38.7	—	50.4	56.6	107.0
1982	—	0.2	0.2	11.6	2.0	17.3	0.3	8.8	1.4	0.7	7.4	6.0	43.9	—	55.8	62.0	117.7
1983	—	0.2	0.2	10.2	1.8	11.5	1.5	7.1	1.4	0.5	8.0	5.9	37.7	—	48.1	64.4	112.5
1984	—	0.2	0.2	9.2	6.9	11.9	0.6	1.0	1.6	3.4	11.8	5.5	42.6	—	52.0	82.5	134.5
1985	**—**	**0.3**	**0.3**	**9.1**	**11.4**	**17.2**	**1.1**	[R] **3.0**	**1.5**	**5.8**	**2.8**	**5.6**	[R] **48.4**	**—**	[R] **57.9**	**95.3**	[R] **153.2**
1986	—	0.2	0.2	6.1	13.5	12.4	0.8	[R] 6.1	1.3	4.7	6.2	6.4	[R] 51.4	—	[R] 57.7	107.8	[R] 165.5
1987	—	0.1	0.1	5.8	11.6	13.2	1.0	[R] 8.3	[R] 1.3	4.8	4.8	6.5	[R] 51.5	—	[R] 57.4	85.3	[R] 142.7
1988	—	0.2	0.2	5.2	8.9	15.2	2.5	[R] 3.3	1.3	5.1	2.8	5.8	[R] 44.9	—	[R] 50.2	89.0	[R] 139.2
1989	—	0.3	0.3	5.7	9.5	15.7	0.9	[R] 5.0	1.3	5.9	1.8	8.4	[R] 48.7	—	[R] 54.7	90.0	[R] 144.7
1990	**—**	**0.1**	**0.1**	**6.6**	**0.6**	**16.9**	**0.7**	[R] **3.5**	**1.4**	**4.1**	**2.4**	[R] —	[R] **36.4**	[d R] **2.8**	[d R] **45.8**	[R] **91.4**	[d R] **137.2**
1991	—	0.5	0.5	5.1	10.7	15.4	0.4	[R] 10.2	1.4	4.4	2.1	[R] —	[R] 44.7	[R] 2.9	[R] 53.1	[R] 97.5	[R] 150.6
1992	—	0.9	0.9	[R] 6.2	6.2	16.4	0.2	[R] 8.6	[R] 1.6	4.4	2.7	[R] —	[R] 40.1	3.0	[R] 50.2	[R] 105.1	[R] 155.3
1993	—	—	—	7.3	0.7	15.6	0.3	[R] 8.2	1.7	3.6	5.0	—	[R] 35.1	[R] 4.4	[R] 46.8	[R] 107.3	[R] 154.1
1994	—	—	—	7.0	5.6	10.9	0.4	[R] 6.3	1.8	4.1	3.3	—	[R] 32.3	[R] 4.5	[R] 43.8	[R] 107.6	[R] 151.3
1995	**—**	**—**	**—**	**7.3**	**6.4**	**9.8**	**0.3**	**6.0**	**1.8**	**4.5**	**2.7**	**—**	**31.4**	**5.2**	**43.9**	**112.2**	**156.0**

[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 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.
(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, 1970-1995, Vermont

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.87**	**—**	**2.17**	**1.43**	**0.75**	**1.37**	**5.08**	**3.09**	**0.76**	**2.94**	**2.94**	**—**	**2.94**
1971	0.61	—	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	5.58	3.20	0.85	3.06	3.06	—	3.06
1973	1.25	—	2.36	1.81	0.93	1.33	5.33	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	1.86	4.27	4.27	—	4.27
1975	**2.60**	**—**	**3.45**	**2.90**	**2.09**	**2.92**	**7.48**	**4.69**	**1.84**	**4.49**	**4.49**	**—**	**4.49**
1976	1.79	—	3.59	3.10	2.29	3.37	7.05	4.81	1.75	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	—	4.96	4.96	—	4.96
1979	—	—	5.73	5.37	3.98	3.67	10.21	7.28	—	6.95	6.95	—	6.95
1980	**—**	**—**	**9.02**	**7.41**	**6.51**	**5.59**	**14.36**	**10.12**	**—**	**9.72**	**9.72**	**—**	**9.72**
1981	—	—	10.84	9.02	7.80	6.49	18.00	11.22	—	10.94	10.94	—	10.94
1982	—	—	10.92	8.73	7.51	6.68	17.25	10.52	—	10.42	10.42	—	10.42
1983	—	—	10.44	9.05	6.91	7.11	16.98	9.94	—	9.84	9.84	—	9.84
1984	—	—	10.27	9.44	6.46	6.94	17.63	9.51	—	9.49	9.49	—	9.49
1985	**—**	**—**	**9.99**	**9.30**	**6.10**	**[R] 11.92**	**17.61**	**9.53**	**—**	**9.46**	**9.46**	**—**	**9.46**
1986	—	—	8.41	7.51	4.25	[R] 11.70	15.59	7.47	—	7.48	7.48	—	7.48
1987	—	—	7.55	7.35	4.18	[R] 11.86	[R] 13.58	7.58	2.64	[R] 7.51	[R] 7.51	—	[R] 7.51
1988	—	—	7.41	7.51	4.04	[R] 11.32	[R] 14.62	7.87	—	7.78	7.78	—	7.78
1989	—	—	8.28	7.88	5.33	[R] 10.63	14.48	8.84	2.60	8.62	8.62	—	8.62
1990	**—**	**—**	**9.32**	**9.66**	**6.60**	**[R] 11.23**	**14.60**	**9.66**	**2.76**	**9.62**	**9.62**	**—**	**9.62**
1991	—	—	8.71	9.14	5.07	[R] 12.54	[R] 16.80	9.48	2.16	9.39	9.39	—	9.39
1992	—	—	8.54	8.67	4.72	[R] 10.46	[R] 18.32	9.39	2.24	[R] 9.24	[R] 9.24	—	[R] 9.24
1993	—	—	8.24	8.46	5.16	[R] 10.52	[R] 18.96	9.09	—	8.96	8.96	—	8.96
1994	—	—	7.96	8.54	4.76	[R] 8.49	[R] 19.11	9.17	—	9.03	9.03	—	9.03
1995	**—**	**—**	**8.36**	**8.34**	**4.62**	**8.58**	**19.40**	**9.71**	**—**	**9.37**	**9.37**	**—**	**9.37**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**0.2**	**2.9**	**0.5**	**(s)**	**1.5**	**81.0**	**(s)**	**86.0**	**86.0**	**—**	**86.0**
1971	(s)	—	0.1	2.6	0.5	(s)	1.5	88.3	(s)	93.0	93.0	—	93.0
1972	(s)	—	0.1	3.2	0.5	(s)	1.7	94.1	(s)	99.6	99.6	—	99.6
1973	(s)	—	0.1	5.6	0.6	(s)	1.6	99.3	(s)	107.3	107.3	—	107.3
1974	(s)	—	0.1	8.1	1.1	(s)	2.1	130.2	(s)	141.7	141.7	—	141.7
1975	**(s)**	**—**	**0.2**	**8.5**	**1.5**	**(s)**	**2.1**	**137.6**	**(s)**	**149.9**	**149.9**	**—**	**149.9**
1976	(s)	—	0.2	10.5	1.5	(s)	2.2	149.3	(s)	163.7	163.7	—	163.7
1977	(s)	—	0.2	18.9	1.8	(s)	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	(s)	3.6	220.3	—	256.2	256.2	—	256.2
1980	**—**	**—**	**1.1**	**32.7**	**4.9**	**(s)**	**4.5**	**286.2**	**—**	**329.5**	**329.5**	**—**	**329.5**
1981	—	—	0.9	40.6	3.2	0.5	5.4	321.8	—	372.4	372.4	—	372.4
1982	—	—	1.1	18.4	3.4	0.1	4.8	302.8	—	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	49.8	6.2	0.4	5.4	285.7	—	348.4	348.4	—	348.4
1985	**—**	**—**	**1.1**	**52.0**	**6.7**	**0.6**	**5.1**	**283.1**	**—**	**348.5**	**348.5**	**—**	**348.5**
1986	—	—	1.2	45.4	3.1	0.4	4.4	227.7	—	[R] 282.3	[R] 282.3	—	[R] 282.3
1987	—	—	0.8	55.5	4.2	[R] 0.5	[R] 4.3	253.0	(s)	[R] 318.3	[R] 318.3	—	[R] 318.3
1988	—	—	0.6	60.6	3.2	[R] 0.5	4.5	274.6	—	[R] 344.0	[R] 344.0	—	[R] 344.0
1989	—	—	0.7	54.7	6.6	0.4	4.5	296.6	0.1	[R] 363.7	[R] 363.7	—	[R] 363.7
1990	**—**	**—**	**0.7**	**60.7**	**6.6**	**0.4**	**4.7**	**331.7**	**0.1**	**404.9**	**404.9**	**—**	**404.9**
1991	—	—	0.7	56.4	4.6	0.5	4.9	331.5	(s)	[R] 398.5	[R] 398.5	—	[R] 398.5
1992	—	—	0.6	74.3	3.0	0.4	[R] 5.4	333.2	0.1	[R] 417.0	[R] 417.0	—	[R] 417.0
1993	—	—	0.5	84.4	3.5	0.3	5.7	334.8	—	429.2	429.2	—	429.2
1994	—	—	0.5	87.3	3.7	0.6	6.0	340.4	—	438.5	438.5	—	438.5
1995	**—**	**—**	**0.5**	**100.9**	**3.3**	**0.5**	**6.0**	**363.1**	**—**	**474.3**	**474.3**	**—**	**474.3**

[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 286. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Vermont

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.49**	**—**	**0.83**	**0.92**	**—**	**0.91**	**—**	**—**	**0.72**
1971	0.61	0.46	0.89	0.98	—	0.97	—	—	0.82
1972	0.62	0.45	0.91	1.47	—	1.42	0.07	—	0.59
1973	0.73	0.44	0.75	1.43	—	1.42	0.16	—	0.28
1974	1.50	0.51	1.97	2.27	—	2.26	0.17	—	0.28
1975	**2.05**	**1.17**	**1.95**	**2.42**	**—**	**2.41**	**0.31**	**—**	**0.36**
1976	1.25	1.76	1.93	2.44	—	2.31	0.35	—	0.38
1977	1.38	2.01	2.14	2.98	—	2.65	0.34	1.04	0.38
1978	1.21	2.22	1.96	2.76	—	2.48	0.37	1.12	0.39
1979	1.77	2.63	2.92	5.27	—	4.60	0.41	1.56	0.49
1980	**1.73**	**4.50**	**—**	**6.28**	**—**	**6.28**	**0.58**	**1.74**	**0.69**
1981	2.17	4.82	—	7.53	—	7.53	0.56	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**	**4.84**	**—**	**5.83**	**—**	**5.83**	**0.64**	**0.79**	**0.72**
1986	1.88	2.26	—	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**	**—**	**5.53**	**—**	**5.53**	**0.57**	**2.82**	**0.66**
1991	—	1.74	—	4.70	—	4.70	0.56	2.60	0.65
1992	—	2.02	—	4.43	—	4.43	0.53	2.74	0.62
1993	—	2.02	—	4.85	—	4.85	0.54	2.60	0.60
1994	—	2.32	—	4.54	—	4.54	0.49	2.65	0.54
1995	**—**	**1.95**	**—**	**4.12**	**—**	**4.12**	**0.48**	**2.87**	**0.58**
	Expenditures in Million Nominal Dollars								
1970	**0.7**	**—**	**0.1**	**1.4**	**—**	**1.6**	**—**	**—**	**2.2**
1971	0.7	(s)	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	(s)	1.8	—	1.8	2.9	—	5.6
1974	1.4	0.6	(s)	1.8	—	1.8	4.6	—	8.5
1975	**0.7**	**0.7**	**(s)**	**1.2**	**—**	**1.2**	**12.0**	**—**	**14.5**
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	12.8	(s)	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	19.0
1980	**0.4**	**1.1**	**—**	**2.3**	**—**	**2.3**	**18.7**	**0.9**	**23.4**
1981	0.8	0.9	—	1.1	—	1.1	22.1	0.3	25.2
1982	1.7	0.5	—	1.0	—	1.0	31.7	0.6	35.5
1983	1.6	0.9	—	0.6	—	0.6	18.7	0.6	22.4
1984	2.0	1.2	—	1.1	—	1.1	21.4	2.4	28.1
1985	**1.4**	**0.5**	**—**	**1.1**	**—**	**1.1**	**20.8**	**2.3**	**26.1**
1986	0.6	(s)	—	0.9	—	0.9	15.5	0.3	17.3
1987	—	—	—	1.4	—	1.4	26.3	1.5	29.2
1988	—	—	—	1.6	—	1.6	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**	**26.8**
1991	—	1.9	—	0.4	—	0.4	24.9	2.9	30.1
1992	—	1.6	—	0.2	—	0.2	21.2	2.6	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
1995	**—**	**0.3**	**—**	**0.9**	**—**	**0.9**	**19.8**	**3.8**	**24.7**

[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 287. Energy Price and Expenditure Estimates by Source, 1970-1995, Virginia

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	**0.40**	**0.41**	**0.41**	**0.96**	**1.14**	**0.73**	**1.95**	**2.85**	**0.31**	**[R] 1.33**	**1.49**	**—**	**—**	**1.17**	**0.35**	**4.91**	**1.80**
1971	0.47	0.49	0.49	0.99	1.24	0.76	1.92	2.82	0.40	[R] 1.37	1.49	—	—	1.23	0.42	5.10	1.88
1972	—	0.47	0.47	1.06	1.24	0.76	2.01	2.94	0.44	[R] 1.40	1.54	0.25	—	1.30	0.44	5.33	2.00
1973	—	0.50	0.50	1.11	1.43	0.90	2.82	3.15	0.53	[R] 1.60	1.73	0.25	—	1.39	0.47	5.62	2.21
1974	—	1.31	1.31	1.33	2.42	1.56	3.14	4.41	1.63	[R] 2.54	2.83	0.26	—	2.30	1.26	7.67	[R] 3.34
1975	**—**	**1.30**	**1.30**	**1.71**	**2.60**	**2.03**	**3.63**	**4.77**	**1.80**	**[R] 2.94**	**3.16**	**0.28**	**—**	**2.52**	**1.24**	**9.63**	**3.97**
1976	1.64	1.21	1.21	2.02	2.78	2.17	3.81	5.01	1.77	[R] 3.07	3.33	0.33	—	2.67	1.24	9.64	4.17
1977	1.69	1.40	1.41	2.49	3.18	2.55	4.23	5.33	2.11	[R] 3.37	3.65	0.43	—	2.99	1.49	11.29	[R] 4.72
1978	1.73	1.61	1.62	2.72	3.38	2.83	4.16	5.39	1.94	[R] 3.53	3.76	0.47	—	3.02	1.36	11.78	4.95
1979	1.78	1.67	1.68	3.03	4.78	3.95	5.13	7.01	2.86	[R] 4.71	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**	**9.97**	**3.75**	**[R] 7.00**	**[R] 7.46**	**0.74**	**—**	**[R] 5.30**	**2.00**	**15.77**	**[R] 8.01**
1981	1.96	1.93	1.93	4.04	8.37	7.61	7.24	11.14	4.79	[R] 8.80	[R] 9.18	0.59	—	[R] 5.76	1.64	16.06	[R] 9.12
1982	2.05	1.95	1.96	5.09	8.08	7.18	7.84	10.54	4.38	[R] 8.23	[R] 8.90	0.55	—	5.62	1.41	17.40	[R] 9.29
1983	1.58	1.72	1.71	5.90	8.03	6.43	8.78	9.25	4.33	[R] 7.51	[R] 8.17	0.46	—	[R] 5.24	1.20	18.01	[R] 8.99
1984	1.91	1.82	1.83	5.80	7.91	6.16	8.40	9.03	4.63	[R] 7.54	[R] 8.03	0.53	—	[R] 5.23	1.35	17.20	[R] 8.70
1985	**1.93**	**1.78**	**1.80**	**5.68**	**7.78**	**5.79**	**[R] 10.02**	**9.33**	**4.26**	**[R] 7.52**	**[R] 8.10**	**0.55**	**—**	**5.14**	**1.18**	**17.06**	**[R] 8.78**
1986	1.75	1.69	1.70	5.06	5.90	3.83	[R] 9.38	6.97	2.15	[R] 5.93	[R] 5.88	0.53	—	[R] 4.02	1.14	16.97	[R] 7.51
1987	1.72	1.59	1.60	4.53	6.12	4.05	[R] 9.35	7.60	2.99	[R] 5.46	6.35	0.56	—	4.27	1.23	17.03	[R] 7.68
1988	1.73	1.56	1.57	4.40	5.97	3.77	[R] 9.22	7.85	2.21	[R] 5.51	[R] 6.36	0.53	—	4.20	1.11	16.64	[R] 7.65
1989	1.75	1.56	1.57	4.95	6.51	4.34	[R] 8.53	8.55	2.67	[R] 5.45	[R] 6.84	0.39	—	4.65	1.28	17.26	[R] 8.28
1990	**1.80**	**1.59**	**1.60**	**4.67**	**7.79**	**5.53**	**[R] 11.40**	**9.46**	**3.24**	**[R] 5.62**	**[R] 7.95**	**0.47**	**[d R] 1.77**	**[d] 4.85**	**1.06**	**17.70**	**[d R] 8.73**
1991	1.72	1.56	1.57	4.76	7.41	4.78	[R] 11.87	9.02	2.03	[R] 5.86	[R] 7.57	0.53	[R] 1.85	[R] 4.59	1.05	17.89	[R] 8.64
1992	1.74	1.53	1.54	[R] 4.73	7.12	4.47	[R] 9.65	9.04	2.25	[R] 5.65	[R] 7.50	0.43	1.84	[R] 4.58	1.01	18.44	[R] 8.73
1993	1.68	1.52	1.54	5.14	6.93	4.16	[R] 10.04	8.89	2.02	[R] 5.76	[R] 7.35	0.43	[R] 1.87	4.62	1.07	18.30	[R] 8.88
1994	1.57	1.52	1.52	4.86	6.88	3.84	[R] 10.54	8.85	2.07	[R] 5.67	[R] 7.32	0.45	1.79	[R] 4.55	1.02	[R] 18.20	[R] 8.77
1995	**1.57**	**1.52**	**1.52**	**4.69**	**6.77**	**3.87**	**11.38**	**9.06**	**2.36**	**6.02**	**7.65**	**0.46**	**1.75**	**4.65**	**1.01**	**18.38**	**8.91**
	Expenditures in Million Nominal Dollars																
1970	**0.3**	**113.3**	**113.6**	**126.6**	**163.6**	**44.9**	**17.8**	**727.8**	**65.0**	**[R] 87.0**	**[R] 1,106.1**	**—**	**—**	**[R] 1,346.3**	**-101.4**	**494.4**	**[R] 1,739.3**
1971	0.3	113.1	113.4	138.8	175.7	50.2	17.8	764.6	101.6	[R] 90.9	[R] 1,200.8	—	—	[R] 1,453.0	-121.6	542.6	[R] 1,874.0
1972	—	93.0	93.0	159.3	180.5	49.5	21.6	851.9	124.0	[R] 92.7	[R] 1,320.3	1.2	—	[R] 1,573.7	-132.7	611.5	[R] 2,052.6
1973	—	98.6	98.6	165.5	225.7	62.2	29.0	968.2	146.8	[R] 92.3	[R] 1,524.2	19.1	—	[R] 1,807.3	-170.1	713.5	[R] 2,350.7
1974	—	231.2	231.2	187.5	354.9	99.4	31.3	1,341.7	447.1	[R] 129.1	[R] 2,403.6	17.2	—	[R] 2,839.5	-446.6	975.2	[R] 3,368.1
1975	**—**	**220.7**	**220.7**	**205.0**	**344.3**	**131.9**	**41.2**	**1,484.6**	**462.4**	**[R] 127.1**	**[R] 2,591.5**	**27.7**	**—**	**[R] 3,044.9**	**-455.1**	**1,280.5**	**[R] 3,870.3**
1976	0.3	244.5	244.9	246.5	404.0	145.2	44.0	1,643.5	437.4	[R] 214.9	[R] 2,889.0	28.1	—	[R] 3,408.5	-480.7	1,391.8	[R] 4,319.6
1977	9.9	254.0	263.9	292.4	517.2	179.4	51.9	1,803.8	545.9	[R] 258.1	[R] 3,356.3	43.7	—	[R] 3,956.3	-603.8	1,701.1	[R] 5,053.6
1978	24.3	251.5	275.8	362.7	512.3	195.7	47.2	1,884.5	458.9	[R] 289.5	[R] 3,388.0	73.0	—	[R] 4,099.5	-588.4	1,830.9	[R] 5,342.0
1979	32.7	325.9	358.7	398.8	920.2	267.3	67.2	2,316.1	630.5	[R] 427.3	[R] 4,628.7	37.2	—	[R] 5,423.3	-728.0	2,093.1	[R] 6,788.4
1980	**33.0**	**365.1**	**398.1**	**548.0**	**980.1**	**444.2**	**70.2**	**3,092.9**	**575.1**	**[R] 562.8**	**[R] 5,725.4**	**92.8**	**—**	**[R] 6,764.2**	**-726.4**	**2,581.5**	**[R] 8,619.3**
1981	39.4	460.9	500.3	575.3	1,146.1	478.9	76.6	3,466.4	386.6	[R] 498.8	[R] 6,053.5	116.2	—	[R] 7,245.3	-662.4	2,769.3	[R] 9,352.2
1982	29.7	475.1	504.8	723.5	1,024.3	444.1	83.1	3,231.2	242.8	[R] 401.7	[R] 5,427.1	106.3	—	[R] 6,761.6	-538.1	3,023.9	[R] 9,247.4
1983	38.1	431.4	469.5	810.9	1,160.8	391.2	93.3	2,899.2	208.3	[R] 411.4	[R] 5,164.2	94.2	—	[R] 6,538.9	-470.2	3,275.9	[R] 9,344.6
1984	51.0	507.6	558.6	809.6	1,182.4	359.2	110.4	2,935.9	234.9	[R] 446.9	[R] 5,269.8	97.2	—	[R] 6,735.2	-527.1	3,245.1	[R] 9,453.1
1985	**45.7**	**485.5**	**531.3**	**783.7**	**1,141.6**	**357.1**	**[R] 140.5**	**3,086.1**	**221.1**	**[R] 578.1**	**[R] 5,524.6**	**131.5**	**—**	**[R] 6,971.0**	**-514.6**	**3,343.0**	**[R] 9,799.4**
1986	42.1	470.0	512.1	706.0	974.0	283.6	[R] 114.8	2,387.4	158.2	[R] 391.8	[R] 4,309.8	120.4	—	[R] 5,648.4	-510.6	3,643.1	[R] 8,780.9
1987	43.4	495.5	538.9	707.2	1,044.5	327.8	[R] 140.4	2,782.4	196.1	[R] 350.7	[R] 4,841.8	108.9	—	[R] 6,196.9	-538.8	3,868.1	[R] 9,526.2
1988	42.8	494.7	537.5	701.7	1,133.2	331.6	[R] 139.8	2,936.2	133.6	[R] 339.6	[R] 5,014.0	119.0	—	[R] 6,372.3	-522.4	3,964.8	[R] 9,814.7
1989	44.0	525.1	569.1	851.4	1,102.3	383.1	[R] 136.6	3,183.1	191.8	[R] 345.4	[R] 5,342.3	60.1	—	[R] 6,823.0	-568.3	4,307.7	[R] 10,562.3
1990	**42.7**	**489.9**	**532.6**	**830.8**	**1,267.6**	**489.8**	**[R] 164.2**	**3,475.0**	**152.2**	**[R] 340.5**	**[R] 5,889.3**	**119.6**	**[d R] 37.5**	**[d R] 7,409.8**	**-508.9**	**[R] 4,374.5**	**[d R] 11,275.4**
1991	44.9	512.9	557.8	818.0	1,156.9	318.7	[R] 196.4	3,340.2	108.8	[R] 348.7	[R] 5,469.8	135.2	[R] 41.4	[R] 7,022.2	-532.0	4,558.0	[R] 11,048.1
1992	45.4	483.7	529.1	[R] 932.8	1,095.0	294.4	[R] 163.9	3,400.3	105.5	[R] 338.0	[R] 5,397.2	108.2	[R] 42.7	[R] 7,009.9	-500.1	4,781.6	[R] 11,291.5
1993	43.4	489.4	532.8	1,115.4	1,136.6	279.6	[R] 172.5	3,446.2	99.9	[R] 352.6	[R] 5,487.4	103.7	[R] 44.3	[R] 7,283.6	-561.6	[R] 5,053.2	[R] 11,775.2
1994	40.7	456.0	496.7	1,107.0	1,171.3	261.3	[R] 185.0	3,490.5	97.0	[R] 349.7	[R] 5,554.8	123.2	45.5	[R] 7,327.1	-548.1	[R] 5,075.7	[R] 11,854.7
1995	**40.8**	**479.0**	**519.8**	**1,139.9**	**1,200.9**	**232.1**	**194.4**	**3,751.1**	**74.5**	**357.3**	**5,810.3**	**122.5**	**55.1**	**7,647.6**	**-547.5**	**5,311.8**	**12,411.8**

[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 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 288. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Virginia

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.34**	**1.45**	**1.37**	**1.44**	**2.27**	**1.45**	**—**	**1.45**	**6.11**	**2.45**
1971	1.27	1.48	1.46	1.51	2.20	1.52	—	1.50	6.26	2.58
1972	1.55	1.56	1.47	1.51	2.38	1.55	—	1.55	6.49	2.71
1973	1.55	1.64	1.64	1.79	3.81	1.82	—	1.74	6.89	3.11
1974	2.64	1.83	2.54	2.76	3.85	2.67	—	2.34	9.06	4.26
1975	**2.73**	**2.20**	**2.69**	**2.99**	**4.43**	**2.88**	**—**	**2.60**	**11.05**	**5.19**
1976	3.11	2.49	2.90	3.18	4.63	3.10	—	2.85	11.08	5.39
1977	3.42	2.97	3.31	3.61	5.06	3.49	—	3.29	12.70	6.33
1978	3.74	3.21	3.54	3.86	4.77	3.68	—	3.47	13.27	6.79
1979	3.70	3.65	5.08	5.24	6.56	5.18	—	4.62	14.92	7.73
1980	**3.85**	**4.20**	**7.10**	**7.96**	**8.07**	**7.32**	**—**	**5.75**	**17.80**	**10.23**
1981	4.39	4.55	8.69	10.03	8.77	8.86	—	6.47	18.15	11.40
1982	4.23	5.88	8.49	10.01	9.72	8.86	—	7.14	19.81	12.60
1983	3.69	6.83	8.07	8.93	10.72	8.54	—	7.55	20.56	13.24
1984	4.07	6.75	8.21	8.63	10.23	8.55	—	7.48	19.53	12.61
1985	**3.92**	**6.76**	**7.89**	**8.30**	**10.48**	**8.34**	**—**	**7.51**	**19.49**	**12.45**
1986	3.59	6.24	6.43	6.76	9.86	6.84	—	6.50	19.48	12.11
1987	3.53	5.63	5.93	6.24	10.08	6.49	—	6.00	19.62	11.95
1988	3.49	5.58	6.01	6.32	9.81	6.48	—	5.98	19.29	11.76
1989	3.59	6.33	6.49	6.83	11.03	7.18	—	6.69	20.33	12.79
1990	**3.48**	**6.48**	**8.25**	**8.68**	**13.03**	**9.15**	**[d] 3.53**	**[d] 7.39**	**21.24**	**[d] 13.44**
1991	3.35	6.53	7.54	7.93	13.55	8.79	3.53	7.24	21.51	13.62
1992	3.32	6.44	6.93	7.28	10.59	7.72	3.53	6.73	22.37	13.44
1993	3.37	7.19	6.66	7.01	11.58	7.65	3.53	7.09	22.19	13.64
1994	3.45	7.35	6.37	6.69	[R] 12.94	[R] 7.72	3.53	[R] 7.20	22.72	[R] 13.99
1995	**3.35**	**6.96**	**6.30**	**6.62**	**13.31**	**7.92**	**3.53**	**7.05**	**22.99**	**13.97**
	Expenditures in Million Nominal Dollars									
1970	**5.3**	**73.8**	**77.7**	**37.1**	**12.3**	**127.1**	**—**	**206.2**	**240.5**	**446.8**
1971	4.6	75.3	81.0	38.8	11.9	131.7	—	211.6	257.5	469.2
1972	5.2	88.6	82.6	35.2	14.3	132.2	—	225.9	288.8	514.7
1973	6.2	86.7	97.2	29.9	21.4	148.4	—	241.3	345.7	587.0
1974	14.7	90.1	134.9	35.1	20.3	190.3	—	295.1	456.0	751.1
1975	**7.3**	**109.5**	**142.4**	**34.9**	**25.7**	**203.0**	**—**	**319.8**	**598.6**	**918.4**
1976	11.4	133.1	159.9	41.3	28.6	229.8	—	374.4	648.5	1,022.9
1977	12.2	148.2	197.6	38.9	30.9	267.4	—	427.8	788.4	1,216.2
1978	6.7	177.3	187.4	34.9	26.1	248.4	—	432.5	845.4	1,277.9
1979	6.0	189.7	386.1	68.3	32.9	487.3	—	683.0	952.9	1,636.0
1980	**6.4**	**233.9**	**305.3**	**63.4**	**44.7**	**413.3**	**—**	**653.6**	**1,198.3**	**1,851.9**
1981	4.9	237.6	282.0	52.3	44.4	378.7	—	621.2	1,274.1	1,895.3
1982	8.9	291.0	248.9	59.5	46.0	354.4	—	654.3	1,374.9	2,029.2
1983	8.2	332.7	253.7	59.8	60.3	373.9	—	714.7	1,514.1	2,228.8
1984	10.3	359.7	264.5	48.3	64.1	376.9	—	746.9	1,446.6	2,193.5
1985	**9.3**	**342.4**	**236.3**	**170.0**	**68.1**	**474.4**	**—**	**826.1**	**1,500.6**	**2,326.7**
1986	7.7	334.3	243.3	94.9	54.9	393.1	—	735.1	1,677.6	2,412.7
1987	10.1	324.8	229.4	77.2	68.9	375.5	—	710.4	1,799.3	2,509.7
1988	9.0	340.1	243.9	94.2	63.9	402.1	—	751.2	1,856.0	2,607.2
1989	6.1	406.7	237.7	87.9	84.6	410.3	—	823.1	2,027.0	2,850.1
1990	**7.2**	**347.2**	**245.6**	**57.1**	**100.3**	**403.0**	**[d] 18.9**	**[d] 776.3**	**[R] 2,038.6**	**[d R] 2,814.9**
1991	4.1	368.6	201.9	59.5	113.6	374.9	19.9	767.5	[R] 2,173.2	[R] 2,940.7
1992	5.7	417.7	192.9	53.0	93.2	339.1	20.9	783.4	[R] 2,273.3	[R] 3,056.7
1993	9.2	491.7	192.5	59.2	99.9	351.5	22.6	875.0	[R] 2,458.7	[R] 3,333.7
1994	9.5	497.3	182.2	47.7	[R] 114.7	[R] 344.6	22.2	[R] 873.6	[R] 2,507.2	[R] 3,380.9
1995	**8.4**	**493.4**	**183.3**	**45.8**	**138.5**	**367.7**	**24.6**	**894.1**	**2,625.8**	**3,519.8**

[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.
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, 1970-1995, Virginia

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.42**	**0.94**	**1.08**	**0.65**	**1.48**	**2.85**	**0.32**	**1.18**	**0.94**	**4.84**	**2.53**
1971	0.54	0.97	1.15	0.69	1.53	2.82	0.40	1.22	0.99	5.05	2.64
1972	0.47	1.08	1.16	0.69	1.53	2.94	0.46	1.26	1.06	5.22	2.84
1973	0.49	1.10	1.28	0.75	1.63	3.15	0.55	1.41	1.12	5.40	2.95
1974	1.34	1.28	2.20	2.03	2.34	4.41	1.65	2.35	1.56	7.36	4.06
1975	**1.47**	**1.69**	**2.37**	**2.36**	**2.79**	**4.77**	**1.85**	**2.60**	**1.93**	**9.49**	**5.50**
1976	1.27	1.86	2.57	2.49	2.87	5.01	1.75	2.76	2.04	9.66	5.59
1977	1.37	2.38	2.98	2.91	3.40	5.33	2.15	3.16	2.50	11.56	6.75
1978	1.58	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	3.90	4.24	7.01	3.02	4.67	3.56	13.48	8.42
1980	**1.64**	**3.71**	**6.46**	**5.94**	**4.60**	**9.97**	**3.91**	**6.32**	**4.30**	**15.79**	**10.06**
1981	1.90	4.09	8.01	7.39	5.83	11.14	5.03	7.96	5.06	16.07	11.03
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	6.38	6.73	6.60	9.25	4.47	6.56	5.97	17.88	11.84
1984	1.73	5.89	6.54	7.04	6.73	9.03	4.75	6.46	5.81	17.51	11.91
1985	**1.69**	**5.76**	**6.16**	**6.84**	[R] **9.63**	**9.33**	**4.29**	[R] **6.49**	[R] **5.73**	**17.35**	**12.05**
1986	1.61	5.07	4.00	4.84	[R] 8.98	6.97	2.40	[R] 4.07	4.47	17.21	11.40
1987	1.55	4.46	4.14	4.65	[R] 8.74	7.60	3.05	[R] 4.47	4.25	17.12	11.20
1988	1.53	4.28	3.77	4.07	[R] 8.78	7.85	2.32	[R] 4.35	[R] 4.12	16.55	11.02
1989	1.56	4.74	4.41	5.10	[R] 6.23	8.55	2.72	[R] 5.01	4.67	16.89	11.71
1990	**1.64**	**4.73**	**5.62**	**5.93**	[R] **9.53**	**9.46**	**3.31**	[R] **6.22**	[R] **5.00**	[R] **17.15**	**12.17**
1991	1.61	4.66	5.05	5.49	[R] 10.14	9.02	2.32	[R] 5.81	4.85	17.16	12.30
1992	1.63	4.79	4.77	5.30	[R] 8.64	9.04	2.41	[R] 5.38	[R] 4.79	17.73	12.35
1993	1.65	5.36	4.63	4.98	[R] 8.49	8.89	2.22	[R] 4.97	5.03	17.53	12.24
1994	1.66	5.46	4.34	[R] 4.87	[R] 9.18	8.85	2.36	[R] 4.85	5.07	[R] 16.94	[R] 11.95
1995	**1.69**	**4.93**	**4.48**	**4.90**	**9.44**	**9.06**	**2.68**	**5.00**	**4.77**	**17.10**	**11.84**
	Expenditures in Million Nominal Dollars										
1970	**3.1**	**28.9**	**13.1**	**0.3**	**1.4**	**3.1**	**0.2**	**18.2**	**50.2**	**178.4**	**228.6**
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	224.8	286.3
1973	3.6	42.5	16.2	0.3	1.6	6.0	1.1	25.1	71.1	258.8	330.0
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**	**55.5**	**26.8**	**0.6**	**2.9**	**7.8**	**2.9**	**40.8**	**103.5**	**453.5**	**557.1**
1976	8.6	66.1	30.2	0.6	3.1	8.4	2.9	45.3	120.0	494.6	614.6
1977	9.0	84.2	37.8	0.6	3.7	9.7	4.0	55.8	149.0	610.3	759.2
1978	5.2	113.8	35.3	0.6	3.5	9.9	2.7	51.9	170.9	660.2	831.1
1979	4.8	106.4	73.8	1.0	3.8	13.5	3.9	96.1	207.2	751.6	958.8
1980	**5.0**	**144.9**	**61.5**	**1.5**	**4.5**	**19.4**	**10.9**	**97.8**	**247.7**	**914.2**	**1,161.9**
1981	3.9	147.5	65.1	1.6	5.2	30.3	12.0	114.2	265.6	997.7	1,263.3
1982	7.6	205.0	66.4	1.4	5.3	19.2	14.8	107.1	319.7	1,082.9	1,402.6
1983	7.0	239.8	101.8	2.2	6.5	31.7	13.6	155.9	402.7	1,170.6	1,573.3
1984	8.0	212.6	107.0	1.2	7.4	19.4	19.7	154.8	375.4	1,232.9	1,608.3
1985	**7.4**	**203.3**	**88.2**	**8.3**	[R] **11.1**	**22.4**	**11.9**	[R] **141.9**	[R] **352.5**	**1,272.8**	[R] **1,625.3**
1986	6.4	186.8	65.9	4.0	[R] 8.8	14.5	14.7	[R] 107.9	[R] 301.2	1,380.7	[R] 1,681.9
1987	8.2	182.8	62.7	5.2	[R] 10.6	20.3	19.0	[R] 117.8	[R] 308.8	1,460.4	[R] 1,769.2
1988	7.3	187.0	57.1	6.2	[R] 10.1	20.7	5.9	[R] 100.0	[R] 294.2	1,476.8	[R] 1,771.0
1989	4.9	217.8	60.4	8.1	[R] 8.4	22.6	3.6	[R] 103.2	[R] 325.9	1,600.2	[R] 1,926.1
1990	**6.3**	**202.3**	**77.6**	**4.7**	[R] **13.0**	**23.6**	**4.6**	[R] **123.4**	[R] **332.0**	[R] **1,643.7**	[R] **1,975.7**
1991	3.6	213.8	62.8	4.6	[R] 15.0	16.1	1.7	[R] 100.2	[R] 317.6	[R] 1,720.9	[R] 2,038.5
1992	5.1	252.3	54.3	3.8	[R] 13.4	15.1	3.4	[R] 90.1	[R] 347.4	[R] 1,807.0	[R] 2,154.4
1993	8.3	296.1	65.4	4.5	[R] 12.9	5.7	2.5	[R] 91.0	[R] 395.4	1,879.9	[R] 2,275.3
1994	8.5	300.2	62.3	[R] 2.8	[R] 14.4	6.4	2.3	[R] 88.2	[R] 396.9	[R] 1,828.6	[R] 2,225.5
1995	**7.8**	**289.3**	**67.1**	**7.7**	**17.4**	**6.3**	**3.5**	**101.9**	**399.0**	**1,929.1**	**2,328.1**

[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 290. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Virginia

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**0.40**	**0.42**	**0.42**	**0.49**	**0.68**	**0.60**	**0.65**	**1.48**	**5.08**	**2.85**	**0.34**	R **0.92**	R **0.78**	**—**	**0.57**	**3.08**	**0.81**
1971	0.47	0.54	0.54	0.55	0.73	0.63	0.69	1.53	5.27	2.82	0.45	R 1.01	0.77	—	0.64	3.32	0.91
1972	—	0.47	0.47	0.58	0.78	0.63	0.69	1.53	5.58	2.94	0.40	R 1.00	0.74	—	0.62	3.60	R 0.93
1973	—	0.49	0.49	0.64	0.84	0.69	0.75	1.63	5.33	3.15	0.48	R 1.10	0.82	—	0.69	3.76	R 1.02
1974	—	1.34	1.34	0.91	1.44	1.87	2.03	2.34	7.22	4.41	1.65	R 2.03	R 1.88	—	1.52	5.81	2.03
1975	**—**	**1.47**	**1.47**	**1.08**	**1.82**	**2.19**	**2.36**	**2.79**	**7.48**	**4.77**	**1.81**	R **2.54**	R **2.17**	**—**	**1.74**	**7.37**	R **2.49**
1976	1.64	1.27	1.27	1.43	1.85	2.29	2.49	2.87	7.05	5.01	1.80	R 3.11	2.38	—	1.96	7.17	2.69
1977	1.69	1.37	1.40	1.89	2.02	2.67	2.91	3.40	6.97	5.33	2.09	R 3.43	2.70	—	R 2.28	8.46	R 3.11
1978	1.73	1.58	1.62	2.10	2.22	2.82	3.10	3.58	7.60	5.39	2.02	R 3.57	R 2.86	—	2.42	8.94	R 3.32
1979	1.78	1.60	1.64	2.28	2.59	3.59	3.90	4.24	10.21	7.01	2.63	R 4.80	R 3.78	—	2.90	10.04	3.80
1980	**1.86**	**1.64**	**1.69**	**2.99**	**3.60**	**5.33**	**5.94**	**4.60**	**14.36**	**9.97**	**3.58**	R **7.18**	R **5.56**	**—**	**3.77**	**12.19**	R **4.82**
1981	1.96	1.90	1.91	3.51	4.79	6.68	7.39	5.83	18.00	11.14	4.74	R 9.00	R 7.16	—	R 4.23	12.40	R 5.43
1982	2.05	1.93	1.95	4.27	4.14	6.57	7.23	6.33	17.25	10.54	4.23	R 8.12	R 6.53	—	R 4.17	13.69	R 5.69
1983	1.58	1.72	1.68	4.89	4.11	6.74	6.73	6.60	16.98	9.25	4.27	R 7.63	R 6.26	—	R 3.93	13.81	R 5.49
1984	1.91	1.73	1.78	4.77	4.50	6.70	7.04	6.73	17.63	9.03	4.75	R 7.94	R 6.40	—	R 4.01	12.78	R 5.31
1985	**1.93**	**1.69**	**1.74**	**4.60**	**4.93**	**6.51**	**6.84**	R **9.63**	**17.61**	**9.33**	**4.29**	R **7.54**	R **6.42**	**—**	R **4.11**	**12.47**	R **5.38**
1986	1.75	1.61	1.64	3.81	4.21	4.60	4.84	R 8.98	15.59	6.97	2.40	R 5.23	R 4.74	—	R 3.24	12.08	R 4.66
1987	1.72	1.55	1.59	3.50	3.29	4.43	4.65	R 8.74	R 13.58	7.60	3.05	R 5.95	R 4.78	—	3.11	12.12	4.54
1988	1.73	1.53	1.57	3.22	3.25	3.87	4.07	R 8.78	R 14.62	7.85	2.32	R 5.07	R 4.49	—	R 2.91	11.95	R 4.42
1989	1.75	1.56	1.60	3.76	2.96	4.85	5.10	R 6.23	14.48	8.55	2.72	R 5.41	R 4.54	—	3.10	12.33	R 4.69
1990	**1.80**	**1.64**	**1.67**	**3.52**	**2.99**	**5.64**	**5.93**	R **9.53**	**14.60**	**9.46**	**3.31**	R **6.08**	R **5.04**	d R **1.18**	d **3.14**	**12.51**	d R **4.59**
1991	1.72	1.61	1.63	3.66	3.10	5.22	5.49	R 10.14	R 16.80	9.02	2.32	R 5.54	R 5.14	1.28	3.04	R 12.39	R 4.47
1992	1.74	1.63	1.65	R 3.45	2.35	5.04	5.30	R 8.64	R 18.32	9.04	2.41	R 5.71	R 4.77	R 1.26	R 3.00	12.54	R 4.54
1993	1.68	1.65	1.66	3.71	2.96	4.74	4.98	R 8.49	R 18.96	8.89	2.22	R 5.06	R 4.78	1.25	R 3.18	12.29	R 4.76
1994	1.57	1.66	1.63	3.03	2.91	4.63	4.87	R 7.82	R 19.11	8.85	2.36	R 5.09	R 4.73	1.22	R 2.96	12.19	R 4.56
1995	**1.57**	**1.69**	**1.66**	**3.25**	**3.28**	**4.66**	**4.90**	**7.93**	**19.40**	**9.06**	**2.68**	**5.41**	**5.07**	**1.24**	**3.11**	**12.20**	**4.68**
	Expenditures in Million Nominal Dollars																
1970	**0.3**	**41.8**	**42.1**	**22.5**	**10.2**	**15.3**	**1.5**	**3.8**	**8.9**	**9.8**	**8.6**	R **10.0**	R **68.1**	**—**	R **132.7**	**75.5**	R **208.2**
1971	0.3	41.1	41.4	27.4	13.6	13.7	1.7	4.0	8.9	8.3	20.0	R 8.2	R 78.4	—	R 147.2	84.6	R 231.8
1972	—	32.4	32.4	31.2	14.2	12.7	2.0	5.3	10.1	7.7	21.8	R 8.9	R 82.7	—	R 146.3	97.8	R 244.1
1973	—	31.1	31.1	34.6	17.5	15.5	1.2	5.6	13.0	8.6	29.2	R 10.6	R 101.1	—	R 166.9	109.0	R 275.8
1974	—	74.5	74.5	46.8	29.0	31.8	2.7	8.2	17.0	11.6	95.6	R 19.8	R 215.7	—	R 337.0	172.1	R 509.0
1975	**—**	**97.0**	**97.0**	**39.4**	**28.1**	**36.8**	**2.2**	**12.0**	**13.9**	**11.5**	**85.4**	R **23.6**	R **213.7**	**—**	R **350.0**	**228.3**	R **578.3**
1976	0.3	66.7	67.0	46.7	33.2	42.4	3.5	11.5	14.6	10.5	92.8	R 97.2	R 305.7	—	R 419.4	248.7	R 668.1
1977	9.9	66.6	76.5	57.3	39.2	57.1	3.4	16.3	17.8	10.8	118.1	R 131.0	R 393.6	—	R 527.5	302.1	R 829.6
1978	24.3	72.6	96.9	69.4	51.0	51.0	3.5	16.5	20.9	9.3	83.4	R 147.0	R 382.5	—	R 548.7	324.7	R 873.5
1979	32.7	100.6	133.3	94.0	55.9	89.0	8.4	29.2	29.4	12.2	101.2	R 221.5	R 546.7	—	R 774.0	387.1	R 1,161.1
1980	**33.0**	**115.4**	**148.4**	**161.9**	**62.6**	**111.0**	**9.0**	**20.3**	**36.8**	**14.6**	**110.9**	R **333.5**	R **698.6**	**—**	R **1,008.9**	**467.5**	R **1,476.4**
1981	39.4	138.7	178.1	181.7	74.9	142.8	9.1	24.9	44.2	13.6	59.3	R 251.2	R 619.9	—	R 979.7	495.3	R 1,475.0
1982	29.7	140.8	170.5	214.6	55.3	140.7	7.6	30.1	38.6	11.3	59.8	R 180.9	R 524.3	—	R 909.4	563.9	R 1,473.4
1983	38.1	133.2	171.3	223.8	77.1	114.7	4.0	24.3	39.8	7.7	59.3	R 170.0	R 496.8	—	R 891.9	589.0	R 1,480.9
1984	51.0	151.3	202.2	223.4	109.1	115.1	2.1	35.5	44.1	18.9	84.5	R 180.1	R 589.4	—	R 1,015.0	562.5	R 1,577.5
1985	**45.7**	**138.0**	**183.7**	**232.5**	**132.0**	**112.8**	**8.0**	R **57.8**	**41.0**	**33.6**	**83.5**	R **160.7**	R **629.5**	**—**	R **1,045.6**	**566.4**	R **1,612.1**
1986	42.1	133.8	175.8	183.2	124.2	88.1	5.2	R 49.2	35.5	25.2	46.5	R 76.9	R 450.9	—	R 809.9	580.5	R 1,390.4
1987	43.4	141.0	184.4	195.3	96.2	89.7	3.3	R 58.3	R 35.0	29.5	46.1	R 87.2	R 445.2	—	R 824.9	604.1	R 1,429.1
1988	42.8	142.2	185.0	172.3	77.6	87.4	3.4	R 62.6	36.3	28.5	34.7	R 73.5	R 404.1	—	R 761.3	627.8	R 1,389.2
1989	44.0	137.9	181.9	217.1	82.4	97.4	4.1	R 41.4	36.9	34.5	41.4	R 76.5	R 414.6	—	R 813.6	676.6	R 1,490.2
1990	**42.7**	**153.1**	**195.8**	**263.7**	**93.3**	**99.6**	**2.5**	R **48.7**	**38.3**	**34.8**	**51.3**	R **93.4**	R **462.0**	d R **18.6**	d R **940.1**	R **688.2**	d R **1,628.3**
1991	44.9	172.2	217.1	217.6	76.9	88.4	2.9	R 64.1	39.4	31.8	26.3	R 110.9	R 440.8	R 21.5	R 897.0	R 659.8	R 1,556.7
1992	45.4	145.6	191.0	R 235.6	58.5	73.2	1.7	R 54.1	R 43.8	31.8	35.2	R 117.9	R 416.2	R 21.7	R 864.5	R 697.0	R 1,561.4
1993	43.4	117.0	160.4	270.5	72.7	81.2	2.5	R 56.4	R 46.2	29.6	29.3	R 105.3	R 423.2	R 21.7	R 875.7	710.4	R 1,586.2
1994	40.7	116.7	157.4	258.3	75.9	66.2	2.8	R 50.5	R 48.6	31.0	29.4	R 106.8	R 411.3	R 23.4	R 850.3	735.9	R 1,586.2
1995	**40.8**	**110.6**	**151.4**	**313.3**	**79.3**	**93.5**	**3.4**	**36.5**	**48.5**	**34.2**	**21.7**	**108.1**	**425.2**	**30.5**	**920.3**	**753.4**	**1,673.8**

