State Energy Price System

Volume I

Overview and Technical Documentation

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June 1982

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We are also thankful for the cooperation of individuals in the federal agencies and private organizations which are the originators of the data bases and sources reviewed in this study. These organizations and the individuals contacted are listed in the data source review forms in Volume II, Appendix E.

In addition to the authors of this report, other PNL staff have also contributed to the project. A. Liberman contributed significantly to the data base reviews for natural gas and coal prices. M. J. King, S. L. Owzarski, and M. E. Wand performed computer programming and analysis. N. M. Burleigh provided basic editing on the report.

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SUMMARY

In support of the Energy Information Administration's mission to collect and publish energy data and information, the Office of Energy Markets and End Use contracted with the Pacific Northwest Laboratory (PNL) to improve and update the State Energy Price System (STEPS). The original data base was initially developed in 1975 by contractors to support state-level, energy-related regional energy analysis efforts in the Federal, State, and local governments. It covered three economic sectors (residential, commercial, and industrial) and seven fuels (electricity, natural gas, distillate fuel, residual fuel, liquefied petroleum gas (LPG), kerosene, and gasoline). Formal documentation of the state energy/fuel price series was published in State Energy Fuel Prices by Major Economic Sector from 1960 through 1977 (DOE 1979a).

PNL was given the task of both expanding the scope of the data base and improving the quality of the data. The primary objective of the PNL effort was to develop consistent state-level energy price series by fuel type and by end-use sector, utilizing existing data sources and prior analyses. The fuels included in the resulting price series are electricity, natural gas, metallurgical coal, steam coal, distillate fuel, motor gasoline, diesel, kerosene, jet fuel, residual fuel, and LPG. The end-use sectors covered are residential, commercial, industrial, transportation, and electric utility.

To fulfill this objective the following steps were carried out for each fuel:

- (1) Based upon an evaluation of existing data sources, recommendations were formulated on the feasible approaches for developing a consistent state energy price series.
- (2) The data series were compiled based upon the approaches approved after a formal EIA review.
- (3) Detailed documentation was provided, including annual updating procedures.
- (4) Recommendations were formulated for future improvements in the collection of data or in data processing.

Generally, the geographical coverage of the data base includes the 50 states and the District of Columbia. If a state had no consumption of a particular fuel in an end-use sector, then no prices were developed. Information on state-level energy use was generally taken from the State Energy Data System (SEDS). Corresponding average U.S. prices are also developed using volumes reported in SEDS. To the extent possible, the prices developed are "quantity weighted" average retail prices. Both a Btu price series and a physical unit price series are developed for each fuel. The period covered by the data series is 1970 through 1980 for most fuels, though prices for electricity and natural gas extend back to 1960.

The STEPS documented in this report was compiled from various published data sources, including those of the EIA and other federal agencies, and several private sources. To the extent possible, direct data quotation from the sources was employed. Prices were imputed only when directly usable data were unavailable.

Because the data base has been developed from diverse sources, the quality of the data varies considerably across fuels, and for some fuels, across sectors. Gaps and discrepancies in the available data sources necessitated the use of imputation techniques such as data mapping, linking, extrapolation, and price assignment to generate the observations for the data base. In addition, there is some inconsistency in sectoral definitions across fuels and some changes in coverage occur over time within sectors. The residential and electric utility sectors for all fuels are least affected by definitional inconsistencies and the electricity and natural gas price series are least affected by imputation. Details of the data deficiencies are provided in the data base documentation. Users of the price series contained in the data base are reminded to consult the detailed technical discussion and documentation.

As indicated above, there is still room for improvement in the STEPS. Recommendations are made with respect to the publication, validation, and updating of the data base. In addition, some recommendations are made regarding the EIA data collection and processing that would increase the quality or availability of state-level price data, and concerning related research that would contribute to a better understanding of the energy situation in the regional and state context.

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1. INTRODUCTION

The mission of the Energy Information Administration (EIA) is to carry out "a central, comprehensive, and unified energy data and information program which will collect, evaluate, assemble, analyze, and disseminate data and information which is relevant to energy resource reserves, energy production, demand, and technology, and related economic and statistical information, or which is relevant to the adequacy of energy resources to meet demands in the near and longer term future for the nation's economic and social needs."^(a) To fulfill this mission, the Energy End Use Division (formerly, the Office of Consumption Data System) has the responsibility, among others, to maintain and improve existing energy data series and to conduct sector surveys of energy consumption. One data series being maintained and updated by the Energy End Use Division is the series of state energy prices by major economic sectors^(b) (DOE 1979c).

Since 1975, state-level energy price series have been developed initially as one of three major components of a comprehensive state-level energy-related data system intended for the support of regional energy analysis efforts in the federal government.^(c) The price series covered three economic sectors (residential, commercial, and industrial) and seven fuels (electricity, natural gas,

(a) The Department of Energy Organization Act, Public Law 95-91, Section 205 a(2).

(b) These state energy/fuel price series by major economic sector were also referred to as the FEDS price system. See the following discussion in the text and Footnote (c) on this page.

(c) The other two major components of state-level energy related data were the series on energy consumption by fuel and by economic sector and the series on state macro economic data. Both series were documented in Federal Energy Data System FEDS : Technical Documentation (DOE 1978b). State energy consumption data was initially published in Federal Energy Data System (FEDS): Statistical Summary (DOE 1978a), and then updated in Federal Energy Data System (FEDS): Statistical Summary Update (DOE 1979b). In April, 1980, the FEDS was superseded by the State Energy Data System (DOE 1980a). The state macro-economic data series was never published separately by the DOE.

distillate fuel oil, residual fuel oil, liquefied petroleum gas, kerosene, and gasoline).^(a) Since its initial development, the price series has been updated annually and evaluated by the Division's staff, by other EIA offices, and by other contractors (Ideamatics 1978a, 1978b; Freedman and Sutch 1979). The various reviews identified important methodological and analytical problems. For example, in an evaluation of the methodology and data sources of the state energy/fuel price series, a contractor found the following:

- The FEDS price series is sufficient for long term economic modeling, but is inadequate for policy-making which must be based on accurate price data points.
- The FEDS price assignment methodology is faulty because it pyramids errors and assigns prices without regard for important factors affecting them.
- The FEDS does not distinguish between different types of wholesale prices; using different types together and thereby skewing wholesale price averages.
- The FEDS markup generation procedures increase the magnitude of errors occurring in the wholesale price estimation.
- The FEDS sources are not the best possible sources, because their purposes and methodologies are not appropriate for use in a data system intended to report accurate actual prices (Ideamatics 1978a, p.162).

The first formally published documentation of the state energy price series was State Energy Fuel Prices by Major Economic Sector from 1960 through 1977 (DOE 1979c). To caution potential users of the data contained in the report, it was subtitled, "Preliminary Report and Documentation." In addition, the following "Users Note" was also printed inside the front cover of the report:

(a) There was also a coal price series for the industrial sector. However, in the formally published documentation (DOE 1979c) this series was not included.

"The price series described and displayed in this publication are preliminary and may differ from other EIA price data. There are assumptions of which the user should be cognizant. Specifically, for some petroleum fuel prices, the price assignment is based on a pyramiding structure and, for some of these fuels, equivalent wholesale prices are used. Also, in the mark-up generation of certain fuels, commercial and industrial prices are proportional to retail prices and such proportions remain constant over time. Further explanation and a detailed description of the methodology used to develop each fuel price series is presented in this publication."

In August 1980, Pacific Northwest Laboratory began the Imputation and Analysis of Energy Information Project to provide assistance to the Energy End Use Division in evaluating and developing imputation and estimation methodologies and to develop and update data series. Task 1 of this project is the development of a new State Energy Price System (STEPS). This report provides a detailed technical documentation of STEPS and its development process. It also addresses some methodological and related issues such as the quality and limitations of the data base, and its appropriate use.

1.1 REQUIREMENTS FOR STATE ENERGY PRICE SYSTEM

The EIA requirements for the STEPS, as specified in the draft statement of work and agreed upon in subsequent project planning, are:

- The state is the smallest unit of disaggregation for each energy price series. Each price series must be able to stand independently from similar data and be reaggregated.
- The minimum time period to be covered is 1970 through 1980.
- It should be noted if any price series segments share data elements across state boundaries.
- The energy price series under review include electricity, natural gas, coal, distillate fuel oil, motor gasoline, diesel, kerosene, jet fuel, residual fuel oil, and liquefied petroleum gas.
- The applicable sectors are residential, commercial, industrial, transportation, and electric utility.

- Where possible, the variables included in the markup (i.e., taxes, transportation, etc.) should be identified.
- The definitions shall be the same as found in the Federal Energy Data System Technical Documentation, dated June 1978 (DOE 1978b) and its successor series, the State Energy Data Report (DOE 1979c and 1980f).
- The work should build upon the Ideamatics, Inc. study, Federal Energy Data System Analysis and Evaluation (Ideamatics 1978a).
- Complete documentation must be provided for implementation of the improved state energy price series and for subsequent annual updates.
- EIA data sources should be carefully considered in the evaluation of alter-alternative price series. If an EIA series is considered inadequate, a discussion of the inadequacy should be provided.

1.2 OBJECTIVE AND SCOPE

The primary objective of this study is to utilize existing data sources and previous analyses of state-level energy prices to develop consistent state-level energy prices series by fuel type and by end-use sector. The fuels are electricity, natural gas, coal, distillate fuel oil, motor gasoline, diesel, kerosene, jet fuel, residual fuel, and liquefied petroleum gas (LPG). The end-use sectors are residential, commercial, industrial, transportation, and electric utility.

Within this overall objective, there are the following specific objectives:

- Based upon an evaluation of existing data sources, formulate recommendations on the feasible approaches to develop consistent state energy price series which meet the requirements of the STEPS as explained above.
- Compile the data series based upon the approaches approved after a formal EIA review.
- Provide detailed documentation, including annual updating procedures.
- Formulate recommendations for future improvements in either the collection of data or in data handling procedures.

It is important to note that the intended uses of the STEPS, as conveyed to the project team during the course of the project, are, in the order of

priority: 1) support the EIA's regional energy analysis effort; 2) to develop the state energy expenditure accounts; and 3) to provide for the policy development and general informational needs of all levels of government and the public.

The energy types included in the STEPS consist of three non-petroleum fuels and seven petroleum products: Electricity, natural gas, and coal for the non-petroleum fuels; and distillate fuel, gasoline, diesel, kerosene, jet fuel, residual fuel, and LPG for the petroleum-based fuels. The end-use sectors are residential, commercial, industrial, transportation, and electric utility. Price series were developed only for the sectors with reported use of the specific fuel in question.

Table 1.1 shows the overall coverage by fuel and by end-use sector. An asterisk (*) indicates that a price series has been developed for the sector and the fuel specified.

TABLE 1.1 Coverage of State Energy Price System
By Fuel and by End-Use Sector

Fuel/ Energy Type	End-Use Sector				
	Resi- dential	Commer- cial	Indus- trial	Transpor- tation	Electric Utilities
Non-Petroleum Fuels					
Electricity	*	*	*	*	
Natural Gas	*	*	*	*	*
Metallurgical Coal			*		
Steam Coal	*		*		*
Petroleum Products					
Distillate Fuel	*	*	*		*
Motor Gasoline				*	
Diesel				*	
Kerosene	*		*		*
Jet Fuel				*	(a)
Residual Fuel		*	*	*	*
LPG	*		*		

(a) Combined with kerosene.

Generally, the geographical coverage includes the 50 states and the District of Columbia. If there was no consumption in a state for a particular fuel and economic sector, then no prices were developed. Information about energy use was generally taken from the State Energy Data System (SEDS). Corresponding average U.S. prices were also developed using volumes from the SEDS. To the extent possible, we have conformed to the EIA request for "quantity weighted" average prices.

1.3 REPORT STRUCTURE

This report is composed of two volumes: Volume I, Overview and Technical Documentation, and Volume II, Data Base Development. As suggested by its title, Volume I provides an overview of the total data base development task and detailed technical documentation of the data base. Volume II documents the process by which the data base was developed, including the difficulties encountered and their resolution.

Volume I is intended to be a public use document. It is organized as follows: Following this introduction, Chapter 2 presents the findings and recommendations of the Pacific Northwest Laboratory review. Chapter 3 provides an overview of methodological aspects of the data base development including definitions, imputation methodologies, data, and related issues. Chapter 4 is a complete technical documentation of the state-level energy price data base, including a general discussion of the coverage and limitations of the data series, and a fuel-by-fuel explanation of the data sources and computational procedures. The appendices present the naming conventions (Appendix A), physical unit prices (Appendix B), Btu prices (Appendix C), and conversion factors (Appendix D).

Volume II is intended to be a technical document for internal EIA reference and for those who are interested in going beyond the STEPS to the justifications for data sources selected and the computational procedures used to derive the various data series. It is organized as follows: Chapter 1 introduces the volume by explaining its objective, scope, approach, and the criteria for reviewing data sources for use in the data base. Chapters 2 through 10 explain the data base development process for electricity, natural gas, coal, distillate fuel, motor gasoline, diesel, kerosene, jet fuel, residual fuel, and LPG. Appendix E provides information on the data source evaluation forms. Appendix F provides a simple explanation of the regression analysis used in this report.

2. FINDINGS AND RECOMMENDATIONS

This chapter presents a summary of the findings and recommendations of the research conducted in developing the comprehensive State Energy Price System (STEPS). Since the data base itself is the primary result of the effort, Section 2.1 first provides a general description of the data base. Sections 2.2 and 2.3 then discuss the general findings and the recommendations, respectively.

2.1 GENERAL DESCRIPTION OF THE DATA BASE

The STEPS contains time series data for prices of energy and fuels by end-use sector and by state. Btu price series and physical price series are developed for each fuel. The fuels covered are electricity, natural gas, metallurgical and steam coals, and refined petroleum products including distillate fuel, motor gasoline, diesel, kerosene, jet fuel, residual fuel, and liquefied petroleum gas (LPG). The end-use sectors are residential, commercial, industrial, transportation, and electric utility. The individual price series, cross-classified by fuel and end-use sector, are shown in Table 1.1 of the previous chapter.

Generally, the data base covers the period from 1970 through 1980. For electricity and natural gas, however, the period extends back to 1960. The data base was compiled from various published data sources, including those of the EIA and other federal agencies, as well as private sources. To the extent possible, direct quotations from the sources were used. Only when there were no directly usable data were prices imputed by various techniques. In addition to the detailed technical documentation provided in Chapter 4, a general description of the data sources of the price series by fuel and by end-use sector is presented below.

2.1.1 Data Sources by Fuel

Table 2.1 summarizes the data sources of the individual prices series by fuel and by end use-sector.

Electricity: All electricity price data for the residential, commercial, industrial, and transportation sectors come from the Statistical Year Book of

TABLE 2.1. Summary of Data Sources by End-Use Sector and by Fuel

	Residential	Commercial	Industrial	Transportation	Electric Utility
Electricity	<u>Statistical Year Book</u>	<u>Statistical Year Book</u>	<u>Statistical Year Book</u>	<u>Statistical Year Book</u>	
Natural Gas	<u>Natural Gas Annual</u>	<u>Natural Gas Annual</u>	<u>Natural Gas Annual</u>	<u>Natural Gas Annual</u>	<u>Cost and Quality of Fuels</u> <u>Natural Gas Annual</u>
Metallurgical Coal			<u>Coke and Coal Chemicals</u>		
Steam Coal	<u>Gas Househeating Survey</u> <u>Cost and Quality of Fuels</u>		<u>Annual Survey/Census of Manufactures</u>		<u>Cost and Quality of Fuels</u>
Distillate Fuel Oil	<u>EIA-9A</u> <u>Platt's</u>	(Linked to Residential Sector Prices)	<u>Annual Survey/Census of Manufactures</u>		<u>Statistical Year Book</u> <u>Cost and Quality of Fuels</u>
Motor Gasoline				<u>EIA-79</u> <u>Consumer Price Index</u> <u>Platt's</u>	
Diesel				<u>Agricultural Prices</u>	
Kerosene	<u>Agricultural Prices</u> <u>Producer Prices and Price Indexes</u>		<u>Producer Prices and Price Indexes</u>		<u>Agricultural Prices</u> <u>Cost and Quality of Fuels</u>
Jet Fuel				<u>Producer Prices and Price Indexes</u> <u>Platt's</u>	
Residual Fuel Oil		EIA-460	<u>Annual Survey/Census of Manufactures</u> <u>Platt's</u>	EIA-460 (and linked to Commercial Sector prices)	<u>Cost and Quality of Fuels</u> <u>Statistical Year Book</u>
LPG	<u>Gas Househeating Survey</u> <u>Agricultural Prices</u>		<u>Agricultural Prices</u> <u>Annual Survey of Manufactures</u>		

the Electric Utility Industry, compiled by the Edison Electric Institute. Although this is a non-EIA, nonfederal source, it is consistent over time and has a large sample and adequate sectoral detail. No imputation was required to use this data in the data base. The most notable drawback of this source is that there is some degree of ambiguity in the commercial and industrial sector definitions. This ambiguity is explained in Section 2.2

Natural Gas: Two EIA sources supply the basic revenue and volume data for the calculation of physical unit prices for natural gas. A non-federal data source, the American Gas Association's Gas Facts provides the state-specific Btu conversion factors for 1970 through 1979. The price data for the residential, commercial, industrial, and transportation sectors, and the Btu conversion factors for 1980, are taken from Natural Gas Production and Consumption: Annual.^(a) For the period since 1973, the data for the electric utility sector are from Cost and Quality of Fuels for Electric Utility Plants. From 1967 through 1972, the data are from the Natural Gas Production and Consumption: Annual. No imputation was involved. There were changes over time in sectoral definitions for the commercial and industrial sectors. The transportation sector includes only the use of natural gas as fuel by natural gas pipelines.

Metallurgical Coal: The metallurgical coal price series is for the industrial sector only. It is derived from data contained in the EIA's Coke and Coal Chemicals. Although no imputation was involved, disclosure restrictions necessitated the grouping together of two or more states, with average group prices assigned to each state. There are five groups: California, Colorado, and Utah; Kentucky, Missouri, Tennessee, and Texas; Maryland and New York; Michigan and Wisconsin; and Virginia and West Virginia.

Steam Coal: Steam coal price series were developed for the residential, industrial, and electric utility sectors. The electric utility coal prices are taken directly from the EIA's Cost and Quality of Fuels (1973-1980) and the EEI's Statistical Year Book (1970-1972). The residential sector coal prices

(a) Natural Gas Production and Consumption: Annual may also be referred to in this report as the Natural Gas Annual.

are taken from the American Gas Association's Gas Househeating Survey (1971-1978), or are imputed from regression equations relating the Gas Househeating Survey data to Cost and Quality of Fuels data (1970-1980). The industrial sector prices are based mainly upon data from the Census of Manufactures (CM) and the Annual Survey of Manufactures (ASM) (1971 and 1974 through 1978), and unpublished data from EIA-3 "Quarterly Fuel Consumption Report - Manufacturing Plants" (1978-1980). Imputation is required to derive prices for 1970, 1972, and 1973, as well as the missing state data for other years.

Distillate Fuel: Distillate fuel price series were developed for the residential, commercial, industrial, and electric utility sectors. Since separate price series were developed for diesel fuel, motor gasoline, and jet fuel in the transportation sector, a transportation sector series was not developed for distillate, per se. Residential prices are derived from EIA-9A series data, supplemented by estimates from regression equations linking state prices to national average prices for No. 2 heating oils, and by estimates based upon data from Platt's Oil Price Handbook and Oilmanac. The industrial sector prices are derived from the Census Bureau's ASM and CM, and imputed from the Platt's data. For a limited number of states, a regression equation was estimated to impute data for years in which the ASM and the CM data were withheld from publication. Commercial sector prices are imputed from Platt's data, based upon the estimated proportions (1970-1972) or average proportions (1973-1980) of commercial sector apparent markup to the residential sector apparent markup from Foster Associates' Energy Prices, 1960-1973. Electric utility sector prices are taken from Cost and Quality of Fuels for 1973-1980 and derived from the Edison Electric Institute's Statistical Year Book for 1970 through 1972.

Motor Gasoline: The motor gasoline price series is for the transportation sector only. Primary sources of data are Platt's for 1973 and earlier years, and Platt's and the Bureau of Labor Statistics' Consumer Price Index published city data for the period since 1974. Unpublished data from the EIA-79 survey for 1979 are used to impute volume-weighted average prices for states missing individual data points. Monthly weights are taken from the Department of Transportation's Highway Statistics.

Diesel: The diesel price series is for the transportation sector only and is derived from the Department of Agriculture's Agricultural Prices, with monthly quantity weights from the Department of Transportation's Highway Statistics. Minimal imputation was involved.

Kerosene: Kerosene prices were developed for the residential, industrial, and electric utility sectors. Data for the electric utility sector price series for 1973 through 1980 are from the EIA's Cost and Quality of Fuels and from the USDA's Agricultural Prices, with a linkage equation used for the 1970-1972 period. The residential sector prices are derived from Agricultural Prices and Producer Prices and Price Indexes (PPI) data. The kerosene price estimates for the industrial sector are developed from the PPI and distillate fuel price markups.

Jet Fuel: The price series for jet fuel is for the transportation sector only. In contrast to all the other series which use the state as the basic unit of observation, data limitations dictated the use of Census Regions as the unit of observation for jet fuel. Data from the BLS's Producer Prices and Price Indexes are averaged to generate wholesale prices since 1976. For years prior to 1976, a regression equation was established to link regional jet fuel prices to national average kerosene prices from Platt's. This series provides wholesale prices rather than retail prices.

Residual Fuel: Residual fuel price series were developed for the commercial, industrial, transportation, and electric utility sectors. The industrial sector prices are derived primarily from the Census Bureau's ASM and CM. These data are supplemented by: a) Relationships established between the ASM and CM data and the national average electric utility sector prices to impute data for states with withheld ASM and CM data for earlier years, and b) relationships between Platt's wholesale prices and the average ASM and CM data to calculate preliminary estimates of 1980 prices. It should be noted that these preliminary estimates are intended to be replaced by the Census Bureau's "estimated actual" prices when they become available.^(a) The electric utility sector residual prices are taken from Cost and Quality of Fuels in a similar manner

(a) At the time of this writing, the 1980 ASM is scheduled to be released in August, 1982.

as for distillate and are likewise linked to the Statistical Year Book data for 1970 through 1972. The commercial sector prices of residual fuel are based upon EIA-460 data, supplemented by the ASM and CM wherever necessary. The transportation sector prices for residual fuels data are based upon commercial sector prices or the proportional relationship between Bunker C prices and commercial sector prices, depending upon whether transportation use of residual oil in a state is dominated by vessel use or by railroad use.

Liquefied Petroleum Gas: The liquefied petroleum gas (LPG) price series are for the residential and industrial sectors. Residential sector prices are mainly from the American Gas Association's Gas Househeating Survey, supplemented by the USDA's Agricultural Prices. Data for some states are imputed by assigning adjacent state prices, and by relating Gas Househeating Survey data to Agricultural Prices data. For Alaska and Hawaii, imputation involved linking available state prices to U.S. average prices. Industrial sector prices are based on USDA's Agricultural Prices for 1970-1977 and 1980, and on the Annual Survey of Manufactures for 1978 and 1979.

2.1.2 Data Sources by End-Use Sector

For the residential sector, electricity prices are from the EEI Statistical Year Book; natural gas prices are from the EIA's Natural Gas Annual; steam coal prices are from the AGA's Gas Househeating Survey, supplemented by Cost and Quality of Fuels; distillate prices are from the EIA-9A series and Platt's; kerosene prices are from the USDA's Agricultural Prices and the BLS's Producer Prices and Price Indexes; and LPG prices are from the AGA's Gas Househeating Survey and the USDA's Agricultural Prices.

For the commercial sector, the data for electricity and natural gas prices come from the same sources used for the residential sector. Prices for distillate fuels are estimated from Platt's, Foster Associates' Energy Prices 1960-1973, and by linkage to residential sector prices. Residual fuel prices are derived from EIA-460 and by linkage to industrial sector prices developed from ASM and CM. Due to lack of data, no coal prices were developed for the commercial sector.

For the industrial sector, sources of data for electricity and natural gas prices are the same as for the residential and commercial sectors. The Census

Bureau's ASM and CM, and Platt's provide industrial sector price data for distillate fuel and residual fuel. Steam coal data are from the ASM, the CM and Form EIA-3. Data for metallurgical coal are from the EIA's Coke and Coal Chemicals. The PPI is the main source of data for kerosene, while Agricultural Prices is the source of data for liquefied petroleum gas.

For the transportation sector, data sources for electricity and natural gas prices are the same as those for the above three sectors. Data for gasoline prices are from both the BLS Consumer Price Index and Platt's. Residual oil prices are partially derived from EIA-460 and partially based upon the commercial sector residual prices. Data for diesel prices are from Agricultural Prices, and those for jet fuels are developed from the PPI and Platt's.

The fuel price data for the electric utility sector from 1973 to 1980 are primarily from the EIA's Cost and Quality of Fuels. Linkage to EEI data and to Agricultural Prices permitted derivation of prices for the earlier years for some fuels.

2.2 FINDINGS

The findings of the project cover several interrelated aspects of data sources, data inconsistency, and the hierarchy of imputation. These aspects are discussed below.

2.2.1 Sources of Data

It is obvious from the general descriptions of the data base that the sources of data used in the STEPS are quite diverse. As summarized in Table 2.2, the data sources can be separated into three categories: EIA sources, other federal sources, and nonfederal sources. A brief discussion of each type of data source is presented.

EIA-Sources

Since the EIA is the primary federal agency charged with the collection and publication of objective and validated energy information, many EIA series were used in the development of the data base. In fact, it was specified as a requirement that EIA data sources should be given first priority and that, if EIA series were considered inadequate, a discussion of the inadequacy should be provided. Data from the EIA's Natural Gas Production and Consumption: Annual

TABLE 2.2. Summary of Data Sources by Type

	EIA	Other Federal	Non-Federal
Electricity			EEI, <u>Statistical Year Book</u>
Natural Gas	<u>Natural Gas Annual Cost and Quality of Fuels</u>		
Metallurgical Coal	<u>Coke and Coal Chemicals</u>		
Steam Coal	<u>Cost and Quality of Fuels</u> EIA-3	<u>Annual Survey/Census of Manufactures</u>	AGA, <u>Gas Househeating Survey</u>
Distillate	<u>Cost and Quality of Fuels</u> EIA-9A	<u>Annual Survey/Census of Manufactures</u>	EEI, <u>Statistical Year Book</u> Platt's NOAA, <u>Historical Climatology Series</u>
Motor Gasoline	EIA-79	<u>Consumer Price Index Highway Statistics</u>	Platt's
Diesel		<u>Agricultural Prices Highway Statistics</u>	
Kerosene	<u>Cost and Quality of Fuels</u> MPPPR* <u>Retail Sales and Inventories of Fuel Oil</u>	<u>Agricultural Prices Producer Prices and Price Indexes</u>	
Jet Fuel	MPPPR*	<u>Agricultural Prices Producer Prices and Price Indexes</u>	
Residual	<u>Cost and Quality of Fuels</u> EIA-460 <u>Deliveries of Fuel Oil and Kerosene</u>	<u>Annual Survey/Census of Manufactures</u>	EEI, <u>Statistical Year Book</u>
LPG		<u>Agricultural Prices Annual Survey of Manufactures</u>	AGA, <u>Gas Househeating Survey</u>

* Monthly Petroleum Product Price Report

provided most of the data for state-level natural gas prices for the residential, commercial, industrial, and transportation sectors. Cost and Quality of Fuels for Electric Utility Plants was the main source of price series for fuels used in the electric utility sector. Other EIA sources include Coke and Coal Chemicals for metallurgical coal, the EIA-9A series for distillate fuels, EIA-79 for gasoline, EIA-3 for industrial steam coal, and EIA-460 for residual fuels, jet fuel, and kerosene.

It should be noted that many predecessors of the EIA data bases, such as those from the Bureau of Mines and from the Federal Power Commission, are treated as part of the EIA data sources. Note also that the major exception to use of EIA data series as data sources occurs with respect to electricity prices. Although EIA sources contain detailed information for individual electric utilities, state-level aggregation is lacking. In contrast, the data from the Statistical Year Book of the Edison Electric Institute is consistent and of requisite detail and sample size. Therefore, the latter was adopted. Additional information can be found in the subsection on Nonfederal Sources.

Other Federal Sources

Several non-EIA federal price data sources were utilized in the data base. Data from the Census of Manufactures and the Annual Survey of Manufactures by the Bureau of the Census are used to derive industrial sector prices for steam coal, distillate fuel, and residual fuel. Bureau of Labor Statistics' Consumer Prices and Price Indexes data are used in the gasoline series. Producer Prices and Price Index data are used for jet fuel. The Department of Agriculture's Agricultural Prices is a data source for diesel fuel, kerosene, and LPG.

Nonfederal Sources

Three non-EIA nonfederal data sources representing industry or quasi-industry data sources are included in the data base. The most important one is the EEI Statistical Year Book data used for electricity prices for all four end-use sectors. As noted above, the lack of state-level detail in the EIA data, the comprehensiveness and consistency in the EEI data, and the large sample

size were the reasons for using the EEI data. The following comments on this choice were received during the formal EIA review process:^(a)

The selection of a non-Energy Information Administration (EIA) data source for the state electricity price series is unusual, but justified by the following factors:

- o Consistency - The EEI price series has been collected for 20 years and electricity sales revenue for all utilities (private and public) are allocated to the state in which the sales take place.
- o Large sample coverage - Reporting companies in the EEI survey account for 97 percent of the total electric generation.
- o Adequate sector detail - Residential, commercial, other, street and highway lighting, industrial and transportation sectors are covered by the EEI data.

Another nonfederal data source is Platt's Oil Price Handbook and Oilmanac which contains wholesale prices and some retail prices for major petroleum products for ports and refinery centers. This source is used to supplement available EIA data for distillate and residual fuel prices in the residential, industrial, or commercial sectors, and gasoline prices and jet fuel prices in the transportation sector. The other nonfederal price data source used is the American Gas Association's Gas Househeating Survey. It provides residential sector prices for LPG and coal.

2.2.2 Inconsistent Definitions

Since the sources incorporated into the STEPS were initially developed for purposes which are different from those of this project, it would be unlikely that completely consistent definitions of end-use sectors would exist. Moreover, since the data base covers a long historical period, changes in the sectoral definitions have occurred. Some relevant observations on these inconsistencies are noted below.

First, the residential and the electric utility sectors have the most consistent sectoral definitions across data sources. The residential sector

(a) Takayama, T. Memorandum on "Review of Draft Working Papers on Methodology Review and Recommendations for Electricity and Natural Gas Price Data Series" March 25, 1981.

prices reflect the prices charged to households, while the electric utility sector prices are those charged to utilities for the fuels they purchase to generate electricity. One area of inconsistency in the residential sector is in the treatment of master-metered apartments; these are sometimes considered part of commercial sector usage. In the case of electric utilities, there are some minor changes in the coverage of natural gas consumption over time.

Second, a substantial ambiguity occurs in the definitions of the commercial and industrial sectors. For both electricity and natural gas, there may be some commercial usage included in the industrial sector data, and vice versa. The reason for this is that the original data compiled by the electric and natural gas utilities are reported by rate schedule categories rather than by end-use sectors as defined in this study (see Section 3.1.2). For electricity, the most important component included in the commercial sector is the "small power and light" EEI data category, which may include some small manufacturing firms. Conversely, some large commercial accounts may be included in the "large power and light" category, resulting in their being treated as part of the industrial sector in this report. The same situation probably occurs with natural gas data, although to a lesser extent. Note that it is not clear how irrigation use of electricity is treated in the EEI data. It may be that the smaller accounts are included in the small power and light category, while the larger accounts are included in the large power and light category. If this is true, then this would also involve the same sectoral inconsistency.

Another important discrepancy in the industrial sector definition occurs due to use of the Bureau of the Census ASM and CM data for steam coal, distillate fuel, residual oil, fuel and LPG. This data source is limited to the manufacturing sector, while the industrial sector is defined to include agriculture, mining, and construction, as well as manufacturing.

2.2.3 Hierarchy of Imputation

Piecing together diverse data sources in order to meet the requirements of the STEPS resulted in gaps and discrepancies which had to be filled through imputation procedures. These procedures include mapping, linking, and price assignments. The data points derived from such procedures are "imputed data" or "synthetic data." The different imputation techniques used resulted in

variations in the degree of "imputedness" in the state-level energy price series. The following hierarchy of imputation is found in this study:

- No Imputation: Except for combining some of the originally reported categories to be consistent with the classifications and definitions adopted for the data base, no imputation is made in the data base development process. More than one data source may be used, however.
- Mapping: Two or more data series with similar or comparable definitions and coverage are mapped or spliced together using regression equations.
- Linking: Data points outside the period covered by original source data are generated by assumed relationships or regression equations, linking the available data to an ongoing series.
- Price Assignments: The price data for a fuel in a specific state or region are assigned to a neighboring state or region, with or without a constraint, or prices of one fuel are assigned to another fuel.

Table 2.3 provides a summary of the price series in terms of this hierarchy of imputation. It is intended to provide an overview of the types of imputation techniques used in developing each data series. The letters A to C and D to F indicate the degree to which each fuel type and end-use sector is affected by data imputation. Electricity, natural gas and diesel are marked A/D, showing that there is no imputation of data for any state or year. At the other extreme, all of the residual fuel price data for the commercial and transportation sectors are developed through linkage to other data series by assumed relationships. Note that details of the computational procedures and data sources used in the imputation are documented in Chapter 4 of this volume.

2.3 RECOMMENDATIONS

As part of the data base development process, preliminary recommendations were formulated regarding data sources and imputation procedures for use in the STEPS. After a formal EIA review, such recommendations, appropriately modified

TABLE 2.3. Hierarchy of Imputation in the STEPS

<u>Energy/Fuel</u>	<u>End-Use Sector</u>	<u>No Imputation</u>	<u>Mapping</u>	<u>Linking</u>	<u>Price Assignment</u>
Electricity	Residential	A/D			
	Commercial	A/D			
	Industrial	A/D			
	Transportation	A/D			
Natural Gas	Residential	A/D			
	Commercial	A/D			
	Industrial	A/D			
	Transportation	A/D			
	Electric Utility	A/D			
Metallurgical Coal	Industrial	B/D			C/D
Steam Coal	Residential	B/E	A/F		C/D
	Industrial	B/E	A/F		C/D
	Electric Utility	A/D			
Distillate Fuel	Residential	C/F		B/D	B/D
	Commercial				A/D
	Industrial	B/F		A/F	A/F
	Electric Utility	A/E	A/F		
Motor Gasoline	Transportation	C/F		C/F	C/E
Diesel	Transportation	A/D			
Kerosene	Residential	A/F		A/F	C/F
	Industrial			A/F	A/E
	Electric Utility	A/E	A/F		C/F
Jet Fuel	Transportation			A/F	A/D
Residual Fuel	Commercial			A/D	
	Industrial	A/E		A/F	A/F
	Transportation			A/D	
	Electric Utility	A/E	A/F		
LPG	Residential	B/E	A/F		C/E
	Industrial				C/E

Key:

A = all states	D = all years
B = most states	E = most years
C = some states	F = some years

by the comments and suggestions from the review process, as well as pragmatic considerations in implementation, have been incorporated in the data base documented in Chapter 4 of this volume. The general description of the data base in Section 2.1 reflects these recommendations. Moreover, the recommendations as originally formulated and subsequently modified are presented in Chapters 2 through 10 of Volume II of this report. Therefore, they will not be repeated here. In this section, however, recommendations covering subjects of data presentation and publication, validation, updating data procedures, and related research needs are discussed.

2.3.1 Data Presentation and Publication

Since the data base contained in this report was developed using diverse data sources, and since some of the data points were taken directly from the original data sources whereas others were imputed using different procedures, it may prove useful to inform potential users of this characteristic of the data base. In this respect, materials contained in "General Descriptions" (Section 2.1), "Findings" (Section 2.2), and "Methodological Overview" (Chapter 3) can contribute to a better understanding of the nature and appropriate use of the data base. Therefore, it is recommended that the EIA, in releasing the data base for public use, include those materials in the documentation of the data base instead of just publishing the materials contained in Chapter 4 of this volume.

2.3.2 Validation

During the data base development process, the research team has taken great care to verify the data points against the original data sources to minimize errors in copying and transferring. Because of the restrictions imposed upon the research in terms of the data base review criteria, the time and resource constraints, and the scope of work, other data sources, particularly those collected by individual state agencies, could not be used in validation of the data series. Therefore, it is recommended that validation be carried out using independent price series for this purpose. One example of this validation approach is the comparison of gasoline prices included in the data base with those from Oil and Gas Journal, and Platt's, as well as available individual state series. Other examples include distillate heating oil, residual oil, and

coal price series that are collected by other entities such as states and trade associations.

2.3.3 Updating

It is recommended that the data base be updated annually as new data become available, according to the procedures explained in Section 4 of this volume. During the updating process, the empirical regression equations utilized to generate estimates for years prior to 1980 need not be re-estimated unless there is strong evidence that such re-estimation would result in significantly improved data points. On the other hand, such re-estimated equations could be used in imputing data points for years after 1980, if necessary.

2.3.4 Data Processing Procedures

To the extent possible, current procedures for processing data collected on some DOE or EIA reporting forms should be modified to derive information for use in the state energy price data base, especially when such modifications would involve little or no additional cost. These potential improvements in data processing procedures relate to the following forms and publications:

EIA-9A: Currently, monthly prices for 24 states (including the District of Columbia), DOE regions, and the U.S. are calculated, but annual averages are not. Gross margins are also published monthly but not annually. Since the monthly volumes are not published, simplifying assumptions were required to develop annual prices for the STEPS. The absence of both annual values and monthly volumes is likely to force many users of the EIA-9A data to use simple averages that may create systematic bias in the estimation of annual prices. Therefore, it is recommended that current data processing procedures be modified so that the volume-weighted average annual prices and margins are available for at least the nation and the DOE regions.

Consideration should also be given to releasing information on volume data at the national, regional, and state levels. Such information is important in the analysis of seasonal usage patterns and the impacts on energy consumption of weather fluctuations and other short- or long-term disturbances, and may prove useful in contingency planning.

EIA-460: Since volume data are not reported in the "Monthly Petroleum Product Price Report," it would be useful if a composite price were published for residual fuels. At the present time, national prices are published for No. 5, No. 6 and Bunker C fuel, but no information is available on the relative volumes of each.^(a)

2.3.5 Data Collection Procedures

Development of the state price series was hindered by lack of sectoral data for several types of fuel. The data deficiencies range in magnitude from cases such as commercial use of coal where no data are available, to cases such as residential use of kerosene where no data since 1976 are available and to cases where the quality of available data could be improved. While collection of data for sectors not presently covered by any government or industry source is recommended, only those data gaps which could be filled by modifying present EIA forms or by one-time studies of relative prices are discussed below.

EIA-9A: In its present form the EIA-9A survey collects data for the industrial and commercial sectors combined. Since the sectoral classification of "commercial" and "industrial" sectors is in widespread use, the benefits and costs of changing the EIA-9A source form so that separate prices for commercial and industrial sectors can be directly calculated should be carefully analyzed.

EIA-460: This form is the source of national average prices for a range of refined petroleum products. Though highly aggregated, these data are crucial to development of several of the state fuel price series. Either an expansion of the sample or processing of the currently collected data to calculate regional prices would greatly increase the accuracy of some of the state price series. Therefore, it is recommended that this possibility be considered. If publication of regional prices is feasible, it would be advantageous to make regional consumption volume data available, as well.^(a)

(a) We understand that substitute forms are being developed for EIA-9A and EIA-460. The above recommendations are applicable to the substitute forms.

FPC-1; ERA-412: The data collected on these two forms together are quite comparable to the data collected by the Edison Electric Institute, which are used in the State Energy Price System. If both of these forms were changed to request that the information be provided by state of service (as it is provided to EEI), the resulting data could be used in developing state-level prices.

EIA-174: This form collects data for sales of LPG by product and state. Considerable detail of the product end uses is requested, but the residential and commercial sectors are combined. Development of weighted average prices for LPG at the state level would be enhanced if the residential and commercial volumes were reported separately.

Steam Coal: While mine-mouth coal prices are readily available, there is little collection of end-use data other than for utilities. The industrial steam coal data from EIA-3, ASM and CM have many gaps; residential data in the Gas Househeating Survey have not been collected since 1978, and commercial data are nonexistent. If no long-term data collection programs are initiated, it would be useful to at least establish relative coal prices among the sectors. This would provide a benchmark for extrapolation of the sectoral series from the utility price data available from Cost and Quality of Fuels. If such a price survey is undertaken, it should be designed to provide detail for DOE regions rather than just for the U.S. as a whole.

Residual Fuel Oil: A similar situation exists with regard to residual fuel oil in that commercial sector data are not available. Here, too, a one-time survey would be useful in establishing relative price levels among sectors in each DOE region.

2.3.6 Related Research

In developing the data base, we have identified several research tasks which either utilize or enhance this data base. These tasks include development and analysis of state energy expenditure accounts and analysis of energy price variations. Each of these is briefly explained below:

Further Improvement in the State Energy Price System

In developing the data base documented in this report, the research team has endeavored, subject to budget and time constraints, to seek out the best available data sources and to apply the most theoretically and empirically sound approach for imputing missing data. It is our belief that the present data base is sound and well documented. There are, however, some improvements possible in light of our experience and the comments received during the formal EIA review process.

First, some of the assumptions incorporated into the data need to be tested further. Examples include the assumptions made to enable imputation of commercial sector prices for distillate and residual fuels. Second, some imputation procedures can be improved upon. One example is the weights used in deriving annual average prices from monthly prices for distillate heating oil in the residential sector. Ideally, state-level monthly usage patterns for individual years should be used. Attempts to use the EIA-9A data were unsuccessful and substitution of industry data was not feasible because of confidentiality restrictions, so the normal heating-degree-day data by state were used. A possible improvement would be to substitute the actual year-by-year heating requirements for the use of the normal heating-degree-day data. Another improvement would be to use actual consumption volumes.

Third, as new data sources become available, they may be incorporated into the data. Some of these potential new sources are mentioned in the earlier discussion on data processing and collection procedures. Other examples are the data on volume-weighted average price of high sulfur No. 6 fuel oil for the industrial sector from EIA-194 "Monthly Alternate Fuel/Incremental Price Monitoring Report" and the state-specific Btu conversion factors for natural gas being developed by EIA. If such data prove to be adequate and consistent for the purpose of this data base, they should be incorporated.

Fourth, most of the price series in the data base go back only to 1970. For many purposes, extension of the data series back to 1960 is needed. Since data unavailability was the primary reason that the present data cover only the years since 1970 (except for electricity and natural gas price series),

methodological development would be needed to allow extending the data series back, particularly in linking with other data series. To some extent, such methodological study can be viewed as part of the validation work discussed in Section 2.3.2.

Analysis of State Energy Expenditure Accounts

As explained in Chapter 1, one of the objectives of developing a state-level energy price data base is to facilitate the development of state energy expenditure accounts by combining the price series with the SEDS data. It is our understanding that the EIA has initiated preliminary work on a limited analysis of energy expenditures and their policy implications. We believe that a comprehensive analysis of energy expenditure patterns at the state level will be useful to decision makers at the state, regional, and national level for dealing with many issues. For example, analysis of the trends and relative magnitudes of energy expenditures in total and by fuel type for each of the end-use sectors would allow identification of the states and energy markets sensitive to various energy policies, including fuel substitution. It may be possible to establish systematic relationships between relative energy expenditures and economic and demographic factors such as interregional population migration. It would also be possible to determine the role played by energy prices in the relative shares of the fuels used in each state. For the residential sector, the relative burden of energy expenditures can be compared to housing, health, and food expenditures. For the commercial and industrial sectors, energy costs can be compared to other costs of doing business.

Analysis of State and Regional Variation in Energy/Fuel Prices

The STEPS data base generally contains consumption-weighted average prices. Due to the averaging process, the substantial variations in prices among cities within a state, and sometimes among states within a region, are lost. It is useful, therefore, to provide a perspective on the variability of prices within states for some sectors. Such an analysis should have three emphases: the price variation within states, among states, and among regions; the factors underlying the variation; and the implications of price variability for public policy. Tools which can be used for such analyses include descriptive statistics, graphic representations, and other exploratory

statistical techniques. The results of this analysis would be a useful input to a wide variety of energy-related forecasts, as well as to energy policy formulations, because they would provide an indication of the direction and magnitude of regional deviations in responses from the national norm.

Structure of Energy Prices Among Fuels

At the end-use level, the hierarchical relationships among energy prices, if any, can be established and the factors underlying the current price structures and trends can be identified. Another area of interest is the structure of energy prices through the stages of production, transportation, and distribution. The third need is for identification of historical disturbances to energy markets on a fuel-by-fuel basis. These disturbances include embargos, wars, strikes, supply interruptions, persistent demand pressures, price controls, major new supply additions, weather extremes, and other temporary and persistent occurrences. A better understanding of the overall structure of the energy markets and the sensitivity to various types of exogenous factors would enhance state-of-the-art economic and energy forecasting and analysis capabilities. Statistical analysis would be performed to study how initial disruptions in one fuel market are transmitted to other fuel prices, integrating the relationships identified in the market structure as well as measures of technical and economic substitutability among fuels in various uses. This study would be based mainly on monthly series of national average prices.

3. METHODOLOGICAL OVERVIEW

This chapter presents an overview of the approach and methodology adopted in the development of the STEPS. First, some of the basic concepts and terms are defined, including prices, sectors, and fuels. Then the basic approaches used in reviewing existing data sources, analyzing imputation options, formulating recommendations, preparing documentation, and implementing the procedures are explained. The criteria for selecting data sources for possible use in the data base are set forth. Data and methodology related issues, such as the application of state energy price data, availability and quality of primary data, the need for imputation and the nature of imputed data, consistency with other EIA energy data bases and use of state or locally generated data are also discussed. The purpose of this methodological discussion is to provide background for the data base documented in Chapter 4 and to give users of the data base a better appreciation of the nature, quality, and limitations of the specific energy price series used.

3.1 DEFINITIONS

Since the data base includes state-level prices for various fuels by end-use sector, the discussion of definitions covers the concepts of price, end-use sectors, and fuel categories. Ideally, the definitions of the items included should be uniform over time and the coverage should be consistent. However, it is important to note that the data base included in this report is not the result of a primary data collection effort, but is, instead, developed from various data sources. For this reason, the uniformity of the definitions and their consistency is not as great as might otherwise be desired.

3.1.1 Concepts of Price

Price is a basic economic concept. Generally, price represents the amount of money that is transferred to effect a transaction of a unit of product or service. Since there are many dimensions of a transaction, many different concepts of price may apply to a product or service. In this subsection, we first explain the possible dimensions of a transaction, then discuss the different types of prices, noting the nature of the prices included in the data base.

Dimensions of a Transaction

The dimensions of a transaction that affect the price include the quality of the product or service involved in the transaction, terms of payment, the timing and location of the transaction, the inclusion or exclusion of transportation and distribution costs, quantity discounts, and the nature of the customer classes. Each of these is briefly explained below:

- o Quality of the Product. In the energy area, there are numerous examples of product quality affecting the product price. Coal prices may vary with heat content and sulfur levels; electricity and natural gas service may be interruptible; and residual oil may have different levels of sulfur content.
- o Terms of Payment. Depending on whether the transaction is a cash sale, charge sale, or installment sale, the price charged for the product or service may differ.
- o Time and Location. The price of gasoline during the summer travel season may be different from that in February. The price of natural gas in Texas may be quite different from that in Washington. The spot price is different from the long-term contract price. Prices may change hourly, daily, weekly, monthly, quarterly, or yearly.
- o Transportation Cost. The delivered price of crude oil will be different from the f.o.b. price; the city-gate price of natural gas is different from the delivered price to households.
- o Quantity Discount. The volume of the transaction may affect the unit price, in the form of a discount for large volumes. The price difference may actually reflect some of the reduced cost of effecting the transaction.
- o Customer Classes. The prices to residential, commercial, industrial, and electric utilities differ, partly because of differences in transaction and transportation costs. Similarly, wholesale prices differ from retail prices.

Types of Prices

Commonly used types of prices include average price, marginal price, typical bills, wholesale price, retail price, spot price, contract price, and

delivered price. Average price may refer to "average revenue per unit of product," a population weighted average price, or the average of price quotes over a period such as a day, a week, a month, or a year. Marginal price refers to the price charged for the last unit of product purchased by one single buyer or a class of buyers during a specified period of time, in a situation where the price charged changes with the amount purchased. With quantity discounts, such as are found in the traditional electricity and natural gas rate structures, marginal price is usually lower than average price.

Typical bills are the total price for a specific amount of the commodity in question. They are usually used for cost comparisons for an average consumer, over time or in different geographical areas, using standard measures: 500 kilowatt-hours (kWh) per month of electricity, or 25 therms per month of natural gas. Since consumption of electricity and natural gas varies at different times and in different areas, average price may not provide a valid basis for energy cost comparison. By calculating the typical bills, the quantity dimension of the price measure is held constant so that cost to consumers over time and over geographical areas can be compared on a more consistent basis. The Bureau of Labor Statistics publishes typical bills for electricity and natural gas.

Retail prices are those paid by buyers of a product who intend to use the product for final consumption or production purposes, not for resale to others. Wholesale prices are charged to those who purchase a product for the purpose of reselling it at a profit. The spot price is the price quoted for an "on the spot" transaction as opposed to the long-term contract price which is intended to be in effect over a long period of time, usually with some specified mechanism for changing the price quotes. Delivered prices are those that include the cost of delivering the product from the seller's place of business to that of the buyer. The cost of delivery may include transportation, insurance, and customs taxes.

Price Concept Used in This Study

As noted, the objective of this study is to develop an energy price data base for the 50 states and the District of Columbia, based upon existing data sources. The data cover the period from 1970 to 1980 and are to be used by the EIA in its regional energy and analysis activities, in developing state energy expenditures accounts, and general monitoring and information

activities. With such intended use of the data, the price concept adopted in this study is the average retail price per unit of fuel. In general, average prices are quantity-weighted when quantity weight data are available. In some cases, however, proportional and other linear relationships are used in imputation so quantity weighting cannot be applied. Unless otherwise noted, the retail prices reported include all taxes.

3.1.2 End-Use Sectors

The classification by end-use sector adopted in this data base is in accordance with common practice in energy accounting and consistent with SEDS and with the EIA's Annual Report to Congress. There are five end-use sectors: residential, commercial, industrial, transportation, and electric utility.

The residential sector consists of households occupying single family homes, multiple family dwellings, and mobile homes. The commercial sector includes retail and wholesale establishments, office buildings, warehouses, educational facilities, hospitals and other health care buildings, commercial lodging facilities, recreational, other assembly buildings, and utilities except electric utilities. The industrial sector includes manufacturing, agriculture, construction and mining. The transportation sector covers common carrier air, ground, and water transportation for passengers, freight, and other cargoes. Common practice also includes gasoline and diesel use by private automobiles in the transportation sector. The electric utility sector covers power plants which consume primary energy sources such as coal, oil, natural gas, and nuclear fuels to generate electricity.

It is often useful to indicate the Standard Industrial Classification (SIC) codes for each of the sectors as shown in Table 3.1. Note that although the definitions and classifications shown are the intended mode, the data sources from which state-level energy prices in this data base are derived commonly deviate from these definitions. Some such inconsistencies are briefly described below.

For electricity and natural gas prices, the division between the industrial and commercial sectors is sometimes blurred because of the nature of the original data. Collection of data on electricity kilowatt-hour sales and revenues is generally based on the specific rate schedules in use by individual utilities. Historical data on sales of electricity to both businesses and industries are generally grouped in two categories: "small power and light,"

TABLE 3.1. End-Use Sectors and Corresponding Industrial Classifications

<u>End-Use Sector</u>	<u>Industrial Group</u>	<u>SIC Code</u>
Residential	Households	No Corresponding Code
Commercial	Construction	SIC 15-17
	Public Utilities Other Than	SIC 48
	Electric Utility & Public	SIC 49 except 491 &
	Transportation	part of 493
	Wholesale & Retail	SIC 50-59
	Finance, Insurance & Real Estate	SIC 60-67
	Services	SIC 70-89
	Government	SIC 91-93
Industrial	Agriculture	SIC 1-9
	Mining	SIC 10-14
	Manufacturing	SIC 20-39
Transportation	Transportation	SIC 40-47
	Household Transportation	No Corresponding Code
Electric Utilities	Electric Utilities & Systems	SIC 491 & part of SIC 493

requiring less than 1000 kilowatts of service, and "large power and light," requiring more than 1000 kilowatts of service. There may be small manufacturing establishments which, under the above SIC code definitions, are included in the industrial sector but which are also included in the "small power and light" category and, thus, in the commercial sector. Similarly, there may be large commercial business which, by the SIC classifications, should be included in the commercial sector but are actually included in the "large power and light" category in the data because their service demand is greater than 1000 kilowatts. In this study we have followed the convention of equating the "small power and light" to the commercial sector,^(a) and the "large power and light" to the industrial sector.

Another example of the lack of precision or consistency in the definitions of sectors occurs in the transportation sector. As mentioned elsewhere, the household use of automobiles has been included in the transportation sector. Thus, all residential transportation use of motor gasoline has been assigned to

(a) The "enlarged" commercial sector also includes "street and highway lighting, " "sale to public authorities," and others.

the transportation sector. To be consistent, household use of electric vehicles should also be attributed to the transportation sector. However, current data do not allow separation of the electricity used in recharging the batteries used in these vehicles. Since the present household use of electric vehicles is limited, this is not a significant problem. If the use of electric vehicles were to increase substantially in the future, this might become an important issue.

Another example of inconsistent definitions is related to natural gas. Prior to 1967, the industrial sector data in Natural Gas Annual include those for pipeline fuels and electric utilities. Without attempting to disaggregate the latter two categories from the combined data, the state natural gas price series for the transportation and electric utility sectors start in 1967, while the combined data are used for the industrial sector for the period 1960 through 1966.

3.1.3 Fuels

Ten major fuels are included in this study. They are electricity, natural gas, coal, distillate fuel, gasoline, diesel fuel, kerosene, jet fuel, residual fuel, and liquefied petroleum gas (LPG). Other minor fuels, such as lubricant, road oils, and asphalt that are separately listed in the SEDS data, are not included in this study. Neither are fuels such as wood, wood waste, and other renewable resources, due to lack of consistent data.

In this study, we adopted the following definitions of the major fuels, which are consistent with the EIA's Annual Report to Congress:

- Electricity. At the end-use level, there are 3412 Btu/per kilowatt hour of electricity.
- Natural Gas. A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in natural underground reservoirs.
- Coal. A naturally occurring solid fuel with substantial variation in heat, sulfur, and ash contents. Usually includes anthracite, bituminous coal, lignite, and subbituminous coal. Each of these is defined below:

Anthracite. A hard, black, lustrous coal containing a high percentage of fixed carbon and a low percentage of volatile matter; often referred to as hard coal. It includes meta-anthracite and semianthracite and conforms to ASTM Specification D388 for anthracite.

Bituminous. A coal that is high in carbonaceous matter, having a volatility greater than anthracite and a calorific value greater than lignite. Often referred to in the United States as soft coal, it includes subbituminous coal and conforms to ASTM Specification D388 for bituminous and subbituminous coal.

Lignite. A brownish-black coal of low rank with high inherent moisture and volatile matter. It is also referred to as brown coal. It conforms to ASTM Specification D388 for lignite, and is used almost exclusively for electric power generation.

Subbituminous. Black lignite or lignite coal of rank intermediate between lignite and bituminous coal. It conforms to ASTM Specification D388 for subbituminous coal, and is used almost exclusively for electric power generation.

- Distillate Fuels. A light fuel oil condensed from vapor during the distillation of petroleum. Included are products known as No. 1 and No. 2 heating oils, diesel fuels, and No. 4 fuel oil, which conform to either ASTM Specification D396 or D975. These products are used primarily for space heating, on- and off-highway diesel engine fuel (including railroad engine fuel), and electric power generation.
- Motor Gasoline. A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that have been blended to form a fuel suitable for use in spark ignition engines. Included are leaded and unleaded products and all refinery products listed in ASTM Specification D439.
- Diesel. A type of distillate fuel oil. Included are No. 1-D, No. 2-D, and No. 4-D diesel fuel with an average Btu content of 5.88 million Btu per barrel.
- Kerosene. A petroleum distillate having burning properties suitable for use as an illuminant when burned in wick lamps. It includes grades

of kerosene called range oil, having properties similar to No. 1 fuel oil, and is used primarily in space heaters, cooking stoves, and water heaters.

- Jet Fuel. Includes both naphtha-type and kerosene-type jet fuel meeting standards for use in aircraft turbine engines or meeting ASTM Specification D1655. Although most jet fuel is used in aircraft, some is used for other purposes, such as fuel for turbines to produce electricity.
- Residual Fuel. The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are boiled off in refinery operations. Included are products known as No. 5 and No. 6 fuel oil that conform to ASTM Specification D396, heavy diesel oil, Navy special fuel oil, Bunker C fuel oil, and the acid sludge and pitch used as refinery fuels. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and for various industrial purposes.
- Liquefied Petroleum Gas. Propane, propylene, butane, butylene, ethane-propane mixtures, and propane-butane mixtures produced at a refinery or natural gas processing plant, including plants that fractionate raw natural gas processing plant liquids.

3.2 METHODOLOGY

In this section, the basic approach to the data development process is first explained. This is followed by a discussion of the data base review, analysis of options, formulation of recommendations, formal review, implementation, verification and validation.

3.2.1 Basic Approach

Development of the STEPS was carried out in a fuel-by-fuel fashion, starting with electricity and natural gas, followed, in general sequence, by coal, distillate fuel, gasoline, diesel, kerosene, jet fuel, residual fuel, and LPG. As shown in Figure 3.1, the basic development approach is composed of the following six steps:

1. Identify and review independent candidate data sources which are results of primary data collection processes.

FIGURE 3.1. Basic Approach in the Data Base Development Process

2. If the data base review does not identify data sources of state-level prices that can be used directly, perform an analysis of the options available for imputation.
3. Formulate recommendations concerning the data sources and the imputation procedures to be used in developing the data base.
4. Prepare a draft working paper for review, documenting the above analysis and making recommendations based on the findings.
5. After receiving comments from the EIA review, incorporate the relevant changes in the recommendations to prepare the computer code for transfer to the EIA after appropriate verification and validation.
6. Prepare a draft final report for review by the EIA and a final report which incorporates the appropriate EIA comments and suggestions.

Note that Steps 1 through 5 are repeated for each fuel price series included in the data.

3.2.2 Step 1: Data Base Review

Data base review, the first step in the data base development procedure, involved several elements. First a set of data base review criteria was established in accordance with requirements of the STEPS (as explained in Chapter 1), the intended uses of the data base, data accessibility and quality requirements of the EIA, and discussion with the project monitor. This set of review criteria was established and subsequently applied to the data base review process for all fuels. The criteria are described following discussion of the other elements in the data base review.

Second, available data series were identified utilizing the 1978 Ideamatics study and more recent information sources. Detailed information about each candidate series was obtained through telephone and personal interviews with personnel from the organization responsible for each series. This information was summarized in a data base review summary form. For an example showing the electricity price data from the Edison Electric Institute (EEI), see Figure 3.2.

Third, an initial screening of the available data series was conducted by matching the information gathered about each data series against the review criteria. This initial screening eliminated data sources which were deficient

PUBLICATION TITLE: Statistical Year Book of the Electric Utility Industry

ORGANIZATION: Edison Electric Institute

ADDRESS: 1140 Connecticut Avenue N.W., Washington, D.C. 20036

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Data Description: Electricity							
Geographic Scope	Level of Aggregation	Definition of Price/ Unit of Measurement	Sectoral Coverage	Data Collection Method	Sample Size	Sample Selection Criteria	Voluntary/ Mandatory Reporting
U.S.	State	Revenues/sales by sector, excluding taxes	Residential Commercial Industrial Street and highway lighting Other public authorities Railroads and railways	Mailed questionnaire Uniform Statistical Report - Annual	320 state utility operations	Utilities represent about 97% of total population	Voluntary
Any Collection Method Change	Validation Procedure		Imputation of Missing Data	Collection Frequency	Number of Years of Consistent Data	Lag to Publication	Comments
None	Crosschecking of monthly with annual data		No missing data at the State level	Annual, with sub-sample monthly	About 20 years	10 to 13 months for annual data	Data may be available by March if some reprogramming is done. Utilities report their operations in each state separately. Rural customers are added to residential or commercial classes. Fuel adjustment figures are allocated to sectors.

FIGURE 3.2. Sample Data Collection Form

in some important aspects from further consideration as candidates for the state fuel price series.

Fourth, a detailed comparison and review was then conducted for the remaining candidate series. An example of the comparison of data bases for distillate fuel is shown in Table 3.2. This comparative analysis determined whether a single data source or a combination of several data sources would yield the desired state-level price series for a particular fuel. If a single data source could be used, then recommendations were prepared (Step 3). If not, then analysis of options for imputation was conducted (Step 2).