[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 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 291. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Virginia

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.42**	**—**	**2.17**	**1.25**	**0.73**	**1.48**	**5.08**	**2.85**	**0.30**	**1.95**	**1.95**	**—**	**1.95**
1971	0.54	—	2.21	1.32	0.76	1.53	5.27	2.82	0.38	1.98	1.98	—	1.98
1972	0.47	—	2.19	1.32	0.76	1.53	5.58	2.94	0.44	2.12	2.12	—	2.12
1973	0.49	—	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	1.56	2.34	7.22	4.41	1.54	3.54	3.54	—	3.54
1975	**1.47**	**—**	**3.45**	**2.72**	**2.03**	**2.79**	**7.48**	**4.77**	**1.61**	**3.91**	**3.91**	**—**	**3.91**
1976	1.27	—	3.59	2.90	2.17	2.87	7.05	5.01	1.67	4.14	4.14	—	4.14
1977	1.37	—	3.97	3.33	2.55	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	5.39	1.64	4.62	4.62	14.62	4.62
1979	—	—	5.73	4.97	3.95	4.24	10.21	7.01	2.68	6.08	6.08	15.02	6.08
1980	**—**	**—**	**9.02**	**7.27**	**6.46**	**4.60**	**14.36**	**9.97**	**3.32**	**8.72**	**8.72**	**14.65**	**8.73**
1981	—	—	10.84	8.83	7.61	5.83	18.00	11.14	4.38	9.98	9.98	17.52	9.98
1982	—	—	10.92	8.48	7.18	6.33	17.25	10.54	4.17	9.56	9.56	17.82	9.56
1983	—	—	10.44	8.67	6.43	6.60	16.98	9.25	4.22	8.66	8.66	18.06	8.67
1984	—	—	10.27	8.36	6.16	6.73	17.63	9.03	4.45	8.48	8.48	22.72	8.49
1985	**—**	**—**	**9.99**	**8.34**	**5.79**	**[R] 9.63**	**17.61**	**9.33**	**4.18**	**8.55**	**8.55**	**17.33**	**8.55**
1986	—	—	8.41	6.34	3.83	[R] 8.98	15.59	6.97	1.91	6.29	6.29	18.20	6.29
1987	—	—	7.55	6.93	4.05	[R] 8.74	[R] 13.58	7.60	2.81	6.85	6.85	16.57	[R] 6.86
1988	—	—	7.41	6.74	3.77	[R] 8.78	[R] 14.62	7.85	1.99	6.89	6.89	16.10	6.90
1989	—	—	8.28	7.26	4.34	[R] 6.23	14.48	8.55	2.34	7.53	7.53	15.09	7.54
1990	**—**	**—**	**9.32**	**8.40**	**5.53**	**[R] 9.53**	**14.60**	**9.46**	**3.03**	**8.46**	**8.46**	**[R] 15.56**	**8.47**
1991	—	—	8.71	8.10	4.78	[R] 10.14	[R] 16.80	9.02	1.82	8.08	8.08	[R] 15.67	8.09
1992	—	—	8.54	7.79	4.47	[R] 8.64	[R] 18.32	9.04	2.05	[R] 8.10	[R] 8.10	[R] 16.32	8.11
1993	—	5.38	8.24	7.72	4.16	[R] 8.49	[R] 18.96	8.89	1.83	7.99	7.99	[R] 16.30	7.99
1994	—	2.48	7.96	7.72	3.84	[R] 8.14	[R] 19.11	8.85	[R] 1.91	7.96	7.96	[R] 16.50	7.97
1995	**—**	**2.23**	**8.36**	**7.64**	**3.87**	**8.46**	**19.40**	**9.06**	**2.21**	**8.18**	**8.18**	**15.26**	**8.19**
	Expenditures in Million Nominal Dollars												
1970	**0.1**	**—**	**3.9**	**56.0**	**44.9**	**0.3**	**13.3**	**714.9**	**22.4**	**855.7**	**855.7**	**—**	**855.7**
1971	0.1	—	3.6	65.9	50.2	0.4	14.0	753.1	28.0	915.2	915.3	—	915.3
1972	(s)	—	3.6	67.9	49.5	0.4	15.9	839.8	30.3	1,007.4	1,007.4	—	1,007.4
1973	(s)	—	3.8	92.2	62.2	0.4	15.4	953.6	30.2	1,157.9	1,157.9	—	1,157.9
1974	(s)	—	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	**(s)**	**—**	**4.4**	**130.4**	**131.9**	**0.6**	**19.4**	**1,465.4**	**64.4**	**1,816.5**	**1,816.5**	**—**	**1,816.5**
1976	(s)	—	4.1	157.6	145.2	0.7	20.3	1,624.6	61.5	2,014.1	2,014.1	—	2,014.1
1977	(s)	—	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	1,865.3	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**	**475.3**	**444.2**	**0.8**	**46.1**	**3,058.9**	**92.3**	**4,127.6**	**4,127.6**	**1.5**	**4,129.1**
1981	—	—	10.1	631.4	478.9	2.1	55.5	3,422.6	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	—	—	8.6	681.1	391.2	2.2	50.0	2,859.8	66.6	4,059.4	4,059.4	2.3	4,061.7
1984	—	—	6.6	685.1	359.2	3.4	55.3	2,897.6	63.4	4,070.7	4,070.7	3.1	4,073.8
1985	**—**	**—**	**6.6**	**693.2**	**357.1**	**[R] 3.5**	**51.5**	**3,030.1**	**89.9**	**[R] 4,232.1**	**[R] 4,232.1**	**3.2**	**[R] 4,235.3**
1986	—	—	6.6	571.4	283.6	1.8	44.6	2,347.6	36.1	3,291.6	3,291.6	4.2	[R] 3,295.9
1987	—	—	2.8	655.5	327.8	[R] 2.6	[R] 43.9	2,732.6	48.7	[R] 3,814.0	[R] 3,814.0	4.2	[R] 3,818.1
1988	—	—	2.8	738.2	331.6	[R] 3.1	[R] 45.6	2,887.0	34.9	[R] 4,043.1	[R] 4,043.1	4.2	[R] 4,047.3
1989	—	—	3.1	692.9	383.1	[R] 2.1	46.3	3,126.0	38.5	4,292.0	4,292.0	3.8	[R] 4,295.9
1990	**—**	**—**	**3.3**	**828.5**	**489.8**	**[R] 2.2**	**48.0**	**3,416.5**	**64.1**	**[R] 4,852.5**	**[R] 4,852.5**	**4.0**	**[R] 4,856.5**
1991	—	—	5.1	795.7	318.7	[R] 3.7	49.4	3,292.2	43.2	[R] 4,508.1	[R] 4,508.1	4.0	[R] 4,512.2
1992	—	—	4.4	767.3	294.4	[R] 3.2	[R] 55.0	3,353.5	37.0	[R] 4,514.6	[R] 4,514.6	4.3	[R] 4,518.9
1993	—	(s)	4.4	792.2	279.6	[R] 3.3	57.9	3,410.9	27.5	[R] 4,575.8	[R] 4,575.8	4.1	[R] 4,579.9
1994	—	0.1	4.1	849.6	261.3	[R] 5.4	[R] 61.0	3,453.1	23.7	4,658.1	4,658.2	4.0	[R] 4,662.1
1995	**—**	**0.1**	**3.6**	**850.1**	**232.1**	**2.0**	**60.9**	**3,710.7**	**27.2**	**4,886.5**	**4,886.6**	**3.5**	**4,890.1**

[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.
(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 292. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Virginia

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.38**	**0.29**	**0.31**	**0.35**	**0.35**	**0.32**	**—**	**—**	**0.35**
1971	0.45	0.36	0.40	0.45	0.37	0.40	—	—	0.42
1972	0.43	0.39	0.46	0.53	0.38	0.46	0.25	—	0.44
1973	0.48	0.39	0.55	0.87	0.36	0.56	0.25	—	0.47
1974	1.22	0.95	1.64	2.09	—	1.67	0.26	—	1.26
1975	**1.14**	**0.99**	**1.84**	**2.18**	**—**	**1.85**	**0.28**	**—**	**1.24**
1976	1.14	1.14	1.79	2.38	—	1.81	0.33	—	1.24
1977	1.36	1.63	2.14	2.75	—	2.17	0.43	—	1.49
1978	1.58	1.82	1.97	2.75	—	2.00	0.47	—	1.36
1979	1.68	2.22	2.95	3.98	—	2.98	0.48	—	1.99
1980	**1.71**	**2.89**	**3.94**	**5.86**	**—**	**4.03**	**0.74**	**—**	**2.00**
1981	1.93	3.55	5.06	7.05	—	5.22	0.59	—	1.64
1982	1.93	3.94	4.67	6.95	—	4.88	0.55	—	1.41
1983	1.70	4.20	4.48	5.82	—	4.60	0.46	—	1.20
1984	1.83	4.23	4.62	5.95	—	4.77	0.53	—	1.35
1985	**1.80**	**3.44**	**4.37**	**5.57**	**—**	**4.60**	**0.55**	**—**	**1.18**
1986	1.71	1.93	2.09	3.39	—	2.16	0.53	—	1.14
1987	1.58	2.42	3.06	3.73	—	3.11	0.56	—	1.23
1988	1.55	2.05	2.30	3.38	—	2.38	0.53	—	1.11
1989	1.55	2.48	2.78	4.01	—	2.88	0.39	—	1.28
1990	**1.55**	**2.58**	**3.60**	**5.83**	**—**	**4.14**	**0.47**	**—**	**1.06**
1991	1.52	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	1.98	3.85	—	2.20	0.45	—	1.02
1995	**1.45**	**2.59**	**2.23**	**3.65**	**—**	**2.45**	**0.46**	**—**	**1.01**
	Expenditures in Million Nominal Dollars								
1970	**63.1**	**1.3**	**33.8**	**1.5**	**1.8**	**37.0**	**—**	**—**	**101.4**
1971	63.8	1.6	53.0	1.5	1.8	56.3	—	—	121.6
1972	52.4	1.9	71.2	3.6	2.4	77.1	1.2	—	132.7
1973	57.6	1.7	86.3	4.8	0.6	91.7	19.1	—	170.1
1974	128.1	4.6	277.8	18.8	—	296.6	17.2	—	446.6
1975	**109.3**	**0.5**	**309.7**	**7.9**	**—**	**317.6**	**27.7**	**—**	**455.1**
1976	157.8	0.6	280.2	14.0	—	294.2	28.1	—	480.7
1977	166.2	2.6	365.7	25.5	—	391.3	43.7	—	603.8
1978	167.0	2.2	328.6	17.5	—	346.2	73.0	—	588.4
1979	214.5	8.7	450.7	16.9	—	467.6	37.2	—	728.0
1980	**238.2**	**7.3**	**361.0**	**27.1**	**—**	**388.1**	**92.8**	**—**	**726.4**
1981	313.4	8.5	199.5	24.8	—	224.3	116.2	—	662.4
1982	317.8	12.9	88.0	13.1	—	101.2	106.3	—	538.1
1983	283.1	14.6	68.8	9.4	—	78.3	94.2	—	470.2
1984	338.1	13.9	67.3	10.7	—	78.0	97.2	—	527.1
1985	**330.9**	**5.5**	**35.7**	**11.0**	**—**	**46.7**	**131.5**	**—**	**514.6**
1986	322.1	1.7	60.8	5.4	—	66.3	120.4	—	510.6
1987	336.2	4.3	82.3	7.0	—	89.4	108.9	—	538.8
1988	336.3	2.4	58.2	6.6	—	64.8	119.0	—	522.4
1989	376.2	9.8	108.3	13.9	—	122.2	60.1	—	568.3
1990	**323.2**	**17.6**	**32.2**	**16.4**	**—**	**48.5**	**119.6**	**—**	**508.9**
1991	333.0	18.0	37.6	8.2	—	45.8	135.2	—	532.0
1992	327.4	27.2	29.9	7.4	—	37.3	108.2	—	500.1
1993	355.0	57.1	40.6	5.3	—	45.9	103.7	—	561.6
1994	321.3	51.1	41.6	11.0	—	52.5	123.2	—	548.1
1995	**352.2**	**43.8**	**22.1**	**6.9**	**—**	**29.0**	**122.5**	**—**	**547.5**

[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, 1970-1995, 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**	**2.92**	**0.32**	**R 1.41**	**R 1.79**	**0.18**	**0.65**	**R 1.46**	**0.18**	**2.02**	**R 1.63**
1971	—	0.57	0.57	0.75	1.24	0.77	2.56	2.93	0.53	R 1.38	R 1.84	0.18	—	R 1.51	0.18	2.11	R 1.68
1972	—	0.21	0.21	0.80	1.25	0.76	2.54	2.88	0.51	R 1.36	R 1.79	0.18	—	R 1.42	0.18	2.19	R 1.69
1973	—	0.40	0.40	0.84	1.48	0.91	3.59	3.14	0.71	R 1.34	R 2.03	0.20	—	R 1.51	0.31	2.31	R 1.84
1974	—	0.43	0.43	1.08	2.35	1.57	3.40	4.29	1.34	R 2.19	R 2.99	0.21	—	R 2.20	0.29	2.40	R 2.45
1975	**—**	**0.61**	**0.61**	**1.60**	**2.55**	**2.04**	**4.46**	**4.62**	**1.93**	**R 2.46**	**R 3.35**	**0.24**	**—**	**R 2.56**	**0.46**	**2.77**	**R 2.87**
1976	—	0.83	0.83	2.01	2.82	2.32	3.60	4.82	1.88	R 2.45	R 3.59	0.25	—	R 2.87	0.61	2.81	R 3.10
1977	—	0.81	0.81	2.39	3.09	2.62	4.84	5.18	1.92	R 2.65	R 3.87	0.27	—	R 3.02	0.57	3.08	R 3.42
1978	—	0.91	0.91	2.71	3.21	2.86	4.61	5.40	2.05	R 2.83	R 4.03	0.30	—	R 3.29	0.59	3.08	R 3.58
1979	—	1.00	1.00	3.15	4.65	3.79	5.65	7.22	2.40	R 3.55	R 5.27	0.34	—	R 4.17	0.76	3.38	R 4.45
1980	**—**	**1.15**	**1.15**	**4.48**	**6.68**	**6.21**	**6.78**	**9.92**	**3.24**	**R 5.61**	**R 7.26**	**0.43**	**—**	**R 5.91**	**0.91**	**4.16**	**R 6.05**
1981	—	1.30	1.30	4.90	7.86	7.56	8.26	11.03	5.09	R 7.46	R 8.66	0.48	—	R 6.95	1.00	5.31	R 7.15
1982	—	1.63	1.63	5.83	8.13	7.37	8.45	10.52	5.23	R 6.14	R 8.54	0.54	—	R 7.02	1.07	7.35	R 7.80
1983	—	1.74	1.74	5.68	7.87	6.61	9.24	9.09	5.16	R 5.87	R 7.99	0.58	1.12	R 6.51	1.26	8.26	R 7.72
1984	—	1.82	1.82	5.59	7.73	6.32	8.28	9.25	4.75	R 5.99	R 7.74	0.67	1.28	R 6.29	1.26	9.06	R 7.77
1985	**—**	**1.74**	**1.74**	**5.23**	**7.66**	**6.03**	**R 9.56**	**9.31**	**4.53**	**R 5.96**	**R 7.61**	**0.71**	**0.79**	**5.90**	**1.17**	**9.18**	**7.65**
1986	—	1.78	1.78	4.53	5.84	4.01	R 9.67	7.29	2.55	R 5.01	R 5.64	0.70	0.32	4.70	1.06	9.41	R 6.42
1987	—	1.73	1.73	3.81	6.27	4.02	R 9.35	7.36	2.59	R 4.73	R 5.84	0.70	0.95	R 4.77	1.28	9.80	R 6.54
1988	—	1.62	1.62	3.96	6.24	3.79	R 9.41	7.40	2.17	R 4.82	R 5.63	0.49	0.87	R 4.60	1.13	10.13	R 6.56
1989	—	1.62	1.62	4.02	6.95	4.50	R 9.78	8.03	2.19	R 4.74	R 6.22	0.48	0.79	R 5.02	1.31	10.34	R 6.97
1990	**—**	**1.65**	**1.65**	**3.60**	**7.81**	**5.68**	**R 10.53**	**9.45**	**2.70**	**R 4.87**	**R 7.22**	**0.47**	**d R 2.17**	**d R 5.60**	**1.09**	**10.03**	**d R 7.31**
1991	—	1.65	1.65	3.55	7.78	4.76	R 11.08	9.14	5.18	R 4.92	R 7.26	0.45	R 2.23	R 5.67	1.16	9.96	R 7.28
1992	—	1.45	1.45	R 3.75	7.75	4.56	R 10.91	9.47	1.85	R 4.75	R 6.51	0.38	R 2.18	R 5.12	1.07	R 10.12	R 6.89
1993	—	1.45	1.45	3.97	8.15	4.54	R 10.55	9.16	2.00	R 4.40	R 6.78	0.46	R 2.09	R 5.17	1.04	10.77	R 7.19
1994	—	1.46	1.46	3.97	7.93	4.09	R 10.75	9.66	2.03	R 4.50	R 6.94	0.47	R 2.07	R 5.28	1.04	11.85	R 7.46
1995	**—**	**1.59**	**1.59**	**3.92**	**7.96**	**4.20**	**10.59**	**9.98**	**2.15**	**4.60**	**7.04**	**0.42**	**2.14**	**5.49**	**1.05**	**12.10**	**7.55**
	Expenditures in Million Nominal Dollars																
1970	**—**	**3.2**	**3.2**	**97.2**	**123.0**	**43.3**	**15.3**	**553.3**	**17.9**	**R 43.9**	**R 796.7**	**5.2**	**(s)**	**R 902.4**	**-5.2**	**316.8**	**R 1,213.9**
1971	—	3.7	3.7	107.8	133.6	50.1	15.5	566.7	27.8	R 42.5	R 836.3	4.9	—	R 952.6	-4.9	334.9	R 1,282.6
1972	—	7.9	7.9	124.2	139.4	45.5	12.0	575.0	33.0	R 48.4	R 853.4	5.6	—	R 991.0	-11.7	409.2	R 1,388.6
1973	—	26.1	26.1	151.0	171.9	59.7	14.9	657.3	40.3	R 52.5	R 996.6	9.4	—	R 1,183.2	-35.2	428.6	R 1,576.6
1974	—	23.2	23.2	180.5	226.3	107.9	13.7	896.8	69.7	R 79.4	R 1,393.8	9.0	—	R 1,606.5	-26.8	465.6	R 2,045.3
1975	**—**	**46.9**	**46.9**	**242.3**	**248.4**	**160.7**	**11.5**	**994.2**	**82.8**	**R 91.9**	**R 1,589.4**	**8.7**	**—**	**R 1,887.3**	**-46.5**	**523.9**	**R 2,364.6**
1976	—	67.7	67.7	273.1	303.6	169.3	10.0	1,097.2	64.7	R 101.7	R 1,746.5	6.6	—	R 2,093.9	-57.3	562.3	R 2,598.9
1977	—	82.7	82.7	310.7	361.6	177.4	15.7	1,235.2	89.7	R 109.1	R 1,988.7	12.8	—	R 2,395.0	-76.4	593.8	R 2,912.3
1978	—	77.4	77.4	309.1	395.5	184.0	19.6	1,344.7	121.7	R 121.6	R 2,187.1	13.7	—	R 2,587.4	-67.4	665.2	R 3,185.1
1979	—	98.8	98.8	453.5	582.4	270.3	29.0	1,720.9	179.1	R 145.4	R 2,927.2	13.3	—	R 3,492.9	-98.2	765.7	R 4,160.4
1980	**—**	**104.2**	**104.2**	**530.5**	**715.7**	**419.5**	**33.4**	**2,222.4**	**327.7**	**R 183.1**	**R 3,901.9**	**9.6**	**—**	**R 4,546.1**	**-95.7**	**953.4**	**R 5,403.8**
1981	—	118.0	118.0	574.1	806.0	512.4	43.2	2,493.2	480.8	R 230.0	R 4,565.7	10.8	—	R 5,268.6	-103.3	1,428.1	R 6,593.3
1982	—	120.9	120.9	617.7	859.3	529.9	47.6	2,386.7	404.2	R 169.7	R 4,397.5	21.8	—	R 5,157.9	-110.1	1,846.7	R 6,894.5
1983	—	139.9	139.9	582.3	744.9	476.8	51.8	2,136.2	132.2	R 236.8	R 3,778.7	22.1	0.6	R 4,523.6	-136.4	2,093.3	R 6,480.4
1984	—	150.1	150.1	679.9	815.0	555.6	55.8	2,242.1	275.3	R 246.9	R 4,190.7	38.7	1.7	R 5,061.1	-167.1	2,341.5	R 7,235.5
1985	**—**	**163.4**	**163.4**	**686.4**	**908.1**	**522.2**	**R 72.7**	**2,151.5**	**314.2**	**R 226.9**	**R 4,195.7**	**61.4**	**2.3**	**R 5,109.2**	**-203.6**	**2,331.7**	**R 7,237.2**
1986	—	112.7	112.7	510.2	787.4	385.1	R 70.9	1,798.4	236.4	R 179.8	R 3,457.9	63.7	0.6	R 4,145.2	-155.9	2,312.1	R 6,301.4
1987	—	165.3	165.3	476.0	772.4	421.2	R 95.7	1,977.9	213.1	R 172.0	R 3,652.4	41.8	3.4	R 4,339.0	-194.0	2,427.3	R 6,572.2
1988	—	160.9	160.9	551.3	763.9	440.3	R 78.4	1,974.4	210.7	R 165.0	R 3,632.6	31.6	3.4	R 4,379.8	-182.6	2,800.5	R 6,997.7
1989	—	157.5	157.5	627.7	850.7	522.5	R 98.0	2,268.1	208.5	R 179.7	R 4,127.6	31.7	3.0	R 4,947.6	-221.5	2,983.8	R 7,709.9
1990	**—**	**141.3**	**141.3**	**554.3**	**990.2**	**716.0**	**R 74.7**	**2,639.3**	**269.6**	**R 166.7**	**R 4,856.5**	**29.1**	**d R 78.9**	**d R 5,660.0**	**-157.2**	**R 3,033.6**	**d R 8,536.5**
1991	—	147.0	147.0	590.0	903.4	572.7	R 81.8	2,604.1	552.2	R 216.3	R 4,930.5	20.4	R 83.3	R 5,771.1	-152.5	R 3,069.8	R 8,688.4
1992	—	153.6	153.6	R 618.3	831.7	619.4	R 77.5	2,747.7	269.4	R 214.7	R 4,760.4	23.2	R 86.7	R 5,642.2	-182.5	R 3,014.3	R 8,474.0
1993	—	141.8	141.8	771.1	732.3	570.3	R 74.0	2,760.6	196.9	R 219.8	R 4,553.8	35.2	R 81.0	R 5,582.9	-184.5	R 3,248.3	R 8,646.6
1994	—	156.2	156.2	R 821.6	867.7	497.6	R 82.0	2,915.6	R 197.2	R 245.2	R 4,805.2	33.8	R 80.3	R 5,897.0	-187.4	R 3,445.5	R 9,155.2
1995	**—**	**110.7**	**110.7**	**835.3**	**872.1**	**547.6**	**93.5**	**3,084.0**	**235.4**	**248.2**	**5,080.7**	**30.8**	**86.5**	**6,143.9**	**-154.2**	**3,568.6**	**9,558.4**

[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.

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 294. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Washington

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**0.95**	**1.33**	**1.40**	**2.47**	**3.05**	**1.57**	**—**	**1.47**	**3.12**	**2.12**
1971	1.05	1.36	1.48	2.64	3.07	1.65	—	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	3.36	2.46
1974	1.39	1.69	2.63	3.47	4.06	2.78	—	2.20	3.58	2.87
1975	**1.14**	**2.18**	**2.80**	**3.61**	**5.73**	**2.97**	**—**	**2.54**	**3.94**	**3.23**
1976	1.90	2.59	3.11	4.03	4.17	3.20	—	2.89	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	6.21	3.71	—	3.52	4.47	4.03
1979	4.00	3.77	5.03	6.49	7.53	5.23	—	4.45	4.79	4.64
1980	**4.26**	**5.05**	**7.27**	**9.80**	**8.12**	**7.40**	**—**	**5.99**	**5.56**	**5.73**
1981	4.56	5.73	8.40	11.52	10.59	9.05	—	7.17	6.73	6.88
1982	4.81	6.52	8.48	11.43	9.61	8.66	—	7.35	8.19	7.89
1983	3.75	6.59	8.37	10.62	10.32	8.70	—	7.32	10.46	9.40
1984	3.76	6.54	7.88	10.07	10.73	8.17	—	7.08	10.79	9.44
1985	**3.67**	**6.35**	**7.76**	**9.92**	**8.46**	**7.88**	**—**	**6.82**	**11.14**	**9.53**
1986	3.79	5.76	5.95	7.61	9.77	6.28	—	5.93	11.45	9.45
1987	3.76	5.25	6.10	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	3.66	5.32	6.71	8.58	13.86	7.61	—	6.02	12.69	10.19
1990	**3.77**	**4.87**	**7.90**	**10.10**	**12.32**	**8.45**	**[d] 4.75**	**[d R] 5.88**	**12.88**	**[d R] 9.34**
1991	5.21	4.54	7.80	9.97	12.62	8.70	4.75	[R] 5.57	12.79	[R] 9.12
1992	3.76	4.84	7.24	9.25	12.21	8.40	4.75	[R] 5.55	13.07	[R] 9.27
1993	3.77	5.05	7.67	9.80	11.37	8.70	4.75	[R] 5.60	[R] 13.48	[R] 9.61
1994	3.74	5.48	7.30	9.32	[R] 11.01	[R] 8.36	4.75	[R] 5.87	[R] 14.57	[R] 10.23
1995	**3.77**	**5.67**	**7.39**	**9.44**	**10.83**	**8.60**	**4.75**	**6.07**	**14.55**	**10.25**
	Expenditures in Million Nominal Dollars									
1970	**0.3**	**44.8**	**57.4**	**1.6**	**13.2**	**72.2**	**—**	**117.3**	**163.5**	**280.8**
1971	0.4	48.7	60.1	2.2	13.4	75.6	—	124.7	177.6	302.3
1972	0.3	56.7	57.7	1.6	10.2	69.5	—	126.4	209.8	336.2
1973	0.2	56.6	62.2	1.3	13.1	76.7	—	133.4	220.5	353.9
1974	0.1	62.9	75.0	4.5	10.4	89.9	—	152.9	237.1	390.1
1975	**0.2**	**78.1**	**78.3**	**4.2**	**8.6**	**91.1**	**—**	**169.4**	**258.0**	**427.3**
1976	0.3	87.2	89.8	6.2	6.4	102.4	—	189.9	277.6	467.5
1977	1.4	95.4	106.4	8.2	10.4	125.1	—	221.9	305.9	527.8
1978	3.5	95.5	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	—	296.0	392.3	688.3
1980	**5.5**	**158.0**	**144.9**	**3.6**	**18.7**	**167.2**	**—**	**330.6**	**463.8**	**794.5**
1981	4.4	161.7	146.8	34.9	26.2	208.0	—	374.1	653.9	1,027.9
1982	6.5	200.2	160.4	4.7	24.0	189.1	—	395.8	814.7	1,210.5
1983	6.6	178.8	131.3	2.7	30.5	164.5	—	349.8	973.4	1,323.2
1984	6.3	200.0	139.7	4.2	18.6	162.5	—	368.8	983.8	1,352.5
1985	**6.5**	**217.8**	**140.0**	**4.8**	**16.8**	**161.7**	**—**	**386.0**	**1,061.8**	**1,447.8**
1986	2.6	179.1	106.4	2.2	15.2	123.8	—	305.5	1,035.3	1,340.9
1987	1.5	161.5	107.7	1.8	25.0	134.5	—	297.6	1,072.8	1,370.4
1988	3.0	192.4	106.2	2.6	20.0	128.8	—	324.2	1,156.0	1,480.2
1989	2.5	210.6	107.3	2.6	31.0	140.9	—	354.1	1,241.0	1,595.1
1990	**1.9**	**202.5**	**138.0**	**2.8**	**29.3**	**170.1**	**[d R] 37.9**	**[d R] 412.5**	**[R] 1,265.9**	**[d R] 1,678.4**
1991	3.3	216.3	112.8	2.6	40.7	156.1	[R] 40.0	[R] 415.6	[R] 1,303.9	[R] 1,719.5
1992	2.7	215.2	77.1	1.5	38.9	117.5	[R] 42.1	[R] 377.5	[R] 1,267.7	[R] 1,645.2
1993	3.4	278.5	67.8	2.4	37.8	108.0	[R] 35.8	[R] 425.7	[R] 1,422.2	[R] 1,847.9
1994	2.5	302.9	64.7	3.5	[R] 37.8	[R] 105.9	[R] 35.1	[R] 446.5	[R] 1,475.5	[R] 1,922.0
1995	**2.3**	**310.8**	**63.6**	**4.6**	**48.5**	**116.7**	**39.0**	**468.8**	**1,497.0**	**1,965.8**

[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.
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, 1970-1995, Washington

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.52**	**1.05**	**1.21**	**0.84**	**1.19**	**2.92**	**0.33**	**1.21**	**1.12**	**3.21**	**1.90**
1971	0.54	1.07	1.28	0.86	1.26	2.93	0.52	1.30	1.16	3.25	1.95
1972	0.49	1.10	1.28	0.87	1.28	2.88	0.40	1.25	1.16	3.36	2.11
1973	0.57	1.19	1.51	1.16	1.38	3.14	0.72	1.50	1.29	3.41	2.15
1974	0.83	1.27	2.47	1.87	2.24	4.29	0.72	2.29	1.58	3.76	2.47
1975	**0.90**	**1.75**	**2.60**	**2.31**	**2.67**	**4.62**	**2.45**	**2.87**	**2.06**	**4.10**	**2.94**
1976	1.20	2.14	2.90	2.63	2.90	4.82	2.26	3.13	2.42	4.05	3.15
1977	1.28	2.56	3.12	3.13	3.54	5.18	2.35	3.29	2.73	4.60	3.56
1978	1.42	2.72	3.23	3.43	3.29	5.40	2.51	3.46	2.89	4.56	3.70
1979	1.74	3.31	4.73	4.74	4.37	7.22	2.71	4.94	3.66	4.92	4.25
1980	**2.28**	**4.59**	**6.90**	**7.04**	**5.60**	**9.92**	**3.61**	**6.76**	**5.03**	**5.67**	**5.35**
1981	2.57	5.09	7.98	7.63	6.17	11.03	6.50	7.89	5.75	7.08	6.52
1982	2.67	5.90	8.02	8.87	7.53	10.52	6.62	7.92	6.50	8.50	7.56
1983	2.34	5.83	6.56	6.86	8.04	9.09	5.97	6.86	5.99	8.98	7.61
1984	2.36	5.82	6.16	7.32	7.43	9.25	4.56	5.79	5.63	10.24	7.94
1985	**2.30**	**5.24**	**5.91**	**7.06**	**R 9.94**	**9.31**	**4.05**	**5.92**	**R 5.42**	**10.57**	**7.83**
1986	2.22	4.91	3.42	4.46	R 9.65	7.29	2.07	R 3.84	4.48	10.95	8.07
1987	2.36	4.36	4.22	5.22	R 9.07	7.36	2.58	R 4.77	4.48	10.92	8.03
1988	2.34	4.47	3.88	4.83	R 9.14	7.40	2.01	4.26	4.34	11.01	7.87
1989	2.38	4.54	4.74	5.46	R 8.61	8.03	2.33	R 5.22	R 4.68	11.47	8.43
1990	**2.45**	**4.02**	**5.45**	**6.29**	**R 9.62**	**9.45**	**2.84**	**R 5.92**	**4.49**	**11.63**	**8.56**
1991	2.73	3.94	5.12	6.13	R 9.89	9.14	2.30	R 5.55	R 4.25	R 11.78	8.56
1992	2.72	4.18	4.98	6.03	R 9.86	9.47	2.26	R 5.75	R 4.36	12.15	9.20
1993	2.63	4.37	5.19	6.39	R 9.81	9.16	2.08	R 5.70	R 4.45	R 12.76	9.44
1994	3.06	4.71	4.50	R 5.74	R 10.75	9.66	2.37	R 5.34	4.73	13.43	10.02
1995	**3.12**	**4.81**	**4.91**	**6.11**	**10.89**	**9.98**	**2.75**	**5.58**	**4.88**	**13.65**	**10.21**
	Expenditures in Million Nominal Dollars										
1970	**0.3**	**20.4**	**15.7**	**0.1**	**0.9**	**4.7**	**1.0**	**22.3**	**43.0**	**73.6**	**116.7**
1971	0.4	23.3	16.4	0.1	1.0	4.9	1.6	23.9	47.5	80.4	127.8
1972	0.2	27.0	15.7	0.1	0.7	4.8	1.5	22.9	50.1	110.8	160.9
1973	0.1	40.3	17.4	0.1	0.7	5.5	2.6	26.2	66.6	120.1	186.8
1974	0.2	44.2	22.2	0.3	1.0	8.3	2.4	34.3	78.7	129.0	207.7
1975	**0.2**	**58.2**	**23.0**	**0.3**	**0.7**	**9.1**	**5.5**	**38.6**	**97.0**	**145.3**	**242.3**
1976	0.3	70.6	26.5	0.5	0.8	10.2	3.5	41.5	112.4	153.0	265.4
1977	2.5	80.1	31.4	0.8	1.1	10.3	4.9	48.5	131.1	173.6	304.6
1978	3.7	72.2	31.8	0.9	1.1	11.9	5.2	51.0	126.8	187.7	314.5
1979	3.2	115.5	42.2	0.5	1.6	13.8	2.7	60.7	179.5	217.1	396.5
1980	**5.4**	**148.7**	**43.1**	**0.7**	**2.3**	**24.9**	**9.7**	**80.7**	**234.8**	**267.8**	**502.6**
1981	4.6	153.1	34.6	0.8	2.7	24.9	31.1	94.1	251.8	431.1	682.9
1982	6.7	189.8	93.0	0.9	3.3	26.1	38.3	161.6	358.1	526.0	884.1
1983	7.6	174.5	65.9	14.4	4.2	24.3	23.4	132.2	314.4	559.2	873.6
1984	7.3	196.9	70.0	10.7	2.3	13.8	45.0	141.7	345.9	629.1	975.0
1985	**7.6**	**193.3**	**147.1**	**8.2**	**R 3.5**	**17.4**	**19.0**	**R 195.4**	**R 396.2**	**683.8**	**R 1,080.0**
1986	2.8	161.7	48.3	1.3	R 2.6	11.8	1.8	R 65.9	R 230.4	702.9	R 933.3
1987	1.8	145.6	57.3	23.9	R 3.9	12.1	0.9	R 98.1	R 245.6	734.1	R 979.7
1988	3.9	168.3	59.7	23.8	R 3.1	10.8	2.8	R 100.3	R 272.5	777.7	R 1,050.1
1989	3.1	180.2	47.1	20.2	R 3.4	11.0	1.0	R 82.7	R 265.9	807.6	R 1,073.5
1990	**2.3**	**160.1**	**66.4**	**0.5**	**R 4.0**	**13.9**	**1.0**	**R 85.8**	**R 248.1**	**R 853.5**	**R 1,101.6**
1991	3.2	169.5	48.1	0.6	R 5.6	9.1	1.5	R 64.8	R 237.4	R 883.1	R 1,120.5
1992	3.6	163.3	23.6	0.4	R 5.5	6.5	0.8	R 36.9	R 203.8	R 934.0	R 1,137.8
1993	4.4	197.6	20.4	0.5	R 5.8	2.3	0.8	R 29.7	R 231.7	R 999.9	R 1,231.6
1994	3.8	210.6	18.9	0.5	R 6.5	2.5	0.7	R 29.1	R 243.5	R 1,071.3	R 1,314.8
1995	**3.6**	**212.8**	**26.7**	**0.5**	**8.6**	**3.1**	**1.9**	**40.8**	**257.2**	**1,114.1**	**1,371.3**

[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.
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, 1970-1995, Washington

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**—**	**0.52**	**0.52**	**0.38**	**0.66**	**0.73**	**0.84**	**1.19**	**5.08**	**2.92**	**0.33**	**[R] 0.84**	**[R] 0.71**	**—**	**0.55**	**0.97**	**[R] 0.68**
1971	—	0.54	0.54	0.42	0.79	0.75	0.86	1.26	5.27	2.93	0.54	[R] 0.91	[R] 0.78	—	[R] 0.61	0.99	[R] 0.72
1972	—	0.49	0.49	0.45	0.78	0.76	0.87	1.28	5.58	2.88	0.53	[R] 0.89	[R] 0.76	—	0.62	1.00	[R] 0.73
1973	—	0.57	0.57	0.51	0.77	1.01	1.16	1.38	5.33	3.14	0.72	[R] 0.96	[R] 0.94	—	[R] 0.72	1.04	[R] 0.81
1974	—	0.83	0.83	0.77	1.63	1.63	1.87	2.24	7.22	4.29	1.53	[R] 1.21	[R] 1.67	—	[R] 1.21	1.06	[R] 1.16
1975	**—**	**0.90**	**0.90**	**1.29**	**1.77**	**2.05**	**2.31**	**2.67**	**7.48**	**4.62**	**1.78**	**[R] 1.71**	**[R] 2.01**	**—**	**[R] 1.61**	**1.37**	**[R] 1.53**
1976	—	1.20	1.20	1.67	1.69	2.26	2.63	2.90	7.05	4.82	1.69	[R] 1.89	[R] 2.08	—	[R] 1.83	1.41	[R] 1.68
1977	—	1.28	1.28	2.03	1.76	2.74	3.13	3.54	6.97	5.18	1.80	[R] 2.12	[R] 2.28	—	[R] 2.11	1.35	1.86
1978	—	1.42	1.42	2.40	1.94	2.94	3.43	3.29	7.60	5.40	1.85	[R] 2.01	[R] 2.43	—	[R] 2.35	1.44	[R] 2.00
1979	—	1.74	1.74	2.80	2.25	4.19	4.74	4.37	10.21	7.22	2.32	[R] 2.65	[R] 3.35	—	[R] 2.98	1.56	[R] 2.44
1980	**—**	**2.28**	**2.28**	**4.09**	**3.70**	**6.06**	**7.04**	**5.60**	**14.36**	**9.92**	**3.36**	**[R] 4.03**	**[R] 4.57**	**—**	**[R] 4.29**	**2.26**	**[R] 3.49**
1981	—	2.57	2.57	4.40	4.71	6.73	7.63	6.17	18.00	11.03	4.05	[R] 4.36	[R] 5.27	—	[R] 4.81	3.10	[R] 4.10
1982	—	2.67	2.67	5.28	4.02	8.08	8.87	7.53	17.25	10.52	4.48	[R] 3.52	[R] 5.64	—	[R] 5.37	5.62	[R] 5.47
1983	—	2.34	2.34	5.04	4.00	6.64	6.86	8.04	16.98	9.09	4.48	[R] 3.22	[R] 5.43	—	[R] 5.14	5.71	[R] 5.40
1984	—	2.36	2.36	4.94	4.09	6.41	7.32	7.43	17.63	9.25	4.56	[R] 3.61	[R] 5.31	—	[R] 5.10	6.88	[R] 5.79
1985	**—**	**2.30**	**2.30**	**4.58**	**4.17**	**6.18**	**7.06**	**[R] 9.94**	**17.61**	**9.31**	**4.05**	**[R] 3.30**	**[R] 5.21**	**—**	**[R] 4.87**	**6.23**	**[R] 5.39**
1986	—	2.22	2.22	3.49	3.94	3.91	4.46	[R] 9.65	15.59	7.29	2.07	[R] 2.63	[R] 3.64	—	[R] 3.53	6.29	[R] 4.57
1987	—	2.36	2.36	2.78	3.21	4.58	5.22	[R] 9.07	[R] 13.58	7.36	2.58	[R] 2.70	[R] 4.01	—	[R] 3.47	6.71	[R] 4.67
1988	—	2.34	2.34	2.89	3.41	4.23	4.83	[R] 9.14	[R] 14.62	7.40	2.01	[R] 2.41	[R] 3.53	—	[R] 3.23	7.68	[R] 5.11
1989	—	2.38	2.38	2.84	3.29	4.78	5.46	[R] 8.61	14.48	8.03	2.33	[R] 2.67	[R] 4.47	—	[R] 3.62	7.77	[R] 5.52
1990	**—**	**2.45**	**2.45**	**2.64**	**3.18**	**5.51**	**6.29**	**[R] 9.62**	**14.60**	**9.45**	**2.84**	**[R] 2.82**	**[R] 4.74**	**[d] [R] 1.56**	**[d] [R] 3.33**	**7.00**	**[d] [R] 4.91**
1991	—	2.73	2.73	2.71	3.40	5.37	6.13	[R] 9.89	[R] 16.80	9.14	2.30	[R] 3.68	[R] 4.75	[R] 1.58	[R] 3.39	6.72	[R] 4.79
1992	—	2.72	2.72	[R] 2.92	2.85	5.28	6.03	[R] 9.86	[R] 18.32	9.47	2.26	[R] 3.60	[R] 4.58	1.53	[R] 3.37	6.56	[R] 4.68
1993	—	2.63	2.63	3.11	3.30	5.60	6.39	[R] 9.81	[R] 18.96	9.16	2.08	[R] 2.68	[R] 4.23	1.54	[R] 3.29	7.02	[R] 4.72
1994	—	3.06	3.06	2.83	3.31	5.03	5.74	[R] 10.79	[R] 19.11	9.66	2.37	[R] 2.82	[R] 4.22	1.54	[R] 3.17	8.18	[R] 4.89
1995	**—**	**3.12**	**3.12**	**2.64**	**3.34**	**5.35**	**6.11**	**10.23**	**19.40**	**9.98**	**2.75**	**3.01**	**4.43**	**1.54**	**3.11**	**8.67**	**5.00**
	Expenditures in Million Nominal Dollars																
1970	**—**	**2.7**	**2.7**	**32.0**	**10.2**	**19.6**	**0.5**	**1.1**	**8.2**	**8.4**	**13.1**	**[R] 7.2**	**[R] 68.2**	**—**	**[R] 102.9**	**79.7**	**[R] 182.6**
1971	—	2.9	2.9	35.9	12.3	20.8	0.4	1.0	4.5	7.8	22.7	[R] 8.6	[R] 78.0	—	[R] 116.8	77.0	[R] 193.7
1972	—	1.7	1.7	40.5	15.5	23.0	0.2	0.9	5.1	7.9	28.8	[R] 9.1	[R] 90.5	—	[R] 132.7	88.6	[R] 221.4
1973	—	2.2	2.2	54.1	17.0	29.5	0.1	0.9	6.0	7.7	31.0	[R] 10.5	[R] 102.8	—	[R] 159.2	88.0	[R] 247.2
1974	—	5.4	5.4	73.4	29.8	34.8	0.9	2.0	7.8	9.6	61.9	[R] 13.2	[R] 159.9	—	[R] 238.6	99.5	[R] 338.1
1975	**—**	**9.8**	**9.8**	**106.0**	**34.1**	**44.8**	**1.5**	**1.8**	**8.7**	**10.6**	**47.9**	**[R] 18.8**	**[R] 168.2**	**—**	**[R] 284.0**	**120.6**	**[R] 404.6**
1976	—	17.0	17.0	115.3	37.0	52.4	1.4	2.4	9.1	10.7	30.3	[R] 22.3	[R] 165.6	—	[R] 297.9	131.6	[R] 429.6
1977	—	15.9	15.9	135.3	35.5	72.1	3.9	3.5	8.5	9.8	50.4	[R] 25.1	[R] 208.9	—	[R] 360.1	114.3	[R] 474.4
1978	—	17.4	17.4	141.3	40.2	83.7	5.3	5.4	10.0	10.5	46.6	[R] 24.6	[R] 226.3	—	[R] 384.9	143.2	[R] 528.1
1979	—	21.7	21.7	202.7	47.7	123.1	2.9	9.9	14.0	10.9	25.5	[R] 31.9	[R] 265.9	—	[R] 490.2	156.3	[R] 646.5
1980	**—**	**16.2**	**16.2**	**220.5**	**50.3**	**150.7**	**1.5**	**10.5**	**17.6**	**14.5**	**113.3**	**[R] 49.6**	**[R] 408.0**	**—**	**[R] 644.7**	**221.7**	**[R] 866.4**
1981	—	19.7	19.7	257.5	56.2	163.8	8.4	9.6	21.1	14.5	155.2	[R] 39.4	[R] 468.3	—	[R] 745.5	343.0	[R] 1,088.6
1982	—	21.2	21.2	226.9	47.8	209.2	5.1	16.1	18.5	15.2	187.5	[R] 34.3	[R] 533.7	—	[R] 781.8	505.8	[R] 1,287.6
1983	—	13.0	13.0	228.8	61.2	148.2	46.2	11.8	19.0	10.1	50.9	[R] 35.4	[R] 382.9	—	[R] 624.8	560.5	[R] 1,185.2
1984	—	10.6	10.6	282.8	71.3	160.4	34.3	22.0	21.1	27.9	171.7	[R] 43.9	[R] 552.4	—	[R] 845.8	728.3	[R] 1,574.2
1985	**—**	**10.3**	**10.3**	**274.9**	**56.4**	**99.0**	**36.8**	**[R] 40.5**	**19.6**	**33.8**	**121.8**	**[R] 42.1**	**[R] 450.1**	**—**	**[R] 735.3**	**585.8**	**[R] 1,321.1**
1986	—	16.4	16.4	169.0	62.9	77.9	16.4	[R] 43.0	17.0	28.4	74.1	[R] 28.2	[R] 348.0	—	[R] 533.4	573.5	[R] 1,106.9
1987	—	13.9	13.9	168.6	48.3	97.2	0.4	[R] 58.7	[R] 16.7	28.4	79.2	[R] 29.0	[R] 357.9	—	[R] 540.4	620.0	[R] 1,160.4
1988	—	12.3	12.3	185.1	43.5	69.8	0.5	[R] 46.0	17.3	26.3	70.0	[R] 26.3	[R] 299.6	—	[R] 497.0	866.5	[R] 1,363.4
1989	—	11.8	11.8	193.8	57.1	102.1	0.2	[R] 55.8	17.6	29.4	19.5	[R] 30.3	[R] 312.0	—	[R] 517.6	934.8	[R] 1,452.3
1990	**—**	**12.7**	**12.7**	**190.8**	**52.4**	**142.2**	**0.4**	**[R] 31.1**	**18.3**	**32.5**	**24.7**	**[R] 32.1**	**[R] 333.6**	**[d] [R] 38.8**	**[d] [R] 576.0**	**913.7**	**[d] [R] 1,489.8**
1991	—	11.7	11.7	203.4	67.0	123.8	0.2	[R] 26.7	18.8	38.1	13.1	[R] 68.5	[R] 356.3	[R] 41.1	[R] 612.5	882.3	[R] 1,494.8
1992	—	9.2	9.2	[R] 221.5	57.2	103.9	0.2	[R] 25.7	[R] 20.9	40.1	9.7	[R] 69.9	[R] 327.7	[R] 41.7	[R] 600.1	[R] 812.1	[R] 1,412.2
1993	—	9.2	9.2	275.2	64.4	85.8	0.2	[R] 22.9	[R] 22.1	25.3	7.4	[R] 67.2	[R] 295.3	[R] 41.6	[R] 621.3	[R] 825.7	[R] 1,447.0
1994	—	11.9	11.9	[R] 295.2	77.6	83.1	0.3	[R] 26.5	[R] 23.2	27.0	8.8	[R] 69.6	[R] 316.1	[R] 42.0	[R] 665.2	[R] 898.2	[R] 1,563.3
1995	**—**	**13.2**	**13.2**	**281.8**	**78.8**	**84.4**	**0.7**	**29.8**	**23.2**	**29.1**	**8.8**	**73.1**	**327.8**	**45.4**	**668.2**	**957.0**	**1,625.3**

[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 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 297. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Washington

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.52**	**—**	**2.17**	**1.32**	**0.73**	**1.19**	**5.08**	**2.92**	**0.30**	**2.23**	**2.23**	**2.16**	**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	0.49	—	2.19	1.43	0.76	1.28	5.58	2.88	0.36	2.27	2.27	2.26	2.27
1973	0.57	—	2.36	1.61	0.91	1.38	5.33	3.14	0.64	2.45	2.45	2.55	2.45
1974	0.83	—	3.23	2.51	1.57	2.24	7.22	4.29	0.64	3.43	3.43	2.80	3.43
1975	**0.90**	**—**	**3.45**	**2.65**	**2.04**	**2.67**	**7.48**	**4.62**	**2.14**	**3.73**	**3.73**	**3.20**	**3.73**
1976	1.20	—	3.59	2.89	2.32	2.90	7.05	4.82	2.06	3.97	3.97	3.35	3.97
1977	1.28	—	3.97	3.12	2.62	3.54	6.97	5.18	2.07	4.32	4.32	4.15	4.32
1978	—	—	4.29	3.18	2.86	3.29	7.60	5.40	2.18	4.45	4.45	3.66	4.45
1979	—	—	5.73	4.69	3.79	4.37	10.21	7.22	2.40	5.65	5.65	3.88	5.65
1980	**—**	**—**	**9.02**	**6.72**	**6.21**	**5.60**	**14.36**	**9.92**	**3.15**	**7.86**	**7.86**	**4.26**	**7.86**
1981	—	—	10.84	8.18	7.56	6.17	18.00	11.03	5.73	9.41	9.41	5.05	9.41
1982	—	—	10.92	8.06	7.37	7.53	17.25	10.52	6.02	9.29	9.29	5.57	9.29
1983	—	—	10.44	8.57	6.61	8.04	16.98	9.09	5.61	8.50	8.50	6.13	8.50
1984	—	—	10.27	8.67	6.32	7.43	17.63	9.25	5.61	8.48	8.48	7.12	8.48
1985	**—**	**—**	**9.99**	**8.77**	**6.03**	**[R] 9.94**	**17.61**	**9.31**	**5.02**	**8.24**	**8.24**	**8.28**	**8.24**
1986	—	—	8.41	6.71	4.01	[R] 9.65	15.59	7.29	2.86	6.07	6.07	8.39	6.07
1987	—	—	7.55	7.22	4.02	[R] 9.07	[R] 13.58	7.36	2.60	[R] 6.19	[R] 6.19	7.63	[R] 6.19
1988	—	—	7.41	7.24	3.79	[R] 9.14	[R] 14.62	7.40	2.26	[R] 6.01	[R] 6.01	8.49	[R] 6.01
1989	—	—	8.28	7.92	4.50	[R] 8.61	14.48	8.03	2.18	6.42	6.42	9.19	6.42
1990	**—**	**3.93**	**9.32**	**9.04**	**5.68**	**[R] 9.62**	**14.60**	**9.45**	**2.69**	**7.51**	**7.51**	**[R] 9.18**	**7.51**
1991	—	3.94	8.71	8.94	4.76	[R] 9.89	[R] 16.80	9.14	5.36	7.58	7.58	[R] 9.40	7.58
1992	—	4.07	8.54	8.68	4.56	[R] 9.86	[R] 18.32	9.47	1.84	[R] 6.69	[R] 6.69	[R] 9.79	[R] 6.69
1993	—	4.26	8.24	9.06	4.54	[R] 9.81	[R] 18.96	9.16	2.00	7.05	7.05	[R] 10.35	7.05
1994	—	4.12	7.96	8.79	4.09	[R] 9.88	[R] 19.11	9.66	2.01	7.27	7.27	[R] 11.23	7.27
1995	**—**	**5.42**	**8.36**	**8.75**	**4.20**	**10.12**	**19.40**	**9.98**	**2.13**	**7.34**	**7.34**	**10.98**	**7.34**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**3.8**	**30.3**	**43.3**	**0.2**	**12.3**	**540.2**	**3.8**	**633.9**	**633.9**	**(s)**	**633.9**
1971	(s)	—	2.5	36.3	50.1	0.2	12.0	554.0	3.5	658.7	658.7	(s)	658.7
1972	(s)	—	3.4	42.9	45.5	0.2	13.6	562.3	2.2	670.1	670.1	(s)	670.1
1973	(s)	—	3.6	62.6	59.7	0.2	13.8	644.1	4.7	788.7	788.7	(s)	788.7
1974	(s)	—	5.1	94.3	107.9	0.3	17.9	878.9	5.1	1,109.4	1,109.4	(s)	1,109.4
1975	**(s)**	**—**	**4.8**	**102.2**	**160.7**	**0.4**	**19.4**	**974.5**	**28.3**	**1,290.3**	**1,290.3**	**(s)**	**1,290.3**
1976	(s)	—	4.9	134.8	169.3	0.5	20.3	1,076.3	30.2	1,436.4	1,436.4	(s)	1,436.5
1977	(s)	—	5.9	151.4	177.3	0.7	21.2	1,215.1	33.9	1,605.4	1,605.4	(s)	1,605.5
1978	—	—	6.8	170.6	183.8	1.1	24.8	1,322.3	69.3	1,778.8	1,778.8	(s)	1,778.8
1979	—	—	8.6	275.0	269.8	1.9	34.8	1,696.2	142.6	2,429.0	2,429.0	(s)	2,429.0
1980	**—**	**—**	**16.2**	**375.8**	**419.5**	**1.9**	**43.6**	**2,183.1**	**200.3**	**3,240.3**	**3,240.3**	**(s)**	**3,240.3**
1981	—	—	16.7	459.6	512.4	4.7	52.5	2,453.7	294.2	3,793.8	3,793.8	0.1	3,793.9
1982	—	—	12.6	395.7	529.9	4.2	45.8	2,345.5	178.4	3,512.0	3,512.0	0.2	3,512.3
1983	—	—	10.5	398.6	476.8	5.3	47.3	2,101.8	57.9	3,098.1	3,098.1	0.3	3,098.4
1984	—	—	9.1	444.4	555.6	12.9	52.3	2,200.5	58.6	3,333.5	3,333.5	0.3	3,333.8
1985	**—**	**—**	**10.2**	**521.4**	**522.2**	**[R] 11.8**	**48.7**	**2,100.2**	**173.4**	**[R] 3,388.0**	**[R] 3,388.0**	**0.4**	**[R] 3,388.4**
1986	—	—	9.7	554.4	385.1	[R] 10.0	42.2	1,758.2	160.5	[R] 2,919.9	[R] 2,919.9	0.3	[R] 2,920.3
1987	—	—	10.5	509.7	421.2	[R] 8.1	[R] 41.5	1,937.4	133.0	[R] 3,061.4	[R] 3,061.4	0.3	[R] 3,061.7
1988	—	—	8.0	527.9	440.3	[R] 9.2	43.1	1,937.2	137.9	[R] 3,103.6	[R] 3,103.6	0.3	[R] 3,103.9
1989	—	—	7.9	593.1	522.5	[R] 7.9	43.8	2,227.8	185.5	[R] 3,588.5	[R] 3,588.5	0.4	[R] 3,588.9
1990	**—**	**0.2**	**14.7**	**642.8**	**716.0**	**[R] 10.2**	**45.4**	**2,592.9**	**243.9**	**[R] 4,266.0**	**[R] 4,266.2**	**0.4**	**[R] 4,266.6**
1991	—	0.3	11.8	618.2	572.7	[R] 8.8	46.8	2,556.9	537.6	[R] 4,352.8	[R] 4,353.1	0.5	[R] 4,353.6
1992	—	0.4	12.5	626.7	619.4	[R] 7.4	[R] 52.0	2,701.1	258.9	[R] 4,277.9	[R] 4,278.3	0.6	[R] 4,278.9
1993	—	0.4	8.2	556.6	570.3	[R] 7.6	[R] 54.8	2,733.0	188.8	[R] 4,119.2	[R] 4,119.6	0.5	[R] 4,120.1
1994	—	0.7	12.8	700.6	497.6	[R] 11.2	[R] 57.7	2,886.2	187.6	[R] 4,353.7	[R] 4,354.4	0.6	[R] 4,354.9
1995	**—**	**0.6**	**9.7**	**697.0**	**547.6**	**6.6**	**57.6**	**3,051.8**	**224.7**	**4,594.9**	**4,595.5**	**0.5**	**4,596.0**

[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.

(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 298. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Washington

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**—**	**—**	**0.32**	**0.37**	**—**	**0.33**	**0.18**	**0.65**	**0.18**
1971	—	—	0.50	0.61	—	0.51	0.18	—	0.18
1972	0.17	—	0.36	0.43	—	0.36	0.18	—	0.18
1973	0.39	—	0.70	1.18	—	0.73	0.20	—	0.31
1974	0.37	—	0.71	2.01	—	0.81	0.21	—	0.29
1975	**0.57**	**—**	**2.50**	**2.41**	**—**	**2.49**	**0.24**	**—**	**0.46**
1976	0.75	—	2.34	2.56	—	2.35	0.25	—	0.61
1977	0.72	—	2.37	2.69	—	2.46	0.27	—	0.57
1978	0.77	2.31	2.58	3.00	—	2.70	0.30	—	0.59
1979	0.84	2.64	2.61	3.86	—	2.69	0.34	—	0.76
1980	**0.96**	**3.43**	**3.58**	**6.40**	**—**	**3.93**	**0.43**	**—**	**0.91**
1981	1.11	3.82	6.62	6.68	—	6.67	0.48	—	1.00
1982	1.39	5.62	6.77	7.78	—	7.76	0.54	—	1.07
1983	1.62	5.07	6.06	6.66	—	6.65	0.58	1.12	1.26
1984	1.73	4.92	—	6.04	—	6.04	0.67	1.28	1.26
1985	**1.65**	**4.54**	**—**	**5.72**	**—**	**5.72**	**0.71**	**0.79**	**1.17**
1986	1.69	2.81	3.16	2.76	—	2.79	0.70	0.32	1.06
1987	1.67	2.50	2.82	4.10	—	4.03	0.70	0.95	1.28
1988	1.55	3.05	2.66	4.03	—	3.98	0.49	0.87	1.13
1989	1.56	5.02	2.54	4.52	—	2.95	0.48	0.79	1.31
1990	**1.58**	**3.03**	**3.05**	**5.15**	**—**	**5.09**	**0.47**	**0.61**	**1.09**
1991	1.55	3.83	6.19	5.72	—	5.74	0.45	0.76	1.16
1992	1.37	3.16	2.18	4.66	—	4.47	0.38	0.78	1.07
1993	1.36	3.76	2.31	4.69	—	4.66	0.46	0.86	1.04
1994	1.37	4.71	—	4.72	—	4.72	0.47	0.77	1.04
1995	**1.44**	**4.38**	**—**	**4.85**	**—**	**4.85**	**0.42**	**0.78**	**1.05**
	Expenditures in Million Nominal Dollars								
1970	**—**	**—**	**(s)**	**(s)**	**—**	**(s)**	**5.2**	**(s)**	**5.2**
1971	—	—	(s)	(s)	—	(s)	4.9	—	4.9
1972	5.6	—	0.4	(s)	—	0.4	5.6	—	11.7
1973	23.6	—	2.0	0.2	—	2.2	9.4	—	35.2
1974	17.5	—	0.2	0.1	—	0.3	9.0	—	26.8
1975	**36.7**	**—**	**1.1**	**0.1**	**—**	**1.2**	**8.7**	**—**	**46.5**
1976	50.0	—	0.6	(s)	—	0.6	6.6	—	57.3
1977	62.9	—	0.5	0.2	—	0.7	12.8	—	76.4
1978	52.9	0.1	0.5	0.2	—	0.7	13.7	—	67.4
1979	70.0	5.7	8.3	0.9	—	9.2	13.3	—	98.2
1980	**77.1**	**3.3**	**4.5**	**1.1**	**—**	**5.7**	**9.6**	**—**	**95.7**
1981	89.2	1.9	0.2	1.3	—	1.5	10.8	—	103.3
1982	86.5	0.7	(s)	1.0	—	1.1	21.8	—	110.1
1983	112.7	0.2	(s)	0.9	—	0.9	22.1	0.6	136.4
1984	125.9	0.2	—	0.6	—	0.6	38.7	1.7	167.1
1985	**139.0**	**0.4**	**—**	**0.6**	**—**	**0.6**	**61.4**	**2.3**	**203.6**
1986	90.9	0.4	(s)	0.3	—	0.3	63.7	0.6	155.9
1987	148.1	0.2	(s)	0.4	—	0.4	41.8	3.4	194.0
1988	141.6	5.5	(s)	0.4	—	0.4	31.6	3.4	182.6
1989	140.0	43.2	2.4	1.1	—	3.5	31.7	3.0	221.5
1990	**124.4**	**0.6**	**(s)**	**0.9**	**—**	**0.9**	**29.1**	**2.1**	**157.2**
1991	128.9	0.6	(s)	0.5	—	0.5	20.4	2.2	152.5
1992	138.2	17.8	(s)	0.3	—	0.3	23.2	2.9	182.5
1993	124.8	19.3	(s)	1.7	—	1.7	35.2	3.5	184.5
1994	138.0	12.2	—	0.3	—	0.3	33.8	3.1	187.4
1995	**91.6**	**29.2**	**—**	**0.5**	**—**	**0.5**	**30.8**	**2.1**	**154.2**

[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 299. Energy Price and Expenditure Estimates by Source, 1970-1995, West Virginia

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	**0.40**	**0.28**	**0.31**	**0.62**	**1.40**	**0.73**	**1.67**	**2.86**	**0.58**	**[R] 1.10**	**[R] 1.80**	**—**	**0.65**	**0.68**	**0.26**	**3.96**	**1.13**
1971	0.47	0.33	0.36	0.67	1.58	0.76	1.68	3.02	0.69	[R] 1.20	[R] 1.97	—	—	0.75	0.32	4.39	1.28
1972	0.50	0.37	0.40	0.70	1.65	0.85	1.73	3.07	0.72	[R] 1.21	[R] 1.98	—	—	0.77	0.36	4.78	1.34
1973	0.56	0.38	0.41	0.75	2.01	0.97	2.14	3.14	0.67	[R] 1.31	[R] 2.14	—	—	0.80	0.37	4.96	1.46
1974	1.14	0.87	0.91	0.87	3.14	1.61	2.88	4.12	1.79	[R] 2.60	[R] 3.25	—	—	1.36	0.86	6.42	[R] 2.20
1975	**1.51**	**0.94**	**1.02**	**1.16**	**3.36**	**2.05**	**3.25**	**4.61**	**1.89**	**[R] 3.07**	**[R] 3.67**	**—**	**—**	**1.58**	**0.88**	**8.30**	**[R] 2.80**
1976	1.64	0.95	1.06	1.41	3.10	2.22	3.49	4.73	1.77	[R] 3.34	[R] 3.73	—	—	1.63	0.92	8.83	2.96
1977	1.69	1.06	1.15	2.18	3.45	2.58	4.08	5.05	2.07	[R] 3.61	[R] 4.00	—	—	1.90	1.04	8.78	[R] 3.39
1978	1.73	1.21	1.28	2.15	3.76	2.83	4.20	5.13	2.36	[R] 3.77	[R] 4.19	—	—	2.06	1.22	9.47	[R] 3.58
1979	1.78	1.28	1.34	2.61	4.89	3.97	4.82	7.08	2.41	[R] 5.04	[R] 5.57	—	—	2.50	1.29	9.44	[R] 4.40
1980	**1.86**	**1.41**	**1.46**	**3.18**	**7.24**	**6.46**	**6.16**	**9.96**	**3.33**	**[R] 7.46**	**[R] 8.12**	**—**	**—**	**3.16**	**1.43**	**10.58**	**[R] 5.79**
1981	1.96	1.61	1.64	3.71	8.70	7.64	6.77	11.08	4.68	[R] 9.36	[R] 9.65	—	—	3.56	1.65	12.05	[R] 6.84
1982	2.05	1.70	1.73	4.60	8.45	7.18	8.17	10.41	4.02	[R] 8.50	[R] 9.14	—	—	3.54	1.74	14.12	[R] 7.15
1983	1.58	1.69	1.68	5.37	8.01	7.15	8.42	9.77	4.05	8.00	8.63	—	—	3.46	1.72	14.32	7.29
1984	1.91	1.61	1.63	5.24	8.14	7.08	9.16	9.12	4.84	7.99	8.40	—	—	3.22	1.64	13.53	6.83
1985	**1.93**	**1.59**	**1.61**	**5.28**	**8.04**	**6.87**	**[R] 9.37**	**9.19**	**4.01**	**7.87**	**8.39**	**—**	**—**	**3.22**	**1.62**	**14.19**	**7.35**
1986	1.75	1.49	1.50	4.99	5.79	5.14	[R] 8.35	7.00	2.57	4.59	[R] 5.84	—	—	2.62	1.50	14.81	5.98
1987	1.72	1.41	1.43	4.48	6.08	4.72	[R] 8.71	7.34	2.81	[R] 5.29	[R] 6.36	—	—	2.65	1.43	14.77	[R] 6.12
1988	1.73	1.42	1.44	4.08	5.91	4.45	[R] 10.55	7.52	2.38	[R] 4.54	[R] 6.14	—	—	2.59	1.45	14.10	[R] 5.79
1989	1.75	1.41	1.43	4.08	6.61	4.99	[R] 8.20	8.52	2.65	[R] 5.30	[R] 6.88	—	—	2.74	1.43	14.04	[R] 6.10
1990	**1.80**	**1.45**	**1.47**	**4.40**	**7.77**	**6.41**	**[R] 11.23**	**9.96**	**2.68**	**[R] 6.27**	**[R] 8.03**	**—**	**[d R] 2.41**	**[d] 3.12**	**1.48**	**13.90**	**[d R] 6.68**
1991	1.72	1.50	1.51	4.59	7.21	5.58	[R] 11.62	9.92	1.92	5.85	[R] 8.04	—	2.42	[R] 3.12	1.53	[R] 14.24	[R] 6.92
1992	1.74	1.46	1.47	[R] 4.47	7.43	5.31	[R] 10.86	9.49	2.18	[R] 5.68	[R] 7.90	—	[R] 2.47	[R] 3.06	1.48	14.84	[R] 6.98
1993	1.68	1.41	1.43	4.43	7.22	4.19	[R] 10.64	9.61	2.41	5.37	[R] 7.80	—	[R] 2.48	3.03	1.43	15.34	[R] 6.96
1994	1.57	1.39	1.39	4.60	7.19	3.88	[R] 9.61	9.77	2.44	[R] 5.11	[R] 7.74	—	[R] 2.46	2.95	1.40	15.42	[R] 6.95
1995	**1.57**	**1.28**	**1.29**	**4.55**	**7.18**	**3.88**	**9.36**	**9.95**	**2.68**	**5.57**	**8.04**	**—**	**2.49**	**2.96**	**1.28**	**15.68**	**7.30**
	Expenditures in Million Nominal Dollars																
1970	**55.3**	**131.9**	**187.2**	**108.3**	**31.9**	**1.2**	**7.8**	**237.6**	**7.5**	**[R] 94.8**	**[R] 380.8**	**—**	**(s)**	**[R] 676.3**	**-89.9**	**204.3**	**[R] 790.7**
1971	55.8	167.0	222.7	113.7	42.9	1.0	8.4	260.6	7.9	[R] 96.3	[R] 417.0	—	—	[R] 753.5	-122.1	230.2	[R] 861.6
1972	67.7	216.8	284.5	129.5	53.9	0.9	9.8	272.5	7.7	[R] 109.0	[R] 453.9	—	—	[R] 867.9	-168.8	262.5	[R] 961.6
1973	81.7	252.6	334.4	126.9	70.8	1.0	12.9	299.8	4.2	[R] 127.2	[R] 516.0	—	—	[R] 977.3	-202.6	290.4	[R] 1,065.0
1974	161.4	607.0	768.5	144.8	101.9	1.8	19.0	396.4	15.5	[R] 259.4	[R] 794.0	—	—	[R] 1,707.3	-512.9	387.1	[R] 1,581.5
1975	**178.3**	**655.6**	**833.9**	**171.0**	**114.2**	**2.8**	**18.1**	**467.7**	**26.2**	**[R] 291.9**	**[R] 920.8**	**—**	**—**	**[R] 1,925.7**	**-531.0**	**477.3**	**[R] 1,872.0**
1976	231.5	691.5	923.1	197.4	110.0	3.5	18.8	510.1	48.2	[R] 253.6	[R] 944.3	—	—	[R] 2,064.7	-600.0	543.7	[R] 2,008.4
1977	202.6	768.8	971.4	289.2	165.4	4.3	22.8	563.0	58.2	[R] 322.4	[R] 1,136.2	—	—	[R] 2,396.7	-681.9	569.2	[R] 2,284.0
1978	193.6	815.0	1,008.6	297.3	163.5	4.5	21.4	572.6	57.1	[R] 367.6	[R] 1,186.6	—	—	[R] 2,492.5	-744.1	627.9	[R] 2,376.3
1979	181.4	932.4	1,113.8	345.3	284.6	7.2	55.3	762.5	40.1	[R] 562.9	[R] 1,712.7	—	—	[R] 3,171.8	-849.4	664.5	[R] 2,986.8
1980	**190.2**	**1,063.6**	**1,253.8**	**415.1**	**441.1**	**12.9**	**77.7**	**1,014.2**	**24.8**	**[R] 803.4**	**[R] 2,374.2**	**—**	**—**	**[R] 4,043.1**	**-997.7**	**748.8**	**[R] 3,794.1**
1981	172.9	1,263.7	1,436.6	497.1	474.5	14.5	77.9	1,094.4	21.2	[R] 941.0	[R] 2,623.7	—	—	[R] 4,557.4	-1,215.2	890.6	[R] 4,232.9
1982	137.1	1,261.2	1,398.4	523.4	374.8	12.0	77.8	1,037.1	28.2	[R] 654.3	[R] 2,184.2	—	—	[R] 4,106.0	-1,186.8	991.4	[R] 3,910.5
1983	78.2	1,311.4	1,389.7	549.8	469.3	11.1	79.9	958.7	23.0	571.1	2,112.9	—	—	4,052.4	-1,235.8	1,003.4	3,819.9
1984	102.3	1,362.7	1,465.1	545.2	496.4	9.5	12.8	888.3	35.2	527.6	1,969.9	—	—	3,980.1	-1,260.9	963.8	3,683.0
1985	**72.4**	**1,326.6**	**1,399.0**	**510.6**	**453.5**	**9.0**	**[R] 38.4**	**894.0**	**22.2**	**536.2**	**[R] 1,953.2**	**—**	**—**	**[R] 3,862.8**	**-1,261.8**	**1,000.4**	**[R] 3,601.4**
1986	89.0	1,226.2	1,315.2	472.4	257.7	6.3	[R] 34.6	686.3	15.5	374.1	[R] 1,374.4	—	—	[R] 3,162.1	-1,156.2	1,029.6	[R] 3,035.5
1987	81.0	1,160.8	1,241.9	444.9	318.4	5.6	[R] 38.0	743.9	8.1	[R] 414.3	[R] 1,528.3	—	—	[R] 3,215.0	-1,093.2	1,053.0	[R] 3,174.9
1988	94.3	1,225.2	1,319.5	434.9	311.6	6.2	[R] 45.9	781.3	8.3	[R] 385.8	[R] 1,539.1	—	—	[R] 3,293.5	-1,148.1	1,068.2	[R] 3,213.5
1989	91.5	1,234.7	1,326.2	475.4	387.6	10.6	[R] 44.3	871.5	14.9	[R] 440.1	[R] 1,768.9	—	—	[R] 3,570.5	-1,155.4	1,084.9	[R] 3,500.0
1990	**93.1**	**1,193.2**	**1,286.3**	**471.2**	**441.2**	**9.8**	**[R] 62.2**	**1,021.8**	**18.7**	**[R] 572.3**	**[R] 2,126.0**	**—**	**[d R] 9.8**	**[d R] 3,893.3**	**-1,108.0**	**[R] 1,088.7**	**[d R] 3,874.0**
1991	86.8	1,122.0	1,208.8	454.7	403.1	7.3	[R] 74.5	1,007.4	9.5	357.0	[R] 1,858.9	—	10.3	[R] 3,532.7	-1,056.7	[R] 1,134.3	[R] 3,610.3
1992	75.4	1,108.5	1,183.9	[R] 485.0	407.8	8.0	[R] 65.6	989.9	6.4	[R] 351.1	[R] 1,828.9	—	[R] 10.4	[R] 3,508.1	-1,043.6	[R] 1,192.9	[R] 3,657.4
1993	79.1	1,065.7	1,144.8	493.5	451.9	6.0	[R] 68.3	990.7	6.0	[R] 330.7	[R] 1,853.7	—	[R] 10.7	[R] 3,502.7	-994.2	1,265.7	[R] 3,774.1
1994	72.5	1,140.5	1,213.0	513.1	462.6	4.9	[R] 66.3	1,025.2	6.1	[R] 335.2	[R] 1,900.3	—	[R] 10.6	[R] 3,637.1	-1,064.2	[R] 1,289.7	[R] 3,862.6
1995	**75.2**	**1,037.4**	**1,112.6**	**538.0**	**470.4**	**3.8**	**63.4**	**1,092.0**	**2.4**	**346.0**	**1,978.0**	**—**	**11.5**	**3,640.1**	**-979.4**	**1,375.2**	**4,035.9**

[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.
(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 300. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, West Virginia

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**0.66**	**0.87**	**1.37**	**1.64**	**2.49**	**1.75**	**—**	**0.91**	**6.41**	**1.76**
1971	1.07	0.91	1.46	1.70	2.39	1.75	—	0.98	6.76	1.93
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	1.93	4.10	2.23	—	1.06	7.28	2.23
1974	1.46	1.07	2.54	2.95	3.92	2.94	—	1.24	8.75	2.74
1975	**1.22**	**1.40**	**2.69**	**3.17**	**4.97**	**3.27**	**—**	**1.57**	**10.47**	**3.51**
1976	1.22	1.60	2.90	3.43	4.68	3.30	—	1.77	11.32	3.93
1977	1.81	2.44	3.31	3.85	5.35	3.72	—	2.58	10.92	4.57
1978	1.52	2.53	3.33	4.11	5.60	3.94	—	2.63	11.36	4.79
1979	1.43	2.86	4.69	5.58	6.71	5.19	—	3.27	11.57	5.33
1980	**1.59**	**3.48**	**6.65**	**8.48**	**8.94**	**7.36**	**—**	**4.11**	**12.64**	**6.39**
1981	2.14	4.08	8.29	10.68	10.32	9.10	—	4.72	14.61	7.48
1982	2.22	4.97	7.88	10.66	9.72	8.74	—	5.43	16.72	8.74
1983	1.64	5.78	7.65	9.51	10.06	8.63	—	5.93	16.99	9.47
1984	1.71	5.81	7.73	9.19	10.39	8.40	—	5.89	16.38	9.29
1985	**1.66**	**5.99**	**7.42**	**8.82**	**9.61**	**8.27**	**—**	**6.20**	**17.38**	**9.94**
1986	1.37	5.90	5.65	6.72	7.27	6.26	—	5.85	17.84	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	6.99	—	5.29	17.39	9.50
1989	1.29	5.34	6.34	7.54	6.99	6.80	—	5.45	17.31	9.59
1990	**1.43**	**6.03**	**7.57**	**9.01**	**12.50**	**9.09**	**[d] 3.53**	**[d] 6.19**	**[R] 17.28**	**[d] 9.91**
1991	1.31	6.06	7.14	8.49	13.00	8.88	3.53	6.23	[R] 17.33	10.16
1992	1.15	5.92	6.60	7.85	11.46	8.30	3.53	6.04	18.08	10.17
1993	1.18	6.06	6.54	7.78	11.88	8.22	3.53	6.17	18.47	[R] 10.50
1994	1.19	6.26	6.18	7.35	[R] 14.00	[R] 8.48	3.53	[R] 6.39	[R] 18.65	[R] 10.71
1995	**1.10**	**6.64**	**6.23**	**7.41**	**13.41**	**8.37**	**3.53**	**6.65**	**19.05**	**11.18**
	Expenditures in Million Nominal Dollars									
1970	**1.1**	**51.7**	**2.0**	**2.5**	**2.5**	**7.0**	**—**	**59.7**	**75.6**	**135.3**
1971	2.2	52.2	3.1	3.0	2.6	8.7	—	63.1	85.9	149.0
1972	2.7	57.4	4.6	3.0	3.5	11.2	—	71.2	98.5	169.7
1973	2.0	54.2	5.0	2.7	4.9	12.6	—	68.8	110.6	179.5
1974	5.3	59.2	7.1	3.1	4.5	14.7	—	79.2	138.9	218.1
1975	**2.4**	**74.5**	**9.1**	**3.1**	**6.1**	**18.3**	**—**	**95.2**	**177.9**	**273.1**
1976	1.9	85.8	13.4	2.8	5.8	22.0	—	109.7	204.2	313.9
1977	3.5	131.4	18.1	3.8	7.0	28.8	—	163.8	216.8	380.6
1978	3.4	139.4	13.1	3.6	7.5	24.2	—	167.0	237.0	404.0
1979	3.6	140.3	35.6	21.0	10.3	66.9	—	210.8	246.6	457.4
1980	**2.1**	**173.6**	**45.3**	**19.6**	**13.0**	**77.9**	**—**	**253.6**	**284.9**	**538.5**
1981	3.8	199.8	43.1	16.7	14.8	74.5	—	278.1	334.2	612.3
1982	3.7	224.0	39.6	18.9	9.0	67.5	—	295.1	378.0	673.1
1983	3.4	239.9	22.0	13.8	11.0	46.8	—	290.1	391.6	681.7
1984	3.2	243.1	22.8	6.4	7.5	36.7	—	283.0	378.2	661.2
1985	**1.2**	**234.7**	**20.0**	**19.5**	**7.8**	**47.3**	**—**	**283.2**	**398.1**	**681.3**
1986	1.4	229.8	18.4	17.3	6.0	41.7	—	272.9	425.1	698.0
1987	1.5	213.1	21.4	13.4	6.0	40.7	—	255.3	442.0	697.3
1988	1.2	207.3	18.9	15.2	13.5	47.6	—	256.2	448.0	704.1
1989	1.7	213.5	23.8	14.8	10.2	48.8	—	264.0	451.0	715.0
1990	**2.2**	**210.6**	**25.3**	**10.7**	**18.9**	**54.9**	**[d] 5.9**	**[d] 273.7**	**[R] 446.8**	**[d R] 720.5**
1991	1.1	211.8	22.3	9.5	18.5	50.3	6.2	269.5	[R] 479.4	[R] 748.9
1992	0.9	222.7	17.8	10.9	18.9	47.6	6.5	277.7	502.0	[R] 779.7
1993	1.1	227.1	21.6	14.3	20.7	56.6	6.8	291.6	547.0	838.6
1994	0.9	234.4	21.0	12.7	[R] 24.8	[R] 58.5	6.7	[R] 300.5	[R] 551.3	[R] 851.7
1995	**0.6**	**249.4**	**17.4**	**12.1**	**20.2**	**49.7**	**7.4**	**307.1**	**595.8**	**903.0**

[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.