Criteria for Data Base Review

A common set of criteria was established to screen data sources for each major fuel for possible use in the STEPS. Because of the overall importance of these criteria in the data base review, they are listed and explained below:

1. The price series must be developed by primary data collection. It is at the level of actual data collection and aggregation that the reliability of the data can be assessed. This criterion eliminates data bases that are a compilation or re-presentation of data from other sources.
2. The data must be published and be available from 1970, and must be collected on a consistent basis at fixed time intervals of one year or less. Since the EIA must, by law, make public any data which it uses,^(a) the STEPS cannot be proprietary in any sense. Consistency in the method and timing of data collection is desired because the EIA data base development must be on a continuing basis. Collection intervals of one year or less are necessary to allow for calculation of annual prices. This criterion rules out the use of data which do not form a comprehensive and consistent series, such as the data collected by individual state agencies.

(a) Department of Energy Organization Act. P.L. 95-91, Section 205, g.

TABLE 3.2. Comparison of Candidate Distillate Data Bases

Characteristic	EIA-9A	FPC Form 423	EEI	ASM MA-100	AGA	CPI	PPI	Platt's
Definition of distillate includes:								
No. 1 fuel oil	-	-	-(b)	+	+	-	-	+
No. 2 fuel oil	+	+	+	+	+	+	+	+
No. 4 fuel oil	-	+	+	+	-	-	-	+
Kerosene	-	+	-	-	+	-	-	-
No. 1-D diesel	-	-	-	+	-	-	-	-
No. 2-D diesel	+	-	-	+	-	-	-	+
Sectoral coverage:								
Residential	+	-	-	-	+	+	-	-
Commercial	(a)	-	-	-	-	-	-	-
Industrial	(a)	-	-	+	-	-	-	-
Electric Utility	+	+	+	-	-	-	-	-
Adequate data for state level estimates	+	+	+	+	-	-	-	-
Timely availability of data	+	+	+	-	+	+	+	+
Minimal missing data	+	+	+	+	-	-	-	-

+: Yes or available
-: No or unavailable

(a) Commercial and industrial prices are combined

(b) Also includes crude oil, residual oil, and small amounts of tar and gasoline.

3. The data must be reported at the company, utility, city, or state level. This criterion is designed to identify data bases that contain state-level price estimates and data bases from which state-level price estimates can be generated. Sources whose price data have a lowest aggregation level greater than the state level are, therefore, generally excluded from possible use in the data development process.^(a)
4. The data must cover the entire United States. This criterion is included in the review both to minimize the number of states for which prices have to be imputed, and to exclude data sources in which the accuracy of the data varies considerably across states. It was recognized, however, that some gaps in coverage of Alaska, Hawaii, and the District of Columbia may be unavoidable.
5. The data must be reported by end-use sector. This criterion screens out those data bases that aggregate all end-use consumption and those that categorize consumption by source or type of supply, rather than by demand sector. As noted, the five end-use sectors considered in this study are the residential, commercial, industrial, transportation, and electric utility sectors. However, not all five are required for each of the fuels considered.
6. Data collection and aggregation procedures must be documented by the source organization. In order to evaluate the accuracy of the data and its suitability for EIA purposes, factors such as sample design, product definitions, and price imputation methods must be known. This criterion rules out possible use of data bases whose source organization refuses to reveal the methodology used.
7. The data for a calendar year must be available before the end of the following calendar year. This is required because the price

(a) In the case of jet fuels, it is not possible to derive state-level data, so regional data are used.

series data are needed to prepare the EIA's Annual Report to Congress and other documents that must be produced in a timely manner. The specific time requirements are such that data sources with more than a 10-month availability lag are generally excluded from possible use.

8. The data must permit calculation of a volume-weighted cost per million Btu. This is required by the EIA. With this measure of energy price, the price data can be multiplied by consumption volume data to yield an estimate of total fuel expenditures. A price per million Btu consumed also ensures consistent measurement of end-use consumption across physical units that may vary in Btu content.^(a)

3.2.3 Step 2: Analysis of Options

Step 2 in the data base development process, the analysis of options for imputation, was contingent upon the result of the data base review in Step 1. If the review determined that existing data sources were adequate for direct adoption of state-level prices for a particular fuel, then recommendations were formulated without additional analysis. This happened with the electricity, natural gas, and, to some extent, with coal. If, on the other hand, review of the data bases revealed that existing data series were inadequate, then a detailed analysis of options was required before the recommendations were formulated. This was the case for portions of the coal price series, and the price series for distillate fuels, motor gasoline, jet fuel, and residual oils.

The analysis of imputation options included the following elements:

Element 1: Determine the sectoral, geographical, and time coverage of the usable data sources to identify gaps in coverage.

Element 2: Establish the logic and data requirements for the imputation procedure for each sector and for missing data points.

(a) It should be noted, however, that a state-level price per million Btu provides no indication of the range of prices in each state. Information about price ranges is important when consumer response to price change is being analyzed. Therefore, implementation of this criterion results in a data base that can only be used to generate very gross price response estimates for fuel consumption.

Element 3: Develop the detailed procedures and compare the costs and data requirements.

A variety of techniques were used for the imputation. In the simplest case, this involved splicing two different data series using simple ratios or simple regression equations. At the other extreme, some imputations involved multiple regression and pooling techniques.

3.2.4 Step 3: Recommendations

Based on the work conducted in Step 1 and Step 2, two categories of recommendations were formulated. The first category had immediate application in the task of developing the improved data base. The second category was composed of related recommendations that were derived in the course of the data review process and that have some eventual implication for the STEPS, but are at least one step removed from the task at hand. Many of these recommendations involve either substantial additional costs, or changes in the current operational procedures of the EIA regarding the collection, processing, and publication of existing EIA data series or future data series. Detailed discussions of the recommendations are included in Chapters 2 through 10, Volume II, of this report.

3.2.5 Step 4: Initial Documentation

Following the three steps explained above, initial documentation of the data development work on each fuel was prepared in the form of a draft working paper. Generally, the working papers covered the review criteria, the definitions of fuels and sectors, the data base review, the analysis of options for imputation (if any), and recommendations.

As shown in Figure 3.1, a formal EIA review was involved at this stage. The draft working paper was formally transmitted to the project monitor, who then distributed copies among the relevant EIA offices and divisions for their review and comments. These included the Office of Oil and Gas; the Office of Coal, Nuclear, Electric and Alternate Fuels; the Office of Energy Market and End Use; and the Office of Statistical Standards. After receiving comments from these offices, the technical monitor then summarized those comments and

his own in a letter to the project team for the next step of the data base development process.

3.2.6 Step 5: Implementation and Verification

After receiving the comments and suggestions from the formal EIA review, the project team then proceeded to implement the recommendations for the data base, incorporating the appropriate changes suggested through the formal review. In the simplest case, implementation meant transferring data from the original source to the EIA computer, performing simple calculations, and converting from physical units to Btu units by applying a conversion factor. In many cases, imputation for missing data points and for missing years was required. Such cases involved the development of linking equations through regression or other techniques.

At least two iterations were performed to verify the data generated. In the first iteration, a PNL project team member not directly involved in the data generation and data entry process of the specific fuel price series verified the numbers. As this was completed, the project monitor was informed of the availability of a particular data file on the computer. A copy of the data file was then made to the monitor's work space for verification. Any questions and problems regarding the data file raised by the EIA staff were answered and resolved. When the monitor was satisfied with the content and explanations of the data file, the data file was formally transferred.

3.2.7 Step 6: Final Documentation

Step 6, final documentation, involved preparing a draft final report and a final project report. The draft final report was prepared to provide a complete documentation of the STEPS data base and its development process. The report was aimed at fulfilling two objectives: 1) to allow EIA staff to trace the data development process so that they can perform the subsequent annual updates; 2) to allow the EIA to adopt all or portions of the report for publication in a technical documentation report on the data base.

As the draft final report was completed, it was transmitted to the EIA for a formal review process similar to the one explained above in Step 4. Subsequently, the final report was prepared by incorporating appropriate changes suggested from the formal review process. When the final report is transmitted, the State Energy Price System task will be completed.

3.3 DATA AND METHODOLOGICAL ISSUES

Several data and methodological issues are prominent in the development of the kind of data base documented in this report, including the potential uses of state-level energy price data, the need for imputation and the nature of the imputed data, data quality, and consistency with other data bases. These are discussed in this section.

3.3.1 Uses of State-Level Energy Price Data

Generally speaking, there are four possible uses of the STEPS developed as a result of this project:

- policy decision
- information and comparison
- market assessment and program evaluation
- analysis and short-term forecasting

These four uses are necessarily interrelated and somewhat overlapping. As explained below, the main differences among the four uses are a matter of emphasis.

Policy Decisions. State-level energy price data are used for making decisions in both the public and private sectors. With the rapid increase in fuel prices since the 1973-1974 oil embargo, industries and businesses are increasingly incorporating energy prices in their location and investment decisions. Consumers are becoming accustomed to basing their purchases of durable goods on energy efficiency and prices. Federal, state, and local governments are also basing their research, development, and other decisions on energy price information.

Information and Comparison. Energy price data provide information for understanding past trends and monitoring current developments in the relative prices of different fuels, as well as between fuels and other commodities, services, and factor inputs. These data are components of general price indicators such as the Consumer Price Index and the Producer Price Index. From the prices of the same energy source or fuel for different states, comparisons can be made in the cost of energy and fuels among states. With energy price

data, the annual operating costs of appliances can be estimated, as required in the appliance efficiency labeling program. In this program, the range of energy prices is combined with estimates of annual energy use of the appliance in question to yield a range of annual operating costs. Such information is provided to the consumer in a label on the appliance, enabling the potential buyer to compare the energy-related costs of the appliance. At the aggregate level, energy price data are also useful in constructing state-level energy expenditure accounts. This type of information can be used in comparing impacts of changing energy prices on households, businesses, and industries in the states and regions of the United States.

Market Assessment and Program Evaluation. The assessment of market potential for new sources of energy supply, as well as for new conservation and renewable resource technologies, requires information on current and expected future prices of competing energy sources. Similarly, the benefit/cost analysis of proposed programs to encourage energy conservation and utilization of renewable resources requires projections of future energy prices. Development of current and historical price data bases is a necessary first step in projecting future prices of competing fuels.

Analysis and Short-Term Forecasting. Energy price data are essential in the analysis, modeling, and forecasting of energy use, production, and energy market performance. Data are needed to establish the relationship between production, costs, prices, and consumption, such as in the estimation of price elasticities and cross elasticities. They are essential in the application of historical observations or forecasting of future developments.

It should be noted that the STEPS data base was designed to accommodate policy decision needs, to support efforts in the analysis and projection of regional energy markets and end-use activities, to develop state energy expenditures accounts, and to provide for other general information needs. Readers are reminded to keep these primary objectives of the data base in perspective when using it for different purposes.

3.3.2 Imputation and the Nature of Imputed Data

One important constraint on the data base development process was that existing data sources and analyses should be utilized without initiating any new data collection effort. This means that the quality of the resulting data base is limited by the quality of existing data sources. In addition, where

more than one data base met the review criteria, federal data sources were to be given priority.

Given the constraints of available data and the EIA requirements, certain price data had to be imputed either because the original data source did not distinguish between end-use sectors, or because data for certain years or states were missing. For the purpose of this report, the term "imputation" is used to refer to any of the following:

- Utilization of two or more data sources to derive a single sector-specific price series for a fuel. This often involves simple "splicing" of the data series involved by using simple ratios or empirically estimated regression equations.
- Extrapolation of a single data source to cover an earlier or later period than that for which the source data were collected, or when interpolation is required to fill in some of the missing data points within the data period for which the data were collected.
- Assignment of a price series for one fuel to represent a closely related fuel, or when a fuel-and-sector specific price series from one state or region is used to represent the same price series for other states or regions.

Whenever data points are derived through one of the above procedures, they are "imputed data" or "synthetic data." It is clear from the above discussion that there are variations in the degree of "imputedness" in the state-level price data developed. For the purpose of the present discussion, it is possible to designate the degree of "imputedness" according to the following hierarchy:

1. No Imputation: Except for combining some of the originally reported categories to be consistent with the classifications and definitions adopted for the data base and some minor imputations included in the source data, there is no imputation involved. However, more than one data source may be used to cover the data period. Included in this category are the price series for electricity and natural gas for all sectors considered, and the electric utility sector price data for steam coal.

2. Mapping: When two or more data series with similar definitions and coverage are mapped together, the degree of "imputedness" of the resulting data series is slight. The important question is the similarity and comparability of the definitions and coverage of the source data. So long as the definitions are consistent and coverage comparable, the accuracy of the imputed data series can be said to be comparable to that of the source data. Included in this category are electric utility sector price data for distillate and residual fuels, and kerosene.
3. Linking: In some cases there are missing data points during the data period or the source data must be extended to generate data points outside the original period by linking them to an ongoing data series. The degree of confidence assigned to the extrapolated data points is generally regarded as lower than that assigned to the mapped data points. This is a technique for scaling data series for consistency. Examples occur in the 1970 prices of steam coal, residual oil, and distillate fuel for the industrial sector.
4. Price Assignments: Price assignments occur in three ways: (i) The price series for a fuel in a specific state or region is assigned to a neighboring state or region, with certain prior information or constraint; (ii) same as (i) except that there is no prior information or constraint; and (iii) the price series for one fuel is assigned to a related fuel with prior information or constraint. In terms of degree of reliability, (i) is higher than (ii) which, in turn, is higher than (iii). Some examples are residential sector prices for distillate fuel and gasoline prices in some states.

Because the data base contained in this report is developed from a wide range of data sources collected for different purposes, and because of the necessity to impute some data points, it is not possible to give a degree of confidence, in the statistical sense, for the data included in the data base. This discussion of the hierarchy of "imputedness" is intended to give users of the data an indication of the relative accuracy of specific data points. While a summary of this information is provided in Table 2.3 in Chapter 2, detailed documentation on the imputation modeling is presented in Chapter 4 of this volume.

3.3.3 Consistency With the State Energy Data System (SEDS)

Since the STEPS is a comprehensive data base for state-level fuel prices for use in Federal and State efforts in analyzing regional energy markets, production, and end use, it would be ideal to have it consistent with other state-level energy data bases in use; in particular the State Energy Data System (SEDS) being maintained by the EIA. In this section, we explain some relevant aspects in regard to this consistency.

First, the sector classification is the same in both data systems. There are five sectors: Residential, commercial, industrial, transportation, and electric utility. Second, the fuel categories in both data bases are generally the same, although there are some differences, with the SEDS containing more fuels than the price data system. The fuels included in both systems are electricity, natural gas, coal, distillate fuel, gasoline, diesel, kerosene, jet fuel, residual fuel, and LPG. However, coal is disaggregated into an anthracite subcategory, and a bituminous coal and lignite subcategory in SEDS, while it is segregated into steam coal and metallurgical coal in the STEPS. Further, the price data base has a separate diesel price series for the transportation sector, whereas the SEDS includes diesel in distillate fuels.

The fuels which are included in the SEDS but not in the price data series documented in this report are: Asphalt and road oil for the commercial sector; lubricants and other petroleum products for the industrial sector; aviation gasoline and lubricants for the transportation sector; and petroleum coke, hydropower, nuclear power, geothermal power, and wood and wood waste for the electric utility sector. (However, it is our understanding that the EIA staff is developing price series for some of these fuel and energy sources for possible incorporation into the STEPS.)

For those fuels that are common to both SEDS and the price data system, the following may be noted:

- Electricity and Natural Gas. Sectors covered in both systems are essentially the same.
- Coal. In addition to the difference in disaggregation noted above, there is also a difference in sector coverage. The SEDS contains end-use consumption data for all five sectors, while the price system does not contain prices for the transportation or commercial sectors.

- Distillate Fuel. Unlike the SEDS, which covers all five sectors, the price system covers only residential, commercial, industrial, and electric utility sectors. For the transportation sector, as noted above, there are separate diesel and gasoline price series in the data base.
- Motor Gasoline. The SEDS contains consumption data for motor gasoline in the commercial, industrial, and transportation sectors. The price data base has only a motor gasoline retail price series for the transportation sector.
- Residual Fuel. Both the SEDS and the price data system cover the commercial, industrial, transportation, and electric utility sectors.
- Kerosene. Both data bases cover residential and industrial sectors. In addition, the price system covers the utility sector.
- Jet Fuel. The SEDS includes transportation and electric utility sectors, while the STEPS covers only the transportation sectors. Note that, in the STEPS, kerosene and jet fuels are combined for the electric utility sector.
- LPG. The SEDS contains residential, commercial, industrial, and transportation sectors, while the state energy price data cover only the residential and industrial sectors.

3.3.4 Use of State or Locally Generated Data

One of the requirements specified for the development of the price data base was that the method used for generating state-level prices for a single fuel should be consistent across states. This requirement precluded the use of any state or regional data sources. However, some such regional data may be useful for validation purposes, especially for those data points which were imputed. Because of time and cost constraints, this exercise was not included in the scope of this project.

4. STATE ENERGY PRICE SYSTEM: TECHNICAL DOCUMENTATION

This chapter presents a detailed technical documentation of the state-level fuel price series included in the STEPS. The fuels covered are electricity, natural gas, metallurgical and steam coals, distillate fuel, motor gasoline, diesel, kerosene, jet fuel, residual fuel, and LPG. The end-use sectors are residential, commercial, industrial, transportation, and electric utility. Only the natural gas data series has prices for all five of the sectors covered, while several of the other fuels have prices for only one sector. Of the latter, the motor gasoline, diesel, and jet fuel price series are for the transportation sector only, while metallurgical coal is for the industrial sector only. The other fuels have prices for two, three, or four sectors. A cross-classification of the available price series by fuel and end-use sector is shown in Table 1.1 in Chapter 1.

Generally, the documentation of each price series is composed of three parts: Data sources, conversion factors, and computation procedures. When the source data are used directly in the data base, the sources are given. When the data included in the data base are imputed from the source data, the sources and the computation procedures are specified. Sources for quantity weight data used in the computational process are also given. In most cases, the conversion factors and their sources are included in the sections documenting each price series. However, in cases for which the conversion factors are state- and year-specific, the conversion factors are given only in Appendix D, which also includes all of the conversion factors given in the text of this chapter. An explanation of series naming conventions is given in Appendix A.

In the documentation of the computational procedures in this Chapter, the focus is on description of the procedures and provision of the computational detail, rather than explanation of the approach. (Justification of the choice of data sources, assumptions, and methods are explained in Volume II of this report). For each price series, the equations and the definitions of the variables are given. In cases where estimated regression equations are used in the imputation process, only the estimated coefficients used for imputation are shown in this documentation. The other associated statistics, such as coefficients of determination (R^2) and t-values, are shown in the chapter on each of the individual fuels in Volume II. Appendix F in Volume II provides a simple explanation of the regression analysis used in this report.

In most cases, the prices included in the individual series are volume-weighted state average retail prices, including taxes. The major exception is jet fuel, in which case the prices are wholesale prices excluding taxes and are at the Census Region level. In addition, where the prices are imputed, then the "volume-weighted average" quality of the prices is no longer assured.

The following sections document the data sources, conversion factors, and computational procedures for, in sequence, electricity, natural gas, metallurgical coal, steam coal, distillate fuel, motor gasoline, diesel, kerosene and jet fuel, residual fuel, and LPG. For each fuel with price series for more than one end-use sector, the explanation is on a sector-by-sector basis, with the exceptions of electricity and natural gas. Since electricity price data for all four sectors are from a single source and the computational procedures are similar, the documentation treats all four sectors together. In the case of natural gas, the electric utility sector data sources are different from those for the other four sectors. Therefore, documentation for the electric utility sector is treated separately while the other sectors are combined.

4.1 ELECTRICITY

The electricity price series are derived for the residential, commercial, industrial, and transportation sectors. The prices are retail prices; it is unclear, however, whether or not they include state and local taxes.

4.1.1 Data Source

1960-1980	Edison Electric Institute, <u>Statistical Year Book of the Electric Utility Industry</u> , Table 36S, "Revenues - Total Electric Utility Industry" and Table 22A, "Energy Sales - Total Electric Utility Industry."
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4.1.2 Conversion Factor

1960-1980	U.S. Department of Energy, Energy Information Administration, <u>Monthly Energy Review</u> . 3412 Btu/kilowatt hour
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4.1.3 Computational Procedures

1. All electricity prices are calculated as average revenue per unit of sales for the electric utilities in a state. They are computed as follows:

Residential Sector

1960-1980

$$ESRSPXX = \frac{ERRXX}{ERCXX} \cdot 1000 \quad (4.1)$$

Where:

ESRSPXX = residential retail price for state XX or the U.S. (\$/kWh)

ERRXX = residential revenues for state XX or the U.S. (1000\$)

ERCXX = residential sales for state XX or the U. S. (million kWh)

Commercial

1960-1980

$$ESCMPPXX = \frac{ECRXX + ESRXX + EORXX + EDRXX}{ECCXX + ESCXX + EOCXX + EDCXX} \cdot 1000 \quad (4.2)$$

Where:

ESCMPPXX = commercial retail price for state XX or the U. S. (\$/kWh)

ECRXX = commercial (small light and power) revenues (1000\$)

ESRXX = street and highway lighting revenues (1000\$)

EORXX = other public authorities revenues (1000\$)

EDRXX = interdepartmental revenues (1000\$)

ECCXX = commercial (small light and power) sales (million kWh)

ESCXX = street and highway lighting sales (million kWh)

EOCXX = other public authorities sales (million kWh)

EDCXX = interdepartmental sales (million kWh)

Industrial Sector

1960-1980

$$ESINPPXX = \frac{EIRXX}{EICXX} \cdot 1000 \quad (4.3)$$

Where:

ESINPPXX = industrial retail price for state XX or the U.S. (\$/kWh)

EIRXX = industrial (large light and power) revenues (1000\$)

EICXX = industrial (large light and power) sales (million kWh)

Transportation Sector

1960-1980

$$ESTRPPXX = \frac{ETRXX}{ETCXX} \cdot 1000 \quad (4.4)$$

Where:

ESTRPPXX = transportation retail price for state XX or the U.S. (\$/kWh)

ETRXX = transportation (railroads and railways) revenues (1000\$)

ETCXX = transportation (railroads and railways) sales (million kWh)

NOTE: There are no data for the transportation sector in some states. If sales (Table 22A) or revenues (Table 36S) or both were equal to zero then price per kilowatt hour is treated as zero for that state.

2. Prices for Maryland are assigned to the District of Columbia.
3. The Btu prices are derived by applying the conversion factor to the physical unit prices:

$$ESRSBPXX = ESRSPXX \div (3.412 \div 1000) \quad (4.5)$$

$$ESCBPXX = ESCMPPXX \div (3.412 \div 1000) \quad (4.6)$$

$$ESINBPXX = ESINPPXX \div (3.412 \div 1000) \quad (4.7)$$

$$ESTRBPXX = ESTRPPXX \div (3.412 \div 1000) \quad (4.8)$$

Where:

ESRSBPXX = residential price for state XX or the U.S. (\$/million Btu)

ESCMBPXX = commercial sector price for state XX or the U.S. (\$/million Btu)

ESINBPXX = industrial sector price for state XX or the U. S. (\$/million Btu)

ESTRBPXX = transportation sector price for state XX or the U. S. (\$/million Btu)

4.2 NATURAL GAS

Retail natural gas prices are developed for all five end-use sectors. Since there is a major difference in the data source for the electric utility sector from that for the residential, commercial, industrial, and transportation sectors, the documentation is divided into two parts. The procedures for the residential, commercial, industrial, and transportation sectors are explained together first, followed by that for the electric utility sector.

4.2.1 Residential, Commercial, Industrial, and Transportation Sectors

1. Data Sources

1960-1980 U.S. Department of Energy, Energy Information Administration, Natural Gas Production and Consumption: Annual.

2. Conversion Factors

1960-1979 American Gas Association, Gas Facts, from table entitled, "Gas Utility Industry Sales, by State and Class of Service". See Appendix Table D-1 for actual values used.

1980 U.S. Department of Energy, Energy Information Administration, Natural Gas Production and Consumption: Annual.

3. Computational Procedures

- i. All natural gas prices for the residential, commercial, industrial, and transportation sectors are calculated as average revenue per unit of sales by the natural gas utilities in a state. (It is unclear whether or not these price measures include state and local taxes). They are computed as follows from revenue and volume data.

Residential Sector

1960-1980

$$\text{NGRSPPXX} = \text{NGARXX} \div \text{NGAVXX} \quad (4.9)$$

Where:

NGRSPPXX = natural gas price for state XX or the U.S.
(\$/1000 cubic feet)

NGARXX = revenues from the Natural Gas Annual for
state XX (1000\$)

NGAVXX = volume from the Natural Gas Annual for
state XX (million cubic feet)

Commercial Sector

1967-1980

$$\text{NGCMPPXX} = \frac{\text{NCRXX} + \text{NORXX}}{\text{NCCXX} + \text{NOCXX}} \quad (4.10)$$

1960-1966

$$\text{NGCMPPXX} = \text{NCRXX} \div \text{NCCXX} \quad (4.11)$$

Where:

NGCMPPXX = natural gas price for commercial use in
state XX or the U.S. (\$/1000 cubic feet)

NCRXX = commercial revenues in state XX of the U.S.
(1000\$)

NORXX = other consumer revenues in state XX or the
U.S. (1000\$)

NCCXX = commercial volume in state XX or the U.S.
(million cubic feet)

NOCXX = other consumer volume in state XX or the
U.S. (million cubic feet)

Industrial Sector

1967-1980

$$\text{NGINPPXX} = \frac{\text{NIRXX} + \text{NLRXX}}{\text{NICXX} + \text{NLCXX}} \quad (4.12)$$

1962-1966

$$\text{NGINPPXX} = \text{NIRXX} \div \text{NICXX} \quad (4.13)$$

1960-1961

$$\begin{aligned} \text{NGINPPXX} = & \frac{(\text{FUQ})(\text{FUV}) + (\text{CBQ})(\text{CBV})}{\text{FUQ} + \text{CBQ} + \text{RFQ} + \text{OIQ}} \quad (4.14) \\ & + \frac{(\text{RFQ} + \text{OIQ})(\text{IFV})}{\text{FUQ} + \text{CBQ} + \text{RFQ} + \text{OIQ}} \end{aligned}$$

Where:

NGINPPXX = industrial retail price for state XX or the U.S. (\$/1000 cubic feet)

NIRXX = industrial revenues for state XX or the U.S. (1000\$)

NLRXX = lease & plant fuel revenues for state XX or the U.S. (1000\$)

NICXX = industrial volume for state XX or the U.S. (million cubic feet)

NLCXX = lease & plant fuel volume for state XX or the U.S. (million cubic feet)

NIRXX = total industrial revenues including pipeline fuel and electric utilities for state XX or the U.S. (1000\$)

FUQ = field use quantity (million cubic feet)

FUV = field use average value (\$/1000 cubic feet)

CBQ = carbon black quantity (million cubic feet)

CBV = carbon black average value (\$/1000 cubic feet)

RFQ = refinery fuel quantity (million cubic feet)

OIQ = other industrial fuel quantity (million cubic feet)

IFV = average industrial value (\$/1000 cubic feet)

Transportation Sector

1967-1980

$$\text{NGTRPPXX} = \text{NPRXX} \div \text{NPCXX} \quad (4.15)$$

Where:

NGTRPPXX = pipeline fuel price for state XX or the
U.S. (\$/million Btu)

NPRXX = pipeline fuel value for state XX or the
U.S. (1000\$)

NPCXX = pipeline fuel quantity (million cubic feet)

1960-1966

No prices were derived.

- ii. The revenue and volume data from Natural Gas Annual are reported as composites for Maryland and the District of Columbia; and for Maine, New Hampshire and Vermont. State level revenue and volume data from Gas Facts are used to allocate the composite data to individual states prior to calculation of prices. The equation is shown below:

$$\text{NGARXX} = \text{NGARZ} (\text{AGARXX} \div \text{AGARZ}) \quad (4.16)$$

Where:

NGARXX = allocated residential price for state XX (1000\$)

NGARZ = composite residential revenues reported in the
Natural Gas Annual (1000\$)

AGARXX = residential revenues for state XX reported in
Gas Facts (1000\$)

AGARZ = sum total of residential revenues reported in
Gas Facts for state XX and others included in
the composite (1000\$)

Similar allocations of the composite data are done for the commercial, industrial, and transportation sectors as described above for the residential sector. In these allocations, appropriate values for the commercial, industrial, and transportation sectors are substituted.

iii. Physical unit prices are calculated using annual state-level conversion factors.

$$\text{NGRSBPXX} = \text{NGRSPPXX} \div (\text{CFXX} \bullet 1000) \quad (4.17)$$

$$\text{NGCMBPXX} = \text{NGCMPPXX} \div (\text{CFXX} \bullet 1000) \quad (4.18)$$

$$\text{NGINBPXX} = \text{NGINPPXX} \div (\text{CFXX} \bullet 1000) \quad (4.19)$$

$$\text{NGTRBPXX} = \text{NGTRPPXX} \div (\text{CFXX} \bullet 1000) \quad (4.20)$$

Where:

NGRSBPXX = residential sector natural gas price for state XX or the U. S. (\$/million Btu)

NGCMBPXX = commercial sector natural gas price for state XX or the U.S. (\$/million Btu)

NGINBPXX = industrial sector natural gas price for state XX or the U.S. (\$/million Btu)

NGTRBPXX = transportation sector natural gas price for state XX or the U.S. (\$/million Btu)

CFXX = Btu value per cubic foot from Gas Facts or Natural Gas Annual for state XX or the U.S.
(See in Appendix Table D-1.)

4.2.2 Electric Utility Sector

1. Data Sources

1973-1980	U.S. Department of Energy, Energy Information Administration, <u>Cost and Quality of Fuels for Electric Utility Plants</u> .
1967-1972	U.S. Department of Energy, Energy Information Administration, <u>Natural Gas Production and Consumption: Annual</u> .

2. Conversion Factors

1973-1980	Conversion factors are embedded in the price data.
1967-1972	American Gas Association, <u>Gas Facts</u> from table entitled, "Gas Utility Industry Sales, by State and Class of Service". See Appendix Table D-1 for actual values used.