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 301. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, West Virginia

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.35**	**0.69**	**1.08**	**0.77**	**1.45**	**2.86**	**0.86**	**1.57**	**0.69**	**5.81**	**1.83**
1971	0.37	0.71	1.15	0.82	1.48	3.02	0.79	1.56	0.71	6.28	1.93
1972	0.43	0.72	1.16	0.82	1.46	3.07	0.87	1.49	0.73	6.64	1.97
1973	0.44	0.74	1.28	0.90	1.66	3.14	0.66	1.63	0.75	6.80	2.13
1974	0.93	0.87	2.20	2.17	2.66	4.12	1.74	2.62	0.97	8.23	2.59
1975	**1.33**	**1.18**	**2.37**	**2.46**	**2.76**	**4.61**	**1.82**	**2.77**	**1.29**	**10.00**	**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	2.98	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	5.13	2.75	3.42	2.08	11.67	4.74
1979	1.35	2.63	4.38	4.22	4.53	7.08	2.98	4.60	2.66	11.44	5.07
1980	**1.44**	**3.24**	**6.24**	**6.85**	**5.80**	**9.96**	**4.02**	**7.04**	**3.44**	**12.59**	**6.28**
1981	1.51	3.80	7.82	7.51	6.26	11.08	5.10	8.15	4.27	14.27	7.34
1982	1.58	4.72	7.40	7.49	8.00	10.41	4.80	8.17	4.71	16.07	8.64
1983	1.52	5.51	6.73	6.78	8.20	9.77	4.50	7.62	5.36	16.26	9.07
1984	1.49	5.51	6.69	7.53	7.83	9.12	4.84	7.43	5.34	15.83	8.95
1985	**1.43**	**5.64**	**6.25**	**7.19**	**[R] 9.31**	**9.19**	**4.01**	**[R] 7.21**	**[R] 5.80**	**16.64**	**9.83**
1986	1.33	5.47	3.96	4.98	[R] 8.63	7.00	2.57	[R] 4.89	5.02	16.95	9.56
1987	1.25	5.10	4.41	5.15	[R] 9.49	7.34	2.81	[R] 5.66	[R] 4.86	16.61	9.46
1988	1.23	4.81	4.19	4.85	[R] 10.36	7.52	2.38	[R] 5.12	[R] 4.66	16.04	8.62
1989	1.23	4.88	4.76	5.68	[R] 8.64	8.52	2.65	[R] 5.86	[R] 4.79	16.06	8.62
1990	**1.28**	**5.44**	**5.87**	**6.30**	**[R] 10.76**	**9.96**	**2.68**	**[R] 7.23**	**[R] 5.36**	**[R] 15.86**	**[R] 9.12**
1991	1.29	5.69	5.16	6.01	[R] 11.22	9.92	1.92	[R] 6.54	5.61	[R] 16.02	[R] 9.58
1992	1.28	5.15	4.90	5.73	[R] 10.64	9.49	2.18	[R] 6.50	5.14	[R] 16.67	[R] 9.38
1993	1.32	5.51	4.63	5.37	[R] 10.17	9.61	2.41	[R] 5.27	[R] 5.27	[R] 17.11	[R] 9.79
1994	1.31	5.55	4.48	[R] 5.10	[R] 9.41	9.77	2.44	[R] 5.19	[R] 5.33	[R] 17.27	[R] 9.89
1995	**1.35**	**5.74**	**4.43**	**4.98**	**9.67**	**9.95**	**—**	**5.23**	**5.55**	**17.35**	**10.21**
	Expenditures in Million Nominal Dollars										
1970	**1.0**	**15.3**	**0.6**	**0.1**	**0.3**	**0.8**	**(s)**	**1.8**	**18.1**	**44.4**	**62.5**
1971	1.5	16.9	0.9	0.1	0.3	0.9	(s)	2.2	20.6	51.2	71.8
1972	1.7	19.9	1.3	0.1	0.3	0.9	(s)	2.7	24.3	58.7	83.0
1973	1.8	19.7	1.4	0.1	0.4	1.0	(s)	2.8	24.3	65.3	89.6
1974	6.2	21.9	2.3	0.1	0.5	1.3	(s)	4.2	32.4	79.2	111.6
1975	**4.9**	**30.2**	**2.9**	**0.1**	**0.6**	**1.4**	**0.1**	**5.2**	**40.3**	**97.5**	**137.8**
1976	3.4	30.8	4.4	0.1	0.7	1.5	0.2	6.8	41.0	112.8	153.8
1977	4.5	44.1	5.9	0.2	0.8	1.6	0.3	8.8	57.4	121.2	178.6
1978	5.5	48.5	4.4	0.1	0.9	1.6	0.2	7.3	61.2	132.3	193.5
1979	6.4	60.1	12.2	0.8	1.2	2.3	0.2	16.7	83.2	135.0	218.2
1980	**3.5**	**73.4**	**9.5**	**1.4**	**1.5**	**5.7**	**0.1**	**18.3**	**95.2**	**157.1**	**252.4**
1981	4.9	87.7	32.4	0.7	1.6	7.3	0.1	42.0	134.7	198.7	333.4
1982	4.8	101.6	13.0	0.7	1.3	6.9	0.1	22.0	128.4	231.3	359.8
1983	5.8	107.5	20.9	2.4	1.6	13.5	(s)	38.3	151.5	237.9	389.4
1984	5.2	108.9	21.3	0.9	1.0	12.3	(s)	35.5	149.6	233.1	382.8
1985	**1.8**	**103.7**	**22.0**	**5.2**	**1.3**	**14.8**	**0.1**	**[R] 43.5**	**[R] 149.0**	**253.4**	**[R] 402.4**
1986	2.4	94.2	17.3	1.6	[R] 1.3	12.0	0.2	32.2	[R] 128.9	267.0	[R] 395.9
1987	2.9	92.0	11.6	1.7	[R] 1.7	12.4	0.1	[R] 27.5	[R] 122.4	269.6	[R] 392.0
1988	2.2	116.1	8.7	2.2	[R] 2.2	12.2	2.6	[R] 27.9	[R] 146.3	269.0	[R] 415.3
1989	3.0	122.3	13.7	2.4	[R] 2.2	13.8	1.5	[R] 33.7	[R] 159.0	275.0	[R] 434.0
1990	**3.7**	**124.7**	**15.1**	**1.6**	**[R] 2.9**	**17.2**	**1.1**	**[R] 37.9**	**[R] 166.4**	**[R] 275.1**	**[R] 441.5**
1991	2.0	128.6	15.5	2.2	[R] 2.8	13.7	0.6	[R] 34.8	[R] 165.4	[R] 290.5	[R] 455.9
1992	1.7	133.8	9.2	1.0	[R] 3.1	10.9	0.8	[R] 25.0	[R] 160.5	[R] 302.7	[R] 463.3
1993	2.1	143.1	11.8	1.1	[R] 3.1	1.0	0.3	[R] 17.3	[R] 162.5	[R] 325.3	[R] 487.8
1994	1.8	147.6	10.7	1.1	[R] 2.9	1.0	0.1	[R] 15.8	[R] 165.2	[R] 331.8	[R] 497.0
1995	**1.4**	**157.6**	**8.9**	**1.0**	**2.6**	**1.0**	**—**	**13.5**	**172.5**	**351.8**	**524.3**

[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.

(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 302. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, West Virginia

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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	**0.40**	**0.35**	**0.38**	**0.45**	**0.68**	**0.71**	**0.77**	**1.45**	**5.08**	**2.86**	**0.48**	[R] **0.89**	[R] **0.98**	**—**	**0.53**	**2.63**	[R] **0.67**
1971	0.47	0.37	0.42	0.51	0.74	0.75	0.82	1.48	5.27	3.02	0.64	[R] 0.95	[R] 1.07	—	0.59	2.96	0.75
1972	0.50	0.43	0.47	0.54	0.79	0.75	0.82	1.46	5.58	3.07	0.57	[R] 0.94	[R] 1.08	—	0.63	3.26	0.81
1973	0.56	0.44	0.51	0.61	0.84	0.82	0.90	1.66	5.33	3.14	0.69	[R] 1.11	[R] 1.22	—	0.70	3.39	0.89
1974	1.14	0.93	1.05	0.73	1.45	1.99	2.17	2.66	7.22	4.12	2.03	[R] 2.43	[R] 2.51	—	1.35	4.86	[R] 1.61
1975	**1.51**	**1.33**	**1.43**	**0.98**	**1.81**	**2.27**	**2.46**	**2.76**	**7.48**	**4.61**	**1.92**	[R] **2.95**	[R] **2.86**	**—**	[R] **1.77**	**6.56**	**2.11**
1976	1.64	1.17	1.47	1.24	1.84	2.40	2.60	3.14	7.05	4.73	1.77	[R] 3.24	[R] 2.87	—	1.82	6.83	[R] 2.21
1977	1.69	1.25	1.52	1.94	1.99	2.87	3.13	3.70	6.97	5.05	2.05	[R] 3.56	[R] 3.21	—	[R] 2.17	6.84	[R] 2.55
1978	1.73	1.33	1.58	1.82	2.21	3.02	3.31	3.70	7.60	5.13	2.09	[R] 3.71	[R] 3.44	—	[R] 2.27	7.59	[R] 2.72
1979	1.78	1.35	1.61	2.40	2.59	3.88	4.22	4.53	10.21	7.08	2.20	[R] 4.98	[R] 4.54	—	[R] 2.91	7.59	[R] 3.33
1980	**1.86**	**1.44**	**1.70**	**2.91**	**3.58**	**6.15**	**6.85**	**5.80**	**14.36**	**9.96**	**3.33**	[R] **7.34**	[R] **6.85**	**—**	[R] **3.92**	**8.58**	[R] **4.34**
1981	1.96	1.51	1.80	3.38	4.84	6.78	7.51	6.26	18.00	11.08	4.68	[R] 9.22	[R] 8.55	—	[R] 4.70	9.64	[R] 5.21
1982	2.05	1.58	1.84	4.19	4.07	6.79	7.49	8.00	17.25	10.41	4.01	[R] 8.28	[R] 7.79	—	[R] 4.48	11.51	[R] 5.25
1983	1.58	1.52	1.55	4.89	4.07	7.36	6.78	8.20	16.98	9.77	4.05	7.61	7.55	—	4.49	11.54	5.33
1984	1.91	1.49	1.67	4.55	4.49	7.03	7.53	7.83	17.63	9.12	4.84	7.50	7.40	—	4.06	10.55	4.82
1985	**1.93**	**1.43**	**1.64**	**4.39**	**4.91**	**6.72**	**7.19**	[R] **9.31**	**17.61**	**9.19**	**4.01**	**7.37**	[R] **7.36**	**—**	[R] **4.40**	**10.77**	[R] **5.24**
1986	1.75	1.33	1.53	3.85	4.19	4.66	4.98	[R] 8.63	15.59	7.00	2.57	3.95	[R] 4.41	—	3.05	11.26	3.95
1987	1.72	1.25	1.46	3.24	3.23	4.81	5.15	[R] 9.49	[R] 13.58	7.34	2.81	[R] 4.85	[R] 5.14	—	[R] 3.21	11.26	[R] 4.10
1988	1.73	1.23	1.46	2.66	3.35	4.53	4.85	[R] 10.36	[R] 14.62	7.52	2.38	[R] 4.00	[R] 4.48	—	[R] 2.81	10.57	[R] 3.68
1989	1.75	1.23	1.46	2.71	3.13	5.30	5.68	[R] 8.64	14.48	8.52	2.65	[R] 4.86	[R] 5.14	—	[R] 3.07	10.52	[R] 3.89
1990	**1.80**	**1.28**	**1.50**	**2.75**	**3.07**	**5.89**	**6.30**	[R] **10.76**	**14.60**	**9.96**	**2.68**	[R] **5.98**	[R] **6.05**	[d] **1.63**	[d R] **3.52**	**10.44**	[d R] **4.26**
1991	1.72	1.29	1.49	2.75	3.11	5.62	6.01	[R] 11.22	[R] 16.80	9.92	1.92	5.19	[R] 5.74	1.63	[R] 3.22	[R] 10.75	[R] 4.17
1992	1.74	1.28	1.48	[R] 2.86	2.35	5.35	5.73	[R] 10.64	[R] 18.32	9.49	2.18	4.94	5.57	1.63	[R] 3.19	[R] 11.26	[R] 4.26
1993	1.68	1.32	1.48	2.57	2.90	5.01	5.37	[R] 10.17	[R] 18.96	9.61	2.41	4.41	[R] 5.21	1.63	[R] 2.98	[R] 11.61	4.05
1994	1.57	1.31	1.42	2.75	2.86	4.76	5.10	[R] 8.01	[R] 19.11	9.77	2.44	4.18	[R] 4.88	1.63	[R] 2.89	[R] 11.67	[R] 3.97
1995	**1.57**	**1.35**	**1.46**	**2.45**	**3.36**	**4.65**	**4.98**	**8.12**	**19.40**	**9.95**	**2.68**	**4.62**	**5.26**	**1.63**	**3.03**	**11.82**	**4.20**
	Expenditures in Million Nominal Dollars																
1970	**55.3**	**42.6**	**97.9**	**41.2**	**3.9**	**4.5**	**0.2**	**5.0**	**15.4**	**1.7**	**4.8**	[R] **66.3**	[R] **101.7**	**—**	[R] **240.7**	**84.3**	[R] **325.0**
1971	55.8	43.4	99.1	44.4	4.9	4.9	0.2	5.4	17.4	1.5	5.7	[R] 63.0	[R] 103.0	—	[R] 246.6	93.2	[R] 339.8
1972	67.7	47.7	115.5	52.0	5.5	6.1	0.3	5.9	19.8	1.4	3.7	[R] 72.0	[R] 114.6	—	[R] 282.1	105.3	[R] 387.4
1973	81.7	48.5	130.3	52.9	5.1	6.5	0.2	7.6	18.2	1.4	2.1	[R] 93.1	[R] 134.1	—	[R] 317.3	114.4	[R] 431.7
1974	161.4	95.6	257.1	63.7	7.8	14.3	1.6	13.8	23.6	2.0	2.5	[R] 212.8	[R] 278.5	—	[R] 599.2	168.9	[R] 768.1
1975	**178.3**	**125.7**	**304.0**	**66.1**	**11.3**	**19.1**	**2.0**	**11.2**	**20.3**	**1.9**	**17.9**	[R] **243.2**	[R] **326.9**	**—**	[R] **697.1**	**201.9**	[R] **898.9**
1976	231.5	95.1	326.6	80.6	12.9	27.7	2.1	12.2	21.2	1.8	39.7	[R] 202.0	[R] 319.6	—	[R] 726.9	226.8	[R] 953.6
1977	202.6	91.2	293.8	113.6	11.7	54.5	1.2	14.8	17.8	2.1	46.0	[R] 275.9	[R] 424.1	—	[R] 831.4	231.2	[R] 1,062.6
1978	193.6	88.1	281.7	109.4	16.9	42.9	1.2	12.7	20.8	1.7	30.8	[R] 311.2	[R] 438.3	—	[R] 829.4	258.6	[R] 1,088.1
1979	181.4	87.5	268.9	144.8	20.0	90.2	2.5	43.5	29.2	2.4	25.5	[R] 470.3	[R] 683.6	—	[R] 1,097.3	282.9	[R] 1,380.2
1980	**190.2**	**85.6**	**275.7**	**167.9**	**17.0**	**125.3**	**2.0**	**62.9**	**36.6**	**4.3**	**24.7**	[R] **702.0**	[R] **974.8**	**—**	[R] **1,418.4**	**306.7**	[R] **1,725.1**
1981	172.9	76.7	249.6	208.7	23.8	96.8	3.0	60.8	44.0	4.2	21.2	[R] 824.9	[R] 1,078.8	—	[R] 1,537.1	357.7	[R] 1,894.8
1982	137.1	87.9	225.0	197.3	17.9	86.8	4.9	67.0	38.5	3.5	28.1	[R] 549.4	[R] 796.1	—	[R] 1,218.4	382.1	[R] 1,600.4
1983	78.2	82.2	160.4	201.9	11.0	89.8	3.7	66.5	39.7	2.9	23.0	474.6	711.3	—	1,073.5	373.9	1,447.4
1984	102.3	107.9	210.3	192.6	14.2	86.8	1.6	3.7	43.9	5.6	35.1	432.4	623.4	—	1,026.2	352.4	1,378.7
1985	**72.4**	**75.2**	**147.6**	**171.6**	**14.0**	**72.8**	**7.2**	[R] **28.5**	**40.9**	**11.1**	**22.1**	**423.1**	[R] **619.6**	**—**	[R] **938.9**	**348.9**	[R] **1,287.8**
1986	89.0	75.7	164.7	147.3	15.7	50.0	2.2	[R] 26.7	35.4	8.4	15.4	278.8	[R] 432.5	—	[R] 744.4	337.5	[R] 1,081.9
1987	81.0	73.9	155.0	138.8	11.5	70.6	3.4	[R] 29.8	[R] 34.8	9.1	8.1	[R] 327.4	[R] 494.7	—	[R] 788.5	341.4	[R] 1,129.9
1988	94.3	82.1	176.4	111.2	19.5	68.1	2.9	[R] 29.3	[R] 36.2	9.3	5.7	[R] 286.9	[R] 457.8	—	[R] 745.4	351.2	[R] 1,096.6
1989	91.5	85.7	177.3	139.0	16.9	79.6	2.8	[R] 31.2	36.7	11.1	13.4	[R] 343.0	534.7	—	851.0	358.9	1,209.9
1990	**93.1**	**92.2**	**185.3**	**135.2**	**14.8**	**91.0**	**1.4**	[R] **39.7**	**38.1**	**13.0**	**17.6**	[R] **481.2**	[R] **696.8**	[d R] **3.9**	[d R] **1,021.2**	**366.8**	[d R] **1,387.9**
1991	86.8	73.4	160.1	113.8	10.9	83.6	1.3	[R] 52.5	39.2	13.5	8.9	269.0	[R] 479.0	4.0	[R] 757.0	[R] 364.5	[R] 1,121.4
1992	75.4	71.6	147.0	[R] 127.8	8.6	67.4	1.9	[R] 42.8	[R] 43.6	12.4	5.7	259.1	[R] 441.6	[R] 3.8	[R] 720.2	[R] 388.1	[R] 1,108.3
1993	79.1	78.4	157.6	122.7	8.2	79.1	2.0	[R] 43.7	[R] 46.0	8.1	5.8	230.8	[R] 423.6	[R] 3.9	[R] 707.8	[R] 393.3	[R] 1,101.1
1994	72.5	85.4	157.9	130.1	13.1	81.5	2.0	[R] 37.8	[R] 48.4	9.3	6.0	228.0	[R] 426.3	[R] 4.0	[R] 718.2	[R] 406.7	[R] 1,124.9
1995	**75.2**	**66.1**	**141.3**	**129.5**	**14.3**	**84.4**	**2.0**	**40.3**	**48.3**	**10.1**	**2.4**	**238.4**	**440.3**	**4.1**	**715.2**	**427.6**	**1,142.8**

[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 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, 1970-1995, West Virginia

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.35**	**—**	**2.17**	**1.72**	**0.73**	**1.45**	**5.08**	**2.86**	**0.85**	**2.68**	**2.67**	**—**	**2.67**
1971	0.37	—	2.21	1.91	0.76	1.48	5.27	3.02	—	2.83	2.83	—	2.83
1972	0.43	—	2.19	2.07	0.76	1.46	5.58	3.07	—	2.89	2.89	—	2.89
1973	0.44	—	2.36	2.50	0.90	1.66	5.33	3.14	—	3.02	3.01	—	3.01
1974	0.93	—	3.23	3.65	1.56	2.66	7.22	4.12	—	4.04	4.04	—	4.04
1975	**1.33**	**—**	**3.45**	**3.97**	**2.03**	**2.76**	**7.48**	**4.61**	**—**	**4.50**	**4.50**	**—**	**4.50**
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	7.60	5.13	—	4.99	4.99	—	4.99
1979	—	—	5.73	5.96	3.95	4.53	10.21	7.08	2.91	6.87	6.87	—	6.87
1980	**—**	**—**	**9.02**	**8.36**	**6.46**	**5.80**	**14.36**	**9.96**	**—**	**9.61**	**9.61**	**—**	**9.61**
1981	—	—	10.84	10.18	7.61	6.26	18.00	11.08	—	10.92	10.92	—	10.92
1982	—	—	10.92	9.84	7.18	8.00	17.25	10.41	—	10.34	10.34	—	10.34
1983	—	—	10.44	8.46	7.15	8.20	16.98	9.77	—	9.45	9.45	—	9.45
1984	—	—	10.27	8.72	7.08	7.83	17.63	9.12	—	9.08	9.08	—	9.08
1985	**—**	**—**	**9.99**	**8.76**	**6.87**	**[R] 9.31**	**17.61**	**9.19**	**4.29**	**9.14**	**9.14**	**—**	**9.14**
1986	—	—	8.41	6.85	5.14	[R] 8.63	15.59	7.00	—	7.05	7.05	—	7.05
1987	—	—	7.55	7.04	4.72	[R] 9.49	[R] 13.58	7.34	—	[R] 7.32	[R] 7.32	—	[R] 7.32
1988	—	—	7.41	6.86	4.45	[R] 10.36	[R] 14.62	7.52	—	7.42	7.42	—	7.42
1989	—	—	8.28	7.50	4.99	[R] 8.64	14.48	8.52	—	8.27	8.27	—	8.27
1990	**—**	**—**	**9.32**	**8.95**	**6.41**	**[R] 10.76**	**14.60**	**9.96**	**—**	**9.73**	**9.73**	**—**	**9.73**
1991	—	—	8.71	8.23	5.58	[R] 11.22	[R] 16.80	9.92	—	9.53	9.53	—	9.53
1992	—	2.72	—	8.48	5.31	[R] 10.64	[R] 18.32	9.49	—	[R] 9.27	[R] 9.27	—	[R] 9.27
1993	—	2.72	8.24	8.49	4.19	[R] 10.17	[R] 18.96	9.61	—	[R] 9.35	[R] 9.35	—	[R] 9.35
1994	—	3.59	7.96	8.68	3.88	[R] 8.34	[R] 19.11	9.77	—	9.52	9.52	—	9.52
1995	**—**	**1.96**	**8.36**	**8.64**	**3.88**	**8.66**	**19.40**	**9.95**	**—**	**9.65**	**9.65**	**—**	**9.65**
	Expenditures in Million Nominal Dollars												
1970	**0.1**	**—**	**0.9**	**24.8**	**1.2**	**0.1**	**5.7**	**235.1**	**(s)**	**267.7**	**267.9**	**—**	**267.9**
1971	0.1	—	0.8	34.1	1.0	0.1	6.9	258.2	—	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	57.8	0.9	0.1	7.2	297.4	—	364.1	364.2	—	364.2
1974	0.1	—	1.0	78.3	1.7	0.1	9.3	393.0	—	483.5	483.6	—	483.6
1975	**(s)**	**—**	**1.0**	**83.0**	**2.7**	**0.1**	**10.9**	**464.3**	**—**	**562.1**	**562.1**	**—**	**562.1**
1976	(s)	—	1.0	64.6	3.1	0.2	11.4	506.8	—	587.1	587.1	—	587.1
1977	(s)	—	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	569.2	—	690.7	690.7	—	690.7
1979	—	—	1.7	146.7	7.1	0.3	17.4	757.7	(s)	931.1	931.1	—	931.1
1980	**—**	**—**	**3.0**	**236.1**	**12.8**	**0.3**	**21.8**	**1,004.2**	**—**	**1,278.1**	**1,278.1**	**—**	**1,278.1**
1981	—	—	1.7	267.0	13.9	0.7	26.2	1,082.9	—	1,392.4	1,392.4	—	1,392.4
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	11.1	0.7	23.6	942.3	—	1,301.4	1,301.4	—	1,301.4
1984	—	—	2.0	351.8	9.5	0.6	26.1	870.4	—	1,260.4	1,260.4	—	1,260.4
1985	**—**	**—**	**1.9**	**325.9**	**9.0**	**0.7**	**24.3**	**868.1**	**(s)**	**1,229.9**	**1,229.9**	**—**	**1,229.9**
1986	—	—	2.1	163.8	6.3	0.6	21.0	665.9	—	859.7	859.7	—	859.7
1987	—	—	1.3	205.2	5.6	0.5	[R] 20.7	722.3	—	[R] 955.6	[R] 955.6	—	[R] 955.6
1988	—	—	1.4	207.7	6.2	0.8	21.5	759.8	—	[R] 997.5	[R] 997.5	—	[R] 997.5
1989	—	—	1.6	259.9	10.6	0.6	21.9	846.6	—	[R] 1,141.2	[R] 1,141.2	—	[R] 1,141.2
1990	**—**	**—**	**1.7**	**297.6**	**9.8**	**0.7**	**22.7**	**991.6**	**—**	**1,324.1**	**1,324.1**	**—**	**1,324.1**
1991	—	—	1.5	271.0	7.3	0.7	23.3	980.3	—	1,284.1	1,284.1	—	1,284.1
1992	—	(s)	—	304.7	8.0	0.8	[R] 25.9	966.6	—	[R] 1,306.1	[R] 1,306.1	—	[R] 1,306.1
1993	—	(s)	1.1	329.8	6.0	[R] 0.8	27.3	981.6	—	[R] 1,346.6	[R] 1,346.6	—	[R] 1,346.6
1994	—	(s)	1.0	338.5	4.9	0.8	[R] 28.8	1,014.9	—	[R] 1,388.9	[R] 1,388.9	—	[R] 1,388.9
1995	**—**	**(s)**	**1.1**	**351.0**	**3.8**	**0.4**	**28.7**	**1,080.8**	**—**	**1,465.9**	**1,465.9**	**—**	**1,465.9**

[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 304. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, West Virginia

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.25**	**0.32**	**0.94**	**0.94**	**—**	**0.94**	**—**	**0.65**	**0.26**
1971	0.32	0.34	0.85	0.84	—	0.85	—	—	0.32
1972	0.35	0.75	0.95	1.95	—	0.97	—	—	0.36
1973	0.37	0.32	0.66	1.73	—	0.69	—	—	0.37
1974	0.85	0.27	1.75	2.53	—	1.76	—	—	0.86
1975	**0.87**	**0.60**	**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**	**2.99**	**—**	**6.30**	**—**	**6.30**	**—**	**—**	**1.43**
1981	1.62	4.48	—	7.48	—	7.48	—	—	1.65
1982	1.71	4.15	—	7.04	—	7.04	—	—	1.74
1983	1.70	4.55	—	6.22	—	6.22	—	—	1.72
1984	1.63	5.02	—	6.22	—	6.22	—	—	1.64
1985	**1.60**	**4.78**	**—**	**6.00**	**—**	**6.00**	**—**	**—**	**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	3.89	—	3.96	—	3.96	—	—	1.45
1989	1.43	4.59	—	4.51	—	4.51	—	—	1.43
1990	**1.47**	**5.13**	**—**	**5.72**	**—**	**5.72**	**—**	**—**	**1.48**
1991	1.52	3.63	—	5.37	—	5.37	—	—	1.53
1992	1.47	3.53	—	4.84	—	4.84	—	—	1.48
1993	1.42	4.36	—	4.62	—	4.62	—	—	1.43
1994	1.39	4.00	—	4.42	—	4.42	—	—	1.40
1995	**1.27**	**3.58**	**—**	**4.39**	**—**	**4.39**	**—**	**—**	**1.28**
	Expenditures in Million Nominal Dollars								
1970	**87.1**	**0.2**	**2.5**	**(s)**	**—**	**2.6**	**—**	**(s)**	**89.9**
1971	119.8	0.1	2.2	(s)	—	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	499.8	0.1	12.9	0.1	—	13.0	—	—	512.9
1975	**522.5**	**0.1**	**8.2**	**0.2**	**—**	**8.3**	**—**	**—**	**531.0**
1976	591.1	0.2	8.3	0.5	—	8.8	—	—	600.0
1977	669.6	0.1	12.0	0.3	—	12.3	—	—	681.9
1978	718.0	(s)	26.1	(s)	—	26.1	—	—	744.1
1979	834.8	0.2	14.4	0.1	—	14.5	—	—	849.4
1980	**972.5**	**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	0.5	—	21.4	—	21.4	—	—	1,186.8
1983	1,220.1	0.5	—	15.1	—	15.1	—	—	1,235.8
1984	1,246.5	0.6	—	13.9	—	13.9	—	—	1,260.9
1985	**1,248.3**	**0.6**	**—**	**12.9**	**—**	**12.9**	**—**	**—**	**1,261.8**
1986	1,146.7	1.2	—	8.2	—	8.2	—	—	1,156.2
1987	1,082.5	0.9	—	9.7	—	9.7	—	—	1,093.2
1988	1,139.6	0.3	—	8.2	—	8.2	—	—	1,148.1
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
1995	**969.3**	**1.5**	**—**	**8.6**	**—**	**8.6**	**—**	**—**	**979.4**

[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 305. Energy Price and Expenditure Estimates by Source, 1970-1995, Wisconsin

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	**0.53**	**0.51**	**0.51**	**0.79**	**1.07**	**0.74**	**1.88**	**2.65**	**0.57**	**1.42**	**1.89**	**0.15**	**0.65**	**1.16**	**0.39**	**6.02**	**1.75**
1971	0.71	0.51	0.52	0.82	1.13	0.78	1.83	2.77	0.71	1.54	1.99	0.15	—	1.20	0.40	6.18	R 1.85
1972	0.68	0.55	0.56	0.89	1.14	0.82	2.00	2.69	0.68	1.66	1.99	0.15	—	1.26	0.43	6.55	2.00
1973	0.79	0.57	0.57	0.94	1.46	0.95	3.23	3.07	0.82	1.75	2.36	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	1.66	R 2.93	3.44	0.22	—	1.92	0.59	7.71	2.93
1975	**1.80**	**1.03**	**1.05**	**1.30**	**2.47**	**2.08**	**3.60**	**4.54**	**1.79**	**3.16**	**3.65**	**0.32**	**—**	**2.12**	**0.71**	**8.88**	**3.28**
1976	1.82	1.04	1.05	1.70	2.68	2.36	3.65	4.77	1.80	R 3.13	R 3.78	0.36	—	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	R 3.33	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	2.68	0.95	10.87	4.16
1979	2.20	1.39	1.40	2.66	4.75	3.92	5.41	6.86	2.42	R 4.66	5.79	0.34	1.56	3.45	1.09	11.78	5.28
1980	**2.27**	**1.43**	**1.44**	**3.43**	**6.59**	**6.38**	**6.51**	**9.43**	**3.48**	R **6.94**	R **8.12**	**0.47**	**1.74**	**4.42**	**1.25**	**13.34**	**6.85**
1981	2.41	1.64	1.65	4.22	7.90	7.55	6.99	10.48	4.31	R 9.42	R 9.40	0.53	1.24	5.11	1.34	15.14	8.09
1982	2.47	1.80	1.80	4.95	7.81	7.22	7.74	10.40	3.97	R 8.40	R 9.19	0.80	1.28	5.25	1.50	17.31	8.52
1983	2.19	1.79	1.79	5.47	7.54	6.75	8.20	9.36	4.15	R 8.36	R 8.62	0.83	1.12	5.12	1.54	17.68	R 8.56
1984	2.16	1.78	1.78	5.38	7.67	6.45	8.28	9.26	4.85	R 9.23	R 8.66	0.67	1.28	5.02	1.46	17.12	8.65
1985	**2.08**	**1.76**	**1.76**	**5.37**	**7.63**	**6.19**	R **8.73**	**9.33**	**4.59**	R **8.82**	**8.67**	**0.58**	**0.79**	**5.01**	**1.42**	**16.87**	**8.61**
1986	—	1.68	1.68	5.14	5.78	4.45	R 8.31	7.00	2.99	R 7.36	6.63	0.51	0.32	4.15	1.33	16.97	7.72
1987	—	1.53	1.53	5.03	6.13	4.28	R 7.47	7.49	2.55	R 6.67	R 6.93	0.48	0.95	4.14	1.23	16.41	R 7.69
1988	—	1.53	1.53	4.88	5.94	4.11	R 7.18	7.55	2.45	R 5.95	6.82	0.43	0.87	4.14	1.21	16.14	7.51
1989	—	1.50	1.50	4.61	6.57	4.63	R 10.30	8.29	2.40	R 5.72	7.55	0.45	0.75	4.37	1.21	15.99	R 7.72
1990	**—**	**1.41**	**1.41**	**4.56**	**7.69**	**5.99**	R **9.95**	**9.38**	**2.41**	R **5.99**	**8.49**	**0.48**	d R **1.80**	d R **4.56**	**1.15**	**15.77**	d R **7.99**
1991	—	1.41	1.41	4.40	7.17	5.26	R 8.56	9.18	2.35	R 6.36	8.22	0.45	R 1.83	4.43	1.15	R 16.02	R 7.85
1992	—	1.38	1.38	R 4.57	6.95	4.64	R 8.11	8.94	2.23	R 6.76	R 8.01	0.40	1.84	R 4.40	1.11	16.12	R 7.82
1993	—	1.27	1.27	4.92	7.05	4.26	R 8.78	8.72	2.50	R 6.76	7.92	0.40	R 1.69	4.46	1.02	16.24	7.93
1994	—	1.27	1.27	4.76	6.98	3.99	R 8.40	9.06	2.37	R 6.77	R 8.04	0.41	R 1.66	R 4.47	1.03	16.04	R 7.93
1995	**—**	**1.20**	**1.20**	**4.30**	**7.05**	**3.97**	**8.40**	**9.52**	**2.39**	**6.64**	**8.35**	**0.44**	**1.66**	**4.44**	**1.00**	**15.75**	**7.86**
	Expenditures in Million Nominal Dollars																
1970	**5.0**	**191.2**	**196.2**	**267.1**	**161.6**	**6.7**	**54.3**	**633.6**	**8.8**	R **87.8**	**952.8**	**0.3**	**0.1**	R **1,416.5**	**-109.2**	**501.0**	R **1,808.3**
1971	7.9	166.2	174.2	286.8	175.0	8.3	54.5	680.6	7.0	R 88.8	R 1,014.2	5.5	—	R 1,480.7	-117.2	541.3	R 1,904.8
1972	7.8	178.7	186.5	283.7	177.8	9.3	65.8	700.8	8.9	R 90.4	R 1,053.0	5.3	—	R 1,528.6	-132.7	618.8	R 2,014.7
1973	5.3	172.5	177.8	346.0	233.6	12.3	105.5	827.3	11.3	R 103.0	R 1,292.9	12.7	—	R 1,829.4	-148.7	708.5	R 2,389.3
1974	9.6	225.9	235.5	389.8	377.0	19.4	105.3	1,145.8	16.4	R 137.4	R 1,801.5	20.7	—	R 2,447.6	-201.2	784.2	R 3,030.6
1975	**12.0**	**273.6**	**285.6**	**474.2**	**382.3**	**26.0**	**112.5**	**1,230.6**	**19.3**	R **125.7**	R **1,896.5**	**36.6**	**—**	R **2,692.9**	**-245.2**	**932.2**	R **3,379.9**
1976	13.0	307.2	320.2	539.2	471.4	29.9	126.7	1,345.0	30.9	R 133.7	R 2,137.7	42.1	—	R 3,039.2	-281.6	1,053.0	R 3,810.5
1977	13.6	328.7	342.3	719.9	548.0	34.5	165.4	1,463.1	38.7	R 131.4	R 2,381.2	37.9	(s)	R 3,481.3	-309.2	1,179.3	R 4,351.3
1978	10.3	364.3	374.6	855.8	599.6	38.4	141.3	1,485.1	39.4	R 159.4	R 2,463.2	43.9	0.2	R 3,737.7	-370.8	1,321.0	R 4,687.9
1979	9.2	438.9	448.2	977.9	888.6	57.2	132.0	1,939.3	18.2	R 184.8	R 3,220.2	38.3	0.5	R 4,685.1	-436.8	1,470.3	R 5,718.6
1980	**12.3**	**459.9**	**472.2**	**1,184.8**	**863.2**	**86.1**	**143.2**	**2,457.8**	**27.6**	R **254.4**	R **3,832.4**	**50.3**	**1.1**	R **5,540.9**	**-494.9**	**1,669.5**	R **6,715.5**
1981	12.2	527.1	539.3	1,321.2	964.2	97.1	125.0	2,654.8	19.1	R 312.1	R 4,172.4	56.7	0.7	R 6,090.3	-522.4	1,942.3	R 7,510.2
1982	7.1	576.8	583.8	1,517.8	933.5	85.4	163.6	2,526.4	39.5	R 263.6	R 4,012.0	90.8	1.0	R 6,205.4	-584.9	2,192.0	R 7,812.4
1983	1.9	629.2	631.2	1,612.0	897.9	70.0	175.3	2,303.2	14.7	R 259.5	R 3,720.6	84.6	0.7	R 6,049.0	-625.6	2,331.0	R 7,754.5
1984	0.1	646.0	646.0	1,613.2	980.5	58.1	164.0	2,268.8	14.1	R 266.8	R 3,752.2	78.4	1.1	R 6,090.9	-633.9	2,588.7	R 8,045.7
1985	**0.1**	**635.9**	**636.0**	**1,634.5**	**1,004.7**	**57.8**	R **167.7**	**2,280.9**	**9.3**	R **257.2**	R **3,777.7**	**69.2**	**0.7**	R **6,118.0**	**-612.9**	**2,601.0**	R **8,106.1**
1986	—	623.8	623.8	1,408.5	738.8	39.1	R 160.9	1,743.8	14.5	R 209.0	R 2,906.0	62.2	0.4	R 5,000.8	-595.6	2,674.4	R 7,079.6
1987	—	590.9	590.9	1,374.5	754.4	34.8	R 152.8	1,864.8	13.8	R 211.0	R 3,031.7	59.1	1.5	R 5,057.7	-571.4	2,491.2	R 6,977.5
1988	—	601.6	601.6	1,515.0	837.0	30.9	R 156.9	1,967.6	12.8	R 224.7	R 3,229.9	52.7	1.5	R 5,400.7	-574.9	2,609.1	R 7,435.0
1989	—	589.5	589.5	1,491.3	928.9	34.9	R 259.5	2,139.3	12.2	R 231.1	R 3,605.8	52.1	1.4	R 5,740.2	-565.7	2,613.8	R 7,788.4
1990	**—**	**560.2**	**560.2**	**1,371.6**	**1,032.2**	**47.9**	R **237.7**	**2,390.6**	**13.2**	R **239.7**	R **3,961.2**	**57.9**	d R **64.9**	d R **6,015.8**	**-544.4**	R **2,621.1**	d R **8,092.5**
1991	—	573.5	573.5	1,420.9	961.3	39.8	R 260.2	2,405.7	8.6	R 258.0	R 3,933.7	53.4	R 68.4	R 6,049.8	-557.3	R 2,761.1	R 8,253.5
1992	—	550.5	550.5	R 1,485.1	920.8	44.9	R 227.5	2,361.7	8.7	R 272.3	R 3,835.9	47.5	R 68.0	R 5,987.0	-530.3	R 2,771.9	R 8,228.6
1993	—	513.5	513.5	1,680.8	1,004.5	45.9	R 271.8	2,363.6	14.2	R 283.6	R 3,983.5	48.5	R 60.4	R 6,286.7	-499.0	R 2,913.6	R 8,701.2
1994	—	539.9	539.9	1,634.3	1,057.7	44.4	R 270.7	2,525.8	13.0	R 302.0	R 4,213.4	50.2	R 62.5	R 6,500.5	-523.8	R 3,000.5	R 8,977.1
1995	**—**	**530.9**	**530.9**	**1,607.0**	**1,024.4**	**46.0**	**264.6**	**2,754.5**	**7.5**	**320.9**	**4,417.9**	**51.6**	**67.1**	**6,674.6**	**-525.0**	**3,083.8**	**9,233.3**

[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 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.
(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 306. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Wisconsin

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**1.63**	**1.22**	**1.21**	**1.47**	**2.07**	**1.42**	**—**	**1.33**	**6.75**	**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	1.58	2.22	1.53	—	1.43	7.38	2.33
1973	1.68	1.41	1.66	1.84	4.01	2.22	—	1.78	7.89	2.73
1974	2.87	1.48	2.58	2.81	3.66	2.84	—	2.09	8.77	3.12
1975	**3.10**	**1.71**	**2.57**	**2.97**	**4.15**	**2.94**	**—**	**2.24**	**10.04**	**3.48**
1976	2.89	2.07	2.81	3.11	4.30	3.14	—	2.54	10.86	3.83
1977	3.15	2.46	3.22	3.63	4.97	3.59	—	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	—	3.86	13.37	5.53
1980	**3.92**	**3.81**	**6.60**	**8.11**	**7.69**	**6.82**	**—**	**4.78**	**15.04**	**6.85**
1981	4.15	4.73	7.87	9.96	8.07	7.92	—	5.76	17.14	8.26
1982	4.11	5.58	7.77	9.91	9.05	8.03	—	6.34	19.72	9.21
1983	4.18	6.43	7.66	8.89	8.97	8.06	—	6.86	20.33	10.10
1984	4.16	6.46	7.65	8.68	9.03	8.04	—	6.88	19.68	10.16
1985	**4.26**	**6.41**	**7.44**	**8.45**	**8.72**	**7.75**	**—**	**6.80**	**19.73**	**10.03**
1986	3.86	6.14	5.72	6.50	8.05	6.26	—	6.17	20.07	9.78
1987	3.72	5.94	5.69	6.45	7.69	6.23	—	6.02	19.69	9.55
1988	3.83	5.84	5.59	6.35	7.29	6.02	—	5.89	19.52	9.20
1989	3.84	5.61	6.14	6.97	12.12	8.18	—	6.31	19.56	9.49
1990	**3.37**	**5.71**	**7.13**	**8.09**	**10.03**	**8.17**	**[d] 3.56**	**[d] 6.29**	**[R] 19.45**	**[d R] 9.24**
1991	3.43	5.57	6.78	7.69	8.91	7.60	3.56	6.07	[R] 19.74	9.06
1992	3.41	5.82	6.19	7.03	7.99	6.90	3.56	6.03	[R] 20.24	9.06
1993	3.35	6.27	6.23	7.07	8.59	7.18	3.56	6.47	[R] 20.61	9.67
1994	3.33	6.21	6.14	6.97	[R] 8.89	[R] 7.28	3.56	[R] 6.45	20.74	[R] 9.78
1995	**3.26**	**5.76**	**6.15**	**6.98**	**8.75**	**7.36**	**3.56**	**6.08**	**20.42**	**9.50**
	Expenditures in Million Nominal Dollars									
1970	**15.5**	**131.2**	**82.3**	**13.4**	**43.9**	**139.5**	**—**	**286.3**	**226.2**	**512.5**
1971	18.5	138.7	88.5	10.1	43.0	141.5	—	298.8	243.5	542.3
1972	9.5	140.0	89.6	7.5	52.9	150.0	—	299.5	278.3	577.8
1973	6.0	158.0	113.9	8.6	89.8	212.3	—	376.3	308.2	684.5
1974	10.3	174.5	172.6	9.6	78.2	260.4	—	445.2	344.3	789.5
1975	**11.9**	**209.5**	**164.8**	**8.9**	**83.2**	**257.0**	**—**	**478.4**	**403.6**	**882.0**
1976	12.6	259.1	205.2	7.0	89.4	301.6	—	573.3	449.4	1,022.7
1977	10.1	297.6	234.8	6.8	98.6	340.2	—	648.0	497.2	1,145.2
1978	7.5	345.8	239.9	7.8	86.6	334.3	—	687.6	549.8	1,237.3
1979	9.7	381.9	346.7	3.8	77.1	427.5	—	819.1	606.0	1,425.1
1980	**1.7**	**473.2**	**313.4**	**5.7**	**84.3**	**403.4**	**—**	**878.3**	**697.6**	**1,575.9**
1981	1.4	531.5	343.2	4.1	79.5	426.8	—	959.6	803.3	1,762.9
1982	1.3	666.7	342.5	4.4	92.0	438.9	—	1,106.9	940.6	2,047.5
1983	1.7	728.6	221.3	4.1	108.3	333.7	—	1,063.9	1,001.9	2,065.8
1984	4.4	735.5	238.5	6.8	106.1	351.4	—	1,091.3	1,075.9	2,167.2
1985	**1.0**	**751.6**	**278.4**	**9.3**	**95.7**	**383.5**	**—**	**1,136.1**	**1,097.7**	**2,233.8**
1986	1.1	687.3	214.2	2.6	89.6	306.5	—	994.8	1,133.5	2,128.4
1987	2.9	617.9	191.5	3.7	95.5	290.7	—	911.5	1,036.7	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	716.3	193.0	1.6	198.4	392.9	—	1,109.9	1,085.0	2,194.8
1990	**0.2**	**654.6**	**192.5**	**1.3**	**152.2**	**346.0**	**[d] 16.5**	**[d] 1,017.4**	**[R] 1,087.2**	**[d R] 2,104.5**
1991	0.3	696.1	202.4	1.3	168.7	372.4	17.4	1,086.3	[R] 1,168.3	[R] 2,254.6
1992	0.1	724.4	171.5	1.2	143.4	316.0	18.3	1,058.8	[R] 1,147.6	[R] 2,206.4
1993	1.1	825.0	186.3	1.9	172.8	360.9	9.5	1,196.5	[R] 1,221.9	[R] 2,418.4
1994	1.5	804.9	171.6	1.3	[R] 177.1	[R] 350.1	9.3	[R] 1,165.8	1,249.9	[R] 2,415.8
1995	**3.7**	**791.6**	**141.6**	**1.4**	**176.3**	**319.3**	**10.3**	**1,124.9**	**1,298.1**	**2,422.9**

[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 307. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Wisconsin

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.66**	**0.82**	**1.04**	**0.83**	**1.35**	**2.65**	**0.59**	**1.08**	**0.84**	**7.28**	**2.05**
1971	0.55	0.93	1.10	0.85	1.44	2.77	0.75	1.17	0.90	7.42	2.27
1972	0.74	0.98	1.10	0.85	1.44	2.69	0.68	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	1.08	1.11	2.38	2.31	2.66	4.30	1.54	2.41	1.34	9.01	3.16
1975	**1.51**	**1.29**	**2.39**	**2.41**	**2.63**	**4.54**	**1.66**	**2.43**	**1.50**	**10.13**	**3.55**
1976	1.45	1.68	2.60	2.62	2.67	4.77	1.69	2.55	1.84	10.60	4.14
1977	1.52	2.07	2.99	2.99	3.51	5.07	2.06	3.02	2.23	11.81	4.80
1978	1.64	2.32	3.02	3.14	3.94	4.98	2.03	3.14	2.44	12.59	4.95
1979	1.80	2.66	4.58	4.61	4.18	6.86	2.54	4.40	2.88	13.52	5.55
1980	**1.47**	**3.43**	**6.30**	**5.72**	**5.33**	**9.43**	**4.31**	**6.21**	**3.80**	**15.25**	**6.92**
1981	2.11	4.34	7.61	7.52	5.67	10.48	5.44	7.35	4.67	17.32	8.57
1982	2.20	4.88	7.40	8.09	6.53	10.40	5.50	7.38	5.19	19.37	9.43
1983	2.15	5.26	6.74	6.88	7.19	9.36	4.84	6.92	5.69	19.89	9.54
1984	2.13	5.19	6.53	7.26	7.18	9.26	4.74	6.71	5.54	19.24	9.75
1985	**2.11**	**5.14**	**6.21**	**6.94**	**R 8.74**	**9.33**	**4.50**	**R 6.58**	**R 5.47**	**18.90**	**R 9.49**
1986	2.02	4.96	3.94	4.69	R 8.66	7.00	2.90	R 4.75	R 4.90	18.78	R 10.04
1987	1.90	4.74	4.41	5.07	R 7.12	7.49	2.55	R 5.03	R 4.74	17.93	9.46
1988	1.95	4.64	4.04	4.43	R 7.03	7.55	2.46	R 4.64	R 4.60	17.63	R 9.07
1989	1.87	4.42	4.73	5.20	R 6.92	8.29	2.40	R 5.13	R 4.55	17.33	R 8.84
1990	**1.80**	**4.72**	**5.53**	**6.18**	**R 9.83**	**9.38**	**2.41**	**R 6.36**	**R 5.04**	**R 17.04**	**R 9.30**
1991	1.78	4.59	5.01	5.79	R 7.99	9.18	2.35	R 5.73	R 4.80	17.17	R 9.11
1992	1.74	4.77	4.84	5.41	R 8.32	8.94	2.23	R 5.64	R 4.91	R 17.47	R 9.36
1993	1.70	5.10	4.85	5.70	R 9.14	8.72	2.50	R 5.79	R 5.19	R 17.57	R 9.47
1994	1.70	4.85	4.52	R 5.22	R 8.14	9.06	2.36	R 5.51	R 4.91	17.35	R 9.33
1995	**1.66**	**4.45**	**4.59**	**5.11**	**8.17**	**9.52**	**2.38**	**5.76**	**4.53**	**17.09**	**8.94**
	Expenditures in Million Nominal Dollars										
1970	**11.7**	**45.5**	**11.5**	**0.6**	**5.0**	**0.8**	**0.9**	**18.8**	**76.1**	**153.5**	**229.6**
1971	10.2	45.4	12.2	0.5	5.5	0.7	0.9	19.9	75.5	166.7	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	25.8	0.6	10.0	1.2	1.8	39.5	120.3	251.4	371.8
1975	**10.7**	**88.6**	**24.9**	**0.6**	**9.3**	**1.2**	**1.8**	**37.8**	**137.1**	**288.4**	**425.5**
1976	11.7	98.8	30.7	0.5	9.8	1.3	3.1	45.4	155.9	318.9	474.8
1977	9.0	128.5	35.4	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	55.1	244.3	415.2	659.5
1979	8.8	217.2	53.1	0.3	8.3	2.2	3.4	67.2	293.2	461.8	755.0
1980	**1.2**	**266.9**	**61.8**	**1.8**	**10.3**	**3.8**	**0.8**	**78.5**	**346.5**	**521.5**	**868.0**
1981	1.3	298.0	51.1	0.2	9.9	4.5	0.4	66.0	365.3	604.5	969.9
1982	1.3	344.3	55.1	6.0	11.7	4.7	1.3	78.8	424.4	675.1	1,099.5
1983	1.6	361.4	147.5	0.3	15.3	13.2	0.3	176.7	539.6	702.0	1,241.6
1984	4.2	367.6	154.3	0.3	14.9	12.4	0.2	182.1	553.9	850.6	1,404.4
1985	**0.9**	**378.3**	**114.7**	**0.7**	**R 16.9**	**13.9**	**3.0**	**R 149.2**	**R 528.3**	**779.6**	**R 1,307.9**
1986	1.1	277.1	39.7	0.1	R 17.0	10.3	4.6	R 71.7	R 349.9	789.8	R 1,139.7
1987	2.8	276.0	46.2	0.1	R 15.6	11.2	1.9	R 74.9	R 353.7	744.8	R 1,098.5
1988	2.4	313.3	42.4	0.2	R 15.8	11.4	3.8	R 73.6	R 389.2	778.0	R 1,167.2
1989	0.5	311.2	55.6	0.2	R 20.0	12.1	4.5	R 92.4	R 404.1	776.0	R 1,180.1
1990	**0.1**	**315.1**	**59.0**	**0.3**	**R 26.3**	**15.7**	**3.3**	**R 104.6**	**R 419.8**	**R 779.4**	**R 1,199.2**
1991	0.3	330.4	57.2	0.3	R 26.7	11.9	2.6	R 98.8	R 429.5	R 819.9	R 1,249.4
1992	0.1	343.0	43.7	0.3	R 26.3	9.9	3.2	R 83.6	R 426.7	R 830.5	R 1,257.2
1993	1.0	397.7	43.7	0.4	R 32.4	2.3	3.1	R 81.8	R 480.5	R 861.5	R 1,342.0
1994	1.4	386.0	34.4	0.2	R 28.6	4.2	2.5	R 69.9	R 457.3	R 890.2	R 1,347.5
1995	**3.5**	**382.0**	**28.4**	**0.3**	**29.0**	**2.6**	**1.6**	**61.9**	**447.4**	**911.9**	**1,359.2**

[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.
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, 1970-1995, Wisconsin

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.66**	**0.65**	**0.54**	**0.76**	**0.76**	**0.83**	**1.35**	**5.08**	**2.65**	**0.57**	R **2.01**	**1.14**	**—**	**0.76**	**4.23**	**1.00**
1971	0.71	0.55	0.57	0.57	0.86	0.79	0.85	1.44	5.27	2.77	0.68	R 1.94	R 1.20	—	0.77	4.39	1.04
1972	0.68	0.74	0.73	0.62	0.89	0.79	0.85	1.44	5.58	2.69	0.68	R 1.97	1.23	—	0.85	4.61	1.19
1973	0.79	0.75	0.76	0.67	0.89	1.07	1.16	1.53	5.33	3.07	0.86	R 2.22	1.44	—	0.94	4.89	1.28
1974	1.44	1.08	1.12	0.76	1.80	2.13	2.31	2.66	7.22	4.30	1.75	R 2.81	2.50	—	1.38	5.46	R 1.77
1975	**1.80**	**1.51**	**1.55**	**1.03**	**2.05**	**2.23**	**2.41**	**2.63**	**7.48**	**4.54**	**2.06**	R **3.25**	**2.70**	**—**	**1.65**	**6.63**	**2.18**
1976	1.82	1.45	1.49	1.37	2.00	2.43	2.62	2.67	7.05	4.77	1.97	R 3.59	2.76	—	1.93	7.34	2.56
1977	1.81	1.52	1.56	1.75	2.06	2.75	2.99	3.51	6.97	5.07	2.22	R 3.80	3.08	—	2.18	7.55	2.77
1978	2.44	1.64	1.71	2.01	2.15	2.88	3.14	3.94	7.60	4.98	2.20	R 4.12	3.15	—	2.36	8.08	3.06
1979	2.20	1.80	1.82	2.40	2.55	4.25	4.61	4.18	10.21	6.86	2.52	R 5.56	4.38	—	2.95	8.88	3.74
1980	**2.27**	**1.47**	**1.55**	**3.12**	**3.85**	**5.18**	**5.72**	**5.33**	**14.36**	**9.43**	**3.31**	R **8.69**	R **5.94**	**—**	**3.61**	**10.10**	**4.56**
1981	2.41	2.11	2.14	3.74	5.46	6.89	7.52	5.67	18.00	10.48	4.17	R 9.57	R 7.75	—	4.48	11.50	R 5.60
1982	2.47	2.20	2.21	4.36	4.54	7.33	8.09	6.53	17.25	10.40	3.91	R 9.01	R 7.10	—	R 4.70	13.08	R 6.02
1983	2.19	2.15	2.15	4.65	4.51	6.80	6.88	7.19	16.98	9.36	4.02	R 8.59	R 7.23	—	R 4.77	13.27	R 6.27
1984	2.16	2.13	2.13	4.43	4.75	6.64	7.26	7.18	17.63	9.26	4.74	R 8.84	R 7.59	—	R 4.78	12.65	R 6.31
1985	**2.08**	**2.11**	**2.11**	**4.44**	**4.87**	**6.35**	**6.94**	R **8.74**	**17.61**	**9.33**	**4.50**	R **8.44**	R **7.57**	**—**	**4.69**	**12.64**	**6.36**
1986	—	2.02	2.02	4.18	4.09	4.29	4.69	R 8.66	15.59	7.00	2.90	R 7.28	5.81	—	4.12	12.71	5.99
1987	—	1.90	1.90	4.32	3.37	4.64	5.07	R 7.12	R 13.58	7.49	2.55	R 7.80	R 5.50	—	R 4.14	12.31	5.86
1988	—	1.95	1.95	4.05	3.34	4.05	4.43	R 7.03	R 14.62	7.55	2.46	R 6.71	R 5.01	—	3.92	12.01	R 5.61
1989	—	1.87	1.87	3.71	2.94	4.75	5.20	R 6.92	14.48	8.29	2.40	R 7.51	R 5.13	—	3.76	11.91	5.47
1990	**—**	**1.80**	**1.80**	**3.37**	**3.13**	**5.66**	**6.18**	R **9.83**	**14.60**	**9.38**	**2.41**	R **7.56**	**5.75**	d R **1.59**	d R **3.53**	**11.69**	d **5.13**
1991	—	1.78	1.78	3.14	3.10	5.30	5.79	R 7.99	R 16.80	9.18	2.35	R 7.31	5.83	R 1.61	R 3.49	11.81	R 5.08
1992	—	1.74	1.74	R 3.27	2.59	4.95	5.41	R 8.32	R 18.32	8.94	2.23	R 8.32	R 5.82	1.59	R 3.53	11.72	R 5.15
1993	—	1.70	1.70	3.48	3.19	5.22	5.70	R 9.14	R 18.96	8.72	2.50	R 7.44	R 5.88	R 1.59	R 3.69	R 11.67	R 5.29
1994	—	1.70	1.70	3.32	3.09	4.78	5.22	R 7.14	R 19.11	9.06	2.36	R 7.95	R 5.61	1.57	R 3.53	11.39	R 5.13
1995	**—**	**1.66**	**1.66**	**2.93**	**3.27**	**4.68**	**5.11**	**7.49**	**19.40**	**9.52**	**2.38**	**8.17**	**5.70**	**1.57**	**3.33**	**11.09**	**4.92**
	Expenditures in Million Nominal Dollars																
1970	**5.0**	**73.0**	**78.0**	**77.3**	**23.6**	**35.1**	**5.9**	**5.0**	**13.6**	**34.4**	**3.9**	**9.5**	**131.0**	**—**	R **286.4**	**121.3**	R **407.7**
1971	7.9	42.8	50.7	89.7	25.4	36.7	4.8	5.5	12.3	33.1	3.1	13.4	R 134.2	—	R 274.6	131.2	R 405.8
1972	7.8	51.7	59.5	87.4	26.0	36.3	3.1	6.3	14.0	33.3	4.7	R 14.6	R 138.2	—	R 285.1	150.1	R 435.1
1973	5.3	47.9	53.2	113.1	29.6	48.3	4.0	9.0	20.0	35.0	5.8	R 18.3	R 170.1	—	R 336.3	165.0	R 501.4
1974	9.6	56.8	66.4	122.2	43.4	92.0	5.9	16.1	25.9	42.7	11.1	R 23.3	R 260.5	—	R 449.1	188.5	R 637.6
1975	**12.0**	**72.6**	**84.6**	**159.5**	**41.1**	**92.9**	**5.5**	**19.1**	**19.3**	**48.4**	**9.3**	R **24.6**	R **260.2**	**—**	R **504.3**	**240.2**	R **744.5**
1976	13.0	75.7	88.7	166.9	47.5	114.6	5.2	26.5	20.2	52.8	15.8	R 26.5	R 309.1	—	R 564.8	284.6	R 849.4
1977	13.6	73.1	86.8	282.5	43.1	129.3	5.2	53.0	21.0	50.6	17.6	R 29.1	R 348.8	—	R 718.1	309.9	R 1,028.0
1978	10.3	77.7	87.9	310.7	58.1	138.9	5.3	39.4	24.6	41.6	12.6	R 34.4	R 355.0	—	R 753.7	356.0	R 1,109.7
1979	9.2	95.2	104.4	330.5	56.2	190.7	2.3	44.6	34.5	52.5	1.8	R 47.9	R 430.4	—	R 865.4	402.6	R 1,267.9
1980	**12.3**	**72.3**	**84.6**	**404.2**	**77.1**	**108.3**	**1.3**	**47.0**	**43.2**	**80.9**	**19.4**	R **73.9**	R **451.2**	**—**	R **939.9**	**450.4**	R **1,390.3**
1981	12.2	100.7	112.9	464.4	70.6	142.1	2.0	31.7	52.0	74.6	15.8	R 122.3	R 511.1	—	R 1,088.4	534.5	R 1,622.9
1982	7.1	109.5	116.6	488.5	63.7	140.4	1.5	56.1	45.4	62.3	37.3	R 93.0	R 499.6	—	R 1,104.8	576.2	R 1,681.0
1983	1.9	109.4	111.4	507.1	61.0	126.1	1.1	46.1	46.8	56.3	11.0	R 90.8	R 439.3	—	R 1,057.8	627.2	R 1,684.9
1984	0.1	97.2	97.2	502.3	47.8	133.1	0.9	35.9	51.9	58.6	7.2	R 99.5	R 434.9	—	R 1,034.4	662.2	R 1,696.6
1985	**0.1**	**104.6**	**104.7**	**499.2**	**54.6**	**113.5**	**0.8**	R **49.4**	**48.3**	**55.7**	**2.2**	R **87.4**	R **411.9**	**—**	R **1,015.8**	**723.7**	R **1,739.4**
1986	—	100.6	100.6	437.5	55.8	85.8	0.5	R 49.9	41.8	39.2	7.7	R 59.6	R 340.4	—	R 878.4	751.0	R 1,629.5
1987	—	86.9	86.9	472.1	53.5	83.6	0.3	R 38.5	R 41.1	39.3	12.0	R 65.8	R 334.0	—	R 893.0	709.7	R 1,602.7
1988	—	89.7	89.7	478.2	75.8	81.8	0.2	R 44.8	42.7	34.5	8.9	R 55.4	R 344.2	—	R 912.1	740.1	R 1,652.2
1989	—	86.7	86.7	457.4	74.3	93.0	0.5	R 38.0	43.4	37.8	7.6	R 60.1	R 354.8	—	R 898.8	752.9	R 1,651.7
1990	**—**	**85.0**	**85.0**	**394.8**	**76.4**	**118.4**	**0.4**	R **54.9**	**45.0**	**38.2**	**9.8**	R **63.1**	R **406.3**	d R **47.2**	d R **933.3**	R **754.6**	d R **1,687.8**
1991	—	81.3	81.3	386.9	68.5	126.5	0.3	R 60.8	46.3	48.1	6.0	R 87.8	R 444.3	R 49.8	R 962.3	R 772.8	R 1,735.1
1992	—	77.6	77.6	R 411.3	53.3	120.4	0.4	R 54.1	R 51.5	38.3	5.4	R 106.0	R 429.4	R 48.2	R 966.6	R 793.8	R 1,760.4
1993	—	73.9	73.9	449.7	68.9	144.9	0.6	R 61.6	R 54.3	37.8	10.9	R 95.2	R 474.3	R 49.1	R 1,047.1	R 830.2	R 1,877.3
1994	—	81.5	81.5	433.1	72.1	139.9	0.5	R 55.2	R 57.2	43.5	10.3	R 98.3	R 477.1	R 51.0	R 1,042.7	R 860.4	R 1,903.1
1995	**—**	**78.3**	**78.3**	**412.7**	**90.1**	**120.8**	**0.4**	**55.0**	**57.1**	**46.7**	**5.5**	**95.3**	**470.9**	**54.4**	**1,016.3**	**873.8**	**1,890.1**

[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=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 309. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Wisconsin

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.66**	**—**	**2.17**	**1.33**	**0.74**	**1.35**	**5.08**	**2.65**	**0.55**	**2.49**	**2.49**	**—**	**2.49**
1971	0.55	—	2.21	1.34	0.78	1.44	5.27	2.77	0.72	2.58	2.58	—	2.58
1972	0.74	—	2.19	1.33	0.78	1.44	5.58	2.69	0.67	2.51	2.51	—	2.51
1973	0.75	—	2.36	1.61	0.92	1.53	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**	**—**	**3.45**	**2.62**	**2.08**	**2.63**	**7.48**	**4.54**	**1.44**	**4.24**	**4.24**	**—**	**4.24**
1976	1.45	—	3.59	2.81	2.35	2.67	7.05	4.77	1.54	4.44	4.44	—	4.44
1977	1.52	—	3.97	3.23	2.66	3.51	6.97	5.07	1.83	4.74	4.74	—	4.74
1978	—	—	4.29	3.42	2.87	3.94	7.60	4.98	2.07	4.69	4.69	—	4.69
1979	—	—	5.73	5.15	3.92	4.18	10.21	6.86	2.27	6.47	6.47	—	6.47
1980	**—**	**—**	**9.02**	**7.28**	**6.38**	**5.33**	**14.36**	**9.43**	**3.80**	**8.99**	**8.99**	**—**	**8.99**
1981	—	—	10.84	8.45	7.55	5.67	18.00	10.48	5.00	10.09	10.09	—	10.09
1982	—	—	10.92	8.15	7.22	6.53	17.25	10.40	5.03	9.97	9.97	—	9.97
1983	—	—	10.44	8.15	6.75	7.19	16.98	9.36	4.60	9.14	9.14	—	9.14
1984	—	—	10.27	8.64	6.45	7.18	17.63	9.26	4.97	9.13	9.13	—	9.13
1985	**—**	**—**	**9.99**	**8.69**	**6.19**	**[R] 8.74**	**17.61**	**9.33**	**4.71**	**9.18**	**9.18**	**—**	**9.18**
1986	—	—	8.41	6.69	4.45	[R] 8.66	15.59	7.00	3.60	6.95	6.95	—	6.95
1987	—	—	7.55	7.15	4.28	[R] 7.12	[R] 13.58	7.49	—	[R] 7.41	[R] 7.41	—	[R] 7.41
1988	—	—	7.41	7.00	4.11	[R] 7.03	[R] 14.62	7.55	2.37	7.42	7.42	—	7.42
1989	—	—	8.28	7.51	4.63	[R] 6.92	14.48	8.29	2.66	8.09	8.09	—	8.09
1990	**—**	**3.36**	**9.32**	**8.79**	**5.99**	**[R] 9.83**	**14.60**	**9.38**	**2.80**	**9.22**	**9.22**	**—**	**9.22**
1991	—	3.42	8.71	8.40	5.26	[R] 7.99	[R] 16.80	9.18	2.29	9.00	9.00	—	9.00
1992	—	3.66	8.54	8.21	4.64	[R] 8.32	[R] 18.32	8.94	2.41	8.75	8.75	—	8.75
1993	—	3.76	8.24	8.34	4.26	[R] 9.14	[R] 18.96	8.72	2.42	8.59	8.59	—	8.59
1994	—	3.37	7.96	8.27	3.99	[R] 9.11	[R] 19.11	9.06	[R] 2.59	8.81	8.81	[R] 20.51	8.81
1995	**—**	**2.93**	**8.36**	**8.19**	**3.97**	**9.46**	**19.40**	**9.52**	**2.72**	**9.12**	**9.12**	**20.06**	**9.12**
	Expenditures in Million Nominal Dollars												
1970	**0.1**	**—**	**3.6**	**32.3**	**6.7**	**0.4**	**17.0**	**598.4**	**(s)**	**658.4**	**658.5**	**—**	**658.5**
1971	0.1	—	3.1	37.0	8.3	0.5	18.9	646.8	0.1	714.5	714.6	—	714.6
1972	0.1	—	3.1	39.3	8.4	0.5	21.4	666.7	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	18.8	1.0	25.2	1,102.0	0.7	1,231.7	1,231.7	—	1,231.7
1975	**(s)**	**—**	**3.0**	**92.4**	**25.5**	**0.9**	**22.6**	**1,181.0**	**2.6**	**1,328.0**	**1,328.0**	**—**	**1,328.0**
1976	(s)	—	3.1	112.3	28.8	1.0	23.6	1,290.9	3.8	1,463.6	1,463.6	—	1,463.6
1977	(s)	—	3.7	138.5	33.8	1.6	22.1	1,411.2	3.9	1,614.8	1,614.8	—	1,614.8
1978	—	—	2.8	164.7	38.4	2.0	25.9	1,441.8	5.9	1,681.4	1,681.4	—	1,681.4
1979	—	—	3.3	282.3	57.2	2.0	36.3	1,884.7	4.7	2,270.6	2,270.6	—	2,270.6
1980	**—**	**—**	**5.6**	**363.6**	**86.1**	**1.6**	**45.5**	**2,373.2**	**5.6**	**2,881.3**	**2,881.3**	**—**	**2,881.3**
1981	—	—	5.9	414.6	97.1	4.0	54.7	2,575.8	2.4	3,154.5	3,154.5	—	3,154.5
1982	—	—	1.7	385.3	85.4	3.9	47.8	2,459.4	0.9	2,984.4	2,984.4	—	2,984.4
1983	—	—	6.0	394.2	70.0	5.5	49.3	2,233.7	3.4	2,762.1	2,762.1	—	2,762.1
1984	—	—	5.0	448.2	58.1	7.0	54.6	2,197.8	6.7	2,777.4	2,777.4	—	2,777.4
1985	**—**	**—**	**5.1**	**490.1**	**57.8**	**[R] 5.8**	**50.8**	**2,211.3**	**4.1**	**[R] 2,824.9**	**[R] 2,824.9**	**—**	**[R] 2,824.9**
1986	—	—	4.6	393.6	39.1	[R] 4.4	44.0	1,694.2	2.2	[R] 2,182.0	[R] 2,182.0	—	[R] 2,182.0
1987	—	—	3.2	429.2	34.8	[R] 3.3	[R] 43.3	1,814.3	—	[R] 2,328.0	[R] 2,328.0	—	[R] 2,328.0
1988	—	—	3.5	495.5	30.9	[R] 3.5	44.9	1,921.7	0.1	[R] 2,500.1	[R] 2,500.1	—	[R] 2,500.1
1989	—	—	5.4	583.3	34.9	[R] 3.1	45.7	2,089.4	0.1	[R] 2,761.8	[R] 2,761.8	—	[R] 2,761.8
1990	**—**	**0.1**	**5.7**	**658.9**	**47.9**	**[R] 4.2**	**47.4**	**2,336.7**	**(s)**	**[R] 3,100.8**	**[R] 3,100.9**	**—**	**[R] 3,100.9**
1991	—	0.1	4.6	571.4	39.8	[R] 4.0	48.8	2,345.7	(s)	[R] 3,014.3	[R] 3,014.4	—	[R] 3,014.4
1992	—	0.1	5.2	583.0	44.9	[R] 3.6	[R] 54.2	2,313.4	0.1	[R] 3,004.5	[R] 3,004.6	—	[R] 3,004.6
1993	—	0.1	5.0	626.7	45.9	[R] 4.9	57.1	2,323.5	0.2	[R] 3,063.4	[R] 3,063.5	—	[R] 3,063.5
1994	—	0.1	11.4	706.7	44.4	[R] 9.7	[R] 60.2	2,478.0	0.2	[R] 3,310.6	[R] 3,310.8	(s)	[R] 3,310.8
1995	**—**	**0.1**	**15.8**	**729.3**	**46.0**	**4.2**	**60.1**	**2,705.2**	**0.4**	**3,560.9**	**3,561.0**	**(s)**	**3,561.0**

[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.

(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, 1970-1995, Wisconsin

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.39**	**0.42**	**0.56**	**0.67**	**0.36**	**0.54**	**0.15**	**0.65**	**0.39**
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	0.56	1.51	2.04	0.44	1.81	0.22	—	0.59
1975	**0.86**	**0.82**	**1.65**	**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	2.66	0.72	2.33	0.34	1.12	0.95
1979	1.27	2.25	2.46	3.51	0.73	2.99	0.34	1.56	1.09
1980	**1.42**	**2.94**	**4.28**	**5.58**	**1.17**	**5.35**	**0.47**	**1.74**	**1.25**
1981	1.55	3.65	5.35	6.49	1.31	5.93	0.53	1.24	1.34
1982	1.72	4.18	—	6.83	1.50	6.46	0.80	1.28	1.50
1983	1.72	4.28	—	5.97	—	5.97	0.83	1.12	1.54
1984	1.72	4.05	—	5.94	1.00	5.36	0.67	1.28	1.46
1985	**1.71**	**4.11**	**—**	**5.48**	**1.38**	**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**	**2.93**	**—**	**5.26**	**—**	**5.26**	**0.48**	**0.68**	**1.15**
1991	1.36	2.70	—	4.46	—	4.46	0.45	0.73	1.15
1992	1.33	2.40	—	4.64	0.83	3.31	0.40	0.93	1.11
1993	1.21	2.63	—	4.09	0.28	2.26	0.40	0.82	1.02
1994	1.21	2.63	—	3.98	0.61	2.53	0.41	0.82	1.03
1995	**1.14**	**2.21**	**—**	**3.85**	**0.60**	**2.44**	**0.44**	**0.80**	**1.00**
	Expenditures in Million Nominal Dollars								
1970	**90.8**	**13.1**	**4.0**	**0.5**	**0.5**	**5.0**	**0.3**	**0.1**	**109.2**
1971	94.6	13.1	3.0	0.6	0.5	4.0	5.5	—	117.2
1972	109.9	12.6	3.1	1.1	0.5	5.3	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	(s)	9.4	20.7	—	201.2
1975	**178.3**	**16.7**	**5.7**	**7.7**	**0.2**	**13.6**	**36.6**	**—**	**245.2**
1976	207.1	14.5	8.3	9.6	0.1	18.0	42.1	—	281.6
1977	236.4	11.3	13.0	10.7	(s)	23.7	37.9	(s)	309.2
1978	272.9	16.5	17.6	19.7	(s)	37.3	43.9	0.2	370.8
1979	325.3	48.3	8.4	15.9	0.2	24.4	38.3	0.5	436.8
1980	**384.7**	**40.6**	**1.8**	**16.2**	**0.1**	**18.1**	**50.3**	**1.1**	**494.9**
1981	423.7	27.3	0.5	13.3	0.3	14.0	56.7	0.7	522.4
1982	464.6	18.3	—	10.2	0.2	10.4	90.8	1.0	584.9
1983	516.6	14.9	—	8.7	—	8.7	84.6	0.7	625.6
1984	540.2	7.8	—	6.3	0.1	6.4	78.4	1.1	633.9
1985	**529.4**	**5.4**	**—**	**8.0**	**0.2**	**8.2**	**69.2**	**0.7**	**612.9**
1986	520.9	6.7	—	5.4	—	5.4	62.2	0.4	595.6
1987	498.4	8.5	—	4.0	—	4.0	59.1	1.5	571.4
1988	506.9	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	**474.9**	**7.0**	**—**	**3.5**	**—**	**3.5**	**57.9**	**1.2**	**544.4**
1991	491.6	7.4	—	3.8	—	3.8	53.4	1.2	557.3
1992	472.7	6.3	—	2.2	0.2	2.4	47.5	1.4	530.3
1993	437.5	8.2	—	2.9	0.2	3.1	48.5	1.8	499.0
1994	455.5	10.2	—	5.1	0.6	5.7	50.2	2.2	523.8
1995	**445.5**	**20.7**	**—**	**4.3**	**0.5**	**4.9**	**51.6**	**2.4**	**525.0**

[a] There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.
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 311. Energy Price and Expenditure Estimates by Source, 1970-1995, Wyoming

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	**—**	**0.16**	**0.16**	**0.38**	**1.11**	**0.76**	**1.64**	**2.93**	**0.55**	**[R] 0.93**	**[R] 1.72**	**—**	**—**	**0.84**	**0.14**	**4.53**	**1.31**
1971	—	0.16	0.16	0.47	1.13	0.80	1.65	2.97	0.53	[R] 1.03	[R] 1.75	—	—	0.96	0.15	4.58	1.49
1972	—	0.19	0.19	0.45	1.11	0.79	1.67	2.76	0.67	[R] 1.07	[R] 1.72	—	—	0.84	0.18	4.67	1.32
1973	—	0.21	0.21	0.45	1.31	0.94	2.15	3.15	0.83	[R] 1.10	[R] 1.95	—	—	0.94	0.20	4.54	[R] 1.57
1974	—	0.28	0.28	0.52	2.37	1.62	2.79	4.30	1.61	[R] 1.75	[R] 2.90	—	—	[R] 1.33	0.25	4.72	[R] 2.15
1975	**—**	**0.31**	**0.31**	**0.71**	**2.51**	**2.12**	**3.46**	**4.77**	**1.71**	**[R] 2.22**	**[R] 3.26**	**—**	**—**	**1.51**	**0.26**	**4.63**	**[R] 2.52**
1976	—	0.39	0.39	0.88	2.66	2.32	3.63	4.93	1.87	[R] 2.20	[R] 3.37	—	—	1.49	0.30	4.86	[R] 2.67
1977	—	0.47	0.47	1.22	2.84	2.71	3.88	5.28	2.07	[R] 2.33	[R] 3.56	—	—	1.55	0.36	5.25	2.92
1978	—	0.53	0.53	1.67	3.06	2.92	3.86	5.52	1.86	[R] 2.38	[R] 3.68	—	—	1.76	0.39	5.92	3.20
1979	—	0.62	0.62	2.37	4.38	4.08	4.87	7.60	2.45	[R] 3.15	[R] 5.08	—	—	2.24	0.48	6.11	4.21
1980	**—**	**0.70**	**0.70**	**2.45**	**6.44**	**6.59**	**5.77**	**10.28**	**3.56**	**[R] 4.18**	**[R] 7.14**	**—**	**—**	**3.00**	**0.59**	**7.45**	**[R] 5.78**
1981	—	0.80	0.80	3.02	7.51	7.67	6.38	11.35	4.37	[R] 5.29	[R] 8.20	—	—	3.15	0.71	9.62	[R] 6.61
1982	—	0.84	0.84	3.97	6.96	7.38	6.55	10.76	4.07	[R] 4.78	[R] 7.78	—	—	2.99	0.80	10.99	[R] 6.54
1983	—	0.98	0.98	4.24	6.87	7.36	6.59	9.33	4.14	[R] 4.51	[R] 7.55	—	—	[R] 2.79	0.93	12.48	[R] 6.44
1984	—	1.05	1.05	4.54	6.97	7.06	6.28	9.02	4.25	[R] 4.68	[R] 7.37	—	—	[R] 2.71	0.98	12.26	[R] 6.68
1985	**—**	**1.00**	**1.00**	**4.28**	**6.73**	**6.53**	**[R] 8.31**	**8.87**	**3.14**	**[R] 4.73**	**[R] 7.23**	**—**	**—**	**2.49**	**0.93**	**12.54**	**[R] 6.67**
1986	—	0.98	0.98	4.01	5.56	4.56	[R] 7.36	6.72	2.06	[R] 4.20	[R] 5.84	—	—	[R] 2.27	0.93	13.13	[R] 5.99
1987	—	0.91	0.91	3.93	5.71	4.61	[R] 6.42	6.88	1.83	[R] 3.47	[R] 5.80	—	—	2.07	0.88	12.91	[R] 5.96
1988	—	0.88	0.88	3.75	5.81	4.62	[R] 6.31	6.84	1.65	[R] 3.58	[R] 5.86	—	—	[R] 2.02	0.85	12.81	[R] 6.00
1989	—	0.89	0.89	3.82	6.71	5.06	[R] 7.64	7.79	1.88	[R] 3.52	[R] 6.75	—	—	2.29	0.85	12.66	[R] 6.41
1990	**—**	**0.86**	**0.86**	**3.57**	**7.76**	**6.45**	**[R] 8.22**	**8.66**	**2.46**	**[R] 3.60**	**[R] 7.55**	**—**	**[d R] 2.37**	**[d] 2.28**	**0.84**	**[R] 12.39**	**[d R] 6.39**
1991	—	0.86	0.86	3.48	7.02	6.05	[R] 9.80	8.40	2.26	[R] 4.06	[R] 7.25	—	[R] 2.42	2.21	0.84	[R] 12.52	[R] 6.14
1992	—	0.79	0.79	[R] 3.16	7.06	5.88	[R] 7.29	8.73	1.75	[R] 3.87	[R] 7.31	—	[R] 2.96	[R] 2.11	0.76	[R] 12.59	[R] 5.86
1993	—	0.83	0.83	3.70	7.00	5.71	[R] 6.88	8.42	2.05	[R] 3.76	[R] 7.13	—	[R] 2.93	2.28	0.81	[R] 12.52	[R] 6.00
1994	—	0.83	0.83	3.66	6.84	5.29	[R] 7.73	8.65	2.22	[R] 4.02	[R] 7.19	—	[R] 2.66	2.25	0.81	[R] 12.56	[R] 5.93
1995	**—**	**0.84**	**0.84**	**3.43**	**7.16**	**5.33**	**7.54**	**8.68**	**2.29**	**4.59**	**7.43**	**—**	**2.96**	**2.39**	**0.83**	**12.73**	**6.08**
	Expenditures in Million Nominal Dollars																
1970	**—**	**10.2**	**10.2**	**28.4**	**32.7**	**0.5**	**10.8**	**90.8**	**2.7**	**[R] 14.8**	**[R] 152.3**	**—**	**—**	**[R] 190.9**	**-8.9**	**46.9**	**[R] 228.8**
1971	—	9.3	9.3	25.8	37.7	0.6	12.4	94.4	2.2	[R] 17.4	[R] 164.6	—	—	[R] 199.7	-8.7	49.7	[R] 240.7
1972	—	15.1	15.1	38.3	35.6	0.7	15.2	95.1	3.0	[R] 16.9	[R] 166.5	—	—	[R] 220.0	-13.3	54.8	[R] 261.4
1973	—	21.8	21.8	29.2	48.2	0.9	16.8	114.2	5.4	[R] 17.5	[R] 202.9	—	—	[R] 254.0	-19.9	58.8	[R] 292.8
1974	—	30.7	30.7	32.4	97.6	1.5	18.1	153.4	13.3	[R] 23.5	[R] 307.4	—	—	[R] 370.5	-25.0	65.2	[R] 410.7
1975	**—**	**39.8**	**39.8**	**36.4**	**111.2**	**1.5**	**21.6**	**184.4**	**13.6**	**[R] 28.6**	**[R] 360.8**	**—**	**—**	**[R] 437.0**	**-30.3**	**70.0**	**[R] 476.7**
1976	—	69.5	69.5	42.7	126.4	1.7	23.5	204.0	19.9	[R] 29.8	[R] 405.3	—	—	[R] 517.6	-48.4	79.1	[R] 548.3
1977	—	107.7	107.7	56.8	154.0	2.3	24.3	229.4	20.8	[R] 41.0	[R] 471.7	—	—	[R] 636.3	-72.3	94.6	[R] 658.6
1978	—	120.4	120.4	77.3	187.3	2.9	28.1	256.2	22.1	[R] 48.3	[R] 544.8	—	—	[R] 742.5	-77.7	120.6	[R] 785.5
1979	—	165.7	165.7	98.3	307.6	4.3	33.5	341.1	25.6	[R] 57.0	[R] 769.2	—	—	[R] 1,033.2	-112.9	135.7	[R] 1,056.0
1980	**—**	**187.2**	**187.2**	**91.6**	**496.4**	**6.0**	**42.7**	**458.9**	**24.0**	**[R] 71.1**	**[R] 1,099.1**	**—**	**—**	**[R] 1,377.9**	**-140.7**	**176.1**	**[R] 1,413.3**
1981	—	255.2	255.2	128.3	544.1	10.7	46.6	506.6	40.6	[R] 74.4	[R] 1,223.0	—	—	[R] 1,606.5	-205.6	235.5	[R] 1,636.5
1982	—	280.3	280.3	210.0	449.7	8.9	59.8	467.3	27.8	[R] 64.3	[R] 1,077.8	—	—	[R] 1,568.1	-245.2	292.9	[R] 1,615.9
1983	—	306.1	306.1	198.6	289.2	6.4	61.0	385.2	5.5	[R] 46.7	[R] 793.9	—	—	[R] 1,298.6	-263.2	309.1	[R] 1,344.6
1984	—	377.5	377.5	196.8	300.4	6.3	45.2	388.3	2.5	[R] 75.5	[R] 818.3	—	—	[R] 1,392.6	-318.1	395.3	[R] 1,469.8
1985	**—**	**406.6**	**406.6**	**176.5**	**300.6**	**5.6**	**[R] 52.2**	**357.2**	**1.4**	**[R] 90.9**	**[R] 807.9**	**—**	**—**	**[R] 1,391.0**	**-346.3**	**427.3**	**[R] 1,472.0**
1986	—	328.3	328.3	148.5	223.7	3.7	[R] 53.8	252.3	1.4	[R] 75.3	[R] 610.2	—	—	[R] 1,087.0	-283.5	433.6	[R] 1,237.1
1987	—	389.3	389.3	125.2	291.7	5.2	[R] 60.8	262.6	0.3	[R] 59.6	[R] 680.2	—	—	[R] 1,194.7	-345.3	449.3	[R] 1,298.7
1988	—	390.5	390.5	131.2	318.6	5.0	[R] 44.3	267.0	1.2	[R] 52.8	[R] 689.0	—	—	[R] 1,210.7	-350.0	465.3	[R] 1,326.1
1989	—	374.6	374.6	135.2	382.2	4.5	[R] 64.9	309.1	(s)	[R] 48.3	[R] 809.1	—	—	[R] 1,318.9	-328.6	466.9	[R] 1,457.3
1990	**—**	**395.9**	**395.9**	**162.9**	**434.2**	**5.1**	**[R] 36.0**	**321.4**	**(s)**	**[R] 50.2**	**[R] 846.9**	**—**	**[d R] 3.3**	**[d R] 1,409.1**	**-349.8**	**[R] 482.6**	**[d R] 1,541.8**
1991	—	387.8	387.8	179.9	360.5	4.1	[R] 41.2	317.9	(s)	[R] 52.3	[R] 776.0	—	[R] 3.6	[R] 1,347.3	-340.2	[R] 486.9	[R] 1,494.0
1992	—	389.9	389.9	[R] 229.6	381.9	5.0	[R] 29.5	340.8	(s)	[R] 45.4	[R] 802.7	—	[R] 3.2	[R] 1,425.4	-340.1	[R] 488.6	[R] 1,573.9
1993	—	386.2	386.2	280.6	410.5	4.5	[R] 42.3	334.7	0.2	[R] 44.9	[R] 837.1	—	3.0	[R] 1,506.8	-341.4	[R] 492.6	[R] 1,658.1
1994	—	404.7	404.7	295.7	398.7	4.5	[R] 43.4	349.3	0.2	[R] 49.7	[R] 845.7	—	3.2	[R] 1,549.3	-359.9	[R] 486.7	[R] 1,676.2
1995	**—**	**388.0**	**388.0**	**243.7**	**471.7**	**4.7**	**53.6**	**361.7**	**0.1**	**53.0**	**944.8**	**—**	**3.3**	**1,579.8**	**-345.3**	**473.1**	**1,707.6**

[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 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.
(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 312. Residential Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Wyoming

Year	Primary Energy								Electricity	Total Energy [c]
			Petroleum							
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Total	Biofuels [b]	Total [c]		
	Prices in Nominal Dollars per Million Btu									
1970	**0.66**	**0.67**	**1.28**	**1.70**	**1.96**	**1.93**	**—**	**0.89**	**7.52**	**1.45**
1971	0.85	0.69	1.36	1.71	1.93	1.91	—	0.91	7.53	1.46
1972	0.68	0.72	1.36	1.97	2.03	2.01	—	0.96	7.66	1.48
1973	0.92	0.75	1.58	2.11	2.86	2.79	—	1.23	7.30	1.99
1974	0.94	0.85	2.51	3.08	3.33	3.30	—	1.41	7.64	2.34
1975	**0.99**	**1.09**	**2.84**	**3.17**	**4.20**	**4.13**	**—**	**1.83**	**7.58**	**2.78**
1976	1.41	1.25	2.94	3.25	4.24	4.19	—	1.98	7.62	2.97
1977	1.20	1.69	3.25	3.64	4.40	4.35	—	2.33	8.01	3.40
1978	1.17	2.09	3.26	3.87	4.28	4.23	—	2.50	8.70	3.61
1979	0.74	2.70	4.64	5.43	6.38	6.22	—	2.99	9.07	4.19
1980	**0.87**	**2.66**	**6.94**	**—**	**7.25**	**7.23**	**—**	**3.42**	**11.66**	**5.58**
1981	1.23	3.31	8.26	9.94	7.50	7.58	—	4.13	12.93	6.77
1982	2.63	4.53	8.14	—	7.63	7.66	—	4.95	13.61	7.06
1983	2.36	4.84	7.38	9.31	7.69	7.59	—	5.45	15.72	7.78
1984	1.97	5.55	7.36	9.26	7.49	7.43	—	5.72	16.06	8.22
1985	**2.29**	**4.92**	**10.07**	**12.67**	**7.51**	**7.97**	**—**	**5.18**	**16.60**	**8.12**
1986	1.37	4.69	5.72	7.20	6.75	6.69	—	4.93	17.66	8.13
1987	1.44	4.45	3.73	4.69	6.44	6.33	—	4.90	17.90	8.12
1988	0.95	4.25	4.29	5.40	6.20	6.10	—	4.46	17.11	7.84
1989	1.25	4.46	5.43	6.83	10.48	10.05	—	5.14	17.71	8.57
1990	**1.32**	**4.40**	**6.35**	**7.98**	**10.72**	**10.39**	**[d] 4.75**	**[d] 4.96**	**[R] 17.50**	**[d R] 8.13**
1991	1.16	4.47	6.05	7.60	11.18	10.19	4.75	5.16	[R] 17.59	8.27
1992	1.26	4.46	4.79	6.02	8.10	7.57	4.75	4.79	[R] 17.83	[R] 8.29
1993	1.27	4.52	6.02	7.58	8.06	7.74	4.75	4.66	[R] 17.47	[R] 8.01
1994	1.36	4.83	5.89	7.41	[R] 8.59	[R] 8.03	4.75	[R] 4.87	[R] 17.70	[R] 8.29
1995	**1.39**	**4.54**	**3.28**	**4.12**	**8.04**	**7.42**	**4.75**	**4.80**	**17.86**	**8.26**
	Expenditures in Million Nominal Dollars									
1970	**0.1**	**12.3**	**0.1**	**0.4**	**7.4**	**7.9**	**—**	**20.2**	**15.5**	**35.7**
1971	0.2	13.8	0.1	0.4	8.0	8.5	—	22.4	16.8	39.2
1972	0.2	16.5	0.1	0.5	9.9	10.4	—	27.1	18.3	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**	**15.6**	**—**	**28.3**	**23.0**	**51.3**
1976	0.6	13.9	0.4	(s)	15.5	15.9	—	30.4	24.9	55.3
1977	1.0	17.7	0.6	(s)	15.7	16.3	—	35.0	27.9	62.8
1978	1.7	26.6	0.7	(s)	17.0	17.7	—	45.9	34.6	80.5
1979	1.7	36.2	1.0	0.3	16.0	17.3	—	55.2	40.8	96.0
1980	**0.6**	**27.5**	**0.9**	**—**	**17.1**	**18.1**	**—**	**46.1**	**56.1**	**102.2**
1981	0.9	31.3	1.2	0.5	19.7	21.4	—	53.5	72.0	125.5
1982	2.4	68.8	1.4	—	22.7	24.1	—	95.3	84.5	179.8
1983	2.1	71.5	13.6	0.2	28.0	41.8	—	115.4	97.4	212.7
1984	2.0	80.7	13.9	0.1	13.9	27.9	—	110.5	98.6	209.2
1985	**1.5**	**74.2**	**3.0**	**0.6**	**13.4**	**17.0**	**—**	**92.6**	**102.8**	**195.4**
1986	0.8	62.8	0.9	0.1	19.1	20.1	—	83.7	101.1	184.8
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	(s)	20.0	20.8	—	73.8	103.0	176.8
1989	1.0	55.5	1.1	(s)	22.8	23.9	—	80.4	104.0	184.4
1990	**1.2**	**55.6**	**0.9**	**0.1**	**18.9**	**19.9**	**[d] 2.0**	**[d] 78.7**	**[R] 102.7**	**[d R] 181.4**
1991	1.3	56.8	3.1	0.1	24.1	27.2	2.1	87.5	[R] 109.2	[R] 196.7
1992	0.8	51.4	1.6	(s)	14.9	16.5	2.2	71.0	[R] 107.2	[R] 178.3
1993	1.5	60.4	1.8	0.1	13.1	15.0	2.0	79.0	[R] 113.6	[R] 192.6
1994	2.1	59.0	2.4	(s)	[R] 13.1	[R] 15.5	2.0	[R] 78.6	[R] 112.6	[R] 191.2
1995	**1.3**	**58.7**	**1.0**	**(s)**	**17.3**	**18.3**	**2.2**	**80.5**	**118.2**	**198.7**