3. Computational Procedures

1973-1980 Electric utility sector prices for these years are taken from Cost and Quality of Fuels for Electric Utility Plants. The form of the equation used is similar for both physical unit prices and prices per million Btu.

$$NGUTPPXX = \frac{\sum_{i=1}^N (NGUPXX_i \cdot NGUBXX_i \cdot NGUQXX_i)}{\sum_{i=1}^N NGUQXX_i \cdot 100,000} \quad (4.21)$$

$$NGUTBPXX = \frac{\sum_{i=1}^N (NGUPXX_i \cdot NGUBXX_i \cdot NGUQXX_i)}{\left[\sum_{i=1}^N NGUBXX_i \cdot NGUQXX_i \right] \cdot 100} \quad (4.22)$$

Where:

NGUTPPXX = price paid by electric utilities in state XX or the U.S. for natural gas (\$/1000 cubic feet)

NGUTBPXX = price paid by electric utilities in state XX or the U.S. for natural gas (\$/million Btu)

NGUPXX_i = price paid for natural gas for transaction i in state XX or the U.S. (¢/million Btu)

NGUBXX_i = Btu content of natural gas for transaction i in state XX or the U.S. (Btu/cubic foot)

NGUQXX_i = quantity of natural gas for transaction i in state XX or the U.S. (1000 cubic feet)

N = number of transactions i in state XX or the U.S.

1967-1972 i. Electric utility sector prices for 1967-1972 are taken from Natural Gas Annual.

$$NGUTPPXX = NURXX \div NUCXX \quad (4.23)$$

Where:

NGUTPPXX = electric utilities retail price for state XX or the U.S. (\$/1000 cubic feet)

NURXX = electric utility fuel value for state XX or the U.S. (1000\$)

NUCXX = electric utility fuel quantity for state XX or the U.S. (million cubic feet)

- ii. The revenue and volume data from Natural Gas Annual are reported as composites for Maryland and the District of Columbia, and for Maine, New Hampshire and Vermont. These composites are allocated to states using the industrial sector data from Gas Facts.

Conversion

1967-1972 State-level conversion factors are used to convert physical units to Btu units.

$$\text{NGUTBPXX} = \text{NGUTPPXX} \div (\text{CFXX} \cdot 1000) \quad (4.24)$$

Where:

NGUTBPXX = retail natural gas prices delivered to electric utilities in state XX (\$/million Btu)

CFXX = conversion factor for state XX or the U.S. shown in Appendix Table D-1

1973-1980 Btu prices from source data are used directly. The conversion factors are implicit in the Cost and Quality data (see Equation 4.22).

4.3 METALLURGICAL COAL

The metallurgical coal price series is for the industrial sector only.

4.3.1 Data Sources

1970-1980 U.S. Department of Energy, Energy Information Administration, Coke and Coal Chemicals. Table numbers vary but tables are generally titled "Quantity and Value at Ovens of Coal Carbonized in the United States."

4.3.2 Conversion Factor

1970-1980 U.S. Department of Energy, Energy Information
Administration, Monthly Energy Review.
26.0 million Btu/ton

4.3.3 Computational Procedures

1. The individual state prices from Coke and Coal Chemicals are used directly:

CCINPPXX = the metallurgical coal price for state XX or
the U.S. (\$/ton).

2. Due to restrictions on disclosure of data, some prices are reported by Coke and Coal Chemicals for groups of states rather than individual states. Prices reported in this manner are assigned equally and identically to each of the states in the group. Groupings are as follows: (a) California, Colorado, Utah; (b) Kentucky, Missouri, Tennessee, Texas; (c) Maryland, New York; (d) Michigan, Wisconsin; and (e) Virginia, West Virginia.
3. The conversion factor is applied to the physical price to derive the price per million Btu.

$$CCINBPXX = CCINPPXX \div 26.0 \quad (4.25)$$

Where:

CCINBPXX = the metallurgical coal price for state XX or
the U.S. (\$/million Btu)

- NOTE:
- a. There is no imputation of data for states in which coking coal production is insufficient to warrant inclusion in the Coke and Coal Chemicals report.
 - b. Due to changes in production, there are some changes over time in states included in the sample (i.e. New Jersey, Virginia). There is no imputation of data for years in which prices for these states are not reported.

4.4 STEAM COAL

Retail price data for steam coal are developed for the residential, industrial, and electric utility sectors. While some commercial coal use is reported in the State Energy Data System, no commercial price data are available. Since the electric utility sector price series is used to impute some of the data points for the residential and industrial sector price series, it is explained first.

4.4.1 Electric Utility Sector

1. Data Sources

1970-1972	Edison Electric Institute, <u>Statistical Year Book</u> .
1973-1980	U.S. Department of Energy, Energy Information Administration, <u>Cost and Quality of Fuels for Electric Utility Plants</u> , average of spot and contract coal prices.

2. Conversion Factors

1970-1980	Both prices in dollars per million Btu and dollars per ton are taken directly from the data sources, so no explicit conversion factors are used.
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3. Computational Procedures

1970-1972	Prices for states and the U.S. are taken directly from the EEI <u>Statistical Year Book</u> .
1973-1980	Prices, quantities, and Btu content for steam coal in these years are taken from <u>Cost and Quality of Fuels for Electric Utility Plants</u> . Prices are converted to dollar per million Btu and dollars per ton. The equations used for price per ton and price per million Btu are of the same form.

$$SCUTPPXX = \frac{\sum_{i=1}^N (SCUPXX_i \cdot SCUBXX_i \cdot SCUQXX_i)}{\sum_{i=1}^N SCUQXX_i \cdot 50,000} \quad (4.26)$$

$$SCUTBPXX = \frac{\sum_{i=1}^N (SCUPXX_i \cdot SCUBXX_i \cdot SCUQXX_i)}{\left[\sum_{i=1}^N SCUBXX_i \cdot SCUQXX_i \right] \cdot 100} \quad (4.27)$$

Where:

SCUTPPXX = retail price of steam coal for state XX or the U.S. (\$/ton)

SCUTBPXX = retail price of steam coal for state XX or the U.S. (\$/million Btu)

SCUPXX_i = price of steam coal for transaction i in state XX or the U.S. (¢/million Btu)

SCUBXX_i = Btu content of steam coal for transaction i in state XX or the U.S. (Btu/pound)

SCUQXX_i = quantity of steam coal for transaction i in state XX or the U.S. (1000 tons)

N = number of transactions i in each state XX or the U.S.

Alaska Prices for Alaska are taken from the EEI Statistical Year Book when available. The remaining missing data points are imputed by assuming that the ratio of the Alaska and U.S. price is the same in the missing years as it is on average for the years when data are available.

4.4.2 Residential Sector

Residential sector data are available only for 1971 through 1978, and prices for other years are imputed by linkage to electric utility sector data.

1. Data Sources

Prices

1970 Estimated, see discussion in (3) below.
 1971-1978 American Gas Association, Gas Househeating Survey.
 1979-1980 Estimated, see discussion in (3) below.

Quantity Weights

1970-1980 U.S. Department of Energy, Energy Information Administration, State Energy Data System, "Total Coal Consumed by the Residential Sector."

2. Conversion Factors

Values for heat content of bituminous coal and lignite used for non-utility consumption were taken from the Monthly Energy Review, reproduced in Table 4.1 below:

TABLE 4.1 Conversion Factors for Steam Coal

<u>Year</u>	<u>SCB/T^(a)</u>
1970-1972	26.00
1973	26.84
1974	26.12
1975	25.81
1976	25.87
1977	25.13
1978	25.07
1979	25.06
1980	25.97

(a) million Btu per ton of steam coal

3. Computational Procedures

State Prices

- 1971-1978 i. For this period state coal prices are a simple average of city/utility price observations:

$$SCRSBPXX = \frac{\sum_{i=1}^N GHSXX_i}{N} \quad (4.28)$$

Where:

SCRSBPXX = residential steam coal price for state XX
(\$/million Btu)

$GHSXX_i$ = Gas Househeating Survey price observation
for each city in, in state XX, in year t
(\$/million Btu)

N = the number of cities/utilities reporting in
state XX

- ii. Simple averages of prices in surrounding states are substituted for missing state prices in Idaho, North Dakota and Utah.
 - iii. Maryland prices are assigned to the District of Columbia.
 - iv. A simple average of price observations in Connecticut, Massachusetts, New Hampshire, Rhode Island, and Vermont is assigned equally and identically to these states.
- 1979-1980 i. Residential sector prices for 1979 and the following years are imputed based on the estimated relationship between Gas Househeating Survey data and spot price data from Cost and Quality of Fuels for Electric Utility Plants. Separate regression equations were estimated for states that use bituminous coal and states that do not.

For states that use bituminous coal, the estimated regression equation is as follows:

$$\text{SCRSBPXX} = 0.3369 + 1.5617 \text{ SPXX} + c_{\text{XX}} \cdot \text{DXX} \quad (4.29)$$

Where:

SPXX = spot price of bituminous coal from Cost and Quality for each state or group of states (\$/million Btu)

DXX = dummy variable for each state or group of states, except Alabama which is the reference state.

The estimated coefficients for the state dummy, c_{XX} , are shown in Table 4.2

- ii. For states that do not use bituminous coal, the estimated regression equation is as follows:

$$\text{SCRSBPXX} = -0.0971 + 3.1876 \text{ ASPXX} + 1.2003 \text{ DXX} \quad (4.30)$$

Where:

ASPXX = average spot price for all types of coal from Cost and Quality of Fuels for Electric Utility Plants for state XX (\$/million Btu)

DXX = dummy variable for state XX; it assumes values of 1.0 for Montana, Nevada, and South Dakota, and of 0.0 for Colorado, Idaho, Utah, Washington, and Wyoming.

TABLE 4.2. Estimated Values of c_{XX} for Calculating Residential Sector Coal Prices

<u>State XX</u>	<u>c_{XX}</u>	<u>State XX</u>	<u>c_{XX}</u>
DE	0.4781	NJ	-0.2563
GA	-0.0955	NY	0.4761
IL	0.1581	NC	0.1145
IN	0.5077	ND	0.8183
IA	0.6765	OH	0.4530
KS	-0.1559	PA	0.3589
KY	0.1920	SC	0.3516
MD	0.0864	TN	-0.0239
MI	0.6519	VA	0.5047
MN	1.5792	WV	1.0446
MO	-0.0996	CT,NH,RI,& VT	0.0684

1970 Since state-level data for 1970 are not available from Cost and Quality of Fuels for Electric Utility Plants, the 1970 residential sector coal price was estimated from the following equation:

$$\log \text{ASPXX} = 0.0294 + 0.9449 \log \text{EEIPXX} \quad (4.31)$$

Where:

EEIPXX = average cost of coal for each state from the EI Statistical Year Book for 1970 (\$/million Btu)

U.S. Prices

1970-1980 The U.S. average prices are calculated from the price series developed above, using the following equation:

$$\text{SCRSBPUS} = \frac{\sum_{XX=1}^{51} (\text{SCRSBPXX} \cdot \text{SVXX})}{\sum_{XX=1}^{51} \text{SVXX}} \quad (4.32)$$

Where:

SVXX = volume of residential coal consumption reported in SEDS for state XX

NOTE: No imputation is carried out for states where residential coal consumption is negligible and for which price data were lacking: Alaska, Arizona, Arkansas, California, Florida, Hawaii, Louisiana, Maine, Mississippi, New Mexico, Oklahoma, Oregon, and Texas.

4. Conversion

All prices are converted from dollars per million Btu to dollars per ton using the following relationship:

$$\text{SCRSPXX} = \text{SCRSBPXX} \div \text{SCB/T} \quad (4.33)$$

Where:

SCB/T = the conversion factor shown in Table 4.2

4.4.3 Industrial Sector

Since industrial sector prices are not directly available for 1970, 1972 and 1973, prices for these years are computed by linkage to the electric utility sector. Prices for other years are taken from the Annual Survey of Manufactures, the Census of Manufactures, and form EIA-3.

1. Data Sources

1970, 1972 Estimated, see explanation in (3) below
1973

1971, U.S. Bureau of the Census, Annual Survey of Manufactures
1974-1978 (ASM) and Census of Manufactures (CM).

1978-1980 U.S. Department of Energy, Energy Information
Administration, "Quarterly Coal Consumption Report -
Manufacturing Plants." (EIA-3). These data are not
all published and some of the data must be withheld due
to restrictions on disclosure. (Note that in 1978, the
EIA-3 data were used mainly to supplement the ASM
data.)

2. Conversion Factors

1973-1980 U.S. Department of Energy, Energy Information
Administration, Monthly Energy Review, figures for
bituminous non-utility consumption are used.

1970-1972 26 million Btu per ton

3. Computational Procedures

1978-1980 i. U.S. price per ton, and state prices which can be
disclosed, are used directly.

ii. Missing state data are imputed using simple averages of
the published and withheld data for adjacent states.

iii. Prices for states for which data must be withheld are
imputed using the withheld state price and the
published and withheld data for adjacent states. The
formula used is:

$$SCINPPXX = \frac{1}{2N} \sum_{i=1}^N PCCR_i + N \cdot PCCR_w \quad (4.34)$$

Where:

SCINPPXX = estimated price for state XX (\$/ton)

$PCCR_i$ = (1) published, (2) withheld, or (3) imputed price in each adjacent state XX from EIA-3 (\$/ton)

$PCCR_w$ = the price withheld for state XX from EIA-3 (\$/ton)

N = number of adjacent states

- 1970-1977 i. For 1971 and 1974 through 1977, available data from ASM and CM were used directly.
- ii. For 1970, 1972, and 1973, as well as for all states for which the ASM and CM data were not directly available, the following regression equation was used to impute the state-level prices:

$$SCINPPXX = 15.2784 + 0.6598 CPXX - 8.9683t + c_{XX} \cdot DXX \quad (4.35)$$

Where:

CPXX = average coal price for state XX from Cost and Quality of Fuels for Electric Utility Plants (1973-1977) or the EEI Statistical Year Book (1970-1972) (\$/ton)

DXX = a dummy variable for each state XX for which a full set of data were available, except Ohio which was taken as the reference state.

t = a time dummy; equals 1.0 for 1973 and earlier years, 0.0 for 1974 and thereafter.

The estimated coefficients for c_{XX} are shown in Table 4.3. Note that for the states of Maryland and Texas, there is one additional term, $g_{XX} (D_{XX} CPXX)$, to the above equation. The estimates for g_{XX} are -0.1476 for Maryland, and -1.2112 for Texas.

TABLE 4.3 Estimated Values of c_{XX} for Industrial Steam Coal

State	c_{XX}	State	c_{XX}
AL	-2.3139	NE	-5.0278
AZ	3.7146	NH	9.1377
CO	-2.5100	NJ	-5.7861
CT	4.0930	NM	4.6377
DE	-4.0217	NV	1.6090
DC	-3.6393	NY	-1.1127
FL	-4.8773	OK	0.0701
GA	-0.3876	OR	-0.8628
IA	-1.0946	PA	-3.4693
IL	0.0161	SC	0.2512
IN	2.2622	SD	4.7089
KS	-1.4162	TN	-2.5975
KY	2.2871	TX	6.0045
MD	-7.2896	UT	-5.3718
MA	6.2741	VA	-3.6779
MI	0.8499	VT	-7.0296
MN	-1.8805	WA	12.5756
MO	1.2033	WV	-2.5265
MS	-6.4479	WI	5.1359
MT	8.3147	WY	0.0035
NC	0.6809		
ND	0.5831		

iii. The following are exceptions to ii above:

- a. Due to lack of reported industrial coal use, prices are not imputed for Arkansas prior to 1973, Florida prior to 1975, Louisiana prior to 1977, and Alaska after 1978.
- b. Due to lack of utility coal price data, missing prices for Arkansas, California, Idaho, Louisiana, and Maine are imputed from simple averages of prices in adjacent states.
- c. Prices imputed for Alaska are developed from the assumption that the ratio of the state price to the U.S. price for the industrial sector is the same as is found in the utility sector.

NOTE: Industrial steam coal price series are not imputed for Hawaii and Rhode Island because there was no industrial coal use reported in SEDS.

4. Conversion

The following equation is used:

$$\text{SCINBPXX} = \text{SCINPPXX} \div 26.0 \quad (4.36)$$

Where:

SCINBPXX = retail industrial sector coal price for
state XX (\$/million Btu)

4.5 DISTILLATE FUEL

The distillate fuel oil price series covers the residential, commercial, industrial, and electric utility sectors. Prices for transportation sector use of distillate fuels are presented in the motor gasoline and diesel price series (see Sections 4.6 and 4.7).

4.5.1 Residential Sector

1. Data Sources

Prices

1978-1980 U.S. Department of Energy, Energy Information Administration, Prices and Margins of No. 2 Distillate Fuel Oil.

1970-1977 Estimated from the following sources according to the procedure described in (3) below: Platt's Oil Price Handbook and Oilmanac, refinery/terminal prices for No. 2 fuel oil.

1975-1980 U.S. Department of Energy, Energy Information Administration, Annual Report to Congress, Table 42, under the column heading "Residential Heating Oil: Current."

U.S. Department of Energy, Energy Information Administration, Monthly Petroleum Product Price Report, Table 8, "Heating Oil Prices to Ultimate Consumers."

Quantity Weights

1970-1980 U.S. Department of Energy, Energy Information Administration, State Energy Data System.

1970-1980 U.S. Department of Commerce, National Ocean and Atmospheric Administration, Environmental Data and Information Service, Historical Climatology Series 5-1, Table entitled "1951-80 Heating Degree Day Normals (Base 65 degrees F)."

2. Conversion Factors

1970-1980 U.S. Department of Energy, Energy Information Administration, Monthly Energy Review.

0.13869 million Btu per gallon, or

5.8250 million Btu per 42-gallon barrel

3. Computational Procedures

1978-1980 i. For the 23 states in DOE Regions 1, 2, 3, 5, and 10 and Washington, D.C., monthly state-level data are available directly from EIA's Prices and Margins of No. 2 Distillate Fuel Oil. The average annual prices for each of these states are derived by using the monthly heating degree-days as weights.

$$DFRSPXX = \frac{\sum_{m=1}^{12} (PDOEXX_m \cdot HDDXX_m)}{\sum_{m=1}^{12} HDDXX_m} \quad (4.37)$$

Where:

DFRSPXX = residential sector distillate fuel price for state XX (\$/gallon)

$PDOEXX_{t,m}$ = residential retail price of distillate fuel in state XX, in month m, in year t (\$/gallon)

$HDDXX_m$ = normal heating degree-days for state XX in month m

ii. For states in DOE Regions 4,7,8, and 9, only regional average monthly prices are available. The state-level prices for the states in these regions and Region 6 are derived in the following manner:

- a. Calculate the DOE regional average normal heating degree-days by month:

$$HDD_{j,m} = \frac{\sum_{XX=1}^{N_j} HDDXX_{j,m}}{N_j} \quad (4.38)$$

Where:

$HDD_{j,m}$ = average heating degree days for region j in month m

$HDDXX_{j,m}$ = normal heating degree days for state XX in region j in month m

N_j = number of states in region j

- b. Compute average annual prices for each region from the EIA data:

$$PDOE_j = \frac{\sum_{m=1}^{12} (PDOE_{j,m} \cdot HDD_{j,m})}{\sum_{m=1}^{12} HDD_{j,m}} \quad (4.39)$$

Where:

$PDOE_j$ = price in region j (\$/gallon)

$PDOE_{j,m}$ = price in DOE Region J in month m (\$/gallon)

- c. Assign the city-level prices found in Platt's to states as shown in Table 4.4.
- d. Volume weight the assigned Platt's prices with SEDS volumes into regional prices, then calculate the adjustment factor which is the ratio of the regional EIA prices to the regional Platt's prices.

TABLE 4.4. Assignments of Platt's No. 2 Fuel Oil Data to States

State	City Price(s) Assignment
Alaska	Los Angeles/San Francisco, CA 1970-1976; Portland, OR 1977-1978; Seattle, WA 1979-1980
Alabama	Birmingham, Mobile 1970-1979; Birmingham, 1980
Arkansas	Arkansas
Arizona	Los Angeles/San Francisco, CA 1970-1977; Phoenix, 1978-1980
California	Los Angeles/San Francisco
Colorado	Minneapolis/St. Paul, MN 1970-1976; Denver 1977-1980
Connecticut	New Haven
District of Columbia	Baltimore, MD
Delaware	Baltimore, MD
Florida	Miami
Georgia	Atlanta, Savannah
Hawaii	Los Angeles/San Francisco, CA
Iowa	Chicago, IL
Idaho	Los Angeles/San Francisco, CA 1970-1976; Portland OR 1977-1980
Illinois	Chicago
Indiana	Chicago
Kansas	New Orleans, LA 1970-1973; St. Louis, MO 1974-1980
Kentucky	New Orleans, LA
Louisiana	New Orleans
Massachusetts	Boston
Maryland	Baltimore
Maine	Portland
Michigan	Detroit
Minnesota	Minneapolis/St. Paul
Missouri	New Orleans, LA 1970-1973; St. Louis 1974-1980
Mississippi	New Orleans, LA
Montana	Minneapolis/St. Paul, MN 1970-1976; Billings 1977
North Carolina	Greensboro, Wilmington
North Dakota	Minneapolis/St. Paul, MN
Nebraska	New Orleans, LA 1970-1973; St. Louis, MO 1974-1980
New Hampshire	Portland, ME
New Jersey	New York, NY
New Mexico	Los Angeles/San Francisco, CA 1970-1976; Albuquerque, 1977-1980
Nevada	Los Angeles/San Francisco, CA
New York	New York, Albany
Ohio	Detroit, MI
Oklahoma	Group 3
Oregon	Los Angeles/San Francisco, CA 1970-1976; Portland, 1977-1980
Pennsylvania	Philadelphia 1970-1979; Philadelphia, Pittsburg 1980
Rhode Island	New Haven, CT
South Carolina	Charleston, Spartanburg
South Dakota	Minneapolis/St. Paul, MN
Tennessee	New Orleans, LA
Texas	New Orleans, LA 1970-1978; Houston 1979-1980
Utah	Minneapolis/St. Paul, MN 1970-1976; Salt Lake City 1977-1980
Virginia	Norfolk
Vermont	Portland, ME
Washington	Los Angeles/San Francisco, CA 1970-1976; Portland, OR 1977-1978; Seattle 1979-1980
Wisconsin	Chicago, IL
West Virginia	Norfolk, VA
Wyoming	Minneapolis/St. Paul, MN 1970-1976; Cheyenne 1977-1980

$$A_j = \text{PDOE}_j \cdot \left[\sum_{XX=1}^{N_j} \text{PLXX}_j \cdot \frac{\text{SVXX}_j}{\sum_{XX=1}^{N_j} \text{SVXX}_j} \right] \quad (4.40)$$

Where:

A_j = adjustment factor for region j
 PLXX_j = assigned Platt's prices for state XX
in region j (from ii.c above)
(\$/gallon)

SVXX_j = quantity of distillate fuel consumed
in the residential sector in state XX
in region j, from SEDS (1000 gallons)

e. Since there are no published Region 6 average prices, the adjustment factor cannot be computed from the steps just described. The average adjustment factor for the West South Central Census Region from the period 1975-1977 (see explanation below for this period) is assigned to Region 6.

f. Calculate the state-level prices for states in Regions 4, 6, 7, 8, and 9 by applying the adjustment factor to the assigned Platt's prices:

$$\text{DFRSPXX} = A_j \cdot \text{PLXX}_j \quad (4.41)$$

1975-1977 For this period, the EIA data are available only at the Census Region level except for DOE regional average prices for November and December of 1977.

i. Assign the November and December 1977 DOE region prices to states and re-aggregate them into census regions using the volume weights from SEDS:

$$PCEN_{j,77,m} = \frac{\sum_{XX=1}^{N_j} (PDOEXX_{j,77,m} \cdot SVXX_{j,77})}{\sum_{XX=1}^{N_j} SVXX_{j,77}} \quad (4.42)$$

Where:

$PCEN_{j,77,m}$ = Census Region price for region j in 1977 in month m (\$/gallon)

$PDOEXX_{j,77,m}$ = DOE region price from EIA-9A assigned to state XX in Census Region j in 1977, month m (\$/gallon)

$SVXX_{j,77}$ = SEDS weight for state XX in Census Region j in 1977 (1000 gallons)

N_j = number of states XX in Census Region j

m = November or December

- ii. Use the Census Region monthly data from the EIA-9A system for 1975, 1976 and the first ten months of 1977, with the 1977 November and December prices calculated above to impute state-level prices. To calculate annual Census Region prices, weights are developed from the state-level heating-degree-day data as shown in Equation 4.38. These weights are then applied to the monthly regional prices.

$$PCEN_j = \frac{\sum_{m=1}^{12} (PCEN_{j,m} \cdot HDD_{j,m})}{\sum_{m=1}^{12} HDD_{j,m}} \quad (4.43)$$

Where:

$PCEN_j$ = Census Region price for region j (\$/gallon)

$PCEN_{j,m}$ = Census Region price in region j , month m (\$/gallon)

NOTE: Where monthly data are missing, the annual average is based on months for which data are available.

- iii. Apply SEDS volume weights and set the weighted average of the state price estimates assigned from Platt's ($PLXX_j$) equal to the regional price ($PCEN_j$) to calculate the adjustment factor (A_j):

$$A_j = PCEN_j \div \left[\sum_{XX=1}^{N_j} PLXX_j \cdot \frac{SVXX_j}{\sum_{XX=1}^{N_j} SVXX_j} \right] \quad (4.44)$$

- iv. Because 1975 data for the West South Central Region are missing, the adjustment factor for that region ($A_{j,75}$) is set equal to the average of the West South Central adjustment factors for 1976 and 1977.
- v. Apply the adjustment factor to the state prices assigned from Platt's to derive the imputed state-level prices:

$$DFRSPPXX_t = A_{j,t} \cdot PLXX_{j,t} \quad (4.45)$$

1970-1974 There were no regional average price data directly available for this period. To estimate state-level distillate prices, regional average prices were first derived.

- i. Estimate DOE Region prices from 1970 to 1974 from the following equation:

$$PDOE_j = 0.9439 + 1.0191 PDOEUS + \sum_{j=2}^{10} c_j \cdot D_j \quad (4.46)$$

Where:

PDOEUS = retail residential price for the U.S.
from EIA Report to Congress (\$/gallon)

D_j = a dummy variable for DOE regions,
Region 1 is omitted.

The values of c_j are as shown below:

Region	c_j	Region	c_j
2	-0.8235	6	-7.3594
3	-1.4750	7	-3.9233
4	-2.7829	8	-2.8274
5	-3.2993	9	-3.1410
		10	-1.3690

- ii. Calculate regional adjustment factors and state-level prices in a similar manner as explained above for 1978-1980 and 1975-1977:

$$A_j = PDOE_j \div \left[\sum_{XX=1}^{N_j} PLXX_j \cdot \frac{SVXX_j}{\sum_{XX=1}^{N_j} SVXX_j} \right] \quad (4.47)$$

Where:

$$DFRSPPXX = A_j \cdot PLXX_i \quad (4.48)$$

U.S. Price

1970-1980 The U.S. price is assigned from the EIA Annual Report to Congress.

Conversion

Physical prices are divided by a conversion factor to obtain Btu prices.

$$1970-1980 \quad DFRSBPXX = DFRSPPXX \div 0.13869 \quad (4.49)$$

Where:

DFRSBPXX = retail residential price in state XX or the
U.S. (\$/million Btu)

4.5.2 Commercial Sector

1. Data Sources

Prices

1970-1980 Commercial sector prices for all years are estimated from the residential sector prices and the following sources: Foster Associates, Energy Prices; McGraw-Hill, Inc., Platt's Oil Price Handbook and Oilmanac, refinery/terminal prices for No. 2 fuel oil.

Quantity Weights

1970-1980 U.S. Department of Energy, Energy Information Administration, State Energy Data System.

2. Conversion Factor

1970-1980 U.S. Department of Energy, Energy Information Administration, Monthly Energy Review.
0.13869 million Btu/gallon

3. Computational Procedures

1970-1980 i. For each year in the 1970-1972 period, calculate the average Foster Associates prices for small and large commercial users of distillates for the following cities: District of Columbia, Chicago, Boston, Detroit, Minnesota/St. Paul, Charlotte, Albany/New York, and Seattle. Assign these prices to the states in which the city is located: DC, IL, MA, MI, MN, NC, NY, and WA.

$$FPXX = \frac{1}{2} (FPSXX + FPLXX) \quad (4.50)$$

Where:

FPXX = average commercial price in state XX
from Foster and Associates (\$/gallon)

FPSXX = average price paid by small commercial
users in state XX, from Foster and
Associates (\$/gallon)

FPLXX = average price paid by large commercial users in state XX, from Foster and Associates (\$/gallon)

- ii. Compute markup for each Foster state price over the assigned Platt's refinery or terminal price, shown in Table 4.4, and compute the residential sector markup for the same states.

$$MCMXX = (FPXX \div DFPLXX) - 1 \quad (4.51)$$

$$MRSXX = (DFRSPXX \div DFPLXX) - 1 \quad (4.52)$$

Where:

MCMXX = commercial sector markup for state XX (\$/gallon)

MRSXX = residential sector markup for state XX (\$/gallon)

DFRSPXX = retail residential sector price from Section 4.5.1 for state XX (\$/gallon)

PLXX = assigned refinery and terminal price from Table 4.4. for state XX (\$/gallon)

- iii. Compute average markups for 1970-1972 for the commercial and residential sectors

$$MCMAVGXX = \frac{1}{3} \sum_{t=70}^{72} MCMXX_t \quad (4.53)$$

$$MRSavgXX = \frac{1}{3} \sum_{t=70}^{72} MRSXX_t \quad (4.54)$$

Where:

MCMAVGXX = average commercial sector markup for 1970-1972 for state XX (\$/gallon)

MRSavgXX = average residential sector markup for 1970-1972 for state XX (\$/gallon)

- iv. Assign average markups to states for which city data are unavailable. See Table 4.5 for listing of assignments.
- v. Compute the commercial sector markup for each year:

$$MXX = (MCAVGXX \div MRS AVGXX) \cdot MRSXX \quad (4.55)$$

Where:

MXX = estimated commercial sector markup for state XX (\$/gallon)

- vi. Calculate state commercial sector prices:

$$DFCMPPXX = (1 + MXX) \cdot PLXX \quad (4.56)$$

Where:

DFCMPPXX = retail commercial price for distillate fuel in state XX (\$/gallon)

U.S. Prices

1970-1980 Quantities from the State Energy Data System are applied to the state price series to calculate volume-weighted U.S. prices.

$$DFCMPPUS = \frac{\sum_{XX=1}^{51} (DFCMPPXX \cdot SVXX)}{\sum_{XX=1}^{51} SVXX} \quad (4.57)$$

Where:

DFCMPPUS = price of distillate to the commercial sector in the U.S. (\$/gallon)

SVXX = volume of commercial sector consumption of distillate fuel in state XX (1000 gallons)

Conversion

1970-1980 The physical unit price is divided by the conversion factor to derive the Btu prices:

TABLE 4.5. Assignment of Fosters No. 2 Fuel Oil Data to States

State	Foster Associates City Price
Alaska	Seattle, WA
Alabama	Charlotte, NC
Arkansas	St. Louis, MO
Arizona	Seattle, WA
California	Seattle, WA
Colorado	Minneapolis-St. Paul, MN
Connecticut	Boston, MA
District of Columbia	District of Columbia
Delaware	District of Columbia
Florida	Charlotte, NC
Georgia	Charlotte, NC
Hawaii	Seattle, WA
Iowa	St. Louis, MO
Idaho	Seattle, WA
Illinois	Chicago, IL
Indiana	Chicago, IL
Kansas	St. Louis, MO
Kentucky	Chicago, IL
Louisiana	St. Louis, MO
Massachusetts	Boston, MA
Maryland	District of Columbia
Maine	Boston, MA
Michigan	Detroit, MI
Minnesota	Minneapolis-St. Paul, MN
Missouri	St. Louis, MO
Mississippi	Charlotte, NC
Montana	Minneapolis-St. Paul, MN
North Carolina	Charlotte, NC
North Dakota	Minneapolis-St. Paul, MN
Nebraska	St. Louis, MO
New Hampshire	Boston, MA
New Jersey	Albany, NY/New York, NY*
New Mexico	Seattle, WA
Nevada	Seattle, WA
New York	Albany, NY/New York, NY*
Ohio	Detroit, MI
Oklahoma	St. Louis, MO
Oregon	Seattle, WA
Pennsylvania	Albany, NY/New York, NY*
Rhode Island	Boston, MA
South Carolina	Charlotte, NC
South Dakota	Minneapolis-St. Paul, MN
Tennessee	Chicago, IL
Texas	St. Louis, MO
Utah	Minneapolis-St. Paul, MN
Virginia	District of Columbia
Vermont	Boston, MA
Washington	Seattle, WA
Wisconsin	Chicago, IL
West Virginia	District of Columbia
Wyoming	Minneapolis-St. Paul, MN

* An average of Albany and New York prices is assigned.

$$DFCMBPXX = DFCMPPXX \div 0.13869 \quad (4.58)$$

Where:

DFCMBPXX = retail commercial price in state XX or the U.S. (\$/million Btu)

4.5.3 Industrial Sector

1. Data Sources

Prices

1971, U.S. Department of Commerce, Bureau of Census, Annual
1974-1979 Survey of Manufactures and Census of Manufactures,
sales and volume data for distillate fuel.