[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.
(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 313. Commercial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Wyoming

Year	Primary Energy									Electricity	Total Energy [b]
			Petroleum								
	Coal	Natural Gas	Distillate Fuel	Kerosene	LPG [a]	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu										
1970	**0.42**	**0.43**	**1.06**	**0.86**	**1.22**	**2.93**	**0.55**	**1.32**	**0.55**	**5.28**	**1.10**
1971	0.24	0.47	1.09	0.85	1.31	2.97	0.45	1.29	0.58	5.38	1.17
1972	0.45	0.49	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	0.98	1.53	0.68	5.31	1.36
1974	0.77	0.59	2.27	2.18	2.19	4.30	1.79	2.49	0.85	5.34	1.62
1975	**0.90**	**0.72**	**2.49**	**2.42**	**2.48**	**4.77**	**2.03**	**2.77**	**1.08**	**5.48**	**1.86**
1976	1.13	0.82	2.64	2.57	2.84	4.93	2.07	3.03	1.27	5.61	2.11
1977	1.26	1.28	2.91	2.67	3.20	5.28	2.20	3.30	1.65	6.19	2.66
1978	1.44	1.81	2.96	2.94	3.36	5.52	1.97	3.31	2.03	6.88	3.05
1979	1.58	2.55	4.37	3.92	4.00	7.60	2.80	4.98	2.59	7.31	3.58
1980	**1.72**	**2.50**	**6.47**	**5.76**	**5.07**	**10.28**	**3.59**	**6.70**	**3.95**	**11.21**	**5.94**
1981	1.76	3.09	7.76	—	5.76	11.35	4.37	8.37	4.08	12.58	7.33
1982	1.32	4.62	7.53	6.51	6.03	10.76	4.63	7.04	4.93	12.72	6.82
1983	1.41	5.07	6.42	7.43	5.88	9.33	4.51	6.55	4.90	14.42	7.56
1984	1.88	5.09	6.29	8.08	5.86	9.02	4.25	6.54	4.87	15.23	8.34
1985	**1.89**	**4.83**	**5.93**	**7.79**	**[R] 8.63**	**8.87**	**3.14**	**[R] 6.14**	**4.92**	**15.38**	**[R] 8.62**
1986	1.47	4.43	3.69	4.96	[R] 7.75	6.72	2.06	[R] 4.38	[R] 4.17	16.02	[R] 8.43
1987	1.35	4.23	4.13	5.35	[R] 6.41	6.88	1.83	[R] 4.98	[R] 4.15	15.72	8.33
1988	1.34	3.90	3.82	5.09	[R] 6.40	6.84	1.65	[R] 4.11	[R] 3.66	15.84	[R] 7.93
1989	1.36	4.10	4.55	6.07	[R] 6.66	7.79	1.62	[R] 5.42	[R] 4.00	15.45	8.26
1990	**1.12**	**4.07**	**5.70**	**7.62**	**[R] 6.53**	**8.66**	**2.46**	**[R] 6.41**	**4.04**	**[R] 15.64**	**[R] 8.45**
1991	1.14	4.07	5.03	6.65	[R] 8.34	8.40	2.26	[R] 6.27	[R] 3.99	[R] 15.45	[R] 8.26
1992	1.13	4.03	4.87	6.53	[R] 6.63	8.73	—	[R] 5.93	4.05	[R] 15.35	[R] 8.81
1993	1.10	4.01	4.90	6.61	[R] 6.45	8.42	—	[R] 5.27	[R] 3.70	[R] 14.99	[R] 7.97
1994	1.05	4.21	4.61	[R] 6.49	[R] 8.60	8.65	2.22	[R] 5.34	[R] 3.71	[R] 14.96	[R] 7.98
1995	**1.04**	**3.98**	**4.75**	**6.67**	**8.34**	**8.68**	**2.29**	**5.44**	**3.85**	**15.26**	**8.03**
	Expenditures in Million Nominal Dollars										
1970	**0.1**	**6.1**	**0.2**	**0.7**	**0.8**	**1.3**	**0.2**	**3.2**	**9.4**	**11.8**	**21.2**
1971	0.1	6.7	0.2	0.8	1.0	1.2	0.1	3.3	10.1	13.0	23.1
1972	0.2	8.6	0.2	0.8	1.1	1.1	0.2	3.3	12.2	14.4	26.5
1973	0.1	7.0	0.3	0.9	1.0	1.3	0.3	3.9	11.0	15.0	26.0
1974	0.3	7.8	0.6	0.9	1.3	1.5	0.7	5.1	13.2	17.5	30.7
1975	**0.5**	**6.9**	**0.9**	**0.6**	**1.6**	**1.8**	**1.1**	**5.9**	**13.4**	**14.5**	**27.9**
1976	0.9	7.2	1.0	(s)	1.8	2.5	1.5	6.9	14.9	15.8	30.7
1977	1.9	10.5	1.2	(s)	2.0	2.6	1.5	7.4	19.8	21.3	41.0
1978	3.9	13.4	1.5	(s)	2.4	3.0	1.5	8.4	25.6	23.0	48.6
1979	6.7	19.5	2.4	0.8	1.8	4.0	0.5	9.4	35.5	26.6	62.1
1980	**2.1**	**13.2**	**16.1**	**0.8**	**2.1**	**5.5**	**0.6**	**25.1**	**40.4**	**43.5**	**84.0**
1981	2.3	14.8	5.6	—	2.7	6.8	0.1	15.2	32.3	61.5	93.8
1982	2.2	46.7	15.4	0.6	3.2	6.5	5.1	30.7	79.6	66.1	145.7
1983	2.3	49.3	8.3	0.5	3.8	3.2	0.9	16.8	68.4	77.9	146.3
1984	3.6	50.5	8.3	0.3	1.9	2.8	0.5	13.9	68.0	106.9	174.9
1985	**2.3**	**46.4**	**15.2**	**0.3**	**[R] 2.7**	**3.1**	**1.4**	**[R] 22.7**	**[R] 71.4**	**121.8**	**[R] 193.2**
1986	1.7	37.4	8.4	(s)	[R] 3.9	4.3	1.4	[R] 18.0	[R] 57.1	122.9	[R] 180.0
1987	1.6	37.7	6.6	0.1	[R] 5.5	2.6	0.3	[R] 15.1	[R] 54.4	116.8	[R] 171.2
1988	2.2	35.8	6.0	0.1	[R] 3.6	2.4	1.2	[R] 13.4	[R] 51.3	120.0	[R] 171.3
1989	2.1	37.0	6.6	0.1	[R] 2.6	2.6	(s)	11.8	[R] 51.0	117.0	[R] 168.0
1990	**1.9**	**37.7**	**7.2**	**(s)**	**2.0**	**3.4**	**(s)**	**12.6**	**52.2**	**[R] 123.8**	**[R] 176.0**
1991	2.4	39.2	7.0	0.1	[R] 3.2	3.8	(s)	[R] 14.2	[R] 55.8	[R] 128.6	[R] 184.3
1992	1.4	34.1	6.3	(s)	2.1	3.6	—	12.0	47.5	[R] 130.7	[R] 178.2
1993	2.5	43.4	6.1	(s)	[R] 1.9	0.3	—	[R] 8.3	54.2	[R] 133.8	[R] 188.0
1994	3.0	41.1	6.2	(s)	[R] 2.3	0.3	(s)	[R] 8.9	53.0	[R] 131.3	[R] 184.3
1995	**1.8**	**41.6**	**8.5**	**0.1**	**3.2**	**0.3**	**(s)**	**12.1**	**55.5**	**127.1**	**182.6**

[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.
(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 314. Industrial Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Wyoming

Year	Primary Energy															Electricity	Total Energy [c]
	Coal			Natural Gas	Petroleum									Biofuels	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**	**0.42**	**0.24**	**0.58**	**0.80**	**0.86**	**1.22**	**5.08**	**2.93**	**0.55**	**0.51**	**[R] 0.94**	**—**	**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	[R] 0.62	[R] 1.01	—	0.71	3.21	[R] 0.96
1972	—	0.45	0.45	0.29	0.82	0.78	0.84	1.26	5.58	2.76	0.61	0.58	[R] 1.00	—	0.59	3.25	0.79
1973	—	0.47	0.47	0.31	0.85	1.03	1.11	1.39	5.33	3.15	0.76	[R] 0.60	[R] 1.10	—	0.69	3.26	0.91
1974	—	0.77	0.77	0.37	1.71	2.06	2.18	2.19	7.22	4.30	1.54	[R] 0.81	[R] 1.95	—	1.13	3.41	[R] 1.32
1975	**—**	**0.90**	**0.90**	**0.55**	**1.80**	**2.30**	**2.42**	**2.48**	**7.48**	**4.77**	**1.65**	**[R] 1.40**	**[R] 2.25**	**—**	**1.46**	**3.44**	**1.66**
1976	—	1.13	1.13	0.73	1.65	2.42	2.57	2.84	7.05	4.93	1.83	[R] 1.53	[R] 2.33	—	[R] 1.61	3.76	1.82
1977	—	1.26	1.26	1.01	1.76	2.53	2.67	3.20	6.97	5.28	2.05	1.79	[R] 2.51	—	1.83	4.10	2.04
1978	—	1.44	1.44	1.40	1.94	2.75	2.94	3.36	7.60	5.52	1.84	[R] 1.57	[R] 2.47	—	1.98	4.83	2.27
1979	—	1.58	1.58	2.05	2.45	3.81	3.92	4.00	10.21	7.60	2.42	[R] 1.86	[R] 3.40	—	[R] 2.69	4.85	2.93
1980	**—**	**1.72**	**1.72**	**2.32**	**3.66**	**5.44**	**5.76**	**5.07**	**14.36**	**10.28**	**3.55**	**[R] 2.49**	**[R] 4.88**	**—**	**[R] 3.61**	**5.12**	**[R] 3.78**
1981	—	1.76	1.76	2.90	4.46	6.57	6.92	5.76	18.00	11.35	4.37	[R] 2.92	[R] 5.81	—	[R] 4.11	7.27	[R] 4.44
1982	—	1.32	1.32	3.41	4.21	5.93	6.51	6.03	17.25	10.76	3.95	[R] 2.20	[R] 5.49	—	[R] 3.97	9.34	[R] 4.61
1983	—	1.41	1.41	3.47	4.22	6.48	7.43	5.88	16.98	9.33	4.08	[R] 1.77	[R] 5.66	—	[R] 3.64	10.16	[R] 4.50
1984	—	1.88	1.88	3.47	4.57	6.57	8.08	5.86	17.63	9.02	4.25	[R] 1.92	[R] 5.47	—	[R] 3.80	9.94	[R] 4.87
1985	**—**	**1.89**	**1.89**	**3.38**	**4.82**	**6.33**	**7.79**	**[R] 8.63**	**17.61**	**8.87**	**3.14**	**[R] 2.05**	**[R] 5.72**	**—**	**[R] 3.89**	**10.15**	**[R] 5.03**
1986	—	1.47	1.47	3.17	4.36	4.03	4.96	[R] 7.75	15.59	6.72	2.06	1.53	[R] 4.40	—	[R] 3.09	10.68	[R] 4.53
1987	—	1.35	1.35	3.20	3.21	4.34	5.35	[R] 6.41	[R] 13.58	6.88	1.83	1.50	[R] 4.05	—	[R] 2.84	10.68	[R] 4.49
1988	—	1.34	1.34	3.19	3.40	4.14	5.09	[R] 6.40	[R] 14.62	6.84	1.65	1.45	[R] 3.98	—	[R] 2.78	10.67	[R] 4.59
1989	—	1.36	1.36	3.06	2.88	4.93	6.07	[R] 6.66	14.48	7.79	1.62	1.74	[R] 4.60	—	[R] 3.00	10.49	[R] 4.67
1990	**—**	**1.12**	**1.12**	**2.94**	**2.71**	**6.19**	**7.62**	**[R] 6.53**	**14.60**	**8.66**	**2.46**	**2.02**	**[R] 4.92**	**[d R] 1.34**	**[d R] 2.77**	**[R] 10.18**	**[d R] 4.31**
1991	—	1.14	1.14	2.86	3.43	5.40	6.65	[R] 8.34	[R] 16.80	8.40	2.26	1.72	[R] 4.92	[R] 1.41	[R] 2.78	[R] 10.22	[R] 4.20
1992	—	1.13	1.13	[R] 2.73	3.07	5.30	6.53	[R] 6.63	[R] 18.32	8.73	1.75	1.29	[R] 4.75	1.61	[R] 2.65	10.32	[R] 3.87
1993	—	1.10	1.10	3.43	2.93	5.37	6.61	[R] 6.45	[R] 18.96	8.42	2.05	1.06	[R] 4.73	1.63	[R] 3.02	[R] 10.25	[R] 4.18
1994	—	1.05	1.05	3.32	3.02	5.27	6.49	[R] 7.31	[R] 19.11	8.65	2.22	1.14	[R] 4.86	[R] 1.51	[R] 3.00	[R] 10.28	[R] 4.10
1995	**—**	**1.04**	**1.04**	**2.99**	**3.20**	**5.42**	**6.67**	**7.24**	**19.40**	**8.68**	**2.29**	**1.34**	**5.12**	**1.63**	**2.81**	**10.26**	**3.97**
	Expenditures in Million Nominal Dollars																
1970	**—**	**1.7**	**1.7**	**9.5**	**4.2**	**8.9**	**0.8**	**2.1**	**0.9**	**8.5**	**0.9**	**[R] 2.4**	**[R] 28.7**	**—**	**[R] 39.9**	**19.6**	**[R] 59.5**
1971	—	0.8	0.8	5.0	6.7	9.4	0.8	2.8	0.1	9.8	1.3	[R] 2.8	[R] 33.7	—	[R] 39.5	19.9	[R] 59.4
1972	—	1.9	1.9	13.0	5.8	9.2	0.8	3.5	0.1	9.5	1.5	[R] 2.8	[R] 33.3	—	[R] 48.2	22.1	[R] 70.3
1973	—	2.3	2.3	11.5	5.5	15.4	1.0	3.6	0.1	9.3	3.3	[R] 3.2	[R] 41.4	—	[R] 55.3	24.2	[R] 79.5
1974	—	7.0	7.0	13.7	7.4	32.8	1.8	4.5	0.2	13.5	8.9	[R] 4.7	[R] 73.9	—	[R] 94.6	26.5	[R] 121.1
1975	**—**	**10.6**	**10.6**	**16.7**	**7.2**	**47.3**	**1.6**	**4.0**	**2.1**	**14.8**	**11.1**	**[R] 8.2**	**[R] 96.4**	**—**	**[R] 123.7**	**32.5**	**[R] 156.1**
1976	—	22.6	22.6	20.6	8.4	56.0	1.1	4.8	2.2	15.6	16.0	[R] 8.9	[R] 113.0	—	[R] 156.2	38.4	[R] 194.7
1977	—	35.3	35.3	27.2	15.1	68.5	1.2	5.0	2.4	21.2	17.4	[R] 10.8	[R] 141.8	—	[R] 204.3	45.5	[R] 249.8
1978	—	40.9	40.9	35.9	21.2	81.8	0.4	6.5	2.8	10.7	18.6	[R] 10.0	[R] 152.0	—	[R] 228.8	63.0	[R] 291.8
1979	—	48.4	48.4	41.3	17.0	136.9	1.1	14.8	4.0	14.3	22.6	[R] 14.2	[R] 224.8	—	[R] 314.5	68.4	[R] 382.9
1980	**—**	**49.6**	**49.6**	**50.0**	**28.2**	**198.0**	**1.3**	**22.0**	**5.0**	**19.7**	**23.4**	**[R] 17.9**	**[R] 315.5**	**—**	**[R] 415.1**	**76.5**	**[R] 491.6**
1981	—	53.3	53.3	81.9	28.9	226.2	2.4	21.8	6.0	16.0	40.3	[R] 16.3	[R] 357.9	—	[R] 493.1	102.0	[R] 595.1
1982	—	35.9	35.9	93.9	25.3	191.3	4.6	31.1	5.2	24.9	22.5	[R] 11.5	[R] 316.4	—	[R] 446.2	142.3	[R] 588.5
1983	—	42.1	42.1	77.2	11.1	118.3	1.9	25.8	5.4	21.5	4.5	[R] 10.5	[R] 199.1	—	[R] 318.4	133.8	[R] 452.2
1984	—	58.8	58.8	65.1	37.1	122.4	1.3	28.1	6.0	8.2	2.0	[R] 12.1	[R] 217.1	—	[R] 341.0	189.8	[R] 530.8
1985	**—**	**62.2**	**62.2**	**55.3**	**53.6**	**101.3**	**0.3**	**[R] 34.6**	**5.6**	**24.7**	**(s)**	**[R] 13.4**	**[R] 233.5**	**—**	**[R] 350.9**	**202.7**	**[R] 553.6**
1986	—	45.6	45.6	47.8	46.5	57.6	0.2	[R] 29.3	4.8	17.7	(s)	[R] 9.0	[R] 165.1	—	[R] 258.5	209.6	[R] 468.1
1987	—	44.6	44.6	37.3	31.3	67.1	0.2	[R] 22.9	[R] 4.8	16.3	(s)	[R] 8.8	[R] 151.4	—	[R] 233.2	232.7	[R] 465.9
1988	—	41.0	41.0	42.5	23.6	53.5	0.1	[R] 19.5	4.9	16.6	(s)	[R] 9.1	[R] 127.4	—	[R] 210.8	242.3	[R] 453.1
1989	—	46.1	46.1	42.4	17.6	65.8	0.1	[R] 38.7	5.0	19.7	(s)	[R] 10.7	[R] 157.6	—	[R] 246.0	245.9	[R] 491.9
1990	**—**	**46.3**	**46.3**	**69.3**	**17.1**	**81.8**	**0.1**	**[R] 14.4**	**5.2**	**18.9**	**(s)**	**[R] 12.4**	**[R] 150.0**	**[d R] 1.3**	**[d R] 266.9**	**[R] 256.1**	**[d R] 522.9**
1991	—	47.7	47.7	83.6	23.1	83.6	0.1	[R] 12.5	5.4	22.1	(s)	[R] 8.2	[R] 155.1	[R] 1.4	[R] 287.8	[R] 249.1	[R] 536.9
1992	—	50.6	50.6	[R] 143.7	15.7	83.9	0.2	[R] 11.9	[R] 6.0	22.5	(s)	[R] 6.8	[R] 146.9	1.0	[R] 342.3	250.6	[R] 592.9
1993	—	43.9	43.9	176.4	14.7	85.6	0.7	[R] 26.6	6.3	17.1	0.2	[R] 5.9	[R] 157.0	1.0	[R] 378.3	[R] 245.2	[R] 623.5
1994	—	42.7	42.7	194.8	18.1	84.9	0.8	[R] 26.8	6.6	18.9	0.2	[R] 5.5	[R] 161.8	1.2	[R] 400.5	[R] 242.9	[R] 643.3
1995	**—**	**44.0**	**44.0**	**142.3**	**14.1**	**69.4**	**0.8**	**32.8**	**6.6**	**20.2**	**0.1**	**6.5**	**150.5**	**1.0**	**337.8**	**227.7**	**565.5**

[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=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 315. Transportation Sector Energy Price and Expenditure Estimates by Source, 1970-1995, Wyoming

Year	Primary Energy											Electricity	Total Energy
			Petroleum										
	Coal	Natural Gas	Aviation Gasoline	Distillate Fuel	Jet Fuel	LPG [a]	Lubricants	Motor Gasoline	Residual Fuel	Total	Total		
	Prices in Nominal Dollars per Million Btu												
1970	**0.42**	**—**	**2.17**	**1.31**	**0.76**	**1.22**	**5.08**	**2.93**	**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	0.94	1.39	5.33	3.15	0.97	2.46	2.46	—	2.46
1974	0.77	—	3.23	2.56	1.62	2.19	7.22	4.30	1.78	3.49	3.49	—	3.49
1975	**0.90**	**—**	**3.45**	**2.70**	**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	6.97	5.28	2.16	4.40	4.40	—	4.40
1978	—	—	4.29	3.36	2.92	3.36	7.60	5.52	1.98	4.63	4.63	—	4.63
1979	—	—	5.73	5.00	4.08	4.00	10.21	7.60	2.73	6.45	6.45	—	6.45
1980	**—**	**—**	**9.02**	**7.39**	**6.59**	**5.07**	**14.36**	**10.28**	**—**	**8.94**	**8.94**	**—**	**8.94**
1981	—	—	10.84	8.40	7.67	5.76	18.00	11.35	4.84	10.02	10.02	—	10.02
1982	—	—	10.92	8.05	7.38	6.03	17.25	10.76	4.50	9.65	9.65	—	9.65
1983	—	—	10.44	7.21	7.36	5.88	16.98	9.33	—	8.68	8.68	—	8.68
1984	—	—	10.27	7.36	7.06	5.86	17.63	9.02	—	8.58	8.58	—	8.58
1985	**—**	**—**	**9.99**	**7.05**	**6.53**	**[R] 8.63**	**17.61**	**8.87**	**4.01**	**8.25**	**8.25**	**—**	**8.25**
1986	—	—	8.41	6.77	4.56	[R] 7.75	15.59	6.72	—	6.84	6.84	—	6.84
1987	—	—	7.55	6.46	4.61	[R] 6.41	[R] 13.58	6.88	—	[R] 6.74	[R] 6.74	—	[R] 6.74
1988	—	—	7.41	6.48	4.62	[R] 6.40	[R] 14.62	6.84	—	6.72	6.72	—	6.72
1989	—	—	8.28	7.41	5.06	[R] 6.66	14.48	7.79	2.73	7.64	7.64	—	7.64
1990	**—**	**—**	**9.32**	**8.38**	**6.45**	**[R] 6.53**	**14.60**	**8.66**	**—**	**8.56**	**8.56**	**—**	**8.56**
1991	—	5.34	8.71	7.92	6.05	[R] 8.34	[R] 16.80	8.40	—	8.25	8.25	—	8.25
1992	—	5.43	8.54	7.97	5.88	[R] 6.63	[R] 18.32	8.73	—	[R] 8.43	[R] 8.43	—	[R] 8.43
1993	—	5.36	8.24	7.74	5.71	[R] 6.45	[R] 18.96	8.42	—	8.16	8.16	—	8.16
1994	—	4.37	7.96	7.59	5.29	[R] 7.86	[R] 19.11	8.65	—	8.20	8.20	—	8.20
1995	**—**	**5.02**	**8.36**	**7.75**	**5.33**	**7.68**	**19.40**	**8.68**	**—**	**8.24**	**8.24**	**—**	**8.24**
	Expenditures in Million Nominal Dollars												
1970	**(s)**	**—**	**2.8**	**23.4**	**0.5**	**0.4**	**2.6**	**81.0**	**1.6**	**112.3**	**112.4**	**—**	**112.4**
1971	(s)	—	2.9	28.0	0.6	0.6	2.9	83.4	0.7	119.0	119.0	—	119.0
1972	(s)	—	2.9	26.0	0.7	0.7	3.3	84.5	1.1	119.2	119.2	—	119.2
1973	(s)	—	3.1	32.3	0.9	0.7	3.1	103.6	1.2	144.8	144.8	—	144.8
1974	(s)	—	4.0	63.9	1.5	1.0	4.0	138.4	2.5	215.3	215.3	—	215.3
1975	**(s)**	**—**	**3.8**	**62.4**	**1.5**	**1.1**	**4.9**	**167.8**	**—**	**241.4**	**241.4**	**—**	**241.4**
1976	(s)	—	4.0	68.9	1.7	1.4	5.1	185.8	0.7	267.7	267.7	—	267.7
1977	(s)	—	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	2.9	2.3	7.4	242.5	(s)	364.5	364.5	—	364.5
1979	—	—	9.2	167.1	4.3	1.0	10.5	322.8	0.1	515.1	515.1	—	515.1
1980	**—**	**—**	**4.9**	**276.4**	**6.0**	**1.4**	**13.1**	**433.7**	**—**	**735.4**	**735.4**	**—**	**735.4**
1981	—	—	4.6	304.5	10.7	2.5	15.8	483.8	0.1	822.0	822.0	—	822.0
1982	—	—	3.3	236.8	8.9	2.8	13.8	436.0	0.2	701.8	701.8	—	701.8
1983	—	—	2.9	146.0	6.4	3.4	14.2	360.5	—	533.3	533.3	—	533.3
1984	—	—	3.0	151.4	6.3	1.3	15.7	377.2	—	554.9	554.9	—	554.9
1985	**—**	**—**	**2.6**	**176.1**	**5.6**	**1.4**	**14.6**	**329.4**	**(s)**	**[R] 529.7**	**[R] 529.7**	**—**	**[R] 529.7**
1986	—	—	2.1	154.0	3.7	[R] 1.5	12.7	230.3	—	[R] 404.3	[R] 404.3	—	[R] 404.3
1987	—	—	1.9	214.5	5.2	[R] 1.2	[R] 12.5	243.7	—	[R] 479.0	[R] 479.0	—	[R] 479.0
1988	—	—	2.0	255.6	5.0	1.2	12.9	248.0	—	[R] 524.8	[R] 524.8	—	[R] 524.8
1989	—	—	1.6	305.9	4.5	[R] 0.9	13.2	286.8	(s)	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	—	(s)	1.2	263.2	4.1	[R] 1.5	14.1	292.0	—	576.0	[R] 576.1	—	[R] 576.1
1992	—	0.1	1.1	287.3	5.0	[R] 0.7	[R] 15.6	314.8	—	[R] 624.4	[R] 624.5	—	[R] 624.5
1993	—	0.1	0.8	314.2	4.5	[R] 0.7	16.5	317.3	—	653.9	[R] 654.0	—	[R] 654.0
1994	—	0.1	1.3	303.0	4.5	[R] 1.1	17.4	330.0	—	657.3	[R] 657.3	—	[R] 657.3
1995	**—**	**0.1**	**7.6**	**389.4**	**4.7**	**0.5**	**17.3**	**341.1**	**—**	**760.6**	**760.7**	**—**	**760.7**

[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.

(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 316. Price and Expenditure Estimates for Energy Input at Electric Utilities by Source, 1970-1995, Wyoming

Year	Coal	Natural Gas	Petroleum: Heavy Oil	Petroleum: Light Oil	Petroleum: Petroleum Coke	Petroleum: Total	Nuclear Fuel	Biofuels	Total Energy [a]
	Prices in Nominal Dollars per Million Btu								
1970	**0.14**	**0.22**	**0.58**	**0.76**	**—**	**0.67**	**—**	**—**	**0.14**
1971	0.15	0.28	0.48	0.61	—	0.53	—	—	0.15
1972	0.17	0.36	0.79	1.05	—	0.85	—	—	0.18
1973	0.20	0.40	0.97	1.07	—	0.98	—	—	0.20
1974	0.23	1.11	1.79	2.34	—	1.80	—	—	0.25
1975	**0.25**	**0.94**	**1.99**	**2.44**	**—**	**2.01**	**—**	**—**	**0.26**
1976	0.29	2.29	2.11	2.50	—	2.13	—	—	0.30
1977	0.35	2.08	2.18	3.40	—	2.26	—	—	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**	**—**	**6.98**	**—**	**6.98**	**—**	**—**	**0.59**
1981	0.69	4.58	—	7.60	—	7.60	—	—	0.71
1982	0.79	5.16	—	7.22	—	7.22	—	—	0.80
1983	0.92	4.79	—	6.27	—	6.27	—	—	0.93
1984	0.96	5.11	—	6.37	—	6.37	—	—	0.98
1985	**0.92**	**4.33**	**—**	**6.00**	**—**	**6.00**	**—**	**—**	**0.93**
1986	0.92	3.80	—	3.87	—	3.87	—	—	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	3.48	—	4.15	—	4.15	—	—	0.85
1990	**0.84**	**3.15**	**—**	**5.27**	**—**	**5.27**	**—**	**—**	**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	5.61	—	4.45	—	4.45	—	—	0.81
1995	**0.82**	**7.98**	**—**	**4.45**	**—**	**4.45**	**—**	**—**	**0.83**
	Expenditures in Million Nominal Dollars								
1970	**8.3**	**0.5**	**(s)**	**0.1**	**—**	**0.1**	**—**	**—**	**8.9**
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	0.6	(s)	—	0.6	—	—	19.9
1974	23.2	0.6	1.2	(s)	—	1.2	—	—	25.0
1975	**28.4**	**0.4**	**1.4**	**0.1**	**—**	**1.5**	**—**	**—**	**30.3**
1976	45.4	1.1	1.7	0.1	—	1.8	—	—	48.4
1977	69.5	1.3	1.3	0.1	—	1.4	—	—	72.3
1978	73.9	1.5	2.0	0.3	—	2.3	—	—	77.7
1979	109.0	1.3	2.4	0.2	—	2.6	—	—	112.9
1980	**134.9**	**0.9**	**—**	**5.0**	**—**	**5.0**	**—**	**—**	**140.7**
1981	198.7	0.4	—	6.5	—	6.5	—	—	205.6
1982	239.8	0.6	—	4.8	—	4.8	—	—	245.2
1983	259.5	0.7	—	3.0	—	3.0	—	—	263.2
1984	313.1	0.5	—	4.5	—	4.5	—	—	318.1
1985	**340.7**	**0.6**	**—**	**5.0**	**—**	**5.0**	**—**	**—**	**346.3**
1986	280.2	0.5	—	2.8	—	2.8	—	—	283.5
1987	342.2	0.3	—	2.8	—	2.8	—	—	345.3
1988	346.6	0.7	—	2.7	—	2.7	—	—	350.0
1989	325.4	0.3	—	2.9	—	2.9	—	—	328.6
1990	**346.6**	**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
1995	**340.9**	**1.1**	**—**	**3.3**	**—**	**3.3**	**—**	**—**	**345.3**

[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.

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 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. States are often designated by the two-letter postal code abbreviations shown in the map legends. Throughout the documentation, the term "State" includes the District of Columbia.

Expenditures

Energy consumption estimates used to calculate expenditures in SEPEDS are taken from the Energy Information Administration (EIA) *State Energy Data Report 1995, Consumption Estimates,* DOE/EIA-0214(95), published in December 1997. 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

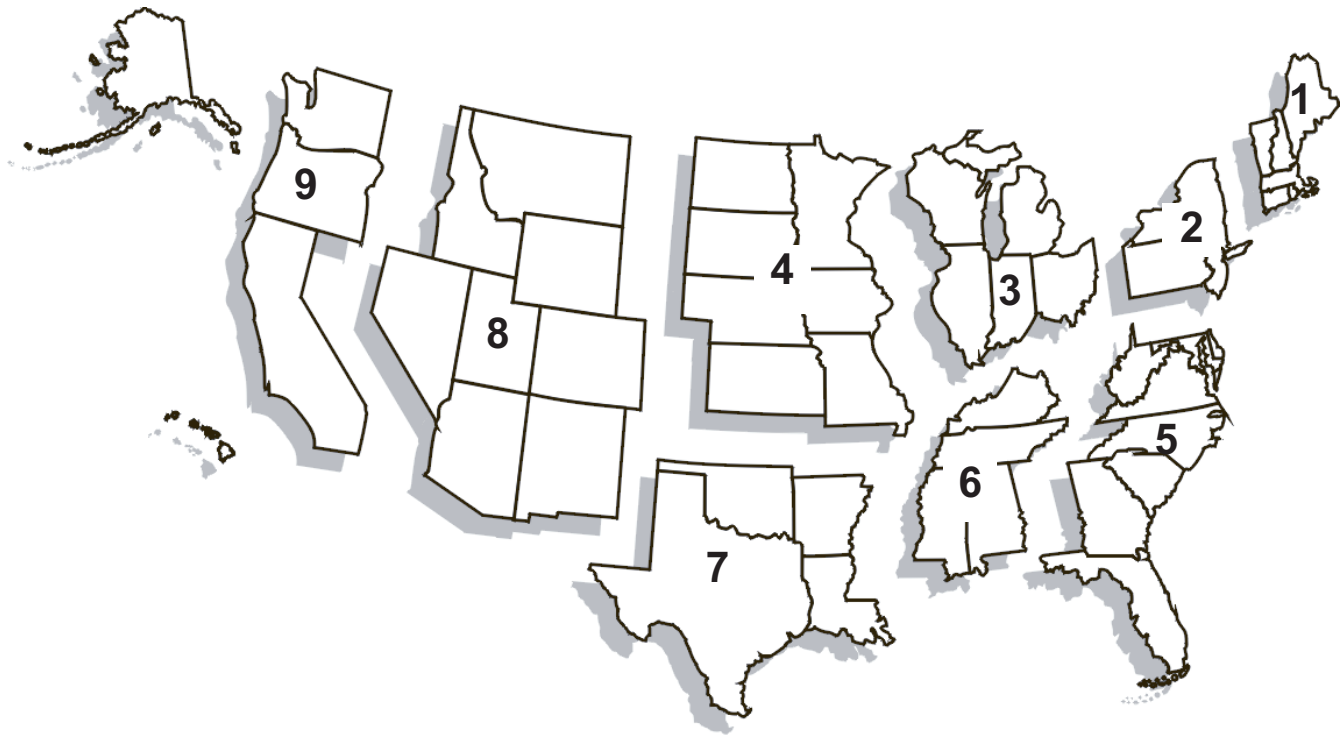
Aggregated prices shown in this report are the consumption-weighted averages of the various energy sources included in the aggregation. The SEPEDS calculation is performed by summing the expenditures for the energy sources and dividing by the sum of the corresponding consumption values. For example, 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)

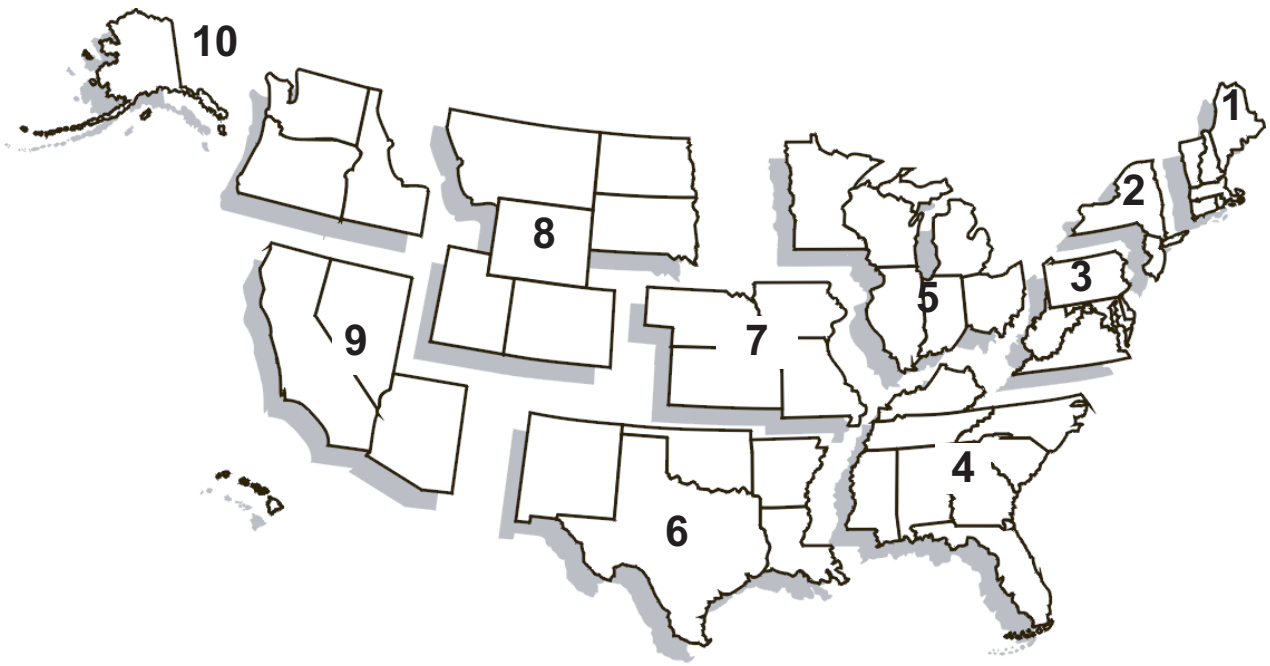
Division 7
(West South Central)
Arkansas (AR)
Louisiana (LA)
Oklahoma (OK)
Texas (TX)

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)

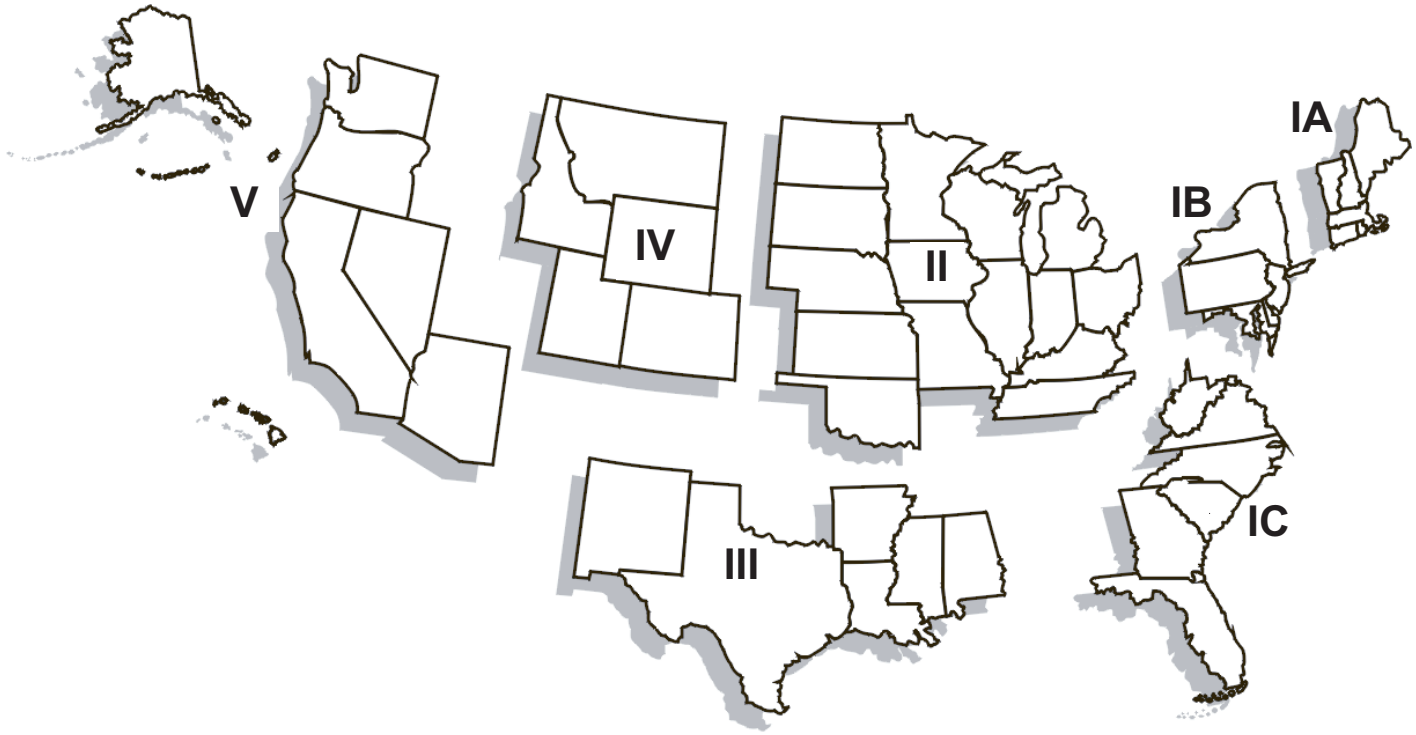
Region 7
Central
Iowa (IA)
Kansas (KS)
Missouri (MO)
Nebraska (NE)

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

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. Wherever 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), Table 39 (1992–1994), and Table 31 (1995).

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	1986–1995	IN
KY	1970–1987	KY, MO, TN, TX
	1988–1995	OH
MD	1970, 1971	MD, NJ, NY
	1983–1991, 1993	PA
MI	1979	MI, MN, WI
	1980–1985, 1987	MI, WI
	1988–1991, 1993–1995	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
	1983–1995	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
	1988–1995	IN
VA	1970, 1971, 1976, 1977	WV
	1978–1982	VA, WV
	1983–1986	KY
	1987–1995	OH
WI	1970–1978	MN, WI
	1979	MI, MN, WI
	1980–1985, 1987	MI, WI
WV	1978–1982	VA, WV
	1983–1986	KY
	1987–1995	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

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 411.)

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. Price estimates for Alaska are explained on page 335.

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, 1989	Pacific Contiguous
RI	1974	MA
VT	1980, 1983–1986, 1995	New England

Btu Prices: 1970 Through 1972

Btu prices for States are taken from the Edison Electric Institute's *Statistical Yearbook* and are converted from cents to dollars. Delaware, DC, and Maryland are each assigned the combined price for the three States. The steam coal electric utility sector Alaska price for 1971 is estimated as discussed below.

Alaska Prices: All Years

The Alaska prices for 1994 and 1995 are 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).

1994 and 1995: Alaska price estimated from informal discussions with Usibelli Coal Mine Co., the only coal supplier in Alaska.

1970–1993: 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 (1989–1993).

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

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, 1993–1995	MA
DC	1976–1995	MD
ID	1974, 1979–1982	NV
	1975–1977	SD
	1978	ND
	1983–1995	CO
MA	1975	VT
	1976–1979	NH
ME	1974, 1975, 1981, 1983	VT
	1976–1980, 1982	NH
	1984–1995	MA
MT	1974, 1975, 1978	ND
	1976, 1977	SD
	1979–1982	NV
ND	1976, 1977	SD
	1979–1995	MN
NH	1974, 1975, 1981, 1983	VT
	1984, 1985	MA
NV	1975–1978, 1983–1989, 1992, 1993, 1995	CO
RI	1974	CT
	1975	VT
	1976–1979	NH
	1980–1995	MA
SD	1978, 1984	ND
	1979–1983, 1986, 1987, 1989, 1991–1995	MN
UT	1975–1978, 1980, 1983	CO
	1979	NV
VT	1976, 1980	NH
	1984–1995	MA
WA	1970	OR
	1974–1978, 1983–1985	CO
	1979–1982	NV
WY	1974–1976, 1978, 1982, 1983, 1985	CO

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 and MT for some years result in a negative price when used in the regression; therefore MN spot prices are assigned to ND for use in the regression and the WY final price is assigned to MT as shown in Tables A3 and A4.