1970, 1972, Estimated from the following data sources according to
1973 procedures explained in (3) below: McGraw Hill,
Inc., Platt's Oil Price Handbook and Oilmanac, refinery/
terminal prices for No. 2 fuel oil. U.S. Department of
Energy, Energy Information Administration, Annual Report
to Congress, 1980, Table 42, "Motor Gasoline and
Residential Heating Oil Retail Prices 1950-1980."

1980 Estimated; see (3) below.

Quantity Weights

1970-1980 U.S. Department of Energy, Energy Information
Administration, State Energy Data System.

2. Conversion Factors

1970-1980 Department of Energy, Energy Information
Administration, Monthly Energy Review.
0.13869 million Btu/gallon

3. Computational Procedures

1971, i. Compute annual prices by dividing consumption data
1974-1978 into sales data and converting to \$ per gallon.

$$DFINPPXX = (CENSXX \div CENVXX) \cdot 1000 \div 42 \quad (4.59)$$

Where:

DFINPPXX = retail industrial price for state XX
(\$/gallon)

DASMSXX = ASM and CM sales data for state XX
(million \$)

CENVXX = ASM and CM volume data for state XX
(1000 barrels)

- ii. To impute missing prices in these years a regression equation is developed linking the state industrial prices to the U.S. residential price.

$$\begin{aligned} \text{DFINPPXX} = & -1.3684 + 0.3321 \text{ DFRSPPUS} + 2.0445 \text{ YEARDUM} \\ & + \sum_{j=2}^{10} c_j \cdot \text{DUM}_j + \sum_{\text{XX}=1}^{51} d_{\text{XX}} \cdot \text{DUMXX} \quad (4.60) \end{aligned}$$

Where:

YEARDUM = 0 in 1971, 1 from 1974 to 1978.

DUM_j = dummy for DOE Region j

DUMXX = dummy for state XX

See Table 4.6 for listing of c_j and d_{XX}.

1970 and 1972-1973 Compute the 1971 ratio of Platt's No. 2 distillate wholesale prices (see Table 4.4 for Platt's terminal price assignments) to state retail prices and use this ratio to impute prices for 1970, 1972, and 1973.

$$\text{DFINPPXX} = \text{DFPLXX} (\text{DFINPPXX}_{71} \div \text{DFPLXX}_{71}) \quad (4.61)$$

Where:

DFPLXX = Platt's terminal price assigned to state XX (\$/gallon)

1978-1980 The average ratio from 1974 to 1978 of retail distillate fuel prices to Platt's wholesale prices is used to impute prices for 1980.^(a)

(a) Originally both the 1979 and 1980 prices were estimated as described here. When the 1979 prices became available in February 1982, they were input with the procedure 1978. The 1980 prices were not re-estimated with the 1979 prices because the 1980 ASM is scheduled for completion in August 1982.

TABLE 4.6. Estimated Values of c_j and d_{xx} for Distillate Industrial Sector Prices

<u>j</u>	<u>c_j</u>	<u>j</u>	<u>c_j</u>
2	-0.0400	7	-0.7343
3	0.0114	8	-1.8614
4	-0.5386	9	-0.6700
5	-0.1429	10	-0.8943
6	-0.6643		

<u>xx</u>	<u>d_{xx}</u>	<u>xx</u>	<u>d_{xx}</u>
AK	2.8757	MN	0.1943
AL	-0.4086	MO	0.5429
AR	-0.5300	MS	-0.5571
AZ	-0.2943	MT	1.8100
CT	0.0129	NC	0.0043
DC	1.8196	ND	3.1029
DE	-0.6471	NH	-0.2300
FL	-0.1714	NJ	-0.1414
GA	-0.5414	NM	2.5910
HI	-0.0957	NV	1.0873
IA	0.1657	OH	0.1629
ID	1.2043	OK	0.2266
IL	0.1071	OR	0.8157
IN	-0.3914	PA	-0.1643
KS	-0.2571	RI	-0.1514
KY	0.3400	SC	-0.1271
LA	-2.1014	SD	2.5643
MD	-0.0886	VT	1.0100
ME	-0.2286	VA	-0.7986
MI	-0.2186	VT	0.4414
		WY	3.3337

- i. Compute the average price ratio for each state:

$$RAVGXX = \frac{1}{5} \sum_{t=74}^{78} (DFINPPXX_t \div DFPLXX_t) \quad (4.62)$$

Where:

RAVGXX = average ratio of retail prices to assigned Platt's prices from 1974-1978 in

- ii. The derived ratio is applied to Platt's assigned prices:

$$DFINPPXX = RAVGXX \cdot DFPLXX \quad (4.63)$$

U.S. Prices

1970-1980 Quantities from the State Energy Data System are applied to the state price series to calculate volume-weighted U.S. prices.

$$DFINPPUS = \frac{\sum_{XX=1}^{51} (DFINPPXX \cdot SVXX)}{\sum_{XX=1}^{51} SVXX} \quad (4.64)$$

Where:

SVXX = volume of industrial sector
consumption of distillate fuel in
in state XX (1000 gallons)

DFINPPUS = price of industrial sector distillate
in the U.S. (\$/gallon)

Conversion

Physical prices are divided by the conversion factor to calculate price per million Btu.

$$1970-1980 \quad DFINBPXX = DFINPPXX \div 0.13869 \quad (4.65)$$

Where:

DFINBPXX = retail industrial price in state XX or the U.S. (\$/million Btu)

4.5.4 Electric Utility Sector

1. Data Sources

- 1973-1980 U.S. Department of Energy, Energy Information Administration, Cost and Quality of Fuels for Electric Utility Plants.
- 1970-1972 Estimated from Edison Electric Institute, Statistical Year Book of the Electric Utility Industry, Table 43S, "Analysis of Fuel for Electric Generation-Total Electric Utility Industry," according to the procedure described in (3) below.

2. Conversion Factor

All conversion factors are implicit in the Cost and Quality data.

3. Computational Procedures

Physical Unit Prices

- 1973-1980 i. Calculate electric utility price from Cost and Quality.

$$DFUTPPXX = \frac{\sum_{i=1}^N (DFUPXX_i \cdot DFUBXX_i \cdot DFUQXX_i)}{\sum_{i=1}^N DFUQXX_i \cdot 100,000,000} \quad (4.66)$$

Where:

DFUTPPXX = price paid by electric utilities for distillate fuel in state XX (\$/gallon)

DFUPXX_i = electric utility retail price of distillate for transaction i (¢/gallon)

DFUBXX_i = Btu content of distillate fuel for transaction i (Btu/gallon)

$DFUQXX_i$ = electric utility quantity of distillate fuel for transaction i (1000 barrels)

N = number of transactions i in state XX or the U.S.

- ii. No imputation was done for states missing Cost and Quality data for the period 1974 to 1980.

- 1970-1972
- i. Compute prices from 1970-1972 for all states and for states without Cost and Quality price data for 1973 using EEI Statistical Year Book data as shown in the following equation:

$$\log DFUTPPXX = 0.2670 + 0.9986 \log DFEEIXX + \sum_{XX=1}^{51} c_{XX} \cdot DSXX \quad (4.67)$$

Where:

$DFEEIXX$ = electric utility price from Edison Electric Institute for state XX (\$/gallon)

$DSXX$ = dummy variable for state XX

The values for coefficient c_{XX} are shown in Table 4.7.

TABLE 4.7 Estimated Values of c_{XX} for Distillate Utility Sector
Physical Unit Prices

<u>State</u>	<u>c_{XX}</u>	<u>State</u>	<u>c_{XX}</u>
AL	-0.1475	MT	-0.1196
AR	-0.1266	NC	-0.1346
AZ	-0.0971	ND	0.0079
CA	-0.2493	NE	0.0109
CO	-0.0540	NH	0.0116
CT	-0.1654	NJ	-0.1674
DC	-0.1458	NM	-0.0797
DE	-0.0330	NV	0.0174
FL	-0.0185	NY	-0.1155
GA	-0.0662	OH	-0.2017
HI	0.0141	OK	-0.0291
IA	-0.1338	OR	-0.1294
ID	-0.0164	PA	-0.1228
IL	-0.1671	RI	-0.0330
IN	-0.1932	SC	0.2472
KS	0.0679	SD	0.0410
KY	-0.0558	TN	-0.0595
LA	-0.0939	TX	-0.0321
MD	-0.0885	UT	0.0153
ME	0.0995	VA	-0.0159
MI	-0.1207	VT	-0.0903
MN	-0.0249	WA	-0.2518
MN	-0.0249	WI	-0.1358
MO	-0.0313	WV	-0.2195
MS	-0.0461	WY	0.0642

- ii. There is no distillate consumption in Alaska so it is not assigned an electric utility sector price.

Btu Prices

Btu prices of distillate fuel for the electric utility sector are derived in the same manner as for the physical unit prices.

$$DFUTBPXX = \frac{\sum_{i=1}^N (DFUPXX_i \cdot DFUBXX_i \cdot DFUQXX_i)}{\sum_{i=1}^N DFUBXX_i \cdot DFUQXX_i \cdot 100} \quad (4.68)$$

Where:

DFUTBPXX = price paid by electric utilities for
distillate fuel in state XX (\$/million
Btu)

1970-1972 Calculate the Btu prices according to the following
equation:

$$\log (DFUTBPXX) = 0.3260 + 1.0011 \log (DFEEIXX) \\ + d_{XX} \bullet DSXX \quad (4.69)$$

Values of d_{XX} are shown in Table 4.8.

TABLE 4.8 Estimated Values of d_{XX} for Distillate Utility Sector
Btu Prices

<u>State</u>	<u>d_{XX}</u>	<u>State</u>	<u>d_{XX}</u>
AL	-0.2043	MT	-0.3049
AR	-0.1220	NC	-0.1763
AZ	-0.1196	ND	-0.0498
CA	-0.2503	NE	-0.0037
CO	-0.0737	NH	0.0186
CT	-0.1742	NJ	-0.1901
DC	-0.1803	NM	-0.1325
DE	-0.0462	NV	0.0057
FL	-0.0131	NY	-0.1211
GA	-0.0801	OH	-0.2387
HI	0.0693	OK	-0.0877
IA	-0.2017	OR	-0.1912
ID	-0.0879	PA	-0.1439
IL	-0.1860	RI	-0.0538
IN	-0.2536	SC	0.2482
KS	0.0599	SD	0.1052
KY	-0.0913	TN	-0.1171
LA	-0.1198	TX	-0.0633
MD	-0.0954	UT	-0.0168
ME	0.0960	VA	-0.0228
MI	-0.1441	UT	-0.1638
MN	-0.0334	WA	-0.2869
MO	-0.0701	WV	-0.3022
MS	-0.0501	WY	0.0004

U.S. Prices

- 1974-1980 U.S. prices are taken directly from Cost and Quality of Fuels for Electric Utility Plants.
- 1970-1973 Quantities from SEDS are applied to the state prices to calculate volume-weighted U.S. prices.

$$DFUTPPUS = \frac{\sum_{XX=1}^{51} (DFUTPPXX \cdot SVXX)}{\sum_{XX=1}^{51} SVXX} \quad (4.70)$$

$$DFUTBPUS = \frac{\sum_{XX=1}^{51} (DFUTBPXX \cdot SVXX)}{\sum_{XX=1}^{51} SVXX} \quad (4.71)$$

Where:

SVXX = volume of electric utility consumption
of distillate fuel in state XX
(1000 gallons)

4.6 MOTOR GASOLINE

The motor gasoline price series covers the transportation sector only.

4.6.1 Data Sources

Prices

1970-1978 McGraw-Hill, Inc. Platt's Oil Price Handbook and Oilmanac, table entitled "Service Station Prices: Gasoline (Including Taxes)."

1979-1980 Platt's, table entitled "Platt's/Lundberg Summary."

1974-1980 U.S. Department of Labor, Bureau of Labor Statistics, Consumer Price Index.

Product Distribution Weights

1976-1980 U.S. Department of Energy, Energy Information Administration, Form EIA-79, unpublished data.

Quantity Weights

1970-1980 U.S. Department of Transportation, Highway Statistics, Table MF-26.

1970-1980 U.S. Department of Energy, Energy Information Administration, State Energy Data System.

4.6.2 Conversion Factor

U.S. Department of Energy, Energy Information Administration, Monthly Energy Review.

0.12507 million Btu/gallon

4.6.3 Computational Procedures

The computational procedures for the motor gasoline price series require an additional step of data compilation. Unlike the other fuels, gasoline data were often reported by product type (leaded regular, leaded premium, unleaded regular, and unleaded premium), instead of as an average price representing all gasoline product types. The "monthly composite price" mentioned throughout this section refers to the price that represents all types of gasoline.

For years when gasoline data sources do not publish all types prices (monthly composite prices), the development of this gasoline price data series requires the additional step of weighting the available product-specific prices into a composite price. Once this is

accomplished, the monthly state prices can be combined into an annual price and the necessary imputations can be performed. Because the available data on gasoline prices vary from year to year, Table 4.9 is included to summarize the extent of the data.

TABLE 4.9. Summary of Gasoline Data Characteristics by Year

<u>Years</u>	<u>Source</u>	<u>Products Covered</u>	<u>Composite Price</u>	<u>Missing States All Sources</u>
1970-1973	<u>Platt's</u>	leaded regular	no	Alaska Hawaii
1974-1975	<u>Platt's</u> <u>CPI</u>	leaded regular leaded regular, leaded premium	no no	Alaska
1976-1977	<u>Platt's</u> <u>CPI</u>	leaded regular leaded regular, leaded premium, unleaded regular	no no	Alaska
1978	<u>Platt's</u> <u>CPI</u>	leaded regular leaded regular, leaded premium, unleaded regular	no yes	none
1979-1980	<u>Platt's</u> <u>CPI</u>	leaded regular, leaded premium, unleaded regular, unleaded premium leaded regular, leaded premium, unleaded regular	no yes	Arkansas Delaware Maine Mississippi Montana North Dakota New Hampshire Oklahoma Rhode Island South Carolina South Dakota Vermont West Virginia Wyoming

1. Monthly Composite State Prices

1970-1973 i. Assign monthly average city prices from Platt's to the state in which the city is located. If more than one data point is available for a given month, an average of the available city prices is used.

ii. Missing states are Alaska and Hawaii

1974-1975 i. Assign monthly Platt's city prices and CPI SMSA prices to the state in which the city or SMSA is located. For SMSAs, all states into which the SMSA boundaries extend are assigned the SMSA price. If both Platt's and the CPI cover a particular city, the CPI price is assigned to that city.^(a)

ii. To get monthly composite state prices, price observations for different product types and multiple observations in a state must be combined. For 1974 and 1975, all price observations for a state are averaged together, regardless of product type or data source:

$$MGTRPPXX_m = \frac{\sum_{c=1}^N MGPXX_{c,m}}{N} \quad (4.72)$$

Where:

$MGTRPPXX_m$ = monthly average composite gasoline price for state XX in month m (\$/gallon)

$MGPXX_{c,m}$ = a monthly product/city observation from Platt's ($MGPLXX$) or the CPI for state XX in month m (\$/gallon)

N = the total number of product/city prices for state XX in month m

iii. Alaska is the only missing state in 1974 and 1975.

1976-1977

- i. Monthly composite state price calculations for these and subsequent years depend on the source of the price data. For states with data only from Platt's, monthly prices are used directly, or are averaged together if there is more than one price observation.

$$MGTRPPXX_m = \frac{\sum_{c=1}^N MGPLXX_{c,m}}{N} \quad (4.73)$$

- ii. If prices for state XX are available only from the CPI, average the price observations for each product type in state XX together. Use the EIA-79 product volume weights to calculate the composite monthly price. The weights are calculated as follows.

$$WXX_{c,m} = \sum_{s=1}^3 \sum_{c=1}^4 \bar{V}XX_{s,c,m} \cdot NXX_{s,c,m} \quad (4.74)$$

Where:

$WXX_{c,m}$ = EIA-79 product volume weight for product c in month m in state XX (gallons)

$\bar{V}XX_{s,c,m}$ = average sales in volume in state XX of service type s, product c in month m (gallons)

$NXX_{s,c,m}$ = number of service type s stations reporting sales of product c in month m

The equation for calculating the monthly composite price from CPI data is shown as Equation 4.75:

$$MGTRPPXX_m = \frac{\sum_{c=1}^4 (MGCP1XX_{c,m} \cdot WXX_{c,m})}{\sum_{c=1}^4 WXX_{c,m}} \quad (4.75)$$

Where:

$MGCP\text{IXX}_{c,m}$ = city price observation from the CPI
for product c in state XX in month m
(\$/gallon)

- iii. If data points for state XX are available from both the CPI and Platt's, average the price observations from the CPI together by product type. Average the Platt's prices, together with the regular leaded CPI prices. Weight the resulting product type prices together with the EIA-79 weights, as in Equation 4.75 above.
 - iv. Alaska is the only missing state for 1976-1977.
- 1978
- i. All price observations for state XX are averaged together regardless of source. Since neither the CPI nor Platt's has produce differentiated prices, no weights are used to calculate monthly composite prices.
 - ii. There are no missing states in 1978.
- 1979-1980
- i. If data points for state XX are available only from Platt's, average full serve and self serve observations for each product type together. Weight the resulting prices with the EIA-79 volumes, using Equation 4.75 above.
 - ii. If prices for a state XX are available only from the CPI, use the monthly "all types" price as given. If more than one city price is available for a state, average the prices together.
 - iii. If data points for state XX are available from both the CPI and Platt's, proceed as follows:
 - a. Calculate average prices by product type from the Platt's data.

- b. Weight the product type prices with the EIA-79 volumes to get the Platt's composite monthly price as in Equation 4.75.
- c. Average all CPI "all types" monthly prices for state XX together with Platt's composite monthly prices for state XX.
- iv. Missing states for 1979-1980 are: Arkansas, Delaware, Maine, Mississippi, Montana, North Dakota, New Hampshire, Oklahoma, Rhode Island, South Carolina, South Dakota, Vermont, West Virginia, and Wyoming.

2. Imputing Monthly prices for 1979-1980

To impute state prices not covered by either Platt's or the CPI, develop the annual average ratio of state price data from EIA-79 in 1979 to the state's corresponding CPI Census Region price; that is:

$$\frac{PEIAXX_j}{PCEN_j}$$

- i. Compute the monthly composite gasoline price for each state from the EIA-79 data for 1979.^(a)

$$PEIAXX_m = \frac{\sum_{s=1}^3 \sum_{c=1}^4 (PEIAXX_{s,c,m} \cdot VEIAXX_{s,c,m} \cdot NEIAXX_{s,c,m})}{\sum_{s=1}^3 \sum_{c=1}^4 VEIAXX_{s,c,m} \cdot NEIAXX_{s,c,m}} \quad (4.76)$$

Where:

$PEIAXX_m$ = monthly composite price from EIA-79 for state XX in month m (\$/gallon)

$PEIAXX_{s,c,m}$ = monthly price for service type s, product c, for state XX in month m (\$/gallon)

(a) Note the omission of the subscript t, since only 1979 data are used.

VEIAXX_{s,c,m} = average volume of gasoline from service station type s, of product c, for state XX in month m (gallons)

NEIAXX_{s,c,m} = number of stations of type s, selling product c, in state XX, in month m

s = type of service (full serve, mini serve, self serve)

c = type of gasoline product (leaded regular, leaded premium, unleaded regular, unleaded premium)

- ii. Compute the ratio between EIA-79 state prices and the Census Region prices from CPI:

$$RXX_j = \frac{1}{12} \sum_{m=1}^{12} (PEIAXX_{j,m} \div PCEN_{j,m}) \quad (4.77)$$

Where:

RXX_j = ratio of EIA-79 composite prices to CPI Census Region prices for state XX in region j

PEIAXX_{j,m} = composite price from EIA-79 for state XX in Census Region j in month m (\$/gallon)

PCEN_{j,m} = CPI Census Region price for region j, in month m (\$/gallon)

- iii. Impute monthly prices for 14 missing states in 1979 and 1980:

$$MGTRPPXX_m = RXX_j \cdot PCEN_{j,m} \quad (4.78)$$

Where:

MGTRPPXX_m = imputed price for state XX, month m where XX = Arkansas, Delaware, Maine, Mississippi, Montana, North Dakota, New Hampshire, Oklahoma, Rhode Island, South Carolina, South Dakota, Vermont, West Virginia, or Wyoming (\$/gallon)

3. Annual State Prices

1970-1980 Use Highway Statistics monthly volume data to calculate annual volume-weighted state prices:

$$MGTRPPXX = \frac{\sum_{m=1}^{12} (MGTRPPXX_m \cdot HSXX_m)}{\sum_{m=1}^{12} HSXX_m} \quad (4.79)$$

Where:

$MGTRPPXX$ = annual retail price for gasoline in state XX (\$/gallon)

$HSXX_m$ = volume of gasoline sold in state XX in month m, from Highway Statistics

4. Imputing Missing Data for 1970-1977

Impute prices for Alaska and Hawaii based on the average relationship between the state price and the national average price from years in which data are available. The national average price used for these imputations is a simple average of the prices of states for which data are available in a given year:

$$MGUS_t = \frac{\sum_{XX=1}^n MGXX_t}{n} \quad (4.80)$$

Where:

$MGUS_t$ = U.S. price in year t (\$/gallon)

$MGXX_t$ = price for state XX in year t (\$/gallon)

n = number of states XX for which data are not available in year t

- ii. Data for Hawaii needed to be imputed for 1970-1973. The average relationship between the Hawaii annual price and the national average annual price was calculated from data for 1974-1978.

$$MGHI_s = \frac{1}{5} MGUS_s \sum_{t=74}^{78} (MGHI_t \div MGUS_t) \quad (4.81)$$

Where:

$MGHI_s$ = imputed price for Hawaii in year s ,
where s represents 1970, 1971, 1972,
1973 (\$/gallon)

$MGUS_t$ = U.S. price for year s (\$/gallon)

t = years for which data for Hawaii are
available (1974-1978)

- iii. Data for Alaska needed to be imputed for 1970-1977. The average relationship between the Alaska annual state price and the national average annual price was calculated from data for 1978 and 1979. Multiply the average ratio by the U.S. price in 1970-1977 to get the Alaska price for those years.

$$MGAK_s = \frac{1}{2} MGUS_s \sum_{t=78}^{79} (MGAK_t \div MGUS_t) \quad (4.82)$$

Where:

s = 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977

t = 1978, 1979

5. U.S. Prices

1970-1980 Quantities from the State Energy Data System are applied to the state price series to calculate the volume-weighted U.S. prices.

$$MGTRPPUS = \frac{\sum_{XX=1}^{51} (MGTRPPXX \cdot SVXX)}{\sum_{XX=1}^{51} SVXX} \quad (4.83)$$

Where:

MGTRPPUS = physical price for motor gasoline in the U.S. (\$/gallon)

MGTRPPXX = physical price for motor gasoline in state XX (\$/gallon)

SVXX = the volume of gasoline consumed in state XX

6. Conversion

Physical prices are converted to prices per million Btu using a conversion factor from Monthly Energy Review.

$$MGTRBPXX = MGTRPPXX \div 0.12507 \quad (4.84)$$

Where:

MGTRBPXX = retail price of motor gasoline in state XX or the U.S. (\$/million Btu)

4.7 DIESEL

The diesel price series is for the transportation sector only.

4.7.1 Data Sources:

Prices

1970-1980 U.S. Department of Agriculture, Agricultural Prices, table entitled, "Motor Supplies: Average Price Paid by Farmers for Motor Fuel, Specific Dates" under the column heading "Diesel Fuel, Per Gallon."

Quantity Weights

1970-1980 U.S. Department of Transportation, Highway Statistics,
Table MF-25.

4.7.2 Conversion Factors

1970-1980 U.S. Department of Energy, Energy Information
Administration, Monthly Energy Review.

4.7.3 Computational Procedures

1. For the period 1970 through 1976, assign the quarterly prices from Agricultural Prices to each of the three months during the quarter.
2. For all years, compute the quantity-weighted annual average prices according the following equation:

$$DLTRPPXX = \frac{\sum_{m=1}^{12} (DLAPXX_m \cdot HSXX_m)}{\sum_{m=1}^{12} HSXX_m} \quad (4.85)$$

Where:

DLTRPPXX = volume-weighted average diesel price for
state XX or the U.S. (\$/gallon)

DLAPXX_m = Agricultural Prices data for state XX
or the U.S. on month m (\$/gallon)

HSXX_m = volume data from Highway Statistics
for state XX or the U.S. in month m (1000
gallons)

3. The price per million Btu is computed as follows:

$$DLTRBPXX = DLTRPPXX \div 0.14 \quad (4.86)$$

Where:

DLTRBPXX = retail price for diesel fuel in state XX or
the U.S. (\$/million Btu).

4.8 KEROSENE AND JET FUEL

The kerosene and jet fuel price series are for the residential, industrial, transportation, and electric utility sectors. The residential and industrial sector series are based on prices for kerosene only. The transportation sector price series is based on jet fuel prices only. The electric utility sector prices are for both jet fuel and kerosene.

4.8.1 Residential Sector

1. Data Sources

Prices

1970-1976	U.S. Department of Agriculture, Crop Reporting Board, <u>Agricultural Prices</u> , table entitled "Average Price Paid by Farmers for Lawn Mowers and Petroleum Products" under the column heading "Kerosene, per gallon."
1977-1980	Estimated from U.S. Department of Commerce, Bureau of Labor Statistics, <u>Producer Prices and Price Indexes-Annual Supplement</u> , table entitled "Regional Refined Petroleum Product Prices and Price Indexes" (see (3) below).

Quantity Weights

1978-1981	U.S. Department of Energy, Energy Information Administration, <u>Retail Sales and Inventories of Fuel Oil</u> , Table 2, under the classification "other distillate fuel oil."
1970-1980	U.S. Department of Energy, Energy Information Administration, <u>State Energy Data System</u> .

2. Conversion Factor

1970-1980	U.S. Department of Energy, Energy Information Administration, <u>Monthly Energy Review</u> .
0.135 million Btu/gallon |
|-----------|--|

3. Computational Procedures

- 1970-1979 i. In order to volume-weight the Agricultural Prices kerosene data, monthly quantity weights are calculated by assigning the "other distillate oil" prices from Retail Sales and Inventories of Fuel Oil to kerosene, then averaging the data from 1978 to 1981 by month.

$$KSV_{j,m} = \frac{\sum_{t=78}^{81} RSV_{j,t,m}}{N} \quad \bullet \quad 42 \quad (4.87)$$

Where:

$KSV_{j,m}$ = average consumption of kerosene in PAD District j in month m (1000 gallons)

$RSV_{j,t,m}$ = total monthly sales of "other distillate oil" for each month for PAD district from Retail Sales and Inventories of Fuel Oil from November 1978 to March 1981 (1000 barrels)

N = number of years of non-zero data for month m

- ii. Assign the average PAD District monthly usage pattern calculated in Equation 4.87 to the states within the PAD District.

$$KSAVXX_m = \frac{KSV_{j,m}}{\sum_{m=1}^{12} KSV_{j,m}} \quad (4.88)$$

Where:

$KSAVXX_m$ = average fraction of annual kerosene consumption in state XX in month m

- iii. Residential sector prices are calculated as the volume weighted average of Agricultural Prices data.

$$KRSPPXX = \sum_{q=1}^4 \left[KSAPXX_q \cdot \sum_{m=1}^3 KSAVXX_m \right] \quad (4.89)$$

Where:

KRSPPXX = residential retail price for kerosene for state XX (\$/gallon)

$KSAPXX_q$ = data observations from Agricultural Prices for state XX in quarter q (\$/gallon)

- iv. Missing Agricultural Prices data for Nevada in 1972 is imputed by applying the average relationship between Nevada and the U.S. in 1971 and 1973.

$$KRSPPNV_{72} = \frac{1}{8} \sum_{q=1}^4 (KRSPPNV_{71} + KRSPPNV_{73}) \quad (4.90)$$

- 1977-1980 i. Compute regional prices from Producer Prices and Price Indexes by applying monthly index to base price in July 1975.

$$KSPPI_{j,m} = (KSPPII_{j,m} \div 100) KSBASE_{j,m} \quad (4.91)$$

Where:

$KSPPI_{j,m}$ = price from Producer Prices and Price Indexes for Census Region j in month m (\$/gallon)

$KSPPII_{j,m}$ = price index from Producer Prices and Price Indexes for Census Region j

$KSBASE_{j,m}$ = base price from Producer Prices and Price Indexes for Census Region j (\$/gallon)

- ii. Assign regional Producer Prices data to states in each region and calculate average quarterly price:

$$KSPPIXX_q = \frac{1}{3} \sum_{m=1}^3 KSPPIXX_{q,m} \quad (4.92)$$

Where:

$KSPPIXX_{q,m}$ = assigned price data for state XX from Producer Prices (\$/gallon)

$KSPPIXX_q$ = quarterly average price for quarter q, region j for state XX from Producer Prices (\$/gallon)

- iii. Determine average ratio between the quarterly Agricultural Prices data and the quarterly Producer Prices and Price Indexes data.

$$RXX = \frac{1}{6} \sum_{q=1}^6 (KSAPXX_q \div KSPPIXX_q) \quad (4.93)$$

Where:

RXX = average ratio of Agricultural Prices price data to Producer Prices and Price Indexes data from the third quarter of 1975 to the fourth quarter of 1976

- iv. Calculate state-level prices since 1977 with the following equation:

$$KSRSPXX = RXX \frac{1}{4} \sum_{q=1}^4 KSPPIXX_q \quad (4.94)$$

Where:

$KSRSPXX$ = residential retail price for kerosene for state XX (\$/gallon)

U.S. Prices

1970-1980 Quantities from the State Energy Data System are applied to the state price series to calculate volume-weighted U.S. prices.

$$KRSPPUS = \frac{\sum_{XX=1}^{51} (KRSPPXX \cdot SVXX)}{\sum_{XX=1}^{51} SVXX} \quad (4.95)$$

Where:

SVXX = volume of residential sector consumption of kerosene in state XX from SEDS (1000 gallons)

Conversion

$$KRSBPXX = KRSPPXX \div 0.135 \quad (4.96)$$

Where:

KRSBPXX = residential retail price for kerosene in state XX or the U.S. (\$/million Btu)

4.8.2 Industrial Sector

1. Data Sources

Prices

1970-1980 Prices for all years are estimated from the following sources: U.S. Department of Commerce, Bureau of Labor Statistics, Producer Prices and Price Indexes--Annual Supplement, table entitled "Regional Refined Petroleum Produce Prices and Price Indexes" for 1975 through 1980 and the distillate fuel industrial sector price series developed in Section 4.5.2.

Quantity Weights

1970-1980 U.S. Department of Energy, Energy Information Administration, State Energy Data System.

2. Conversion Factors

1970-1980 U.S. Department of Energy, Energy Information Administration, Monthly Energy Review.
0.135 million Btu/gallon

3. Computational Procedures

- 1975-1980 i. Compute annual wholesale prices from Producer Prices and Price Indexes for kerosene and No. 2 heating oil using published price index and base price data.

$$KSPPI_j = (KSPPII_j \div 100) KSBASE_j \quad (4.97)$$

$$DFPPI_j = (DFPPII_j \div 100) DFBASE_j \quad (4.98)$$

Where:

$KSPPI_j$ = annual wholesale price for kerosene from Producer Prices and Price Indexes for Census Region j (\$/gallon)

$KSPPII_j$ = wholesale price index for kerosene from Producer Prices and Price Indexes for Census Region j

$KSBASE_j$ = base price for kerosene from Producer Prices and Price Indexes for Census Region j in July 1975 (\$/gallon)

$DFPPI_j$ = wholesale price for No. 2 heating oil from Producer Prices and Price Indexes for Census Region j (\$/gallon)

$DFPPII_j$ = wholesale price index for No. 2 heating oil from Producer Prices and Price Indexes for Census Region j (\$/gallon)

$DFBASE_j$ = base price for No. 2 heating oil from Producer Prices and Price Indexes for Census Region j in July 1975 (\$/gallon)

- ii. Assign kerosene and No. 2 heating oil annual average wholesale prices from Producer Prices and Price Indexes to the states in each Census Region:

$$KSPPIXX = KSPPI_j$$

$$DFPPIXX = DFPPI_j$$

Where:

$KSPPIXX$ = wholesale price for kerosene in state XX (\$/gallon)

$DFPPIXX$ = wholesale price for distillate fuel in state XX (\$/gallon)

iii. Compute the industrial sector kerosene prices:

$$KSINPPXX = (KSPPIXX \div DFPIXX) \cdot DFINPPXX \quad (4.99)$$

Where:

KSINPPXX = industrial retail price for kerosene in state XX (\$/gallon)

DFINPPXX = industrial retail price for distillate fuel in state XX (\$/gallon)

1970-1974 i. Compute average annual wholesale price ratio between kerosene and distillate fuel:

$$RXX = \frac{1}{6} \sum_{t=75}^{80} (KSPPIXX_t \div DFPIXX_t) \quad (4.100)$$

Where:

RXX = average ratio of kerosene to distillate fuel annual wholesale prices

ii. Use the average ratio and state-level distillate fuel prices for the industrial sector to compute state-level kerosene prices for the same sector.

$$KSINPPXX = RXX \cdot DFINPPXX \quad (4.101)$$

U.S. Prices

1970-1980 Quantities from the State Energy Data System are applied to the state price series to calculate volume-weighted U.S. prices.

$$KSINPPUS = \frac{\sum_{XX=1}^{51} (KSINPPXX \cdot SVXX)}{\sum_{XX=1}^{51} SVXX} \quad (4.102)$$

Where:

SVXX = volume of industrial sector consumption of kerosene in state XX (1000 gallons)

Conversion

Physical prices are converted to prices per million Btu using the conversion factor from Monthly Energy Review.

$$KSINBPXX = KSINPPXX \div 0.135 \quad (4.103)$$

Where:

KSINBPXX = industrial retail price of kerosene in state XX or the U.S. (\$/million Btu)

4.8.3 Transportation Sector

The jet fuel price series is developed for the transportation sector. The series contains wholesale prices at the level of Census Regions. The regional prices are assigned to each state within the region.

1. Data Sources

Prices

1970-1975 Estimated from PPI and other data (see (3) below).

1976-1980 U.S. Department of Labor, Bureau of Labor Statistics, Producer Prices and Price Indexes, table entitled "Regional Refined Petroleum Product Prices and Price Index."

Quantity Weights

1970-1980 U.S. Department of Energy, Energy Information Administration, State Energy Data System.

2. Conversion Factor

1970-1980 U.S. Department of Energy, Energy Information Administration, Monthly Energy Review.
0.135 million Btu/gallon

3. Computational Procedure

1976-1980 i. Compute regional jet fuel prices from Producer Prices and Price Indexes using published indexes and base price in July 1975.

$$JFPPI_{j,m} = (JFPPI_{j,m} \div 100) \cdot JFBASE_{j,m} \quad (4.104)$$

Where:

$JFPPI_{j,m}$ = wholesale price for jet fuel from Producer Prices and Price Indexes for region j in month m (\$/gallon)

$JFPPII_{j,m}$ = wholesale price index for jet fuel from Producer Prices and Price Indexes for region j in month m

$JFBASE_{j,m}$ = base price for jet fuel from Producer Prices and Price Indexes for region j in month m (\$/gallon)

- ii. Assign regional prices to the states within each region and compute annual average prices by simple averaging.

$$JFPPIIX_m = JFPPI_{j,m}$$

$$JFTRPPUS = \frac{1}{12} \sum_{m=1}^{12} JFPPIIX_m \quad (4.105)$$

Where:

$JFPPIIX_m$ = price of jet fuel for state XX in month m (\$/gallon)

$JFTRPPXX$ = price for jet fuel for state XX (\$/gallon)

- 1970-1975 i. Calculate U.S. wholesale price for jet fuel for 1973-1980 using the jet fuel price index from Producer Prices and Price Indexes and the base year price.

$$JFTRPPUS = (JFPPIUS \div 245) \cdot JFBASE \quad (4.106)$$

Where:

$JFTRPPUS$ = wholesale price for jet fuel in the U.S. (\$/gallon)

$JFPPIUS$ = wholesale price index for jet fuel in the U.S.

$JFBASE$ = wholesale price for jet fuel in July 1975 (\$/gallon)

- ii. Calculate U.S. wholesale prices for jet fuel for 1970-1972 using the following equation:

$$JFTRPPUS = -3.1839 + 0.0404 \text{ KSIPAA} \quad (4.107)$$

Where:

KSIPAA = wholesale kerosene prices from Independent Petroleum Association of America as reported in Platt's Oil Price Handbook and Oilmanac, 57th Edition, p. 480 (\$/gallon)

- iii. Calculate the Census Region wholesale jet fuel prices by applying the U.S. wholesale jet fuel prices derived in (ii) above for 1970-1972 and those directly available from PPI for 1973-1975 to the following equation:

$$\begin{aligned} \log JFPD_j &= 0.1079 + 1.0119 \log JFTRPPUS \quad (4.108) \\ &- 0.0250 D2 + 0.0214 D3 + 0.0110 D4 \\ &- 0.1412 D5 + 0.0285 D6 + 0.0423 D7 \\ &+ 0.0197 D8 - 0.0201 D9 \end{aligned}$$

Where:

$JFPD_j$ = wholesale jet fuel price for Census Region J (\$/gallon) where D1 is New England; D2 is Mid-Atlantic, D3 is South Atlantic, D4 is East North Central, D5 is East South Central, D6 is West North Central, D7 is West South Central, D8 is Mountain, and D9 is Pacific

- iv. Assign the regional wholesale prices to states within the region.

Conversion

Physical prices are converted to prices per million Btu using the conversion factor from Monthly Energy Review.

$$JFTRBPXX = JFTRPPXX \div 0.135 \quad (4.109)$$

Where:

JFTRBPXX = transportation price for jet fuel in state XX or the U.S. (\$/million Btu)

4.8.4 Electric Utility Sector

1. Data Sources

- 1974-1980 U.S. Department of Energy, Energy Information Administration, Cost and Quality of Fuels for Electric Utilities.
- 1970-1973 Estimated from data by U.S. Department of Agriculture, Crop Reporting Board, Agricultural Prices, table entitled "Average Price Paid by Farmers for Lawn Mowers and Petroleum Products" under the column heading "Kerosene, per gallon," (see (3) below).

2. Conversion Factor

- 1970-1980 U.S. Department of Energy, Energy Information Administration, Monthly Energy Review.
0.135 million Btu/gallon

3. Computational Procedures

- 1974-1980 Assign annual price data from Cost and Quality to the states. Cost and Quality data are primarily kerosene prices with some jet fuel prices.

$$KSUTPPXX = \frac{\sum_{i=1}^N (KSUPXX_i \cdot KSUBXX_i \cdot KSUQXX_i)}{\sum_{i=1}^N (KSUQXX_i + JFUQXX_i) \cdot 100,000,000} \quad (4.110)$$

$$+ \frac{\sum_{i=1}^N (JFUPXX_i \cdot JFUBXX_i \cdot JFUQXX_i)}{\sum_{i=1}^N (KSUQXX_i + JFUQXX_i) \cdot 100,000,000}$$

Where:

KSUTPPXX = electric utility retail price for kerosene and jet fuel for state XX or the U.S. (\$/gallon)

KSUBXX_i = Btu content of kerosene for transaction i in state XX (Btu/gallon)

$KSUPXX_i$ = retail price of kerosene for transaction i in state XX (¢/million Btu) (\$/million Btu)

$KSUQXX_i$ = quantity of kerosene for transaction i in state XX (1000 barrels)

$JFUBXX_i$ = Btu content of jet fuel for transaction i in state XX (Btu/gallon)

$JFUPXX_i$ = retail price of jet fuel for transaction i in state XX (¢/million Btu)

$JFUQXX_i$ = quantity of jet fuel for transaction i in state XX (1000 barrels)

N = number of transactions i , in state XX or the U.S.

- 1970-1973 i. To compute electric utility sector prices for these years, link Cost and Quality prices to average annual Agricultural Prices data from 1973 to 1976 for those states which used kerosene after 1973. First, convert the quarterly Agricultural Prices data from 1973 to 1976.

$$KSAPXX = \frac{1}{4} \sum_{q=1}^4 KSAPXX_q \quad (4.111)$$

Where:

$KSAPXX$ = average annual price from Agricultural Prices for state XX or the U.S. (\$/gallon)

$KSAPXX_q$ = price observations from Agricultural Prices for state XX or the U.S. in quarter q (\$/gallon)

- ii. Compute the missing 1972 annual price for Nevada using same procedure as in the residential sector, Section 4.8.1.
- iii. Estimate a regression equation linking Cost and Quality data to the average annual Agricultural Prices data from 1973 to 1976. Using this equation, assign state prices from 1970 to 1973. Values of c_{XX} are shown in Table 4.10.

TABLE 4.10 Estimated Values of c_{XX} for Kerosene and Jet Fuel
Utility Sector Prices

<u>State XX</u>	<u>c_{XX}</u>	<u>State XX</u>	<u>c_{XX}</u>
AZ	0.0349	JN	-0.0287
CA	0.0006	NY	-0.0063
CT	-0.0509	OH	0.0093
FL	0.0078	OR	0.0321
IL	0.0354	PA	0.0269
MD	-0.0178	VT	0.0230
MI	-0.0273	WA	0.0587
NH	-0.0376	WI	-0.0375
		WV	0.0461

$$KSUTPPXX = 0.094 + 0.5236 (KSAPUS) \quad (4.112)$$

$$+ \sum_{XX=1}^{51} c_{XX} \cdot (KSAPXX \cdot DXX)$$

Where:

DXX = a dummy for each state XX

U.S. Prices

1970-1973

$$KSUTPPUS = \frac{\sum_{XX=1}^{51} (KSUTPPXX \cdot VOL75XX)}{\sum_{XX=1}^{51} VOL75XX} \quad (4.113)$$

Where:

$KSUTPPUS$ = electric utility price for kerosene in the U.S. (\$/gallon)

$VOL75XX$ = consumption of kerosene and jet fuel in the electric utility sector from Cost and Quality in 1975 (1000 Bbl)

1974-1980 U.S. prices were computed with the state prices from Cost and Quality.

Conversion

$$KSUTBPXX = KSUTPPXX \div 0.135 \quad (4.114)$$

Where:

KSUTBPXX = electric utility retail price of kerosene and jet fuel for state XX or the U.S. (\$/million Btu)

4.9 RESIDUAL FUEL

Residual fuel price series are developed for the electric utility, industrial, commercial, and transportation sectors.

4.9.1 Electric Utility Sector

1. Data Sources

1970-1972	Estimated from Edison Electric Insitute, <u>Statistical Year Book of the Electric Utility Industry, Table 43S, "Analysis of Fuel for Electric Generation - Total Electric Utility Industry,"</u> under column heading "Oil."
1973-1980	U.S. Department of Energy, Energy Information Administration, <u>Cost and Quality of Fuels for Electric Utility Plants.</u>

2. Computational Procedures

- 1973-1980 i. Compute physical unit prices from the Cost and Quality transaction data for each state:

$$RFUTPPXX = \frac{\sum_{i=1}^N (RFUPXX_i \cdot RFUBXX_i \cdot RFUQXX_i) \cdot 42}{\sum_{i=1}^N RFUQXX_i \cdot 100,000,000} \quad (4.115)$$

Where:

RFUTPPXX = price of residual fuel in state XX or the U.S. (\$/Bbl)

RFUPXX_i = price of residual fuel for transaction i, in state XX or the U.S. (\$/million Btu)

$RFUBXX_i$ = Btu content for transaction i in state XX or the U.S. (Btu/gallon)

$RFUQXX_i$ = quantity of residual oil for transaction i in state XX or U.S. (1000 Bbl)

N = number of transactions in state XX or the U.S.

- ii. Since the conversion factors vary by state by year and are embedded in the Cost and Quality data, no direct conversion to Btu units was required. Instead, Btu prices were derived from Cost and Quality in the same manner as the physical unit prices.

$$RFUTBPXX = \frac{\sum_{i=1}^N (RFUPXX_i \cdot RFUBXX_i \cdot RFUQXX_i)}{\sum_{i=1}^N RFUBXX_i \cdot RFUQXX_i \cdot 100} \quad (4.116)$$

Where:

$RFUTBPXX$ = retail price for residual fuel in state XX or the U.S. (\$/million Btu)

- 1970-1972 i. Estimate state-level physical prices using EEI state price data for 1970-1972 in the following equation:

$$\log(RFUTPPXX) = 0.0589 + 0.0912 \log EEIXX + c_{XX} \cdot DXX \quad (4.117)$$

Where:

$EEIXX$ = price for state XX from the EEI Statistical Year Book

DXX = dummy variable for state XX.

Values for c_{XX} are shown in Table 4.11.

- ii. Estimate the state-level Btu prices by using the EEI state price data for 1970-1972 in the following equation:

TABLE 4.11. Estimated Values of c_{XX} for Residual Fuel Utility Sector
Physical Unit Prices

State	c_{XX}	State	c_{XX}
AR	-0.0591	MT	0.0266
AZ	0.0181	NC	-0.1081
CA	-0.0103	NE	-0.0474
CO	-0.1734	NH	-0.0053
CT	0.0088	NJ	0.0022
DC	0.0401	NM	-0.0753
DE	0.0357	NV	0.0558
FL	0.0105	NY	-0.0017
GA	-0.1355	OH	-0.0743
HI	-0.0481	OK	-0.0379
IA	-0.2593	PA	-0.0233
IL	-0.0858	RI	0.0143
KS	0.0480	SC	-0.0070
LA	-0.0995	SD	-0.0351
MD	-0.0253	TX	0.0118
ME	0.0392	UT	-0.0062
MI	0.0563	VA	-0.0087
MN	0.0309	WA	-0.3494
MO	-0.0678	WI	-0.1272
MS	-0.0389		

$$\log(\text{RFUTBPXX}) = 0.0215 + 0.9849 (\text{EEIBXX}) + d_X \cdot \text{DXX} \quad (4.118)$$

Where:

EEIBXX = EEI Btu prices for state XX (\$/million Btu)

DXX = dummy variable for state XX;
Massachusetts is the reference
state

Values of d_{XX} are shown below in Table 4.12.

4.9.2 Industrial Sector

1. Data Sources

Prices

1971, U.S. Department of Commerce, Bureau of the Census,
1974-1979 Census of Manufactures, and Annual Survey
of Manufactures, data for residual fuel sales and volume.

1970, 1972 Estimated; see (3) below.

1973

TABLE 4.12. Estimated Values of d_{XX} for Residual Fuel Utility Sector
Btu Prices

<u>State</u>	<u>d XX</u>	<u>State</u>	<u>d XX</u>
AR	-0.0610	MT	-0.0574
AZ	-0.0038	NC	-0.1361
CA	-0.0160	NE	-0.0761
CO	-0.2032	NH	-0.079
CT	0.0080	NJ	-0.0055
DC	0.0357	NM	-0.0921
DE	0.0287	NV	0.0504
FL	0.0091	NY	-0.0048
GA	-0.1636	OH	-0.1403
HI	-0.0490	OK	-0.0906
IA	-0.2932	PA	-0.0347
IL	-0.1123	RI	0.0193
KS	0.0245	SC	-0.0143
LA	-0.1102	SD	-0.0112
MD	-0.0308	TX	0.0006
ME	0.0391	UT	-0.0287
MI	0.0228	VA	-0.0136
MN	0.0097	WA	-0.3750
MO	-0.1334	WI	-0.2052
MS	-0.0513		

1970-1980 McGraw-Hill, Inc., Platt's Oil Price Handbook and Oilmanac, refinery and terminal prices for No. 6 fuel oil.

Quantity Weights

1970-1980 U.S. Department of Energy, Energy Administration,
State Energy Data System.

2. Conversion Factor

1970-1980 U.S. Department of Energy, Energy Information
Administration, State Energy Data System.
6.287 million Btu/barrel

3. Computational Procedures

1971, Calculate state prices from ASM and CM sales and
1974-1979 volume data:

$$RFINPPXX = (RFASMSXX \div RFASMVXX) \cdot 1000 \quad (4.119)$$

Where:

RFINPPXX = industrial sector retail price for residual fuel from ASM and CM for state XX (\$/barrel)

RFASMSXX = sales of residual fuel in state XX from ASM and CM (million \$)

RFASMVXX = quantity of residual fuel sold in state XX (1000 barrel)

These data are generally available for most states for the years 1971 and 1974 through 1979.

1970, 1972, 1973 All state prices in 1970, 1972, and 1973, as well as states without ASM and CM price data in 1971 and 1974-1979, are imputed using the following regression equation and the electric utility sector price developed in Section 4.9.1.

$$\begin{aligned} \text{RFINPPXX} = & 0.4588 + 1.0122 \text{ RFUTPPUS} + \sum_{\text{XX}=1}^{51} c_{\text{XX}} \cdot \text{DXX} \\ & + \sum_{\text{XX}=1}^{51} e_{\text{XX}} \cdot (\text{DXX} \cdot \text{RFUTPPUS}) \end{aligned} \quad (4.120)$$

Where:

RFUTPPUS = electric utility sector price for the U.S. (\$/barrel)

DXX = dummy for state XX; Massachusetts is the reference state

Values of c_{XX} and e_{XX} are shown in Table 4.13.

TABLE 4.13. Estimated Values of c_{XX} and e_{XX} for Residual Fuel Industrial Sector Physical Unit Prices

State	c_{XX}	e_{XX}	State	c_{XX}	e_{XX}
AK	0.1900	-0.1527	MO	0.1035	-0.1007
AL	0.7505	-0.1900	MS	-0.0234	-0.1565
AR	0.3756	-0.2272	NC	-0.4147	-0.0128
AZ	-0.2365	-0.1007	ND	3.9976	-0.4304
CA	0.3203	-0.2144	NE	-0.1085	-0.1149
CO	-0.2093	-0.1692	NH	0.0238	-0.0878
CT	-0.4780	0.0821	NJ	0.0910	0.0518
DC	0.5772	0.2150	NY	-0.0169	-0.0021
DE	0.4222	-0.0968	OH	-0.0640	0.0442
FL	-0.6427	-0.1145	OR	-0.2168	-0.1214
GA	-0.5486	-0.0831	PA	0.2189	-0.0004
HI	0.5204	-0.0957	RI	-0.5785	0.0667
IA	0.4665	-0.0708	SC	-0.8953	-0.0316
ID	-0.6941	0.0400	SD	1.3058	-0.1559
IL	0.4933	0.0072	TN	-0.8849	-0.0040
IN	-0.1462	-0.0560	TX	-0.8497	-0.1237
KS	-0.0016	-0.1341	UT	1.2521	-0.2458
KY	-0.7128	0.0701	VA	-1.2776	-0.0027
LA	1.1196	-0.2328	VT	0.0091	-0.0038
MD	-0.1585	0.0202	WA	0.0140	-0.1803
ME	-0.7213	-0.0193	WI	0.2659	-0.0437
MI	0.1432	-0.0649	WV	0.4625	-0.0962
MN	0.0969	-0.1209			

1980

- i. State prices are estimated based on the average ratio over 1974-1978 of industrial sector prices to Platt's refinery and terminal prices assigned to each state from Table 4.14. Determine average price ratio:

$$RXX = \frac{1}{5} \sum_{t=74}^{78} (RFINPPXX_t \div RFPLXX_t) \quad (4.121)$$

Where:

RXX = average ratio of industrial sector prices to assigned Platt's prices in state XX

$RFPLXX_t$ = assigned refinery and terminal price from Platt's for state XX (\$/barrel)

TABLE 4.14. Assignment of Platt's No. 6 Fuel Oil Data to States

State	City Price(s) Assignment
Alaska	Average of Los Angeles and San Francisco, CA
Alabama	Savannah, GA
Arkansas	New Orleans, LA 1970; Arkansas 1971-1980
Arizona	Average of Los Angeles and San Francisco, CA
California	Average of Los Angeles and San Francisco, CA
Colorado	Minneapolis/St. Paul, MN
Connecticut	New Haven, CT
District of Columbia	Baltimore, MD
Delaware	Baltimore, MD
Florida	Average of Jacksonville and Miami, FL
Georgia	Savannah, GA
Hawaii	Average of Los Angeles and San Francisco, CA
Iowa	Chicago, IL
Idaho	Average of Los Angeles and San Francisco, CA
Illinois	Chicago, IL
Indiana	Chicago, IL
Kansas	New Orleans, LA
Kentucky	New Orleans, LA
Louisiana	New Orleans, LA
Massachusetts	Boston, MA
Maryland	Baltimore, MD
Maine	Portland, ME
Michigan	Detroit, MI
Minnesota	Minneapolis/St. Paul, MN
Missouri	St. Louis, MO
Mississippi	New Orleans, LA
Montana	Minneapolis/St. Paul, MN
North Carolina	Wilmington, NC
North Dakota	Minneapolis/St. Paul, MN
Nebraska	Average of Los Angeles and San Francisco, CA
New Hampshire	Portland, ME
New Jersey	New York, NY
New Mexico	Average of Los Angeles and San Francisco, CA
Nevada	Average of Los Angeles and San Francisco, CA
New York	Average of Albany and New York, NY
Ohio	Detroit, MI
Oklahoma	Oklahoma Group 3, OK 1970-1977; New Orleans, LA 1978-1980
Oregon	Average of Los Angeles and San Francisco, CA
Pennsylvania	Philadelphia, PA
Rhode Island	New Haven, CT
South Carolina	Charleston, SC
South Dakota	Minneapolis/St. Paul, MN
Tennessee	New Orleans, LA
Texas	New Orleans, LA
Utah	Minneapolis/St. Paul, MN
Virginia	Norfolk, VA
Vermont	Portland, ME
Washington	Average of Los Angeles and San Francisco, CA
Wisconsin	Chicago, IL
West Virginia	Norfolk, VA
Wyoming	Minneapolis/St. Paul, MN

ii. Calculate industrial sector prices:

$$RFINPPXX = RXX \cdot RFPLXX \quad (4.122)$$

U.S. Prices

1970-1980 Quantities from the State Energy Data System are applied to the state price series to calculate volume-weighted U.S. prices:

$$RFINPPUS = \frac{\sum_{XX=1}^{51} (RFINPPXX \cdot SVXX)}{\sum_{XX=1}^{51} SVXX} \quad (4.123)$$

Where:

SVXX = volume of industrial sector consumption of residual fuel in state XX (1000 gallons)

Conversion

1970-1980 State and U.S. physical unit prices are divided by the conversion factor:

$$RFINBPXX = RFINPPXX \div 6.287 \quad (4.124)$$

Where:

RFINBPXX = industrial sector retail price of residual fuel for state XX or the U.S. (\$/million Btu)

4.9.3 Commercial Sector

1. Data Sources

Prices

1970-1980 Residual fuel prices for all years are estimated from industrial sector price series developed in Section 4.9.2 and data from U.S. Department of Energy, Energy Information Administration, Monthly Energy Review, Table entitled "Average No. 6 Residual Fuel Oil Prices" under column heading "Average-Retail." See (3) below.

Taxes

1976-1980 U.S. Department of Commerce, Bureau of Census,
Statistical Abstract of the U.S., Table 440, "State Tax
Collections and Excise Taxes, by Type of Taxes," under
the column heading "General Sales and Gross Receipts."

Quantity Weights

1970-1980 U.S. Department of Energy, Energy Information
Administration, State Energy Data System.

2. Conversion Factor

1970-1980 U.S. Department of Energy, Energy Information
Administration, Monthly Energy Review.
6.287 million Btu/barrel

3. Computational Procedures

1976-1980 i. Determine the U.S. all-sector residual price,
including taxes, and use it to estimate the
commercial sector price. First, calculate a
volume-weighted average U.S. sales tax rate:

$$\text{TAXUS} = \frac{\sum_{XX=1}^{51} (\text{TAXXX} \cdot \text{VXX})}{\sum_{XX=1}^{51} \text{VXX}} \quad (4.125)$$

Where:

TAXUS = average tax rate on residual fuel in the
U.S.

TAXXX = tax rate on residual fuel in state XX

VXX = volume of residual fuel consumed by the
commercial sector in state XX from SEDS
(1000 gallons)

ii. Calculate the tax-adjusted U.S. price for residual
fuel oil for all sectors:

$$\text{RFPUS} = \text{PMERUS} \cdot (1 + \text{TAXUS}) \quad (4.126)$$

Where:

RFPUS = residual fuel price in the U.S. (\$/barrel)

PMERUS = pre-tax No. 6 residual fuel price from
Monthly Energy Review for the U.S.
(\$/barrel)

- iii. Calculate commercial sector prices assuming the ratios of state prices to U.S. prices are the same in the commercial and industrial sectors.

$$\text{RFCMPPXX} = \text{RFINPPXX} \cdot (\text{RFPUS} \div \text{RFINPPUS}) \quad (4.127)$$

Where:

RFCMPPXX = residual fuel retail price for the commercial sector in state XX (\$/barrel)

RFINPPXX = residual fuel retail price for the industrial sector from Section 4.9.2 for state XX (\$/barrel)

- 1970-1975 i. Prices are calculated by assuming the ratios of state to U.S. prices are the same in the commercial and industrial sectors from 1976-1979. Compute average price ratio of all-sector residual fuel prices for the U.S. to the industrial sector price for the U.S. from 1976-1979:

$$\text{RAVG} = \frac{1}{4} \sum_{t=76}^{79} (\text{RFPUS}_t \div \text{RFINPPUS}_t) \quad (4.128)$$

Where:

RAVG = average ratio of the all-sector U.S. prices to the industrial sector U.S. prices for 1976-1979

- ii. Calculate the commercial sector price by applying the average ratio to the industrial sector prices for 1970-1975.

$$\text{RFCMPPXX} = \text{RAVG} \cdot \text{RFINPPXX} \quad (4.129)$$

Where:

RFCMPPXX = retail residual fuel price for the commercial sector in state XX (\$/barrel)

U.S. Prices

1970-1980 Quantities from the State Energy Data System are applied to the state price series to calculate the volume-weighted U.S. price.

$$\text{RFCMPPUS} = \frac{\sum_{XX=1}^{51} (\text{RFCMPPXX} \cdot \text{SVXX})}{\sum_{XX=1}^{51} \text{SVXX}} \quad (4.130)$$

Where:

RFCMPPUS = price of commercial sector residual fuel in the U.S. (\$/barrel)

SVXX = volume of commercial sector consumption of residual fuel in state XX (1000 barrels)

Conversion

1970-1980 The physical unit prices for states and the U.S. are divided by the conversion factor.

$$\text{RFCMBPXX} = \text{RFCMPPXX} \div 6.827 \quad (4.131)$$

Where:

RFCMBPXX = retail commercial sector price for residual fuel in state XX or the U.S. (\$/million Btu)

4.9.4 Transportation Sector

1. Data Sources

Prices

1970-1980 All prices are derived or estimated from U.S. Department of Energy, Energy Information Administration, Monthly Petroleum Product Price Report, Table 3, Retail Price Data for "Bunker 'C'," and the commercial sector price series developed in Section 4.9.3. See (3) below.