Price estimates for 1974 through 1978 for some States are not available because there was no consumption. To calculate prices for 1979

Table A4. Residential Sector Spot Coal Final Price Assignments, 1979 Forward

State	Years	State and Averaged Final Prices Assigned
AR	1980, 1982, 1984, 1985, 1987–1995	AL
	1981	MO, OK, TN, TX
	1983	MO, MS, OK, TN
AZ	1982, 1984, 1985	CA, NM, NV, UT
	1987, 1988, 1990–1995	UT
CA	1979–1985	NV
	1987–1995	WA
FL	1980–1995	GA
LA	1980, 1982, 1984, 1986, 1988, 1991, 199–1995	AL
MS	1979, 1980, 1983, 1984, 1986–1995	AL
	1985	AL, AR, TN
MT	1986–1995	WY
NM	1979–1995	CO
OK	1979–1995	CO
OR	1979, 1980, 1982–1995	WA
	1981	CA, ID, NV, WA
TX	1980–1982, 1985–1995	CO

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. AK residential coal prices are estimated by using a different methodology, described on page 337.

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.

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

Alaska Prices: All Years

The AK residential coal prices for 1994 and 1995 are 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. To estimate the AK price for each year that AK has consumption, the average ratio of AK-to-WA prices during 1970 through 1977 is applied to the WA price.

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 forward).

1994 and 1995: Alaska price estimated from informal discussions with Usibelli Coal Mine Co., the only coal supplier in Alaska.

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 1995, 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 prices in 1994 and 1995 are estimated from an informal survey of the single coal supplier in the State. U.S. Btu prices are calculated as the average of all States' Btu prices, weighted by consumption data from SEDS.

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 available quarterly prices weighted by their respective 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

Table A6. Commercial Sector Final Price Assignments

State	Years	State Prices Assigned
CT	1980	NY
DC	1980–1995	MD
NH	1994	MA
OK	1970	KS
RI	1982, 1983, 1991–1995	MA
VT	1993	NH
VT	1994, 1995	MA

Table A7. Industrial Sector Steam Coal Price Estimates, 1980 Forward

State	Years	Prices Used in the Estimation
AZ	1980	CA, UT
	1981, 1984, 1985	CA, CO, UT
CO	1980	KS, UT
CT	1981–1995	New England
DC	1980, 1981	MD
DE	1980–1995	MD
FL	1980	AL, GA
HI	1982–1995	CA
LA	1980–1985, 1989–1995	AR, TX
MA	1980–1983	NY
	1984–1995	New England
ME	1980–1983	NY
	1984–1995	New England
MS	1980–1995	AL, AR, TN
MT	1983, 1986–1995	ID, WY
	1984, 1985	ID
ND	1980–1982	MN, MT
	1983–1995	MN
NE	1980	IA, KS, MO
	1982, 1983, 1986–1995	CO, IA, KS, MO, WY
NH	1980–1983	NY
	1984–1995	New England
NJ	1980–1995	NY, PA
NM	1980	TX, UT
	1981, 1984–1988	CO, OK, TX
	1982, 1983	AZ, CO, OK, TX
	1989–1995	AZ, CO, TX
NV	1980, 1981, 1984, 1985	CA, ID, UT
	1983, 1986–1995	AZ, CA, ID, UT
OK	1980, 1989–1995	AR, KS, MO, TX
OR	1980, 1981, 1983–1995	CA, ID, WA
	1982	CA, ID, NV, WA
RI	1980, 1981	NY
	1984–1989, 1992–1995	New England
SD	1980	IA, MN, MT
	1981	IA, MN, MT, NE
	1982	IA, MN, MT, WY
	1983, 1986–1994	IA, MN, WY
	1984, 1985	IA, MN, NE
VT	1980–1983	NY
	1984–1995	New England
WV	1980	KY, MD, OH, PA, VA
WY	1980	ID, MT, UT
	1981	CO, ID, MT, NE, UT
	1984, 1985	CO, ID, NE, UT

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. Price estimates for Alaska are explained on page 341.

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.

Table A8. Industrial Sector Steam Coal Price Estimates for 1971 and 1974-1979

State	Years	State Prices Used in the Estimation
AR	1971, 1972, 1974, 1975	MO, TN
	1979	MO, TN, TX
AZ	1971	CA, NV, UT
	1974–1978	CA, UT
CO	1974–1978	KS, NE, UT
	1979	UT
CT	1974–1978	MA, NY
	1979	NY
DC	1971, 1974–1979	MD, VA
DE	1971, 1974–1979	MD, NJ, PA
FL	1979	AL, GA
ID	1974	OR, UT
	1975–1978	UT
	1979	UT, WA
KS	1979	MO
LA	1978	AR
	1979	TX
MA	1979	NY
ME	1975–1978	MA
	1979	NY
MS	1971, 1974, 1975, 1979	AL, TN
	1976–1978	AL, AR, TN
MT	1974–1978	MN, NE, UT
	1979	MN, UT
ND	1974–1979	MN
NE	1979	IA, MO
NH	1971, 1974–1979	MA
NM	1971	CO, OK, TX, UT
	1974, 1976–1978	KS, UT
	1979	UT
MT	1974–1978	MN, NE, UT
	1979	MN, UT
ND	1974–1979	MN
NE	1979	IA, MO
NH	1971, 1974–1979	MA
NM	1971	CO, OK, TX, UT
	1974, 1976–1978	KS, UT
	1979	UT
NV	1974	CA, OR, UT
	1975–1979	CA, UT
OK	1974, 1975	KS, MO
	1976–1978	AR, KS, MO
	1979	MO, TX
OR	1975–1978	CA
	1979	CA, WA
RI	1971, 1974–1978	MA
	1979	NY
SD	1971, 1974	IA
	1975–1978	IA, MN, NE
	1979	IA, MN
TX	1974, 1975	KS
	1976–1978	AR, KS
VT	1971, 1974–1978	MA
	1979	NY
WA	1974	CA, OR
	1975–1978	CA
WY	1974–1978	NE, UT
	1979	UT

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 that used the above regression techniques, prices are assigned from adjacent or nearby States, as shown in Table A10.

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

Physical Unit Prices: Alaska, All Years

There was no steam coal consumption reported in the AK industrial sector in 1995. 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 years with industrial steam coal use in1970 through 1992, the ratio of the AK price to the U.S. price in the electric utility sector is used for the estimation.

Table A10. Industrial Sector Price Assignments Used in the Regression Equation for 1971, and 1974-1979

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

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 all States' Btu prices, weighted by consumption data from SEDS, adjusted for process fuel and coking coal consumption.

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); Tables 40 and 41 (1992–1994, 1st through 4th quarters); and Tables 32 and 33 (1995, 1st through 4th quarters).

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 1995, 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.

Coal Coke, Imports and Exports

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 EM 545."

1981-1988: Energy Information Administration (EIA), *Quarterly Coal Report*, October-December issues, Tables A11 and A13 (1981-1985) and Tables A10 and A12 (1986-1988).

1980: EIA, *Coke Plant Report*, Tables 7 and 8.

1978-1979: EIA, *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: EIA, *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: EIA, 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 411.)

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 1996,* Table 23 (residential); Table 24

(commercial 1987-1992) and Table 25 (commercial, 1993 forward); and Table 27 (industrial 1987-1992) and Table 28 (industrial, 1993 forward).

1980-1986: Calculated from quantity and value data published in the Energy Information Administration, *Natural Gas Annual, Volume 1*, Table 11 (1980), Table 14 (1981-1985), and Table 15 (1986). Comparable price data are available in the *Historical Natural Gas Annual, 1930 Through 1996,* Table 23 (residential), Table 24 (commercial), and Table 27 (industrial).

1970-1979: Calculated from quantity and value data published in the Bureau of Mines, U.S. Department of the Interior, *Natural Gas Production and Consumption*, Table 6 (1970 and 1979) and Table 7 (1971-1978). Comparable price data are available in the *Historical Natural Gas Annual, 1930 Through 1996,* Table 23 (residential), Table 24 (commercial), and Table 27 (industrial).

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 1995 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 411. 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 for NE is assigned the SD price in 1992, 1993, and 1995; NV is assigned the AZ price in 1992 and 1993; and DE is assigned the MD price in 1994.

Data Sources

Prices

1990 forward: Energy Information Administration, *Historical Natural Gas Annual, 1930 Through 1996*, 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 1995, 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

Table A11. Natural Gas Electric Utility Sector Prices from *NGA*, 1973 Forward

State	Years
AK	1973–1990
CT	1974–1976
ID	1983–1986
MD	1973, 1974, 1983–1985
NC	1983–1990
ND	1973, 1974, 1976–1986
NH	1973, 1974, 1977, 1987–1989
PA	1973
RI	1976, 1980
SC	1977
SD	1983–1990
TN	1976, 1980, 1981, 1983, 1988–1995
UT	1988, 1989
VT	1983–1985, 1989, 1990
WA	1978, 1983–1985, 1988, 1989
WY	1973, 1975

Note: *NGA* includes predecessor publications.

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 in 1973; ID in 1974, 1987; NH in 1983; and OR in 1983, 1984, 1986, 1989, 1990. In these cases, quantity-weighted Census division prices from *C&Q* are assigned. In addition, prices for VT in 1986 and WA in 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 price in 1977 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 for 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 shown in Table A12.

1990 forward: Energy Information Administration, *Historical Natural Gas Annual 1930 Through 1996,* Table 31.

1980-1989: Energy Information Administration, *Natural Gas Annual 1992, Volume 2*, Table 23.

Table A12. Tables from EIA *Cost and Quality of Fuels for Electric Utility Plants* Used as Data Sources

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 12 (*1994* edition)	-
1992 forward	Table 12 (*1996* edition)	-

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 1995, Consumption Estimates*, Tables D2 and D3.

Section 4. Petroleum

Asphalt and Road Oil

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 87 percent in 1995), 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. An outlier data value for Minneapolis in June 1995 was omitted and the MN price for 1995 is an 11-month average. States with no prices are assigned a Census division simple average price. If there is no Census division price, the simple average of the prices for the other Census divisions within that Census region is used.

State average asphalt prices are calculated as the quantity-weighted average prices of the three products for each State. 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, and 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.*

1977-1980: Energy Information Administration, Energy Data Reports, *Sales of Asphalt* (1978-1980) and *Asphalt Sales, Annual* (1977), Table 2.

1970-1976: Bureau of Mines, U.S. Department of the Interior, Mineral Industry Survey, *Asphalt Sales, Annual* (1971-1976) and *Asphalt Shipments, Annual* (1970), 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

Aviation gasoline prices are developed for the transportation sector. Estimates of the amount of aviation gasoline consumed by the transportation sector are taken from the State Energy Data System (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 1996,* 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

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 411.)

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 forward, 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 A13.

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 (described below) and the 1991 *PMA* Petroleum Administration for Defense (PAD) district prices. The estimation procedures, including the addition of State general sales taxes, are described below.

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

Table A13. Distillate Residential Sector Price Assignments, 1983–1990, 1992 Forward

State	Years	Prices Assigned
AR	1988, 1993–1995	PAD District III
AZ	1992–1995	PAD District V
CA	1984, 1992–1995	PAD District V
FL	1993	PAD District IC
HI	1983–1990, 1992–1995	PAD District V
IL	1986	PAD District II
KS	1986, 1989	PAD District II
LA	1986	PAD District III
MS	1983, 1985, 1986, 1995	PAD District III
MT	1994, 1995	PAD District IV
ND	1994, 1995	PAD District II
NM	1984–1990, 1992–1995	PAD District III
NV	1994, 1995	PAD District V
OK	1986, 1989, 1990, 1992, 1993, 1995	PAD District II
SD	1986	PAD District II
TX	1992–1995	PAD District III
UT	1985, 1995	PAD District IV
WY	1994	PAD District IV

prices are either taken directly from the *Monthly Energy Review (MER)* or 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 A14. 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 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.

Table A14. Platt's Prices for No. 2 Fuel Assigned to States, 1970–1982

State	Years	Assigned City or State Prices
AK	1970–1976	Los Angeles/San Francisco, CA
	1977, 1978	Portland, OR
	1979, 1980	Seattle, WA
	1981, 1982	Seattle-Tacoma/Spokane, WA
AL	1970–1974	Birmingham/Mobile/Montgomery
	1975–1977	Mobile/Birmingham
	1978–1982	Birmingham
AR	1970–1982	Arkansas
AZ	1970–1978	Los Angeles/San Francisco, CA
	1979–1982	Phoenix
CA	1970–1982	Los Angeles/San Francisco
CO	1970–1976	Minneapolis-St. Paul, MN
	1977–1982	Denver
CT	1970–1982	New Haven
DC	1970–1982	Baltimore, MD
DE	1970–1982	Baltimore, MD
FL	1970–1972	Jacksonville/Miami/Tampa/Pensacola/Panama City/Port Everglades
	1973	Miami/Tampa/Pensacola
	1974-1975, 1981–1982	Miami/Tampa
	1976–1980	Miami
GA	1970–1973	Atlanta/Savannah/Albany/Athens/Bainbridge/Columbus/-Macon
	1974–1982	Atlanta/Savannah
HI	1970–1982	Los Angeles/San Francisco, CA
IA	1970–1981	Chicago, IL
	1982	Des Moines
ID	1970–1976	Los Angeles/San Francisco, CA
	1977–1982	Portland, OR
IL	1970–1982	Chicago
IN	1970–1982	Chicago, IL
KS	1970–1973	Los Angeles/San Francisco, CA
	1974–1982	St. Louis, MO
KY	1970	Baton Rouge/New Orleans, LA
	1971–1982	New Orleans, LA
LA	1970	Baton Rouge/New Orleans
	1971–1982	New Orleans
MA	1970–1982	Boston
MD	1970–1982	Baltimore
ME	1970–1982	Portland
MI	1970–1982	Detroit
MN	1970–1982	Minneapolis-St. Paul
MO	1970	Baton Rouge/New Orleans, LA
	1971–1973	New Orleans, LA
	1974–1982	St. Louis
MS	1970–1973	Greenville/Meridian
	1974–1982	New Orleans, LA
MT	1970–1976	Minneapolis-St. Paul, MN
	1977–1982	Billings
NC	1970–1973	Greensboro/Wilmington/Charlotte/Salisbury/Selma
	1974–1975	Greensboro/Wilmington/Charlotte
	1976–1982	Greensboro/Wilmington
ND	1970–1982	Minneapolis-St. Paul, MN
NE	1970	Baton Rouge/New Orleans, LA
	1971–1973	New Orleans, LA
	1974–1982	St. Louis, MO
NH	1970–1982	Portland, ME
NJ	1970–1975	New York/Albany/Buffalo, NY
	1976–1982	New York/Albany, NY
NM	1970–1972	New Mexico-West Texas
	1973–1976	Los Angeles/San Francisco, CA
	1977–1980	Albuquerque
	1981, 1982	Albuquerque/Farmington
NV	1970–1982	Los Angeles/San Francisco, CA
NY	1970–1975	New York/Albany/Buffalo
	1976–1982	New York/Albany
OH	1970–1972	Toledo/Cleveland/Zanesville/Columbus/Dayton
	1973–1982	Detroit, MI
OK	1970–1982	Oklahoma (Group 3)
OR	1970–1976	Los Angeles/San Francisco, CA
	1977–1982	Portland
PA	1970–1978	Philadelphia
	1979–1982	Philadelphia/Pittsburgh
RI	1970–1975	Providence
	1976–1982	New Haven, CT
SC	1970–1975	Charleston/Spartanburg/Belton
	1976–1982	Charleston/Spartanburg
SD	1970–1982	Minneapolis-St. Paul, MN
TN	1970–1973	Chattanooga
	1974–1982	New Orleans, LA
TX	1970–1972	New Mexico-West Texas
	1973–1978	New Orleans, LA
	1979, 1980	Houston
	1981	Dallas-Fort Worth/Houston
	1982	Amarillo/Corpus Christi/Dallas-Fort Worth/Houston
UT	1970–1976	Minneapolis-St. Paul, MN
	1977–1982	Salt Lake City
VA	1970–1973	Norfolk/Roanoke
	1974–1982	Norfolk
VT	1970–1982	Portland, ME
WA	1970–1976	Los Angeles/San Francisco, CA
	1977, 1979, 1980	Seattle
	1978	Portland, OR
	1981–1982	Seattle-Tacoma/Spokane
WI	1970–1982	Chicago, IL
WV	1970–1973	Norfolk/Roanoke, VA
	1974–1982	Norfolk, VA
WY	1970–1976	Minneapolis-St. Paul, MN
	1977–1982	Cheyenne

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 A14. 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 A14. 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 forward), column titled "To Residential Consumers." Data series are also available on the EIA *Energy InfoDisc,* a CD-ROM product. See box on page 402 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

1995: The Council of State Governments, *The Book of the States, 1994–95*, Table 6.21.

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 Annual (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 Fostor Associates, Inc. *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 A15. State general sales taxes are then added.

Table A15. Distillate Commercial Sector Price Assignments, 1983 Forward

State	Years	Prices Assigned
AL	1983–1995	PAD District III
AR	1983–1995	PAD District III
AZ	1983–1995	PAD District V
CA	1983–1995	PAD District V
CO	1983–1995	PAD District IV
FL	1983–1995	PAD District IC
GA	1983–1995	PAD District IC
HI	1983–1995	PAD District V
IA	1983–1995	PAD District II
KS	1983–1995	PAD District II
KY	1983–1995	PAD District II
LA	1983–1995	PAD District III
MO	1983–1995	PAD District II
MS	1983–1995	PAD District III
MT	1983–1995	PAD District IV
NC	1983–1995	PAD District IC
ND	1983–1995	PAD District II
NE	1983–1995	PAD District II
NM	1983–1995	PAD District III
NV	1983–1995	PAD District V
OK	1983–1995	PAD District II
SC	1983–1995	PAD District IC
SD	1983–1995	PAD District II
TN	1983–1995	PAD District II
TX	1983–1995	PAD District III
UT	1983–1995	PAD District IV
WY	1983–1995	PAD District IV

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 A14 on page 352) and the markup of the residential prices calculated above for 1970 through 1972 over the *Platt's* prices is calculated.

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 A16.

5. To translate the average commercial and residential markups for 1970 through 1972 into the estimated commercial sector retail 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

Table A16. 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

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 402 for instructions for locating the data series on the *InfoDisc*. Data are also published in the EIA's *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 forward), 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

1995: The Council of State Governments, *The Book of the States 1994–95*, Table 6.21.

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 the EIA's *Cost and Quality of Fuels for Electric Utility Plants*; for 1970 through 1972, prices from Edison Electric Institute's *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 A17.

The *C&Q* does not have prices for AK in 1973 forward or HI in 1973 through 1982 and 1992 forward. Prices for AK and HI in 1994 and 1995 are estimated as the simple averages of prices reported to EIA by selected utilities on FERC Form 1 and Form EIA-412 and to the AK State government.

Table A17. Distillate Electric Utility Census Division Price Assignments from *C&Q*, 1973 Forward

State	Years	Census Division
CA	1983–1985, 1987, 1988, 1990–1992, 1995	Pacific
CT	1973	New England
DC	1973	South Atlantic
DE	1973	South Atlantic
ID	1973, 1974, 1976, 1980–1995	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, 1995	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

Prior to 1994, 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, and 1978 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.

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).

1994 forward: Energy Information Administration, unpublished prices reported by utilities in AK and HI on FERC Form 1, "Annual Report of Major Electric Utilities, Licensees, and Others," and Form EIA-412, "Annual Report of Public Electric Utilities."

1970 through 1993: Edison Electric Institute, *Statistical Yearbook of the Electric Utility Industry*, table titled, "Analysis of Fuel for Electric Generation-Total Electric Utility Industry" (1970-1988) and table titled, "Fossil Fuels Used for Electric Generation Total Electric Utility Industry" (1990-1993).

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 A18. State general sales taxes are then added.

Table A18. Distillate Industrial Sector PADD Price Assignments, 1983 Forward

State	Years	Prices Assigned
AL	1983–1995	PAD District III
AR	1983–1995	PAD District III
AZ	1983–1995	PAD District V
CA	1983–1995	PAD District V
CO	1983–1995	PAD District IV
DC	1994, 1995	PAD District IB
FL	1983–1995	PAD District IC
GA	1983–1995	PAD District IC
HI	1983–1995	PAD District V
IA	1983–1995	PAD District II
KS	1983–1995	PAD District II
KY	1983–1995	PAD District II
LA	1983–1995	PAD District III
MO	1983–1995	PAD District II
MS	1983–1995	PAD District III
MT	1983–1995	PAD District IV
NC	1983–1995	PAD District IC
ND	1983–1995	PAD District II
NE	1983–1995	PAD District II
NM	1983–1995	PAD District III
NV	1983–1995	PAD District V
NY	1987	PAD District IB
OH	1983	PAD District II
OK	1983–1995	PAD District II
SC	1983–1995	PAD District IC
SD	1983–1995	PAD District II
TN	1983–1995	PAD District II
TX	1983–1995	PAD District III
UT	1983–1995	PAD District IV
WY	1983–1995	PAD District IV

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 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 A19.

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 A14 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 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.

Table A19. Distillate Industrial Sector Price Assignments, 1974-1981

State	Years	State Prices Used
HI	1979–1981	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

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 402 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 forward), 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

1995: The Council of State Governments, *The Book of the States 1994–95*, Table 6.21.

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 82 percent in 1995—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's *Highway Statistics* to weight monthly or quarterly prices from the U.S. Department of Agriculture's *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. The District of Columbia has no published diesel fuel or motor gasoline prices and is assigned the Maryland motor gasoline price for 1991 forward. 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. The 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 regional 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 forward), 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 forward), 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 (1989-1993), column titled "Motor Gasoline Average, Through Company Outlets," and Table 31 (1994 forward), 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.

1970-1985: Federal Highway Administration, U.S. Department of Transportation, *Highway Statistics*, 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.

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.

Consumption

1970 forward: Energy Information Administration, State Energy Data System, transportation sector distillate consumption.

Conversion Factor: All Years

5.825 million Btu per barrel

Heavy Oil (Electric Utilities)

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

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 99 percent of all jet fuel in 1995) and naphtha-type (used primarily by military aircraft and accounting for the remaining 1 percent in 1995). 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

Table A20. Jet Fuel Transportation Sector Price Assignments, 1983 Forward

State	Years	PAD District or State Prices Assigned
DC	1983–1988, 1990, 1993, 1995	MD
DE	1987	PAD Subdistrict IB
ME	1985, 1990, 1991, 1993–1995	PAD Subdistrict IA
NH	1987, 1995	PAD Subdistrict IA
RI	1983–-1988	PAD Subdistrict IA
VT	1984–1988, 1991, 1992	PAD Subdistrict IA
WV	1993–1995	PAD Subdistrict IC

users are available for most States. Prices are converted to dollars per gallon. States without prices are assigned adjacent State or PAD subdistrict prices, as shown in Table A20.

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 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 forward).

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 402 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 the U.S. Department of Agriculture's *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

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 discontinued 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 ratio of the current year to previous year residential distillate fuel prices 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 and DC for 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) for the current and previous year and residential sector kerosene price estimates (in physical units) for the previous year are 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 forward, 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

In 1985, the Bureau of Labor Statistics discontinued the *Producer Prices and Price Indexes (PPI)* data series that is used to estimate State Energy Price and Expenditure Data System industrial kerosene prices for 1970 through 1984. The method used to estimate industrial 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. Industrial kerosene prices for 1985 forward are estimated by applying the ratio of the current year to previous year industrial distillate fuel prices to the industrial 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: 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) for the current and previous year and the industrial sector kerosene price estimates (in physical units) for the previous year are 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 (Electric Utilities)

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 Gases

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 411.)

Residential Sector

For 1994 forward, residential sector LPG prices are derived by EIA from unpublished data collected on Forms EIA-782A and EIA-782B. Physical unit prices are in cents per gallon and taxes are added. Btu prices are then calculated using the physical unit prices and Btu conversion factors. For 1973 through 1993, residential sector LPG prices in dollars per million Btu are the average reported prices of propane delivered to residential consumers in areas where natural gas is available as a competing fuel as reported by natural gas suppliers to the American Gas Association. For 1970 through 1972, physical unit prices from the U.S. Deparment of Agriculture are calculated first and Btu prices are calculated by using the physical unit prices and Btu conversion factors. Taxes are included in the prices for 1970 through 1993. Prices for AK and HI in 1970 through 1993 are estimated by a different methodology described in a separate section on page 371.

Prices: 1994 Forward

Residential LPG prices are estimated in cents per gallon by using data collected on Forms EIA-782A and EIA-782B. No price is reported for DC and it is assigned the average price of MD and VA. State general sales taxes are added and the prices are converted to dollars per barrel (42 gallons per barrel). The prices are converted to dollars per million Btu by using the factors shown in Table A23 on page 372.

Btu Prices: 1973 Through 1990, 1992, and 1993

Propane prices by company are reported by the American Gas Association (AGA) directly in dollars per million Btu, including taxes. The simple average of available company 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; Fitchburg Gas & Electric and Commonwealth Gas Co for MA in 1993; and Providence Gas Co. for RI in 1993.

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 A21. 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-user 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-user price. For 1990, the PAD District I end-user-to-resale ratio is multiplied by the PAD Subdistricts IA and IB resale prices to estimate an end-user price for those Subdistricts. For 1991, the PAD Subdistrict IB end-user-to-resale ratio is multiplied by the PAD Subdistrict IA resale prices to estimate an end-user price. For both years, the U.S. end-user-to-resale price ratio is applied to the PAD District V resale price to estimate a PAD District V end-user price.

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.

Table A21. LPG Residential Sector Price Assignments, 1973–1993

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	MA, NH, VT
MO	1986	IA, IL, KS
ND	1973	MN, MT, SD
NM	1987, 1988	AZ, CO, UT
NV	1973, 1975	AZ, CA, ID, OR, UT, WY
OR	1976	CA, ID, NV, WA
SD	1986	MN, MT, ND
UT	1974, 1978, 1985, 1993	AZ, CO, ID, NV, WY
VT	1979	MA, NH, NY
WV	1992	KY, MD, OH, PA, VA

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 U.S. Department of Agriculture's *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 this page.

   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 (taken from the *Petroleum Products Handbook*) and dividing by 100.

   d. Missing prices use adjacent States' average prices as shown in Table A22.

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.

Btu Prices: 1970 Through 1972

For 1970 through 1972, Btu prices for States are calculated by converting the physical unit prices by using the factors cited in Table A23 on page 372. U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

Alaska and Hawaii Prices: 1970 Through 1993

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 through 1993.

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 through 1993.

Table A22. 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

Data Sources

Prices

1994 forward: Energy Information Administration, Forms EIA-782A "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B "Resellers'/Retailers' Monthly Petroleum Product Sales Report."

1971–1990, 1992, 1993: American Gas Association (AGA), *Gas Househeating Survey* (1971-1988), *Residential Gas Market Survey* (1989 and 1990), and *Residential Natural Gas Market Survey* (1992, 1993), 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, 1994 forward: Energy Information Administration, *State Energy Data Report 1995, Consumption Estimates,* Table D1, as shown in Table A23.

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 cents per gallon in the EIA's, *Petroleum Marketing Annual*. PADD prices are assigned to all States within each PADD, general State sales taxes are added, and the prices are converted to dollars per million Btu.

For 1970 through 1993, State LPG prices from the industrial sector are assigned to the commercial sector.

Data Sources

Prices

1994 forward: Energy Information Administration, *Petroleum Marketing Annual,* Table 38, column titled, "Commercial/Institutional Consumers."

Table A23. 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	1995	3.623
1976	3.711	1986	3.640		
1977	3.677	1987	3.659		
1978	3.669	1988	3.652		
1979	3.680	1989	3.683		

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 forward: Energy Information Administration, *State Energy Data Report 1994, Consumption Estimates,* Table D1, as shown in Table A23.

Industrial Sector

The industrial sector LPG prices are estimated as the average of LPG prices to industrial customers, petrochemicals, and other end users; to manufacturing firms; 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 all industrial sector prices.

Physical Unit Prices: 1994 Forward

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 and State general sales taxes are added. In 1994, 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. In 1995, withheld prices for petrochemicals in PAD Subdistrict IC and PAD II are assigned the U.S. average 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 and State general sales taxes are added. Where prices are not available, the PAD district price is assigned to the State, as shown in Table A24 on page374. 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 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 district prices used in the estimations are shown in Table A25 on page 374.

Table A24. LPG Industrial Sector PAD District Price Assignments, 1985–1993

State	Years	PAD Assignments
AK	1986–1988, 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	1986–1993	Subdistrict IB
FL	1990–1993	Subdistrict IC
GA	1985, 1990–1993	Subdistrict IC
HI	1985–1993	District V
IA	1986, 1991–1993	District II
ID	1986, 1990–1993	District IV
IN	1990	District II
KS	1986–1989, 1992	District II
MA	1986, 1990–1993	Subdistrict IA
MD	1988, 1990–1993	Subdistrict IB
ME	1986–1993	Subdistrict IA
MI	1985–1988, 1990	District II
MN	1985, 1986, 1988–1991, 1993	District II
MS	1990–1993	District III
MT	1990–1993	District IV
NC	1991, 1992	Subdistrict IC
ND	1985, 1986, 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	1986, 1990–1993	District V
PA	1990–1993	Subdistrict IB
RI	1986–1993	Subdistrict IA
SC	1992	Subdistrict IC
SD	1985–1993	District II
TN	1990–1993	District II
UT	1986–1988, 1990–1993	District IV
VT	1986–1993	Subdistrict IA
WA	1986–1993	District V
WI	1985, 1986, 1990	District II
WV	1989–1993	Subdistrict IC
WY	1987, 1988	District IV

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* 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.

Table A25. LPG Industrial Sector, PAD District Price Estimates, 1990–1993

Year	Missing PAD Prices	Prices Used in Estimation
1990	Subdistrict IA	PAD District I
	Subdistrict IB	PAD District I
	District V	U.S.
1991	Subdistrict IA	PAD Subdistrict IB
	District V	U.S.
1992	Subdistrict IA	PAD Subdistrict IC
	Subdistrict IB	PAD Subdistrict IC
1993	Subdistrict IA	PAD Subdistrict IC
	Subdistrict IB	PAD Subdistrict IC

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 A26.

   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, the prices are converted to dollars per gallon. The conversion factor of 4.5 pounds per gallon is from *ASM/CM*.

Table A26. 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

2. 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 A27.

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 A23 on page 372. 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 forward: 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."

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.

Table A27. 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

Consumption

1994 forward: Energy Information Administration, unpublished volume data collected on Form EIA-782B for consumption-weighted average price calculations.

1970 forward: 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 A23.

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, State general sales taxes are added, and the prices are converted to dollars per million Btu.

For 1970 through 1993, State prices from the industrial sector are assigned to the transportation sector.

Data Sources

Prices

1994 forward: Energy Information Administration, *Petroleum Marketing Annual,* Table 38, column titled, "Through Retail Outlets."

Consumption

1970 forward: Energy Information Administration, State Energy Data System, transportation sector LPG consumption.

Conversion Factors

1994 forward: Energy Information Administration, *State Energy Data Report 1994, Consumption Estimates,* Table D1, as shown in Table A23 on page 372.

1970-1993: Btu prices are assigned from the industrial sector.

Lubricants

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 SIC 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* (for 1972, 1977, and 1982) or the *Annual Survey of Manufactures* (for all other years) by the estimated shipments for each product category. The shipment prices are assumed to represent wholesale prices.

End-user prices in dollars per barrel are estimated by multiplying the shipment (wholesale) 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* (SIC 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* (SIC 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

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 are assigned PAD District prices from the *Petroleum Marketing Annual (PMA),* except for prices for certain States and years, as noted in Table A28, 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 the U.S. Department of Transportation's *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 A28 on page 379) 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

Table A28. Motor Gasoline Price Assignments, 1983 Forward

State	Years	Source
AK	1983–1986	*CPI*
CT	1989–1995	*PMA*, PAD Subdistrict IA
DC	1983–1995	*CPI*
DE	1991–1993	*PMA*, PAD Subdistrict IB
HI	1983–1986	*CPI*
	1987–1990	See text
ID	1993, 1994	*PMA*, PAD District IV
MD	1985–1995	*CPI* (Baltimore)
ME	1985–1988, 1990–1995	*PMA*, PAD Subdistrict IA
MT	1991–1995	*PMA*, PAD Subdistrict IV
NH	1995	PMA, PAD Subdistrict IA
SD	1987, 1991, 1992	*PMA*, PAD District II
VT	1989–1995	*PMA*, PAD Subdistrict IA
WY	1985	*PMA*, PAD District IV

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.

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 A29 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.

Table A29. Summary of Motor Gasoline Price Data by Year, 1970-1982

Years	Source	Grades Covered	Composite Price	Missing States All Sources
1982	*Platt's*	leaded	no	none
		unleaded	no	
	CPI	leaded regular	yes	
		leaded premium	yes	
		unleaded regular	yes	
1979–1981	*Platt's*	leaded regular	no	AR, DE, ME, MS,
		leaded premium	no	MT, ND, NH, OK,
		unleaded regular	no	RI, SC, SD, VT,
		unleaded premium	no	WV, WY
	CPI	leaded regular	yes	
		leaded premium	yes	
		unleaded regular	yes	
1978	*Platt's*	leaded regular	no	none
	CPI	leaded regular	yes	
		leaded premium	yes	
		unleaded regular	yes	
1976, 1977	*Platt's*	leaded regular	no	AK
	CPI	leaded regular	no	
		leaded premium	no	
		unleaded regular	no	
1974, 1975	*Platt's*	leaded regular	no	AK
	CPI	leaded regular	no	
		leaded premium	no	
1970–1973	*Platt's*	leaded regular	no	AK, HI

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 A30 on page 380. 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 and include 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).

Table A30. 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.

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.

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.

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 A30. *Platt's* city price assignments to States for 1979 through 1981 are shown in Table A31.

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.

Table A31. 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

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* 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 A32. 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 A30 on page 380. 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 A30 and Table A32 on page 383. Price observations are combined by using

Table A32. 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

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 A32 for *Platt's* and in Table A33 for the *CPI*. Prices 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.

Table A33. 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.

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.

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 A33 on page 384. For 1974 and 1975, *CPI* prices are reported separately for leaded regular and leaded premium motor gasoline. According to the April 1986 *CPI Detailed Report*, 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 respective States, as shown in Table A32 and Table A33. 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 A29, 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 A32.

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 and 1995), 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 and 1995).

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 (Utilities)

Petroleum coke is consumed by the electric utility and industrial sectors. The portion of petroleum coke consumed by the industrial sector (97 percent in 1995) 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 of 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 A34. 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.

Table A34. 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

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.

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

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 "Consumption Adjustments for Calculating Expenditures" section on page 411.)

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 A35 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 megawatts capacity or greater. For 1980 through 1982, *C&Q* prices cover all reporting plants of 25 megawatts capacity or greater.

The *C&Q* does not have prices for AK in 1973 forward or HI in 1973 through 1982. 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, and 1978 are not published in the *Statistical Yearbook* and

Table A35. Residual Fuel Electric Utility Census Division Price Assignments, 1970 Forward

State	Years of Assigned Prices	Census Division
AL	1975–1979	East South Central
AR	1987, 1992, 1993, 1995	West South Central
AZ	1984, 1985, 1991–1995	Mountain
CO	1982, 1987, 1989–1992, 1994, 1995	Mountain
DC	1982–1995	South Atlantic
GA	1991	South Atlantic
IA	1970–1985	West North Central
IN	1970–1979	East North Central
KS	1980, 1981, 1985–1987, 1989–1992, 1995	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, 1989–1995	Mountain
NV	1983, 1985	Mountain
OH	1992–1994	East North Central
OK	1977, 1978, 1980, 1982–1987, 1989, 1991–1995	West South Central
OR	1970, 1973, 1974	Pacific
RI	1995	New England
SC	1983, 1985–1995	South Atlantic
SD	1981–1988	West North Central
TN	1979	East South Central
TX	1992–1995	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

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. Beginning with 1994 data, the *Statistical Yearbook* table was discontinued. Alaska prices for 1994 forward are obtained from the only Alaskan utility reporting use of residual fuel.

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).

1994 forward: Alaska prices are obtained by phone from the Golden Valley Electric Association.

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 (1987–1993).

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, with the exception of Alaskan prices for 1994 forward, which use 6.287 million Btu per barrel.

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 A36, 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 A37). 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 A37) 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 *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 A38.

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 A37). 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 1970, 1972, and 1973 to estimate prices. The final estimates implicitly include State-specific taxes.

Table A36. Residual Fuel Industrial Sector Price Assignments, 1984 Forward

State	Years	PAD District Prices Assigned
AL	1995	PAD District III
AR	1985	PAD District III
AZ	1984–1993, 1995	PAD District V
CO	1986, 1988, 1990–1995	PAD District IV
DC	1994, 1995	PAD Subdistrict IB
IA	1995	PAD District II
ID	1985, 1986, 1989–1992, 1994, 1995	PAD District IV
MN	1995	PAD District II
MO	1995	PAD District II
MS	1988, 1991, 1992, 1995	PAD District III
MT	1992, 1994, 1995	PAD District IV
ND	1988–1992, 1995	PAD District II
NE	1995	PAD District II
NM	1984–1986, 1990–1995	PAD District III
NV	1986, 1988, 1991–1995	PAD District V
OK	1992–1995	PAD District II
OR	1989	PAD District V
SC	1993–1995	PAD Subdistrict IC
SD	1990–1995	PAD District II
TN	1995	PAD District II
UT	1989–1992	PAD District IV
WI	1994, 1995	PAD District II
WV	1984	PAD Subdistrict IC
WY	1989–1995	PAD District IV

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.

Table A37. No. 6 Fuel Oil Price Assignments from Platt's, 1970-1983

State	Years	City or State Prices Assigned
AK	1970–1972, 1975, 1977–1980	Los Angeles, CA
	1973–1974, 1976	Los Angeles/San Francisco, CA
	1981–1983	Los Angeles, CA; San Francisco, CA
AL	1970–1983	Savannah, GA
AR	1970–1983	Arkansas
AZ	1970–1972, 1975, 1977–1980	Los Angeles, CA
	1973–1974, 1976	Los Angeles/San Francisco
	1981–1983	Los Angeles, CA; San Francisco, CA
CA	1970–1972, 1975, 1977–1980	Los Angeles
	1973–1974, 1976	Los Angeles/San Francisco
	1981–1983	Los Angeles; San Francisco
CO[1]	1970–1983	Minneapolis/St. Paul, MN
CT	1970–1983	New Haven
DC	1970–1983	Baltimore, MD
DE	1970–1983	Baltimore, MD
FL	1970–1972	Jacksonville; Miami; Tampa; Port Everglades
	1973–1975	Jacksonville; Miami; Tampa
	1976–1983	Jacksonville/Miami
GA	1970–1983	Savannah
HI	1970–1972, 1975, 1977–1980	Los Angeles, CA
	1973, 1974, 1976	Los Angeles/San Francisco, CA
	1981–1983	Los Angeles, CA; San Francisco, CA
IA[1]	1970–1983	Chicago, IL
ID	1970–1972, 1975, 1977–1980	Los Angeles, CA
	1973, 1974, 1976	Los Angeles/San Francisco, CA
	1981–1983	Los Angeles, CA; San Francisco, CA
IL[1]	1970–1983	Chicago
IN[1]	1970–1983	Chicago, IL
KS	1970	Baton Rouge, LA; New Orleans, LA
	1971–1983	New Orleans, LA
KY	1970	Baton Rouge, LA; New Orleans, LA
	1971–1983	New Orleans, LA
LA	1970	Baton Rouge; New Orleans
	1971–1983	New Orleans
MA	1970–1983	Boston
MD	1970–1983	Baltimore
ME	1970–1983	Portland
MI[1]	1970–1983	Detroit
MN[1]	1970–1983	Minneapolis/St. Paul
MO[1]	1970–1973	Chicago, IL
	1974–1983	St. Louis
MS	1970	Baton Rouge, LA; New Orleans, LA
	1971–1983	New Orleans, LA
MT	1970–1983	Minneapolis/St. Paul, MN
NC	1970–1983	Wilmington
ND[1]	1970–1983	Minneapolis/St. Paul, MN
NE	1970–1972, 1975, 1977–1980	Los Angeles, CA
	1973, 1974, 1976	Los Angeles/San Francisco, CA
	1981–1983	Los Angeles, CA; San Francisco, CA
NH	1970–1983	Portland, ME
NJ	1970–1972	New Jersey
	1974, 1975	New York, NY; Albany, NY; Buffalo, NY
	1976–1983	New York, NY; Albany, NY
NM	1970–1972, 1975, 1977–1980	Los Angeles, CA
	1973, 1974, 1976	Los Angeles/San Francisco, CA
	1981–1983	Los Angeles, CA; San Francisco, CA
NV	1970–1972, 1975, 1977–1980	Los Angeles, CA
	1973, 1974, 1976	Los Angeles/San Francisco, CA
	1981–1983	Los Angeles, CA; San Francisco, CA
NY	1970–1975	New York; Albany; Buffalo
	1976–1983	New York; Albany
OH[1]	1970	Toledo
	1971–1983	Detroit, MI
OK[2]	1970–1977, 1979	Group 3 (Oklahoma)
	1978, 1980–1983	New Orleans, LA
OR	1970–1972, 1975, 1977–1980	Los Angeles, CA
	1973, 1974, 1976	Los Angeles/San Francisco, CA
	1981–1983	Los Angeles, CA; San Francisco, CA
PA	1970–1983	Philadelphia
RI	1970–1975	Providence
	1976–1983	New Haven, CT
SC	1970–1983	Charleston
SD[1]	1970–1983	Minneapolis/St. Paul, MN
TN	1970	Baton Rouge, LA; New Orleans, LA
	1971–1983	New Orleans, LA
TX	1970–1972	New Mexico/West Texas
	1973–1983	New Orleans, LA
UT[1]	1970–1983	Minneapolis/St. Paul, MN
VA	1970–1983	Norfolk
VT	1970–1983	Portland, ME
WA	1970–1972, 1975, 1978, 1979	Los Angeles, CA
	1973, 1974, 1976	Los Angeles/San Francisco, CA
	1980–1983	Seattle/Tacoma
WI[1]	1970–1983	Chicago, IL
WV	1970–1983	Norfolk, VA
WY[1]	1970–1983	Minneapolis/St. Paul, MN

[1]Data from Platt's are converted from cents per gallon to dollars per barrel.
[2]As shown in Platts.

Table A38. Residual Fuel Industrial Sector Price Assignments, 1971, 1974 Through 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

Data Sources

Prices

1984 forward: Energy Information Administration, *Petroleum Marketing Annual, 1995,* Table A3.

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.

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

1995: The Council of State Governments, *The Book of the States 1994–95*, Table 6.21..

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."

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 A39), 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).*

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 A40).