End-Use Weights

1976-1980 U.S. Department of Energy, Energy Information Administration, Deliveries of Fuel Oil and Kerosene, residual oil use in vessel bunkering and railroads.

2. Conversion Factor

1970-1980 U.S. Department of Energy, Energy Information
Administration, Monthly Energy Review.

6.287 million Btu/barrel

3. Computational Procedures

States are segregated by end-use of residual fuel in the transportation sector. Type A includes states which use all or most of their residual fuel for vessel bunkering purposes. Type B includes states which use all of their residual fuel for railroad use. Type C includes states which use residual fuel for both railroad and vessel bunkering. Only Illinois is included in Type C. States which do not fit into these categories are not assigned a transportation sector price. See Table 4.15 for states by type.

Type A

1975-1980 Prices are imputed by assuming that the state Bunker C price has the same ratio to the U.S. price as is found in the commercial sector.

$$RFTRPPXX = RFCMPPXX \cdot (BCMPRUS \div RFCMPPUS) \quad (4.132)$$

Where:

RFTRPPXX = transportation sector retail price of residual fuel in state XX (\$/barrel)

RFCMPPXX = retail commercial price for residual fuel in state XX (\$/barrel)

BCMPRUS = retail price for Bunker C in state XX from Monthly Petroleum Product Price Report (\$/barrel)

RFCMPPUS = retail commercial price for residual fuel in the U.S. (\$/barrel)

1970-1974 i. Compute prices using the average ratio of Bunker C prices to commercial sector prices in the U.S. from 1975 to 1979:

$$RUS = \frac{1}{5} \sum_{t=75}^{79} (BCMPRUS_t \div RFCMPPUS_t) \quad (4.133)$$

TABLE 4.15 State Groups According to Use of Residual Fuel for
Transportation Purposes

<u>Type A</u>	<u>Type B</u>	<u>Type C</u>	<u>No Use</u>
Alaska	Colorado	Illinois	Arkansas
Alabama	Iowa		Arizona
California	Kansas		District of Columbia
Connecticut	Missouri		Idaho
Delaware	Nebraska		Kentucky
Florida	Wyoming		Montana
Georgia			Nevada
Hawaii			New Hampshire
Indiana			New Mexico
Louisiana			North Dakota
Massachusetts			Oklahoma
Maryland			South Dakota
Maine			Tennessee
Michigan			Utah
Minnesota			Vermont
Mississippi			West Virginia
North Carolina			
New Jersey			
New York			
Ohio			
Oregon			
Pennsylvania			
Rhode Island			
South Carolina			
Texas			
Virginia			
Washington			
Wisconsin			

Where:

RUS = average ratio of the U.S. price of
Bunker C fuel to the U.S. commercial
sector price

ii. This average ratio is then applied to the state
commercial sector price:

$$RFTRPPXX = RUS \cdot RFCMPPXX \quad (4.134)$$

Type B

1970-1980 The transportation sector is assigned the same price as
the commercial sector in states where the use is for
railroads only.

$$RFTRPPXX = RFCMPPXX$$

Type C

- 1970-1980 i. Calculate the vessel bunkering price by using the same procedure for Type A states. The equation for 1975-1980 is similar to Equation 4.132:

$$BCPPXX = RFCMPPXX \cdot (BCMPRUS \div RFCMPPUS) \quad (4.135)$$

The equation for 1970-1974 is similar to Equation 4.134:

$$BCPPXX = RUS \cdot RFCMPPXX \quad (4.136)$$

Where:

BCPPXX = retail price for Bunker C oil in state XX (\$/barrel)

- ii. Calculate the average proportion of each transportation end-use of residual fuel oil using data from the EIA's Deliveries of Fuel Oil and Kerosene for the period 1976-1979:

$$VBXX = \frac{1}{4} \sum_{t=76}^{79} VBQXX_t \div (VBQXX_t + RRQXX_t) \quad (4.137)$$

Where:

VBXX = average fraction of transportation use of residual fuel oil accounted for by vessel bunkering

VBQXX = volume of residual fuel used for vessel bunkering in state XX (1000 barrels)

RRQXX = volume of residual fuel used for railroads in state XX (1000 barrels)

- iii. Compute the end-use weighted transportation sector price from the Bunker C and commercial sector prices.

$$RFTRPPXX = (VBXX \cdot BCPPXX) + ((1 - VBXX) \cdot RFCMPPXX) \quad (4.138)$$

U.S. Prices

1970-1980 Quantities from the State Energy Data System are applied to the state price series to calculate the volume-weighted U.S. prices.

$$RFTRBPUS = \frac{\sum_{XX=1}^{51} (RFTRPPXX \cdot SVXX)}{\sum_{XX=1}^{51} SVXX} \quad (4.139)$$

Where:

SVXX = volume of transportation sector consumption of residual fuel in state XX (1000 barrels)

Conversion

1970-1980 State and U.S. prices are converted from physical to Btu units by dividing by the conversion factor.

$$RFTRBPXX = RFTRPPXX \div 6.287 \quad (4.140)$$

Where:

RFTRBPXX = retail transportation sector price of residual fuel for state XX or the U.S. (\$/million Btu)

4.10 LIQUEFIED PETROLEUM GAS

Retail prices for liquefied petroleum gas are for the residential and industrial sectors.

4.10.1 Residential Sector

1. Data Sources

Prices

1970 U.S. Department of Agriculture, Agricultural Prices, table entitled "Motor Supplies: Average Price Paid by Farmers for Motor Fuel, Specific Dates."

1971-1980 American Gas Association, Gas Househeating Survey.

Quantity Weights

1970-1980 U.S. Department of Energy, Energy Information Administration, State Energy Data System.

2. Conversion Factor

Conversion factors are taken from Gas Househeating Survey.

1970-1978 10.98 gallons per million Btu

1979-1980 10.917 gallons per million Btu

3. Computational Procedures

- 1971-1980
- i. Estimate state prices using a simple average of prices for the cities located in each state.
 - ii. If city prices are unavailable for a state other than Alaska or Hawaii, impute the state price using a simple average of the prices in adjacent states.

- 1970
- i. Prices are imputed based on the relationship between Gas Househeating Survey and Agricultural Prices data for 1971 and 1972. The estimated coefficients used to impute 1970 prices are:

$$\text{LGRSBPXX} = 0.2974 + 11.5211 (\text{LGAPXX}) \quad (4.141)$$

Where:

LGRSBPXX = residential sector price of LPG in state XX from Gas Househeating Survey (\$/million Btu)

LGAPXX = physical unit price in state XX from 1970 Agricultural Prices data (\$/gallon)

- ii. Missing prices for Alaska and Hawaii are imputed by applying the average ratio over all years of available state prices to U.S. prices to the U.S. price for the missing data year. U.S. price is the unweighted average of available state prices.

$$\text{LGRSBPXX} = \text{LGRSBPUS} \left[\frac{\sum_{t=1}^N (\text{LGRSBPXX}_t \div \text{LGRSBPUS}_t)}{N} \right] \quad (4.142)$$

Where:

LGRSBPXX_t = price of LPG in Alaska or Hawaii available for year t (\$/million Btu)

LGRSBPUS_t = U.S. price for the same year, t for which Alaska or Hawaii data are available.

N = number of years for which Alaska or Hawaii are available.

U.S. Prices

1970-1980 Quantities from the State Energy Data System are applied to the state price series to calculate volume-weighted U.S. prices.

$$\text{LGRSBPUS} = \frac{\sum_{XX=1}^{51} (\text{LGRSBPXX} \cdot \text{SVXX})}{\sum_{XX=1}^{51} \text{SVXX}} \quad (4.143)$$

Where:

SVXX = the volume of residential sector LPG
consumption in state XX (1000 gallons)

Conversion

Prices are converted from dollars per million Btu physical prices
using the conversion factor specified for each year.

1970-1978

$$\text{LGRSPPXX} = \text{LGRSBPXX} \div 10.98 \quad (4.144)$$

1979-1980

$$\text{LGRSPPXX} = \text{LGRSBPXX} \div 10.917 \quad (4.145)$$

Where:

LSGRSPPXX = residential sector retail price of
LPG in state XX or the U.S. (\$/gallon)

4.10.2 Industrial Sector

1. Data Sources

Prices

1970-1977 U.S. Department of Agriculture, Agricultural Prices,
table entitled "Motor Supplies: Average Price Paid by
Farmers for Motor Fuel, Specified Dates."

1978-1980 U.S. Department of Commerce, Bureau of the Census,
Annual Survey of Manufactures, data for LPG sales and
volumes.

Quantity Weights

1970-1980 U.S. Department of Energy, Energy Information
Administration, State Energy Data System.

2. Conversion Factors

1970-1972 U.S. Department of Energy, Energy Information
Administration, State Energy Data System.

1973-1980 U.S. Department of Energy, Energy Information
Administration, Monthly Energy Review.

Computational Procedures

1978-1979 i. All states are assigned prices from Annual Survey
of Manufactures by using the following equation:

$$\text{LGINPPXX} = \text{LASMSXX} \div \text{LASMVXX} \cdot \text{CONV} \quad (4.146)$$

Where:

LGINPPXX = industrial sector price for LPG in state XX (\$/gallon)

LASMSXX = sales of LPG in state XX from ASM (million \$)

CONV = 4.5 pounds per gallon conversion factor

- ii. Wyoming is assigned the average price of its adjacent states. The District of Columbia is assigned the Maryland state price. Prices for Alaska, Hawaii, and Arkansas in 1978, and New Mexico in 1979, are determined below in the subsection "Imputing Missing State Prices."

1970-1977, Prices for these years are imputed for all states, except Alaska and Hawaii, based on the relationship of Agricultural Prices data to the LPG industrial sector prices for 1978 and 1979. Prices for 1980 computed here are estimates which will be replaced by the 1980 ASM data when it becomes available. First, determine the average ratio of industrial sector ASM prices to Agricultural Prices data for 1978 and 1979.

$$\text{RXX} = \frac{1}{2} \sum_{t=78}^{79} (\text{LGINPPXX}_t \div \text{LGAPXX}_t) \quad (4.147)$$

Where:

RXX = average ratio of ASM prices to Agricultural Prices prices for state XX

LGAPXX = LPG prices for state XX from Agricultural Prices (\$/gallon)

- ii. Use this ratio to impute prices for 1970-1977 and 1980:

$$\text{LGINPPXX} = \text{RXX} \cdot \text{LGAPXX} \quad (4.148)$$

Impute Missing State Prices

- 1970-1979 Impute prices for Alaska and Hawaii based on the relationship between the state-level price from the ASM and the national price in 1979 for Alaska and in 1978 and 1979 for Hawaii. The national average price used for these imputations is the simple average of the available state prices in each year.
- 1978-1979 The Arkansas price in 1978 and the New Mexico price in 1979 are imputed based on the relationship between the ASM price in the year available and the Agricultural Prices state price for the corresponding year. This is the same as the procedure to impute prices for all states from 1970-1977 and 1980.

U.S. Prices

- 1970-1980 U.S. prices are calculated by applying LPG consumption data from SEDS to the state prices.

$$LGINPPUS = \frac{\sum_{XX=1}^{51} (LGINPPXX \cdot SVXX)}{\sum_{XX=1}^{51} SVXX} \quad (4.149)$$

Where:

LGINPPUS = industrial price of LPG in the U.S.
(\$/gallon)

LGINPPXX = industrial price of LPG in state XX
(\$/gallon)

SVXX = volume of industrial use of LPG in
state XX from SEDS (1000 barrels)

Conversion

Price per gallon is converted to price per million Btu using the following conversion factor:

TABLE 4.16. Liquefied Petroleum Gas Industrial Sector Conversion Factors

<u>Year</u>	<u>Conversion Factor</u> <u>(million Btu per gallon)</u>
1970	0.0900
1971	0.0898
1972	0.0895
1973	0.0892
1974	0.0888
1975	0.0885
1976	0.0884
1977	0.0875
1978	0.0874
1979	0.0876
1980	0.0876

$$\text{LGINBPXX} = \text{LGINPPXX} \div \text{CONV} \quad (4.150)$$

Where:

LGINBPXX = industrial sector price of LPG for
state XX or the U.S (\$/million Btu)

CONV = conversion factor from Table 4.16

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APPENDIX A

DESCRIPTION OF FILE NAMES

APPENDIX A

STATE ENERGY PRICE SYSTEM DATA FILE NAMES

The State Energy Price System on the EIA computer is composed of separate files for each fuel, end-use sector, and price type. All file names are of the form:

(Name).UPDATE.DATA

The .UPDATE.DATA identifier is common to all files in the data base; the names that precede the identifier are based on a standard convention allowing identification of the fuel, end-use sector, and price type found in the file. This naming convention is based on two-letter abbreviations that always are found in the following order: Fuel type, end-use sector, price type. (See Appendix Table A.1 for the codes). For example, the file containing natural gas, residential sector, Btu prices would be found under the name:

NGRSBP.UPDATE.DATA

To identify individual state data points within a file, two-letter state codes are appended to the file name. Natural gas, residential sector, Btu prices for the State of Alaska would be found under the name:

NGRSBPAK.UPDATE.DATA

The price data are always presented in alphabetical order by state code, as given in Table A.2. A list of all the files in the State Energy Price System is shown in Table A.3.

TABLE A.1. Fuel, End-Use Sector, and Price Codes

<u>Fuel</u>	<u>Code</u>
Electricity	ES
Natural Gas	NG
Metallurgical Coal	CC
Steam Coal	SC
Distillate Fuel Oil	DF
Motor Gasoline	MG
Diesel	DL
Kerosene	KS
Jet Fuel	JF
Residual Fuel Oil	RF
LPG	LG
<u>End-Use Sector</u>	<u>Code</u>
Residential	RS
Commercial	CM
Industrial	IN
Transportation	TR
Electric Utility	UT
<u>Price</u>	<u>Code</u>
Prices/Million Btu	BP
Prices/Physical Unit	PP

TABLE A.2. State Name Codes (in State Code Order)

<u>State</u>	<u>Code</u>	<u>State</u>	<u>Code</u>
Alaska	AK	Montana	MT
Alabama	AL	North Carolina	NC
Arkansas	AR	North Dakota	ND
Arizona	AZ	Nebraska	NE
California	CA	New Hampshire	NH
Colorado	CO	New Jersey	NJ
Connecticut	CT	New Mexico	NM
District of Columbia	DC	Nevada	NV
Delaware	DE	New York	NY
Florida	FL	Ohio	OH
Georgia	GA	Oklahoma	OK
Hawaii	HI	Oregon	OR
Iowa	IA	Pennsylvania	PA
Idaho	ID	Rhode Island	RI
Illinois	IL	South Carolina	SC
Indiana	IN	South Dakota	SD
Kansas	KS	Tennessee	TN
Kentucky	KY	Texas	TX
Louisiana	LA	Utah	UT
Massachusetts	MA	Virginia	VA
Maryland	MD	Vermont	VT
Maine	ME	Washington	WA
Michigan	MI	Wisconsin	WI
Minnesota	MN	West Virginia	WV
Missouri	MO	Wyoming	WY
Mississippi	MS	United States	US

TABLE A.3. List of Files Comprising the State Energy Price System^(a)

ELRSBP.UPDATE.DATA	DFRSBP.UPDATE.DATA
ELRSPP.UPDATE.DATA	DFRSPP.UPDATE.DATA
ELCMBP.UPDATE.DATA	DFCMBP.UPDATE.DATA
ELCMPP.UPDATE.DATA	DFCMPP.UPDATE.DATA
ELINBP.UPDATE.DATA	DFINBP.UPDATE.DATA
ELINPP.UPDATE.DATA	DFINPP.UPDATE.DATA
ELTRBP.UPDATE.DATA	DFUTBP.UPDATE.DATA
ELTRPP.UPDATE.DATA	DFUTPP.UPDATE.DATA
NGRSBP.UPDATE.DATA	MOTRBP.UPDATE.DATA
NGRSPP.UPDATE.DATA	MOTRPP.UPDATE.DATA
NGCMBP.UPDATE.DATA	
NGCMPP.UPDATE.DATA	DLTRBP.UPDATE.DATA
NGINBP.UPDATE.DATA	DLTRPP.UPDATE.DATA
NGINPP.UPDATE.DATA	
NGTRBP.UPDATE.DATA	KSRSBP.UPDATE.DATA
NGTRPP.UPDATE.DATA	KSRSPP.UPDATE.DATA
NGUTBP.UPDATE.DATA	KSINBP.UPDATE.DATA
NGUTPP.UPDATE.DATA	KSINPP.UPDATE.DATA
	JFTRBP.UPDATE.DATA
CCINBP.UPDATE.DATA	JFTRPP.UPDATE.DATA
CCINPP.UPDATE.DATA	KSUTBP.UPDATE.DATA
	KSUTPP.UPDATE.DATA
SCRSBP.UPDATE.DATA	
SCRSPP.UPDATE.DATA	RFCMBP.UPDATE.DATA
SCINBP.UPDATE.DATA	RFCMPP.UPDATE.DATA
SCINPP.UPDATE.DATA	RFINBP.UPDATE.DATA
SCUTBP.UPDATE.DATA	RFINPP.UPDATE.DATA
SCUTPP.UPDATE.DATA	RFTRBP.UPDATE.DATA
	RFTRPP.UPDATE.DATA
	RFUTBP.UPDATE.DATA
	RFUTPP.UPDATE.DATA
	LPRSBP.UPDATE.DATA
	LPRSPP.UPDATE.DATA
	LPINBP.UPDATE.DATA
	LPINPP.UPDATE.DATA

(a) Note that the fuel codes for electricity, motor gasoline, and LPG are different from the codes listed in Table A.1.

APPENDIX B

STATE ENERGY PRICE SYSTEM

Physical Unit Prices

TABLE B-1 ELECTRICITY PRICES: RESIDENTIAL SECTOR
(\$/KWH)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1960	0.0432	0.0160	0.0315	0.0252	0.0254	0.0274	0.0286	0.0286	0.0286
1961	0.0441	0.0164	0.0315	0.0264	0.0253	0.0282	0.0282	0.0282	0.0293
1962	0.0408	0.0159	0.0306	0.0262	0.0249	0.0284	0.0285	0.0276	0.0276
1963	0.0367	0.0154	0.0288	0.0250	0.0242	0.0279	0.0281	0.0270	0.0275
1964	0.0346	0.0148	0.0275	0.0244	0.0233	0.0270	0.0269	0.2600	0.0266
1965	0.0353	0.0147	0.0263	0.0240	0.0225	0.0268	0.0265	0.0252	0.0258
1966	0.0348	0.0143	0.0252	0.0232	0.0217	0.0268	0.0257	0.0241	0.0252
1967	0.0337	0.0143	0.0247	0.0232	0.0214	0.0261	0.0248	0.0236	0.0249
1968	0.0336	0.0142	0.0236	0.0230	0.0211	0.0258	0.0243	0.0229	0.0245
1969	0.0313	0.0144	0.0229	0.0224	0.0208	0.0255	0.0238	0.0225	0.0247
1970	0.0301	0.0150	0.0221	0.0227	0.0212	0.0251	0.0234	0.0227	0.0244
1971	0.0301	0.0158	0.0223	0.0223	0.0219	0.0251	0.0234	0.0227	0.0262
1972	0.0333	0.0167	0.0230	0.0238	0.0234	0.0260	0.0279	0.0263	0.0304
1973	0.0305	0.0183	0.0225	0.0249	0.0247	0.0258	0.0302	0.0273	0.0313
1974	0.0306	0.0209	0.0263	0.0290	0.0308	0.0275	0.0404	0.0357	0.0408
1975	0.0317	0.0252	0.0292	0.0364	0.0333	0.0310	0.0452	0.0393	0.0435
1976	0.0345	0.0276	0.0339	0.0390	0.0354	0.0326	0.0447	0.0406	0.0453
1977	0.0392	0.0333	0.0380	0.0449	0.0397	0.0344	0.0460	0.0427	0.0520
1978	0.0420	0.0344	0.0397	0.0477	0.0420	0.0362	0.0468	0.0479	0.0532
1979	0.0431	0.0393	0.0411	0.0527	0.0418	0.0397	0.0540	0.0487	0.0577
1980	0.0435	0.0446	0.0446	0.0584	0.0561	0.0453	0.0659	0.0548	0.0656

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	0.0272	0.0199	0.0280	0.0294	0.0163	0.0301	0.0255	0.0291	0.0240
1961	0.0256	0.0194	0.0284	0.0289	0.0168	0.0295	0.0249	0.0276	0.0237
1962	0.0248	0.0195	0.0288	0.0283	0.0164	0.0292	0.0247	0.0272	0.0227
1963	0.0241	0.0191	0.0284	0.0281	0.0169	0.0285	0.0245	0.0268	0.0218
1964	0.0234	0.0186	0.0279	0.0276	0.0166	0.0278	0.0240	0.0260	0.0208
1965	0.0227	0.0181	0.0276	0.0270	0.0166	0.0273	0.0233	0.0253	0.0207
1966	0.0220	0.0174	0.0273	0.0267	0.0165	0.0267	0.0228	0.0252	0.0205
1967	0.0216	0.0172	0.0270	0.0259	0.0163	0.0264	0.0225	0.0250	0.0201
1968	0.0209	0.0169	0.0269	0.0255	0.0162	0.0259	0.0221	0.0242	0.0189
1969	0.0203	0.0168	0.0266	0.0252	0.0159	0.0256	0.0217	0.0237	0.0195
1970	0.0198	0.0168	0.0267	0.0251	0.0156	0.0259	0.0213	0.0233	0.0190
1971	0.0202	0.0177	0.0279	0.0256	0.0159	0.0268	0.0212	0.0233	0.0174
1972	0.0212	0.0191	0.0284	0.0268	0.0160	0.0284	0.0228	0.0237	0.0176
1973	0.0222	0.0198	0.0307	0.0271	0.0157	0.0294	0.0231	0.0234	0.0199
1974	0.0284	0.0230	0.0345	0.0288	0.0157	0.0325	0.0243	0.0247	0.0216
1975	0.0341	0.0281	0.0455	0.0327	0.0164	0.0356	0.0267	0.0288	0.0244
1976	0.0366	0.0293	0.0477	0.0361	0.0183	0.0386	0.0302	0.0316	0.0262
1977	0.0387	0.0344	0.0524	0.0401	0.0200	0.0412	0.0342	0.0374	0.0291
1978	0.0407	0.0379	0.0586	0.0416	0.0208	0.0460	0.0385	0.0404	0.0322
1979	0.0450	0.0402	0.0631	0.0455	0.0230	0.0494	0.0414	0.0433	0.0347
1980	0.0533	0.0437	0.0771	0.0486	0.0274	0.0570	0.0427	0.0486	0.0371

TABLE B-1 ELECTRICITY PRICES: RESIDENTIAL SECTOR
(\$/KWH)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	0.0259	0.0345	0.0286	0.0311	0.0258	0.0288	0.0293	0.0215	0.0234
1961	0.0264	0.0333	0.0282	0.0311	0.0251	0.0285	0.0286	0.0222	0.0232
1962	0.0256	0.0330	0.0276	0.0313	0.0248	0.0274	0.0281	0.0216	0.0228
1963	0.0252	0.0331	0.0270	0.0311	0.0248	0.0272	0.0280	0.0203	0.0227
1964	0.0245	0.0325	0.0260	0.0305	0.0246	0.0262	0.0271	0.0194	0.0220
1965	0.0237	0.0316	0.0252	0.0302	0.0241	0.0250	0.0265	0.0186	0.0211
1966	0.0231	0.0307	0.0241	0.0299	0.0235	0.0245	0.0260	0.0177	0.0210
1967	0.0227	0.0298	0.0236	0.0286	0.0232	0.0239	0.0255	0.0176	0.0204
1968	0.0221	0.0290	0.0229	0.0275	0.0228	0.0238	0.0250	0.0169	0.0200
1969	0.0216	0.0282	0.0225	0.0271	0.0224	0.0239	0.0249	0.0170	0.0211
1970	0.0214	0.0279	0.0227	0.0264	0.0227	0.0237	0.0255	0.0164	0.0213
1971	0.0215	0.0296	0.0250	0.0261	0.0232	0.0243	0.0254	0.0178	0.0212
1972	0.0218	0.0309	0.0263	0.0273	0.0242	0.0255	0.0261	0.0197	0.0216
1973	0.0222	0.0321	0.0273	0.0277	0.0254	0.0255	0.0265	0.0188	0.0220
1974	0.0246	0.0434	0.0357	0.0314	0.0297	0.0278	0.0285	0.0231	0.0223
1975	0.0249	0.0478	0.0393	0.0364	0.0353	0.0309	0.0314	0.0252	0.0219
1976	0.0267	0.0497	0.0406	0.0349	0.0389	0.0333	0.0351	0.0313	0.0223
1977	0.0288	0.0528	0.0427	0.0390	0.0421	0.0370	0.0375	0.0348	0.0238
1978	0.0304	0.0533	0.0479	0.0402	0.0456	0.0395	0.0413	0.0364	0.0262
1979	0.0340	0.0578	0.0487	0.0467	0.0483	0.0402	0.0436	0.0399	0.0267
1980	0.0403	0.0694	0.0548	0.0588	0.0537	0.0421	0.0471	0.0439	0.0270

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1960	0.0205	0.0296	0.0223	0.0332	0.0290	0.0270	0.0164	0.0321	0.0256
1961	0.0203	0.0293	0.0235	0.0327	0.0288	0.0289	0.0160	0.0315	0.0255
1962	0.0202	0.0281	0.0224	0.0326	0.0286	0.0289	0.0153	0.0313	0.0257
1963	0.0199	0.0283	0.0230	0.0320	0.0282	0.0284	0.0151	0.0307	0.0255
1964	0.0194	0.0275	0.0229	0.0313	0.0276	0.0277	0.0147	0.0304	0.0250
1965	0.0190	0.0267	0.0221	0.0308	0.0270	0.0269	0.0146	0.0302	0.0245
1966	0.0186	0.0261	0.0214	0.0301	0.0264	0.0268	0.0145	0.0295	0.0240
1967	0.0184	0.0254	0.0213	0.0292	0.0261	0.0266	0.0146	0.0298	0.0237
1968	0.0181	0.0258	0.0208	0.0283	0.0256	0.0265	0.0147	0.0291	0.0232
1969	0.0178	0.0256	0.0203	0.0275	0.0253	0.0267	0.0143	0.0284	0.0227
1970	0.0177	0.0253	0.0202	0.0269	0.0254	0.0264	0.0145	0.0287	0.0227
1971	0.0190	0.0252	0.0211	0.0261	0.0288	0.0264	0.0145	0.0307	0.0233
1972	0.0204	0.0260	0.0224	0.0267	0.0307	0.0273	0.0156	0.0326	0.0238
1973	0.0209	0.0258	0.0211	0.0280	0.0325	0.0273	0.0156	0.0351	0.0243
1974	0.0250	0.0264	0.0225	0.0366	0.0442	0.0291	0.0188	0.0466	0.0291
1975	0.0291	0.0287	0.0254	0.0445	0.0492	0.0327	0.0236	0.0513	0.0341
1976	0.0329	0.0308	0.0295	0.0456	0.0527	0.0355	0.0284	0.0537	0.0356
1977	0.0358	0.0334	0.0326	0.0482	0.0586	0.0400	0.0323	0.0588	0.0401
1978	0.0384	0.0353	0.0346	0.0546	0.0598	0.0469	0.0341	0.0607	0.0438
1979	0.0401	0.0367	0.0367	0.0573	0.0645	0.0541	0.0359	0.0667	0.0474
1980	0.0421	0.0377	0.0395	0.0658	0.0784	0.0578	0.0466	0.0759	0.0513

TABLE B-1 ELECTRICITY PRICES: RESIDENTIAL SECTOR
(\$/KWH)

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1960	0.0298	0.0127	0.0266	0.0342	0.0221	0.0309	0.0103	0.0259	0.0217
1961	0.0307	0.0126	0.0261	0.0337	0.0210	0.0300	0.0102	0.0262	0.0222
1962	0.0297	0.0126	0.0259	0.0332	0.0209	0.0286	0.0100	0.0253	0.0225
1963	0.0286	0.0125	0.0254	0.0327	0.0205	0.0285	0.0098	0.0245	0.0230
1964	0.0276	0.0122	0.0246	0.0322	0.0202	0.0274	0.0095	0.0239	0.0230
1965	0.0268	0.0122	0.0239	0.0316	0.0198	0.0265	0.0092	0.0229	0.0228
1966	0.0261	0.0121	0.0233	0.0310	0.0194	0.0261	0.0090	0.0224	0.0225
1967	0.0259	0.0119	0.0228	0.0303	0.0192	0.0256	0.0091	0.0219	0.0225
1968	0.0253	0.0119	0.0223	0.0287	0.0186	0.0253	0.0093	0.0215	0.0223
1969	0.0247	0.0118	0.0221	0.0280	0.0183	0.0254	0.0099	0.0209	0.0220
1970	0.0241	0.0119	0.0232	0.0274	0.0183	0.0252	0.0108	0.0205	0.0217
1971	0.0241	0.0126	0.0261	0.0277	0.0196	0.0250	0.0127	0.0204	0.0223
1972	0.0240	0.0129	0.0277	0.0312	0.0211	0.0254	0.0126	0.0207	0.0224
1973	0.0232	0.0133	0.0289	0.0325	0.0214	0.0251	0.0133	0.0211	0.0223
1974	0.0238	0.0145	0.0353	0.0455	0.0259	0.0263	0.0157	0.0241	0.0230
1975	0.0257	0.0164	0.0400	0.0482	0.0300	0.0280	0.0207	0.0273	0.0276
1976	0.0299	0.0186	0.0412	0.0481	0.0331	0.0315	0.0230	0.0312	0.0317
1977	0.0339	0.0221	0.0448	0.0540	0.0365	0.0326	0.0235	0.0355	0.0347
1978	0.0364	0.0241	0.0467	0.0547	0.0362	0.0351	0.0274	0.0380	0.0408
1979	0.0382	0.0247	0.0498	0.0622	0.0404	0.0373	0.0310	0.0416	0.0454
1980	0.0409	0.0293	0.0561	0.0737	0.0423	0.0392	0.0341	0.0471	0.0532