Table A39. Residual Fuel Commercial Sector Price Assignments, 1984 Forward

State	Years	PAD District Prices Assigned
AL	1995	PAD District III
AZ	1984, 1985, 1988, 1991	PAD District V
CO	1986, 1992, 1993	PAD District IV
DC	1994, 1995	PAD Subdistrict IB
ID	1985, 1986, 1989–1992, 1994, 1995	PAD District IV
MN	1995	PAD District II
MO	1995	PAD District II
MS	1988, 1991, 1992	PAD District III
MT	1992, 1994, 1995	PAD District IV
ND	1988, 1989–1992, 1995	PAD District II
NE	1995	PAD District II
NM	1984, 1985	PAD District III
NV	1986, 1988, 1991, 1992	PAD District V
OK	1992, 1995	PAD District II
OR	1989	PAD District V
SC	1993–1995	PAD Subdistrict IC
SD	1990–1995	PAD District II
TN	1995	PAD District II
UT	1989–1992	PAD District IV
WI	1994, 1995	PAD District II
WV	1984	PAD Subdistrict IC
WY	1989–1991, 1994, 1995	PAD District IV

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

Table A40. Residual Fuel Commercial Sector Price Assignments, 1970 Through1983

State	Years	State Prices Used in the Estimation
AL	1970–1974, 1980, 1982, 1983	FL, GA, MS
ID	1980, 1981, 1983	CA, CO
	1982	CA
IN	1980–1983	IL, MI, OH
KY	1980–1983	IL, MO, OH, VA
MT	1980, 1983	CO, MN
	1982	MN
NC	1981, 1983	GA, VA
ND	1980, 1983	MN, SD
	1981, 1982	MN
OR	1975–1983	CA
TN	1970–1978, 1980–1983	AR, GA, MO, MS, VA
VT	1980–1983	ME, NH, NY
WI	1982, 1983	IL, MI, MN
WV	1980–1983	MD, OH, PA, VA
WY	1980	CO, NE, SD, UT
	1981, 1983	CO
	1982	MN

through 1975 and the average ratio computed above. Price assignments for States missing electric utility sector data are shown in Table A40.

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, 1995*, Table A3.

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

1995: The Council of State Governments, *The Book of the States 1994–95*, Table 6.21.

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 1995, 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 are 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 A41 on page 396.

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.

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."

Table A41. Residual Fuel Transportation Sector Price Assignments, 1970 Forward

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, 1995	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, 1995	CA
WI	1978, 1982–1985	IL, MI, MN
	1986	IL, MI
WV	1985	MD, OH, PA, VA
WY	1981, 1982, 1985	CO, MN, SD

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

1995: The Council of State Governments, *The Book of the States 1994–95*, Table 6.21.

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.

Other Petroleum

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 411.)

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 1997,* 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, 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 1997,* 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 1997,* 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, 0.759, 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 411.)

Price Data Sources

1970, 1971, 1981, 1983–1985: Energy Information Administration, *Annual Energy Review 1997,* Table 5.19, "Composite, Nominal."

1982: Bureau of the Census, U.S. Department of Commerce, *1987 Census of Manufactures*, MC87-I-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 386. 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, Community 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

Table A42. 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

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 A42. 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 A43 shows national-level estimated prices and expenditures for the other petroleum product components for the years 1970 through 1995.

Table A43. Other Petroleum Price and Expenditure Estimates for the Industrial Sector, United States, 1970 Through 1995

Year	Petrochemical Feedstocks			Petroleum Coke	Special Naphthas	Waxes	Miscellaneous Products	Average Price	Total Expenditure
	Naphtha	Other Oils	Still Gas						
	Prices in Dollars per Million Btu								
1970	**0.80**	**0.94**	**0.43**	**0.53**	**1.96**	**4.14**	**1.12**	**0.99**	
1971	.84	.99	.46	.66	2.00	3.97	1.18	1.04	
1972	.84	.99	.48	.61	2.00	4.23	1.18	1.04	
1973	.97	1.15	.53	.61	2.08	4.63	1.37	1.15	
1974	2.13	2.50	1.15	.74	2.60	4.63	2.99	2.00	
1975	**2.43**	**2.86**	**1.31**	**1.42**	**3.12**	**4.95**	**3.85**	**2.48**	
1976	2.55	3.00	1.38	1.57	3.12	5.51	4.55	2.79	
1977	2.80	3.30	1.66	1.83	3.12	6.26	4.99	3.12	
1978	3.24	3.42	1.19	1.69	3.12	7.75	5.20	3.21	
1979	3.66	4.97	2.88	1.69	5.04	9.43	7.40	4.37	
1980	**6.68**	**7.64**	**4.04**	**2.19**	**10.48**	**12.01**	**7.57**	**6.61**	
1981	8.26	9.72	4.46	2.75	10.72	13.85	9.51	8.17	
1982	7.26	8.79	2.72	2.15	10.72	15.76	8.60	7.04	
1983	6.80	8.00	3.67	1.55	10.72	14.29	7.82	6.38	
1984	6.71	7.90	3.62	1.66	11.13	13.48	7.72	6.43	
1985	**6.27**	**7.38**	**3.39**	**1.86**	**10.87**	**13.38**	**9.17**	**6.11**	
1986	3.41	4.01	([a])	1.53	10.73	14.70	4.99	4.01	
1987	4.20	4.94	([a])	1.50	10.73	13.85	6.14	4.62	
1988	3.44	4.05	([a])	1.45	10.84	11.89	5.03	3.90	
1989	4.21	4.96	([a])	1.74	10.00	18.19	6.16	4.58	
1990	**5.21**	**6.13**	([a])	**2.02**	**9.71**	**14.74**	**7.13**	**5.33**	
1991	4.47	5.26	([a])	1.72	9.71	16.33	6.12	4.70	
1992	4.32	5.08	([a])	1.29	9.71	24.75	5.91	4.61	
1993	3.85	4.53	([a])	1.06	9.71	19.10	5.27	4.08	
1994	3.65	4.30	([a])	1.14	9.71	24.75	5.00	4.04	
1995	**4.04**	**4.75**	([a])	**1.34**	**9.71**	**23.89**	**5.53**	**4.33**	
	Expenditures in Millions of Dollars								
1970	**239.3**	**171.1**	**32.4**	**166.5**	**323.0**	**105.6**	**96.3**		**1,134.2**
1971	251.7	217.4	44.2	207.3	312.5	115.4	102.4		1,250.9
1972	255.4	292.9	41.9	205.0	334.6	126.6	104.4		1,360.8
1973	289.9	404.7	39.2	243.6	352.0	178.1	149.9		1,657.3
1974	690.7	819.6	99.0	275.6	436.5	174.3	419.8		2,915.6
1975	**683.3**	**793.1**	**123.9**	**552.5**	**450.3**	**166.4**	**729.4**		**3,498.8**
1976	981.3	1,086.8	144.3	619.0	493.2	220.1	1,250.6		4,795.3
1977	1,092.6	1,887.1	175.1	734.5	514.2	209.0	1,553.6		6,166.3
1978	1,272.3	2,434.3	142.9	666.4	618.3	266.5	1,408.0		6,808.7
1979	1,667.4	4,209.0	227.4	710.3	1,011.6	317.6	1,853.1		9,996.3
1980	**3,173.1**	**6,564.0**	**371.0**	**915.8**	**2,022.4**	**395.3**	**1,798.6**		**15,240.1**
1981	3,638.7	7,074.4	190.7	940.4	1,520.6	504.5	1,995.3		15,864.4
1982	2,294.5	4,588.5	121.5	796.2	1,415.8	448.9	1,581.8		11,247.2
1983	1,928.0	4,092.7	201.5	622.8	1,663.6	442.8	1,289.7		10,241.2
1984	1,852.7	3,712.2	251.4	677.4	2,308.4	413.7	1,093.6		10,309.4
1985	**1,478.5**	**3,728.8**	**256.2**	**825.7**	**1,732.8**	**419.9**	**1,308.2**		**9,750.2**
1986	1,164.1	2,449.3	([a])	699.0	1,393.8	449.7	682.4		6,838.3
1987	1,459.4	2,742.1	([a])	688.0	1,553.9	453.2	843.0		7,739.7
1988	1,222.6	2,360.0	([a])	692.1	1,236.5	403.8	837.9		6,752.8
1989	1,636.6	2,704.1	([a])	826.1	1,072.7	608.5	944.2		7,792.3
1990	**1,811.3**	**4,621.6**	([a])	**975.2**	**1,040.4**	**491.0**	**982.8**		**9,922.2**
1991	1,335.5	4,350.1	([a])	833.2	854.8	573.7	933.5		8,880.8
1992	1,629.0	4,141.4	([a])	656.7	1,015.8	922.0	591.8		8,956.7
1993	1,348.4	3,821.3	([a])	563.8	1,016.0	764.4	498.8		8,012.7
1994	1,455.5	3,607.0	([a])	578.0	787.4	1,004.3	529.6		7,961.7
1995	**1,506.1**	**3,807.5**	([a])	**683.3**	**688.0**	**969.6**	**537.0**		**8,191.5**

[a] 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 1995.

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-782A and B
- Date Menu — Annual Avg. (Use arrow keys to move and
  Select Dates the space bar to select option)
  8300
  9500
- 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.

Hydroelectric, Geothermal, Wind, Photovoltaic, and Solar Thermal Energy

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 411.

Biofuels

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 with wood consumption for all years, 1990 through 1995. 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 411.

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 industrial sector consumers into two groups—manufacturing industries, specifically three industrial categories, and nonutility power producers—and separating wood and waste consumption within the groups and categories. The State-level industrial sector biofuels prices are consumption-weighted averages of the consumption and prices of the individual categories.

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, national average prices in dollars per million Btu were calculated 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, in 1990 through 1995, are assigned to the SEDS wood consumption and waste consumption estimates for the nonutility 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 411.

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 prices 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, FERC-423, 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 A44), 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.

Table A44. Biomass Fuels Used at Electric Utilities at No Cost or For a Fee, 1989 Forward

State	Years
California	1989–1995
Connecticut	1989–1995
Hawaii	1989, 1990
Montana	1989–1994
Ohio	1989–1993

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 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 A45.

Table A45. 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		

Data Sources

Prices

1983 forward: Energy Information Administration, data reported on FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others;" Form EIA-412, "Annual Report of Public Electric Utilities;" FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants;" and follow-up telephone surveys of the electric utilities that report use of biomass fuels for generating electricity.

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 Consumed by End-Use Sectors

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 Sales and Revenue* and *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 411.)

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. Revenue and sales data from the *Electric Sales and Revenue* (1990 forward) and *Electric Power Annual* (1987 through 1989) 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.

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 is based upon 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 for 1970 through 1986 and TN for 1970 through 1986. (Prices are available for LA in 1970, 1972, 1973, but those prices are replaced by commercial sector prices to maintain a consistent series for the State.) In addition, MA transportation prices for 1985 and 1986 are estimated by multiplying the MA 1985 and 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 commercial price in 1977 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 A46.

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.

Table A46. Annual Electricity Price Adjustment Factors, 1970 Through 1986

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	1.06188	1.05991
1974	1.09572	1.08098	1.08732
1975	1.09257	1.08098	1.08732
1976	1.07753	1.07755	1.06891
1977	1.06746	1.07675	1.06820
1978	1.06654	1.08273	1.06861
1979	1.06986	1.08349	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	0.98618

Source: EIA calculations based on data from the *Annual Energy Review* and the *Statistical Yearbook of the Electric Utility Industry.*

Data Sources

Prices

1991 forward: Energy Information Administration, *Electric Sales and Revenue*, Residential Sector, Table 14; Commercial Sector, Table 15; Industrial Sector, Table 16 ; and Transportation Sector, revenue data from Table 7 and sales data shown rounded in Table 6.

1990: Energy Information Administration, Revenue–*Electric Sales and Revenue 1990*, Table 7; Sales–*Electric Power Annual 1991*, Table 27.

1987–1989: Energy Information Administration, *Electric Power Annual 1988,* Tables 19 and 21 (1987 data); *Electric Power Annual,* Tables 27 and 29 (1988 and 1989).

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 for Generation of Electricity

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 that 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 A47.

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 A47. 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, S*team 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 1995, Consumption Estimates,* Table D1, as shown in Table A48.

Table A48. 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	10.769	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	1995	10.658

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 1995, Consumption Estimates (SEDR),* December 1997. 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 energy sources used in drilling for oil and gas, 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, and 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 A49 shows the quantities of energy, by State, removed from SEDS consumption to calculate SEPEDS expenditures for 1995. State estimates for 1970 through 1995 are available on the State Energy Price and Expenditure Data System internet data files.

Table A50 shows the adjustments made to SEDS national consumption estimates for 1970 through 1995 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 (petroleum coke and still gas), natural gas, coal, and electricity is individually estimated for each source and subtracted from each State's SEDS industrial sector total.

Because crude oil consumption is not an individual fuel in SEDS for 1970 through 1980, 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 from the *Petroleum Supply Annual, Volume 1,* of each year, Table 2).

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 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' subtotal of 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 A51.

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 Northeast Census Region is purchased; 32 percent of the wood in Midwest States is purchased; 39 percent of the wood in States in the South is purchased; and 42 percent of the wood consumed in Western States is purchased.

Table A49. Estimates of Energy Consumed as Process Fuel, Intermediate Products, and Uncosted Renewables, 1995
(Billion Btu)

State	Refinery Use							
	Distillate	Residual	LPG	Other Petroleum [a]	Natural Gas	Coal	Electricity [b]	Total
AK	202	544	115	19,323	23,415	—	106	43,703
AL	39	822	10	13,732	27,127	—	12,201	53,930
AR	36	333	9	5,338	18,884	—	5,380	29,978
AZ	—	—	—	—	—	—	—	—
CA	758	2,126	11,440	138,843	49,706	—	11,080	213,953
CO	4	1	58	6,246	5,976	—	1,510	13,795
CT	—	—	—	1,566	—	—	—	1,566
DC	—	—	—	—	—	—	—	—
DE	56	2,862	63	11,736	807	54	294	15,872
FL	—	—	—	2,987	—	—	—	2,987
GA	830	4,738	448	8,216	7,571	541	2,636	24,981
HI	36	1,485	1,627	10,775	—	—	734	14,658
IA	—	—	—	333	—	—	—	333
ID	—	—	—	—	—	—	—	—
IL	129	1,127	2,184	86,736	14,957	25	3,573	108,732
IN	79	4,858	234	53,833	12,710	31	3,533	75,278
KS	80	57	327	22,467	8,092	1	791	31,814
KY	101	624	302	52,419	4,669	17	3,424	61,557
LA	100	623	407	218,427	156,360	—	11,400	387,318
MA	—	—	—	1,989	—	—	—	1,989
MD	—	—	—	12,530	—	—	—	12,530
ME	—	—	—	143	—	—	—	143
MI	57	1,246	502	20,213	15,967	20	2,869	40,874
MN	100	1,661	457	22,638	4,905	8	2,248	32,017
MO	—	—	—	16,910	—	—	—	16,910
MS	34	131	27	25,690	10,816	—	5,749	42,447
MT	3	1,218	15	21,445	1,262	—	991	24,934
NC	—	—	—	11,710	—	—	—	11,710
ND	50	449	86	4,237	854	30	150	5,857
NE	—	—	—	—	—	—	—	—
NH	—	—	—	132	—	—	—	132
NJ	332	3,466	398	57,548	8,684	3	1,171	71,602
NM	17	291	44	7,280	9,077	—	2,099	18,807
NV	224	1,569	265	511	2,063	—	1,641	6,274
NY	—	—	—	28,849	—	—	—	28,849
OH	97	4,222	849	59,573	15,990	27	6,298	87,056
OK	47	1,020	223	30,644	12,722	10	991	45,657
OR	—	—	—	13,680	—	—	—	13,680
PA	731	5,266	309	60,017	10,521	1,116	3,977	81,937
RI	—	—	—	—	—	—	—	—
SC	—	—	—	16,762	—	—	—	16,762
SD	—	—	—	—	—	—	—	—
TN	61	1,072	81	28,965	5,916	29	3,791	39,915
TX	176	4,011	2,253	434,601	284,004	—	33,465	758,510
UT	2	1,474	56	10,995	4,439	—	1,082	18,047
VA	609	3,240	245	8,258	4,092	727	1,553	18,724
VT	—	—	—	—	—	—	—	—
WA	242	934	1,723	122,711	7,438	—	6,621	139,668
WI	68	2,167	217	4,231	6,734	14	2,003	15,434
WV	552	358	265	25,314	2,570	546	909	30,513
WY	3	104	56	9,477	4,369	—	1,061	15,070
US	5,854	54,100	25,296	1,710,029	742,694	3,201	135,330	2,676,503

See footnotes at end of table.

Table A49. Estimates of Energy Consumed as Process Fuel, Intermediate Products, and Uncosted Renewables, 1995 (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	1,263	—	294,656	—	—	503	2,440	37,882	380,448
AL	138	8,406	—	14,692	—	—	92,160	20,652	497,540	687,519
AR	1,132	3,198	—	6,016	—	—	40,352	12,403	246,411	339,490
AZ	3,520	5,471	—	59	—	—	8,282	19,024	345,323	381,679
CA	18,081	37,586	14,535	67,321	32,499	208,042	68,009	19,191	1,510,987	2,190,205
CO	193	4,778	—	25,586	1,287	—	1,591	11,485	250,998	309,712
CT	136	4,723	—	—	608	—	24,460	1,178	198,783	231,453
DC	(s)	1,143	—	—	—	—	—	256	73,313	74,712
DE	25	1,272	—	—	—	—	6,691	5	68,082	91,946
FL	27,328	6,795	—	819	—	—	32,543	8,031	1,190,371	1,268,874
GA	145	11,543	—	—	526	—	51,929	7,850	683,640	780,614
HI	1,060	—	—	—	852	5,268	4,341	—	35,156	61,335
IA	9	4,755	—	—	124	—	1,226	11,106	243,778	261,331
ID	2	1,371	—	—	9,643	—	6,145	6,561	139,439	163,160
IL	92	13,467	—	99	793	—	16,238	13,474	897,127	1,050,022
IN	23	6,830	—	5	—	—	4,204	7,676	618,354	712,370
KS	34	4,352	—	47,462	117	—	437	34,763	215,747	334,727
KY	3	7,589	—	2,902	—	—	9,537	27,415	529,816	638,819
LA	68	5,402	—	216,621	9,907	—	62,566	66,875	517,585	1,266,341
MA	197	8,831	—	—	2,272	—	41,627	1,921	330,550	387,386
MD	46	8,209	—	1	—	—	15,552	2,896	399,117	438,351
ME	105	2,119	—	—	17,786	—	88,733	98	82,166	191,150
MI	244	11,623	—	9,935	1,337	—	61,745	25,893	673,043	824,694
MN	343	7,805	—	—	2,883	—	47,131	19,428	383,486	493,093
MO	146	9,188	—	(s)	—	—	2,476	7,172	442,476	478,368
MS	8	5,025	—	3,569	—	—	33,573	42,417	269,132	396,172
MT	1	1,151	—	2,304	493	—	2,625	4,046	95,366	130,920
NC	149	12,359	—	—	18,500	—	42,146	6,301	743,912	835,078
ND	(s)	1,147	—	11,909	—	—	142	4,898	56,022	79,976
NE	14	2,762	—	59	—	—	700	3,332	148,483	155,349
NH	36	1,813	—	—	4,180	—	15,553	22	64,016	85,752
NJ	439	6,572	—	—	114	—	22,985	2,567	474,421	578,700
NM	537	2,055	—	53,668	—	—	796	57,927	116,666	250,455
NV	155	1,867	—	1	199	34,688	226	756	146,827	190,992
NY	392	23,647	—	1,105	12,601	—	66,927	8,319	927,259	1,069,099
OH	29	13,130	—	1,332	50	—	53,466	18,350	1,127,356	1,300,769
OK	79	4,439	—	82,042	—	—	12,005	31,086	294,177	469,485
OR	463	6,570	—	69	3,667	—	36,220	7,577	324,971	393,218
PA	452	10,572	—	3,177	3,606	—	65,181	39,201	897,266	1,101,392
RI	38	1,483	—	—	95	—	1,293	633	47,160	50,701
SC	15	6,233	—	—	674	—	39,715	3,014	462,485	528,898
SD	(s)	1,232	—	410	—	—	559	2,763	52,688	57,653
TN	55	10,276	—	48	8,602	—	35,248	18,245	582,992	695,380
TX	430	9,607	—	347,664	—	—	20,357	85,342	1,871,128	3,093,037
UT	46	1,961	—	28,726	441	—	1,672	3,011	131,197	185,102
VA	122	10,864	—	1,336	805	—	19,828	6,481	605,252	663,412
VT	15	973	—	—	1,443	—	5,929	7	36,275	44,642
WA	340	11,295	—	—	4,910	—	73,475	8,979	627,930	866,597
WI	214	6,279	—	—	2,848	—	149,956	4,244	411,972	590,947
WV	35	3,264	—	8,537	8,323	—	2,853	28,027	184,617	266,169
WY	2	643	—	20,693	—	—	714	7,711	79,588	124,421
US	57,136	[c] 379,938	14,535	1,252,824	152,185	247,998	1,392,622	723,048	21,390,356	[c] 28,287,117

[a] In this table, "other petroleum" consists of: still gas consumed as process fuel; and aviation gasoline blending components, motor gasoline blending components, pentanes plus, and unfinished oils used as intermediate products.
[b] Electricity is converted at the rate of 3,412 Btu per kilowatthour.
[c] U.S. total includes an estimated 45,000 billion Btu of wood consumed in the commercial sector that has not been allocated to the States.
—No consumption.
(s)=Value less than 0.5 billion Btu.
Source: State Energy Price and Expenditure Data System 1995.

Table A50. Energy Consumption Adjustments, 1970–1995
(Trillion Btu)

		Adjustments											
		Residential/Commercial		Industrial						Transportation			
Year	Total (Gross) Consumption	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	Electrical System Energy Losses	Total	Net Consumption
1970	66,334	—	—	2,533	—	1,442	34	—	—	740	11,517	16,266	50,068
1971	67,789	—	—	2,527	—	1,456	34	—	—	761	12,127	16,906	50,883
1972	71,275	—	—	2,683	—	1,497	34	—	—	786	13,110	18,110	53,166
1973	74,351	—	—	2,767	—	1,539	35	—	—	745	13,999	19,085	55,266
1974	72,528	—	—	2,740	—	1,520	33	—	—	684	14,198	19,176	53,352
1975	70,569	—	—	2,643	—	1,434	32	—	—	595	14,384	19,089	51,480
1976	74,392	—	—	2,650	—	1,679	33	—	—	559	15,255	20,176	54,216
1977	76,317	—	—	2,793	—	1,706	33	—	—	544	16,060	21,136	55,182
1978	78,158	—	—	2,699	—	1,694	32	—	—	541	16,850	21,816	56,342
1979	78,920	—	—	2,771	—	1,534	34	—	—	613	17,063	22,015	56,906
1980	75,985	—	—	2,732	—	1,058	33	—	—	650	17,387	21,860	54,126
1981	74,022	—	—	2,069	—	959	33	—	—	660	17,464	21,185	52,837
1982	70,806	—	—	1,888	—	1,144	33	—	—	614	17,100	20,778	50,028
1983	70,486	—	—	1,810	140	1,010	33	—	—	505	17,583	21,082	49,404
1984	74,085	—	—	1,978	135	1,113	33	—	—	545	18,157	21,961	52,124
1985	74,054	—	—	1,731	128	1,001	33	—	—	521	18,631	22,045	52,009
1986	74,290	—	—	1,953	103	954	33	—	—	501	18,593	22,137	52,152
1987	76,840	—	—	2,215	72	1,194	33	—	—	538	19,156	23,209	53,631
1988	80,269	—	—	2,413	85	1,134	33	—	—	633	19,887	24,185	56,085
1989	81,317	—	—	2,422	59	1,103	33	—	—	650	20,256	24,523	56,794
1990	83,960	48	337	2,556	51	1,269	84	183	1,380	682	20,227	26,818	57,143
1991	83,967	50	355	2,397	39	1,164	85	203	1,327	622	20,480	26,722	57,246
1992	85,158	52	374	2,748	27	1,209	97	217	1,422	608	20,111	26,866	58,293
1993	87,006	53	352	2,582	21	1,199	118	244	1,431	643	20,598	27,243	59,763
1994	88,726	55	347	2,747	19	1,153	136	256	1,459	706	20,856	27,734	60,992
1995	90,547	57	380	2,677	15	1,253	152	248	1,393	723	21,390	28,287	62,263

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

Sources: **Total (Gross) Consumption—**EIA, *State Energy Data Report 1995, Consumption Estimates, (SEDR)* DOE/EIA-0214(95) (Washington, DC, December,1997), 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 1995 (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 12-15, pp. 22-25, sum of four end-use sectors' column titled, "Electrical System Energy Losses."
Total Adjustments—SEPEDS.
Net Consumption—SEPEDS.

Table A51. 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
1985	Residual Fuel	212	PADD IV	PADD V
1986	Residual Fuel	403	PADD IV	PADD V
1987	Residual Fuel	497	PADD IV	PADD V
1988	Residual Fuel	305	PADD IV	PADD V
1989	Residual Fuel	381	PADD IV	PADD V
1990	Residual Fuel	332	PADD IV	PADD V
1991	Residual Fuel	374	PADD IV	PADD V
1992	Residual Fuel	355	PADD IV	PADD V

Source: EIA calculations based on data from the *State Energy Data Report* and the *Petroleum Supply Annual*.

Crude Oil Lease, Plant, and Pipeline Fuel. Industrial crude oil is assumed to be used as lease, plant, and pipeline fuel. Because these are process fuel uses, this 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, Photovoltaic and Solar Thermal Energy. 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 manufacturers and electric utilities, annual percentages were developed of wood consumed that was purchased and waste consumed that was purchased. These percentages are applied to SEDS industrial consumption of wood and waste by each consuming category for each year to estimate the purchased consumption used to calculate expenditures.

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," columns titled, "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 an 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 forward).

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 "1991 Manufacturing Energy Consumption Survey" (Form EIA-846), "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).

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 short tons x 0.9071847 metric tons/short ton = 453.6 metric tons).

In the metric system of weights and measures, the names of multiples and subdivisions of any unit may be derived by combining the name of the unit with prefixes, such as deka, hecto, and kilo, meaning, respectively, 10, 100, 1,000, and deci, centi, and milli, meaning, respectively, one-tenth, one-hundredth, and one-thousandth. Common metric prefixes can be found in Table 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 barrels x 42 gallons/barrel = 420 gallons).

Table B1. Metric Conversion Factors

U.S. Unit	*multiplied by*	Conversion Factor	*equals*	Metric Unit
Mass				
short tons (2,000 lb)	x	0.907 184 7	=	metric tons (t)
long tons	x	1.016 047	=	metric tons (t)
pounds (lb)	x	0.453 592 37[a]	=	kilograms (kg)
pounds uranium oxide (lb U_3O_8)	x	0.384 647[b]	=	kilograms uranium (kgU)
ounces, avoirdupois (avdp oz)	x	28.349 52	=	grams (g)
Length				
miles (mi)	x	1.609 344[a]	=	kilometers (km)
yard (yd)	x	0.914 4[a]	=	meters (m)
feet (ft)	x	0.304 8[a]	=	meters (m)
inches (in)	x	2.54[a]	=	centimeters (cm)
Energy				
British Thermal Units (Btu)	x	1,055.055 852 62[a,c]	=	joules (J)
calories (cal)	x	4.186 8[a]	=	joules (J)
kilowatthours (kWh)	x	3.6[a]	=	megajoules (MJ)

U.S. Unit	*multiplied by*	Conversion Factor	*equals*	Metric Unit
Volume				
barrels of oil (bbl)	x	0.158 987 3	=	cubic meters (cm^3)
cubic yards (yd^3)	x	0.764 555	=	cubic meters (cm^3)
cubic feet (ft^3)	x	0.028 316 85	=	cubic meters (cm^3)
U.S. gallons (gal)	x	3.785 412	=	liters (L)
ounces, fluid (fl oz)	x	29.573 53	=	milliliters (mL)
cubic inches (in^3)	x	16.387 06	=	milliliters (mL)
Area				
acres	x	0.404 69	=	hectares (ha)
square miles (mi^2)	x	2.589 988	=	square kilometers (km^2)
square yards (yd^2)	x	0.836 127 4	=	square meters (m^2)
square feet (ft^2)	x	0.092 903 04[a]	=	square meters (m^2)
square inches (in^2)	x	6.451 6[a]	=	square centimeters (cm^2)
Temperature				
degrees Fahrenheit (°F)	x	5/9 (after subtracting 32)[a,d]	=	degrees Celsius (°C)

[a]Exact conversion.

[b]Calculated by the Energy Information Administration.

[c]The Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956.

[d]To 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, contact Dr. Barry Taylor at Building 221, Room B160, National Institute of Standards and Technology, Gaithersburg, MD 20899, or on telephone number 301–975–4220.

Sources: General Services Administration, Federal Standard 376B, *Preferred Metric Units for General Use by the Federal Government* (Washington, DC, January 27, 1993), pp. 9–11, 13, and 16. National Institute of Standards and Technology, Special Publications 330, 811, and 814. American National Standards Institute/Institute of Electrical and Electronic Engineers, ANSI/IEEE Std 268–1992, pp. 28 and 29.

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	=	cubic feet (ft^3)

[a]Exact conversion.
[b]Calculated by the Energy Information Administration.
Source: U.S. Department of Commerce, National Institute of Standards and Technology, *Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices*, NIST Handbook 44, 1994 Edition (Washington, DC, October 1993), pp. B-10, C-17, and C-21.

Summary of Changes Since the *State Energy Price and Expenditure Report 1994*

Revisions that are incorporated into the State Energy Price and Expenditure Data System (SEPEDS) and the *State Energy Price and Expenditure Report (SEPER)* since their previous release in June 1997 are summarized in this appendix. Users of the SEPEDS data files, available 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 covered in this appendix.

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, revised consumption values, affect only the State prices that are estimated by consumption-weighted averaging of adjacent States and, similarly, the 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 1995, Consumption Estimates (SEDR),* which contains full documentation of the consumption estimation procedures. Consumption revisions are described in *SEDR,* Appendix H, "Summary of Changes Since the *State Energy Data Report 1994*." 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 result in revisions to the expenditures series.

State Energy Data System Conversion

More than half of the revisions incorporated into this edition of SEPEDS/*SEPER* are caused by changes in SEDS consumption. The 1995 edition of SEDS was converted from a mainframe computer system to a personal computer (PC) system. The conversion identified a number of rounding and other small errors that caused many expenditure and average price revisions that are too small to be seen in the *SEPER* tables but can be seen in the unrounded data in the SEPEDS data files. The SEDS revisions account for all of the expenditure revisions in **asphalt and road oil**, **aviation gasoline**, **coal**, **jet fuel**, **motor gasoline**, and several components of the **other petroleum products** category, i.e., **miscellaneous petroleum products**, **special naphthas**, and **petroleum feedstocks (other oils)**.

Biofuels

Residential and Commercial Sectors, 1990 through 1994. In the previous edition of the SEDS, residential wood consumption estimates for Census Region 4 were allocated to the States within the region by the number of households in each State; therefore, each household in Hawaii was estimated to consume the same amount of wood as each household in Alaska. In SEDS 1995, based on information from the EIA Residential Energy Consumption Survey (Form EIA-457), it was assumed that no residences in Hawaii consumed wood and the Census Region 4 wood consumption was reallocated to Alaska, Washington, Oregon, and California. Therefore, prices and expenditures for Hawaii wood consumption in 1990 through 1994 were revised to zero in

SEPEDS and the residential wood expenditures for the other four States increased by 11 percent in each of the 5 years.

Industrial Sector, 1990 through 1994. The estimates of wood and waste use in the nonutilities and manufacturing portions of the industrial sector for 1990 through 1994 were revised in SEDS. These revisions caused SEPEDS industrial sector biofuels expenditures and consumption-weighted average industrial sector prices for all States for all 5 years to be revised. The largest revisions occurred in 1990 data, where average prices revised by 11 cents per million Btu or less, with the exception of an increase from $1.52 to $1.73 per million Btu in Rhode Island, an increase from $1.44 to $1.67 per million Btu in New Jersey, and a decrease from $1.60 to $1.34 per million Btu in Wyoming. Consumption revisions caused 1990 industrial expenditures for biofuels to increase or decrease by as much as $3 million in California (from $65.6 million to $68.8 million), Georgia, and Florida. The smallest 1990 expenditure revision was the $7 thousand increase (from $2,743 million to $2,750 million) in Vermont. Revisions to average prices and expenditures were smaller than those in 1990 for all States for 1991 through 1994.

Natural Gas

Residential, Commercial, and Industrial Sectors and Electric Utilities, 1992. Expenditures for natural gas in the residential, commercial, and industrial sectors and electric utilities in New Hampshire in 1992 were revised due to corrections in SEDS consumption identified during the conversion to a PC system. Industrial sector prices and expenditures in 1992 for Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming were revised in SEPEDS by 6 percent or less due to the inclusion of revisions that had been previously published in the source document but had not been incorporated into SEPEDS.

Residential, Commercial, Industrial, and Transportation Sectors, 1994. Natural gas consumption estimates for 1994 were revised in the data source publication, the EIA *Natural Gas Annual 1995 (NGA)*, in all four end-use sectors as documented in *SEDR* Appendix H. These consumption revisions caused small revisions (less than 0.5 percent) in Alaska and Mississippi residential and commercial sector expenditures and in Arkansas and Illinois commercial sector expenditures. Industrial sector natural gas expenditures were revised for 27 States, all by less than 0.5 percent, with the exception of a 12-percent decrease in Mississippi and a 5-percent increase in Alaska. Estimates of natural gas expenditures by the transportation sector in 1994 were revised slightly for Illinois and Mississippi, while estimates for Arkansas were revised from zero to $13 thousand and for Massachusetts from $7 thousand to $21 thousand. Estimates of electric utility expenditures for natural gas in New Hampshire were revised from zero to $1 million for 1994.

Petroleum

Distillate Fuel

Many small revisions to distillate fuel expenditures in the residential, commercial, industrial, and transportation sectors were caused by revisions to SEDS consumption estimates during the PC system conversion, as documented in Appendix H of the *SEDR*.

Electric Utilities, 1994. The methodology for estimating the price of distillate fuel paid by electric utilities in Alaska and Hawaii for 1994 forward was revised. Alaska's price was revised from $5.88 to $7.28 per million Btu and Hawaii's price from $4.35 to $4.37 per million Btu. Expenditures for electric utilities' distillate fuel in Alaska and Hawaii were revised proportionally. A small revision to electric utilities' expenditures for distillate fuel in Washington in 1975 was caused by a SEDS consumption revision as documented in *SEDR* Appendix H.

Kerosene

Numerous small revisions to kerosene expenditures in the residential, commercial, and industrial sectors in 1984 through 1993 were caused by revisions to SEDS consumption estimates during the PC system conversion, as documented in Appendix H of the *SEDR*.

Commercial Sector, 1994. Kerosene prices are estimated for the industrial prices and assigned to the commercial sector. Revisions to the industrial sector kerosene prices for 1994 that were published in the *SEPER 1994* were applied to the commercial sector in this edition of SEPEDS. The revisions in commercial sector kerosene prices for all

States ranged from an increase of 1 cent per million Btu in New Hampshire to an increase of 99 cents per million Btu in Idaho. The price revisions caused proportional changes in estimated expenditures kerosene in the commercial sector of all States and a small decrease in the U.S. average commercial sector kerosene price and expenditures.

Liquefied Petroleum Gases

Commercial, Industrial, and Transportation Sectors, 1985 through 1994. General sales taxes were added to the commercial, industrial, and transportation sector prices for liquefied petroleum gases (LPG) in all 46 States that have sales taxes in 1985 through 1994. Increases ranged from 12 cents per million Btu in Colorado in 1987 to 96 cents per million Btu in Connecticut in 1991. These price increases caused proportional increases in LPG expenditure estimates.

Residential Sector, 1993 and 1994. EIA has developed an estimated data series for residential propane prices by State for 1994 forward. The incorporation of this new data series in place of the previous data from the American Gas Association caused LPG prices and expenditures for all States to be revised. All price revisions were by less than $4.00 per million Btu, with the exception of the price in the District of Columbia, which decreased from $24.74 to $13.75 per million Btu; the price in Hawaii, which increased from $16.97 to $21.85; the price in Maryland, which decreased from $18.67 to $14.04; and the price in Rhode Island, which increased from $4.81 to $15.99 per million Btu. In light of this new data series, the assumptions for some of the 1993 estimates were changed, resulting in revisions to residential propane prices in Alaska, Hawaii, Massachusetts, and Rhode Island, the largest being the increase in Rhode Island's price, from $8.85 to $13.58 per million Btu. Expenditures for residential propane in 1993 and 1994 were revised proportionally, reflecting the price changes.

Lubricants

Industrial and Transportation Sectors, 1987 through 1994. Data from the U.S. Bureau of the Census used in the estimation of lubricants prices were revised in the source document for 1992 through 1994. A review of SEPEDS estimation calculations for 1987 through 1994 revealed the use of rounded data in the calculations and an undocumented data value in 1987. In SEPEDS, a U.S. average price for industrial lubricants is developed and assigned to all States in the industrial and transportation sectors. The U.S. average price is assigned to all States. Therefore, the recalculation of lubricants prices for 1987 forward by using revised and unrounded data resulted in industrial and transportation sector lubricants prices to change by the same amount for all States. All prices were revised by less than 0.5 percent, with the exception of a 7-percent increase in 1987 and a 6-percent decrease in 1992. Expenditures for lubricants were revised proportionally for all States in 1987 through 1994.

Other Petroleum Products

Petroleum Coke, 1970 Forward. Petroleum coke is used in the industrial sector by industries for manufacturing purposes and by petroleum refineries for producing other petroleum products. SEPEDS includes prices and expenditures for the manufacturing uses of petroleum coke but removes the consumption by refineries from expenditure calculations. (See Section 7 on page 411.) The methodology for estimating the amount of petroleum coke used as refinery fuel, which is therefore uncosted, was revised in this edition of SEPEDS. Petroleum coke consumption in the industrial sector in Alabama, Maryland, Missouri, New York, North Carolina, Oregon, South Carolina, and West Virginia was revised to zero in some or all years because all petroleum coke consumption in those States was estimated by the new methodology to be used as refinery fuel and was removed from price and expenditure calculations. Industrial expenditures for petroleum coke for the approximately 28 States with petroleum coke consumption were revised in all years, 1970 through 1994, by the new methodology.

Residual Fuel

All of the small revisions to residual fuel expenditures in the commercial, industrial, and transportation sectors in 1979 through 1993 were caused by revisions in SEDS consumption estimates during the PC system conversion, as documented in Appendix H of the *SEDR*.

Transportation Sector and Electric Utilities, 1994. The methodology for estimating the price of residual fuel paid by electric utilities in Alaska 1994 forward was revised. Alaska's price was revised from $3.55 to $2.93 per million Btu. Since electric utilities' prices are used in

calculating a portion of the transportation sector price, the price for transportation use of residual fuel in Alaska was revised from $3.16 to $2.80 per million Btu and prices for the other 31 States with transportation use of residual fuel were revised by no more than 1 cent per million Btu during the recalculation. Expenditures for residual fuel by Alaska's electric utilities and all States transportation use were also revised proportionally.

Electricity

All Sectors, 1990 through 1994. In previous editions of SEPEDS, electricity prices were calculated from revenue and sales data collected on the Form EIA-861 that were published in the EIA *Electric Power Annual*. In this edition of SEPEDS/*SEPER*, revised data from the Form EIA-861, with revenue expressed in thousand dollars instead of million dollars as published in the EIA *Electricity Sales and Revenue*, are used for 1990 forward. The incorporation of these improved data caused prices and expenditures for electricity in all States and all sectors to be revised for 1990 through 1994. Most changes were by less than 1 percent. The exceptions were 1-percent or 2-percent changes in transportation sector electricity prices in the District of Columbia in 1990 through 1994 and in Oregon in 1993. Other electricity price revisions of less than 1 percent but greater than 0.5 percent occurred in the commercial sector in North Dakota in 1994, in South Dakota in 1991, and in Wyoming in 1990 and 1992; in the industrial sector in Alaska in 1990, 1991, and 1994 and South Dakota in 1994; and in the transportation sector in Colorado in 1994, Georgia in 1991, Indiana in 1990 and 1992, Maryland in 1992, New Jersey in 1990, Oregon in 1990, and Tennessee in 1992 and 1993.

These price revisions caused proportional revisions in electricity expenditures for all States and end-use sectors in 1990 through 1994. Additional expenditure revisions in the commercial and transportation sectors of 8 States in 1990, 1992, and 1993 were caused by consumption revisions as documented in *SEDR,* Appendix H.

Consumption Adjustments for Calculating Expenditures

Crude Oil. All crude oil consumption from the SEDS is removed from SEPEDS expenditure calculations on the assumption that the crude oil is either used as lease and plant fuel or as refinery fuel, all of which are not priced and not included in expenditure calculations. In this edition of SEPEDS, the method of estimating lease and plant quantities and refinery fuel quantities was improved. This change had no effect on SEPEDS prices or expenditures, but the revised data can be seen in the SEPEDS process fuels data files.

Petroleum Coke. In this edition of SEPEDS, estimates of petroleum coke used by refineries was revised to be equal to the SEDS data series for catalyst coke used at refineries for 1970 through 1994. In previous editions of SEPEDS, petroleum coke was allocated to all States that had crude oil refineries. Using the new methodology, petroleum coke is allocated only to those States whose refineries have catalytic cracking capacity. Refinery use of petroleum coke was revised to zero in California, Colorado, Delaware, Hawaii, Illinois, Kansas, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Jersey, New Mexico, North Dakota, Oklahoma, Pennsylvania, Utah, Virginia, Wisconsin, and Wyoming in some or all years because refineries in those States do not have catalytic cracking capacity. Most of the 15 to 17 other States with petroleum coke consumption showed large revisions to estimates of refinery use in all years 1970 through 1994. Although the consumption adjustments for process fuel and intermediate products in 1995 are shown in Table A49 on page 413, the revisions to previous years' data can be seen only in the SEPEDS data files.

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 reformate). Excludes oxygenates (alcohols and ethers), butane, and pentanes plus.

Aviation Gasoline: All special grades of gasoline used 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 (C_4H_{10}). It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

- **Isobutane**: A normally gaseous branched-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams.

- **Normal Butane**: A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 31.1° F. It is extracted from natural gas or refinery gas streams.

Butylene: An olefinic hydrocarbon (C_4H_8) recovered from refinery processes.

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: 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 having 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. It is also the amount of electric energy produced or expressed in watthours (Wh).

Electricity Sales: The amount of kilowatthours sold in a given period of time; usually grouped by classes of service, such as residential, commercial, industrial, and other. "Other" sales include sales for public street and highway lighting and other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

Electric Power Plant: A station containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric Utility: A corporation, person, agency, authority, or other legal entity or instrumentality that owns and/or operates facilities for the generation, transmission, distribution, or sale of electric energy, primarily for use by the public, and that files forms listed in the Code of Federal Regulations, Title 18, Part 141. Facilities that qualify as cogenerators or small power producers under the Public Utility Regulatory Policies Act are not considered utilities.

Electric Utility Sector: 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.

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

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Ethane: A normally gaseous straight-chain hydrocarbon (C_2H_6). It is a colorless, paraffinic gas that boils at a temperature of -127.48° F. It is extracted from natural gas and refinery gas streams.

Ethylene: An olefinic hydrocarbon (C_2H_4) recovered from refinery processes or petrochemical processes.

Expenditures: In this report, 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 the calculation of 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. It is 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: 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: 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 having 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. Isopentane is included.

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° 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: Consists 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**.

Solar Energy: The radiant energy of the sun that can be converted into other forms of energy, such as heat or electricity.

Special Naphthas: All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. Those products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or

marketed as motor gasoline or aviation gasoline or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Standard Industrial Classification (SIC): A set of codes developed by the Office of Management and Budget which categorizes industries into groups with similar economic activities.

Steam 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: 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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