YEAR	VA	VT	WA	WI	WV	WY	US
1960	0.0244	0.0284	0.0110	0.0242	0.0261	0.0226	0.0247
1961	0.0240	0.0277	0.0110	0.0239	0.0256	0.0226	0.0245
1962	0.0236	0.0267	0.0109	0.0238	0.0252	0.0276	0.0241
1963	0.0232	0.0267	0.0110	0.0235	0.0249	0.0272	0.0237
1964	0.0224	0.0259	0.0110	0.0230	0.0242	0.0266	0.0231
1965	0.0216	0.0249	0.0108	0.0225	0.0237	0.0259	0.0225
1966	0.0210	0.0232	0.0105	0.0219	0.0228	0.0254	0.0220
1967	0.0205	0.0226	0.0103	0.0215	0.0223	0.0249	0.0217
1968	0.0198	0.0225	0.0102	0.0213	0.0217	0.0249	0.0212
1969	0.0193	0.0221	0.0101	0.0216	0.0212	0.0247	0.0209
1970	0.0198	0.0217	0.0101	0.0219	0.0208	0.0244	0.0210
1971	0.0202	0.0222	0.0102	0.0223	0.0218	0.0243	0.0219
1972	0.0210	0.0245	0.0105	0.0239	0.0232	0.0248	0.0229
1973	0.0221	0.0259	0.0107	0.0252	0.0233	0.0234	0.0238
1974	0.0282	0.0308	0.0112	0.0273	0.0272	0.0238	0.0283
1975	0.0345	0.0358	0.0123	0.0314	0.0327	0.0237	0.0321
1976	0.0351	0.0400	0.0127	0.0344	0.0358	0.0241	0.0345
1977	0.0406	0.0410	0.0139	0.0369	0.0349	0.0256	0.0378
1978	0.0425	0.0443	0.0143	0.0395	0.0363	0.0278	0.0403
1979	0.0476	0.0449	0.0153	0.0426	0.0369	0.0289	0.0433
1980	0.0550	0.0484	0.0176	0.0464	0.0412	0.0295	0.0493

TABLE B-2 ELECTRICITY PRICES: COMMERCIAL SECTOR
(\$/KWH)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1960	0.0404	0.0193	0.0248	0.0183	0.0212	0.0224	0.0308	0.0338	0.0249
1961	0.0419	0.0188	0.0246	0.0178	0.0210	0.0219	0.0296	0.0323	0.0243
1962	0.0388	0.0188	0.0239	0.0179	0.0209	0.0218	0.0288	0.0315	0.0234
1963	0.0367	0.0186	0.0227	0.0182	0.0195	0.0210	0.0279	0.0308	0.0234
1964	0.0360	0.0183	0.0220	0.0183	0.0181	0.0208	0.0265	0.0250	0.0225
1965	0.0361	0.0178	0.0213	0.0189	0.0178	0.0206	0.0261	0.0238	0.0212
1966	0.0352	0.0177	0.0207	0.0182	0.0162	0.0203	0.0253	0.0231	0.0212
1967	0.0336	0.0176	0.0206	0.0173	0.0162	0.0202	0.0246	0.0228	0.0213
1968	0.0326	0.0173	0.0201	0.0181	0.0160	0.0199	0.0240	0.0224	0.0210
1969	0.0306	0.0172	0.0197	0.0178	0.0160	0.0195	0.0235	0.0222	0.0210
1970	0.0305	0.0174	0.0196	0.0180	0.0162	0.0193	0.0231	0.0231	0.0212
1971	0.0312	0.0182	0.0202	0.0183	0.0171	0.0194	0.0243	0.0252	0.0229
1972	0.0336	0.0191	0.0209	0.0200	0.0182	0.0199	0.0268	0.0265	0.0261
1973	0.0317	0.0214	0.0212	0.0211	0.0197	0.0199	0.0283	0.0276	0.0275
1974	0.0312	0.0242	0.0248	0.0245	0.0254	0.0217	0.0392	0.0369	0.0374
1975	0.0342	0.0283	0.0271	0.0316	0.0275	0.0251	0.0432	0.0396	0.0403
1976	0.0350	0.0302	0.0317	0.0345	0.0304	0.0278	0.0429	0.0423	0.0419
1977	0.0382	0.0382	0.0356	0.0396	0.0382	0.0296	0.0442	0.0473	0.0513
1978	0.0405	0.0383	0.0369	0.0432	0.0466	0.0321	0.0446	0.0510	0.0535
1979	0.0424	0.0443	0.0384	0.0486	0.0411	0.0364	0.0521	0.0525	0.0571
1980	0.0465	0.0500	0.0424	0.0530	0.0576	0.0416	0.0635	0.0580	0.0658

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	0.0301	0.0233	0.0329	0.0313	0.0151	0.0250	0.0268	0.0241	0.0231
1961	0.0265	0.0217	0.0322	0.0289	0.0149	0.0246	0.0243	0.0224	0.0228
1962	0.0258	0.0213	0.0326	0.0283	0.0189	0.0240	0.0239	0.0220	0.0224
1963	0.0250	0.0210	0.0325	0.0274	0.0163	0.0234	0.0234	0.0215	0.0219
1964	0.0244	0.0205	0.0322	0.0269	0.0157	0.0226	0.0233	0.0213	0.0210
1965	0.0236	0.0199	0.0318	0.0263	0.0156	0.0219	0.0228	0.0209	0.0196
1966	0.0225	0.0199	0.0316	0.0259	0.0144	0.0214	0.0224	0.0209	0.0191
1967	0.0215	0.0197	0.0314	0.0255	0.0135	0.0211	0.0219	0.0205	0.0185
1968	0.0210	0.0192	0.0312	0.0251	0.0133	0.0209	0.0215	0.0200	0.0179
1969	0.0201	0.0190	0.0313	0.0249	0.0131	0.0208	0.0214	0.0197	0.0179
1970	0.0201	0.0189	0.0320	0.0248	0.0132	0.0214	0.0212	0.0194	0.0177
1971	0.0207	0.0197	0.0339	0.0254	0.0138	0.0224	0.0213	0.0197	0.0160
1972	0.0215	0.0210	0.0344	0.0264	0.0140	0.0239	0.0230	0.0200	0.0164
1973	0.0232	0.0222	0.0363	0.0268	0.0137	0.0244	0.0236	0.0204	0.0137
1974	0.0303	0.0269	0.0406	0.0287	0.0136	0.0283	0.0247	0.0220	0.0149
1975	0.0361	0.0340	0.0521	0.0333	0.0154	0.0327	0.0269	0.0261	0.0166
1976	0.0377	0.0356	0.0543	0.0363	0.0173	0.0353	0.0297	0.0295	0.0175
1977	0.0404	0.0377	0.0589	0.0390	0.0191	0.0374	0.0333	0.0345	0.0203
1978	0.0425	0.0412	0.0648	0.0413	0.0193	0.0416	0.0374	0.0374	0.0237
1979	0.0471	0.0435	0.0698	0.0458	0.0209	0.0450	0.0400	0.0402	0.0261
1980	0.0549	0.0479	0.0850	0.0496	0.0257	0.0538	0.0410	0.0446	0.0277

TABLE B-2 ELECTRICITY PRICES: COMMERCIAL SECTOR
(\$/KWH)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	0.0244	0.0385	0.0338	0.0316	0.0266	0.0324	0.0268	0.0221	0.0212
1961	0.0217	0.0351	0.0323	0.0316	0.0250	0.0278	0.0252	0.0217	0.0206
1962	0.0225	0.0318	0.0315	0.0310	0.0245	0.0282	0.0248	0.0213	0.0199
1963	0.0204	0.0313	0.0308	0.0304	0.0241	0.0275	0.0241	0.0206	0.0194
1964	0.0197	0.0311	0.0250	0.0292	0.0238	0.0268	0.0237	0.0195	0.0189
1965	0.0185	0.0302	0.0238	0.0283	0.0233	0.0259	0.0236	0.0180	0.0182
1966	0.0182	0.0292	0.0231	0.0273	0.0230	0.0255	0.0233	0.0176	0.0181
1967	0.0173	0.0283	0.0228	0.0266	0.0223	0.0252	0.0229	0.0176	0.0175
1968	0.0168	0.0264	0.0224	0.0263	0.0221	0.0252	0.0224	0.0178	0.0172
1969	0.0163	0.0261	0.0222	0.0258	0.0221	0.0251	0.0225	0.0177	0.0183
1970	0.0164	0.0260	0.0231	0.0254	0.0230	0.0249	0.0226	0.0179	0.0185
1971	0.0165	0.0277	0.0252	0.0254	0.0237	0.0254	0.0233	0.0190	0.0186
1972	0.0168	0.0286	0.0265	0.0270	0.0247	0.0263	0.0239	0.0205	0.0191
1973	0.0182	0.0294	0.0276	0.0275	0.0258	0.0265	0.0244	0.0206	0.0197
1974	0.0209	0.0417	0.0369	0.0321	0.0301	0.0293	0.0266	0.0255	0.0198
1975	0.0221	0.0454	0.0396	0.0369	0.0360	0.0327	0.0298	0.0271	0.0202
1976	0.0248	0.0478	0.0423	0.0359	0.0401	0.0345	0.0335	0.0331	0.0202
1977	0.0266	0.0511	0.0473	0.0396	0.0432	0.0368	0.0338	0.0361	0.0189
1978	0.0282	0.0519	0.0510	0.0411	0.0467	0.0375	0.0378	0.0375	0.0246
1979	0.0316	0.0569	0.0525	0.0481	0.0493	0.0394	0.0403	0.0427	0.0247
1980	0.0372	0.0689	0.0580	0.0615	0.0549	0.0414	0.0446	0.0472	0.0252

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1960	0.0196	0.0355	0.0224	0.0330	0.0283	0.0217	0.0171	0.0287	0.0239
1961	0.0181	0.0333	0.0197	0.0318	0.0279	0.0208	0.0174	0.0282	0.0233
1962	0.0183	0.0318	0.0194	0.0314	0.0272	0.0208	0.0167	0.0285	0.0234
1963	0.0176	0.0308	0.0186	0.0306	0.0265	0.0202	0.0169	0.0249	0.0228
1964	0.0169	0.0292	0.0182	0.0299	0.0258	0.0196	0.0169	0.0248	0.0226
1965	0.0162	0.0268	0.0176	0.0297	0.0254	0.0193	0.0165	0.0250	0.0215
1966	0.0159	0.0259	0.0176	0.0300	0.0250	0.0191	0.0160	0.0244	0.0212
1967	0.0156	0.0226	0.0166	0.0292	0.0249	0.0188	0.0156	0.0246	0.0210
1968	0.0151	0.0216	0.0161	0.0278	0.0247	0.0188	0.0153	0.0245	0.0206
1969	0.0149	0.0213	0.0157	0.0274	0.0243	0.0189	0.0151	0.0242	0.0205
1970	0.0149	0.0214	0.0157	0.0284	0.0246	0.0187	0.0153	0.0252	0.0204
1971	0.0159	0.0212	0.0164	0.0290	0.0277	0.0189	0.0157	0.0287	0.0214
1972	0.0171	0.0219	0.0174	0.0300	0.0289	0.0199	0.0168	0.0308	0.0219
1973	0.0177	0.0219	0.0173	0.0311	0.0306	0.0200	0.0172	0.0334	0.0224
1974	0.0225	0.0229	0.0187	0.0404	0.0431	0.0220	0.0203	0.0481	0.0273
1975	0.0267	0.0247	0.0220	0.0486	0.0472	0.0249	0.0253	0.0523	0.0319
1976	0.0294	0.0270	0.0259	0.0509	0.0496	0.0271	0.0293	0.0550	0.0331
1977	0.0315	0.0291	0.0283	0.0535	0.0540	0.0312	0.0330	0.0592	0.0382
1978	0.0340	0.0310	0.0305	0.0597	0.0557	0.0369	0.0358	0.0575	0.0418
1979	0.0354	0.0325	0.0329	0.0629	0.0600	0.0434	0.0367	0.0620	0.0453
1980	0.0376	0.0335	0.0353	0.0723	0.0722	0.0465	0.0481	0.0749	0.0497

TABLE B-2 ELECTRICITY PRICES: COMMERCIAL SECTOR
(\$/KWH)

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1960	0.0226	0.0109	0.0250	0.0346	0.0213	0.0318	0.0143	0.0197	0.0231
1961	0.0212	0.0104	0.0243	0.0324	0.0192	0.0305	0.0143	0.0191	0.0210
1962	0.0210	0.0145	0.0241	0.0323	0.0182	0.0303	0.0140	0.0196	0.0207
1963	0.0202	0.0141	0.0237	0.0315	0.0186	0.0291	0.0139	0.0191	0.0207
1964	0.0196	0.0139	0.0229	0.0307	0.0181	0.0290	0.0136	0.0186	0.0208
1965	0.0192	0.0137	0.0223	0.0301	0.0172	0.0280	0.0136	0.0180	0.0201
1966	0.0188	0.0132	0.0216	0.0294	0.0169	0.0275	0.0135	0.0175	0.0199
1967	0.0185	0.0129	0.0213	0.0290	0.0164	0.0251	0.0139	0.0172	0.0186
1968	0.0182	0.0129	0.0208	0.0236	0.0157	0.0242	0.0140	0.0171	0.0177
1969	0.0180	0.0127	0.0205	0.0228	0.0156	0.0244	0.0149	0.0169	0.0174
1970	0.0178	0.0126	0.0217	0.0226	0.0157	0.0243	0.0160	0.0168	0.0172
1971	0.0180	0.0133	0.0243	0.0234	0.0167	0.0241	0.0177	0.0168	0.0176
1972	0.0184	0.0133	0.0254	0.0261	0.0174	0.0240	0.0178	0.0173	0.0182
1973	0.0181	0.0137	0.0265	0.0273	0.0180	0.0243	0.0186	0.0176	0.0184
1974	0.0191	0.0151	0.0329	0.0408	0.0228	0.0255	0.0211	0.0203	0.0190
1975	0.0212	0.0164	0.0375	0.0437	0.0270	0.0278	0.0261	0.0239	0.0226
1976	0.0253	0.0175	0.0391	0.0432	0.0288	0.0313	0.0281	0.0273	0.0251
1977	0.0290	0.0185	0.0426	0.0478	0.0316	0.0316	0.0299	0.0319	0.0282
1978	0.0317	0.0204	0.0454	0.0488	0.0329	0.0338	0.0348	0.0350	0.0325
1979	0.0334	0.0219	0.0479	0.0551	0.0357	0.0359	0.0389	0.0389	0.0373
1980	0.0370	0.0267	0.0534	0.0661	0.0379	0.0380	0.0428	0.0436	0.0423

YEAR	VA	VT	WA	WI	WV	WY	US
1960	0.0199	0.0314	0.0141	0.0261	0.0235	0.0172	0.0238
1961	0.0192	0.0262	0.0131	0.0251	0.0232	0.0158	0.0227
1962	0.0186	0.0255	0.0133	0.0251	0.0228	0.0183	0.0229
1963	0.0179	0.0258	0.0130	0.0245	0.0223	0.0190	0.0220
1964	0.0175	0.0254	0.0130	0.0238	0.0216	0.0189	0.0213
1965	0.0169	0.0248	0.0126	0.0231	0.0212	0.0186	0.0208
1966	0.0164	0.0237	0.0113	0.0224	0.0203	0.0181	0.0201
1967	0.0161	0.0230	0.0101	0.0221	0.0198	0.0176	0.0197
1968	0.0156	0.0229	0.0102	0.0221	0.0191	0.0173	0.0194
1969	0.0153	0.0226	0.0102	0.0226	0.0188	0.0173	0.0193
1970	0.0156	0.0219	0.0104	0.0235	0.0188	0.0170	0.0195
1971	0.0163	0.0223	0.0105	0.0239	0.0202	0.0173	0.0206
1972	0.0169	0.0245	0.0109	0.0254	0.0215	0.0182	0.0216
1973	0.0173	0.0263	0.0110	0.0268	0.0219	0.0171	0.0225
1974	0.0232	0.0323	0.0119	0.0285	0.0260	0.0168	0.0279
1975	0.0299	0.0358	0.0129	0.0320	0.0316	0.0173	0.0316
1976	0.0306	0.0386	0.0128	0.0336	0.0345	0.0178	0.0338
1977	0.0366	0.0393	0.0146	0.0374	0.0344	0.0196	0.0375
1978	0.0376	0.0418	0.0144	0.0397	0.0368	0.0217	0.0399
1979	0.0424	0.0417	0.0155	0.0426	0.0360	0.0230	0.0440
1980	0.0492	0.0462	0.0175	0.0476	0.0406	0.0236	0.0500

TABLE B-3 ELECTRICITY PRICES: INDUSTRIAL SECTOR
(\$/KWH)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1960	0.0326	0.0067	0.0091	0.0100	0.0117	0.0128	0.0154	0.0149	0.0123
1961	0.0324	0.0067	0.0098	0.0098	0.0117	0.0131	0.0154	0.0149	0.0119
1962	0.0301	0.0067	0.0097	0.0113	0.0113	0.0138	0.0153	0.0148	0.0099
1963	0.0203	0.0065	0.0091	0.0117	0.0108	0.0131	0.0150	0.0143	0.0096
1964	0.0182	0.0063	0.0087	0.0115	0.0107	0.0127	0.0143	0.0123	0.0093
1965	0.0190	0.0063	0.0084	0.0113	0.0095	0.0122	0.0141	0.0120	0.0087
1966	0.0175	0.0063	0.0081	0.0112	0.0089	0.0120	0.0137	0.0117	0.0084
1967	0.0184	0.0064	0.0086	0.0116	0.0092	0.0116	0.0136	0.0117	0.0086
1968	0.0176	0.0066	0.0088	0.0114	0.0091	0.0115	0.0135	0.0118	0.0087
1969	0.0168	0.0066	0.0088	0.0113	0.0092	0.0115	0.0134	0.0118	0.0091
1970	0.0171	0.0072	0.0089	0.0114	0.0093	0.0112	0.0137	0.0120	0.0099
1971	0.0175	0.0082	0.0094	0.0118	0.0098	0.0112	0.0152	0.0134	0.0123
1972	0.0184	0.0086	0.0101	0.0121	0.0107	0.0120	0.0174	0.0142	0.0151
1973	0.0199	0.0096	0.0114	0.0142	0.0121	0.0132	0.0192	0.0153	0.0173
1974	0.0203	0.0122	0.0156	0.0176	0.0180	0.0142	0.0285	0.0229	0.0256
1975	0.0215	0.0171	0.0164	0.0227	0.0212	0.0176	0.0333	0.0262	0.0293
1976	0.0331	0.0183	0.0215	0.0246	0.0243	0.0192	0.0331	0.0252	0.0289
1977	0.0324	0.0217	0.0234	0.0278	0.0302	0.0203	0.0347	0.0274	0.0320
1978	0.0322	0.0241	0.0238	0.0289	0.0343	0.0221	0.0346	0.0321	0.0338
1979	0.0326	0.0284	0.0251	0.0322	0.0351	0.0257	0.0412	0.0319	0.0372
1980	0.0342	0.0329	0.0288	0.0364	0.0497	0.0305	0.0519	0.0372	0.0464

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	0.0135	0.0095	0.0153	0.0131	0.0059	0.0136	0.0126	0.0101	0.0049
1961	0.0131	0.0094	0.0152	0.0136	0.0056	0.0127	0.0124	0.0111	0.0050
1962	0.0128	0.0093	0.0153	0.0135	0.0061	0.0117	0.0122	0.0116	0.0051
1963	0.0125	0.0092	0.0152	0.0131	0.0057	0.0114	0.0119	0.0112	0.0052
1964	0.0122	0.0091	0.0149	0.0127	0.0059	0.0110	0.0117	0.0111	0.0053
1965	0.0116	0.0089	0.0148	0.0122	0.0058	0.0108	0.0114	0.0110	0.0054
1966	0.0112	0.0087	0.0147	0.0120	0.0057	0.0106	0.0112	0.0110	0.0056
1967	0.0110	0.0087	0.0148	0.0122	0.0058	0.0106	0.0111	0.0109	0.0058
1968	0.0110	0.0087	0.0148	0.0125	0.0058	0.0107	0.0111	0.0110	0.0060
1969	0.0113	0.0089	0.0146	0.0122	0.0058	0.0108	0.0109	0.0110	0.0063
1970	0.0114	0.0093	0.0147	0.0124	0.0059	0.0114	0.0112	0.0112	0.0069
1971	0.0117	0.0101	0.0159	0.0130	0.0061	0.0122	0.0116	0.0113	0.0077
1972	0.0129	0.0108	0.0163	0.0135	0.0062	0.0131	0.0125	0.0115	0.0080
1973	0.0139	0.0118	0.0180	0.0140	0.0065	0.0136	0.0128	0.0121	0.0085
1974	0.0189	0.0161	0.0207	0.0157	0.0069	0.0164	0.0143	0.0134	0.0104
1975	0.0240	0.0232	0.0312	0.0200	0.0085	0.0204	0.0179	0.0178	0.0144
1976	0.0271	0.0231	0.0322	0.0222	0.0102	0.0225	0.0199	0.0205	0.0157
1977	0.0269	0.0251	0.0363	0.0251	0.0116	0.0247	0.0246	0.0250	0.0171
1978	0.0291	0.0286	0.0418	0.0265	0.0122	0.0287	0.0291	0.0274	0.0217
1979	0.0324	0.0302	0.0454	0.0300	0.0142	0.0310	0.0311	0.0290	0.0242
1980	0.0430	0.0337	0.0595	0.0326	0.0174	0.0378	0.0347	0.0333	0.0274

TABLE B-3 ELECTRICITY PRICES: INDUSTRIAL SECTOR
(\$/KWH)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	0.0086	0.0178	0.0149	0.0127	0.0126	0.0153	0.0130	0.0101	0.0043
1961	0.0095	0.0181	0.0149	0.0131	0.0126	0.0157	0.0131	0.0099	0.0045
1962	0.0093	0.0167	0.0148	0.0130	0.0121	0.0157	0.0129	0.0101	0.0046
1963	0.0091	0.0167	0.0143	0.0129	0.0117	0.0149	0.0125	0.0096	0.0045
1964	0.0089	0.0166	0.0123	0.0128	0.0115	0.0144	0.0122	0.0092	0.0045
1965	0.0086	0.0163	0.0120	0.0126	0.0113	0.0141	0.0121	0.0088	0.0044
1966	0.0081	0.0159	0.0117	0.0123	0.0108	0.0138	0.0119	0.0087	0.0043
1967	0.0081	0.0159	0.0117	0.0122	0.0109	0.0134	0.0119	0.0087	0.0042
1968	0.0080	0.0153	0.0118	0.0115	0.0108	0.0131	0.0119	0.0090	0.0040
1969	0.0080	0.0153	0.0118	0.0115	0.0109	0.0131	0.0120	0.0092	0.0041
1970	0.0080	0.0156	0.0120	0.0112	0.0119	0.0133	0.0128	0.0094	0.0042
1971	0.0081	0.0174	0.0134	0.0116	0.0129	0.0140	0.0134	0.0102	0.0043
1972	0.0084	0.0188	0.0142	0.0126	0.0135	0.0147	0.0141	0.0109	0.0045
1973	0.0098	0.0201	0.0153	0.0131	0.0144	0.0149	0.0150	0.0120	0.0053
1974	0.0125	0.0313	0.0229	0.0187	0.0190	0.0174	0.0170	0.0164	0.0050
1975	0.0127	0.0355	0.0262	0.0205	0.0248	0.0213	0.0205	0.0203	0.0062
1976	0.0133	0.0373	0.0252	0.0194	0.0270	0.0237	0.0236	0.0238	0.0061
1977	0.0154	0.0406	0.0274	0.0215	0.0293	0.0279	0.0249	0.0258	0.0067
1978	0.0177	0.0404	0.0321	0.0222	0.0329	0.0293	0.0284	0.0278	0.0072
1979	0.0216	0.0451	0.0319	0.0290	0.0354	0.0305	0.0309	0.0316	0.0080
1980	0.0286	0.0555	0.0372	0.0418	0.0420	0.0349	0.0352	0.0362	0.0095

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1960	0.0086	0.0195	0.0099	0.0146	0.0130	0.0122	0.0044	0.0127	0.0076
1961	0.0088	0.0202	0.0112	0.0146	0.0130	0.0124	0.0045	0.0126	0.0076
1962	0.0090	0.0215	0.0107	0.0149	0.0127	0.0124	0.0037	0.0124	0.0078
1963	0.0089	0.0204	0.0110	0.0145	0.0122	0.0122	0.0041	0.0104	0.0078
1964	0.0086	0.0205	0.0112	0.0142	0.0118	0.0120	0.0040	0.0105	0.0079
1965	0.0084	0.0200	0.0108	0.0140	0.0117	0.0116	0.0045	0.0104	0.0080
1966	0.0085	0.0199	0.0105	0.0140	0.0116	0.0112	0.0054	0.0103	0.0084
1967	0.0085	0.0198	0.0107	0.0139	0.0117	0.0109	0.0061	0.0104	0.0085
1968	0.0085	0.0197	0.0107	0.0134	0.0120	0.0109	0.0064	0.0107	0.0087
1969	0.0085	0.0193	0.0108	0.0133	0.0120	0.0109	0.0065	0.0106	0.0088
1970	0.0088	0.0190	0.0109	0.0133	0.0124	0.0110	0.0069	0.0112	0.0093
1971	0.0094	0.0193	0.0116	0.0132	0.0150	0.0110	0.0073	0.0126	0.0100
1972	0.0101	0.0203	0.0121	0.0137	0.0161	0.0115	0.0078	0.0134	0.0101
1973	0.0109	0.0205	0.0127	0.0152	0.0176	0.0120	0.0094	0.0143	0.0105
1974	0.0153	0.0218	0.0132	0.0236	0.0282	0.0144	0.0134	0.0212	0.0145
1975	0.0201	0.0254	0.0157	0.0298	0.0318	0.0176	0.0134	0.0252	0.0178
1976	0.0214	0.0267	0.0186	0.0296	0.0331	0.0208	0.0195	0.0255	0.0178
1977	0.0231	0.0287	0.0192	0.0315	0.0380	0.0252	0.0227	0.0286	0.0204
1978	0.0254	0.0294	0.0209	0.0364	0.0388	0.0316	0.0244	0.0295	0.0240
1979	0.0263	0.0300	0.0227	0.0402	0.0421	0.0393	0.0286	0.0334	0.0263
1980	0.0285	0.0312	0.0254	0.0504	0.0542	0.0430	0.0371	0.0386	0.0312

TABLE B-3 ELECTRICITY PRICES: INDUSTRIAL SECTOR
(\$/KWH)

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1960	0.0102	0.0033	0.0122	0.0174	0.0074	0.0153	0.0047	0.0099	0.0114
1961	0.0109	0.0029	0.0122	0.0173	0.0074	0.0147	0.0048	0.0098	0.0118
1962	0.0109	0.0042	0.0120	0.0171	0.0076	0.0149	0.0049	0.0097	0.0122
1963	0.0103	0.0043	0.0117	0.0168	0.0074	0.0144	0.0048	0.0094	0.0123
1964	0.0102	0.0041	0.0112	0.0166	0.0074	0.0141	0.0049	0.0091	0.0123
1965	0.0101	0.0040	0.0108	0.0164	0.0074	0.0140	0.0050	0.0088	0.0123
1966	0.0100	0.0040	0.0105	0.0160	0.0074	0.0141	0.0050	0.0085	0.0120
1967	0.0100	0.0039	0.0106	0.0159	0.0074	0.0143	0.0052	0.0083	0.0126
1968	0.0101	0.0038	0.0104	0.0152	0.0074	0.0144	0.0054	0.0082	0.0126
1969	0.0100	0.0039	0.0104	0.0149	0.0074	0.0145	0.0058	0.0080	0.0122
1970	0.0100	0.0040	0.0113	0.0154	0.0077	0.0151	0.0065	0.0080	0.0120
1971	0.0100	0.0043	0.0134	0.0169	0.0085	0.0159	0.0079	0.0080	0.0126
1972	0.0101	0.0046	0.0142	0.0187	0.0088	0.0165	0.0079	0.0084	0.0132
1973	0.0103	0.0046	0.0149	0.0197	0.0099	0.0164	0.0083	0.0092	0.0131
1974	0.0112	0.0049	0.0210	0.0328	0.0141	0.0175	0.0102	0.0116	0.0141
1975	0.0136	0.0068	0.0253	0.0360	0.0184	0.0190	0.0154	0.0149	0.0171
1976	0.0176	0.0080	0.0257	0.0360	0.0193	0.0216	0.0172	0.0185	0.0200
1977	0.0214	0.0089	0.0289	0.0396	0.0216	0.0224	0.0182	0.0215	0.0217
1978	0.0232	0.0104	0.0309	0.0413	0.0230	0.0255	0.0235	0.0236	0.0240
1979	0.0242	0.0120	0.0334	0.0468	0.0255	0.0265	0.0277	0.0273	0.0278
1980	0.0279	0.0148	0.0410	0.0588	0.0272	0.0293	0.0310	0.0315	0.0317

YEAR	VA	VT	WA	WI	WV	WY	US
1960	0.0107	0.0144	0.0032	0.0133	0.0087	0.0110	0.0097
1961	0.0106	0.0150	0.0033	0.0138	0.0087	0.0127	0.0097
1962	0.0104	0.0150	0.0033	0.0137	0.0085	0.0105	0.0096
1963	0.0103	0.0148	0.0033	0.0134	0.0083	0.0094	0.0093
1964	0.0100	0.0146	0.0032	0.0132	0.0081	0.0093	0.0091
1965	0.0096	0.0142	0.0031	0.0129	0.0081	0.0092	0.0090
1966	0.0095	0.0138	0.0031	0.0125	0.0080	0.0091	0.0089
1967	0.0096	0.0144	0.0031	0.0125	0.0081	0.0100	0.0090
1968	0.0095	0.0146	0.0031	0.0124	0.0080	0.0102	0.0090
1969	0.0095	0.0145	0.0030	0.0128	0.0080	0.0103	0.0091
1970	0.0098	0.0144	0.0031	0.0135	0.0084	0.0103	0.0095
1971	0.0107	0.0149	0.0032	0.0142	0.0096	0.0104	0.0104
1972	0.0116	0.0167	0.0032	0.0149	0.0105	0.0105	0.0109
1973	0.0121	0.0178	0.0033	0.0157	0.0109	0.0105	0.0118
1974	0.0182	0.0225	0.0033	0.0171	0.0152	0.0107	0.0155
1975	0.0234	0.0241	0.0043	0.0210	0.0208	0.0109	0.0192
1976	0.0229	0.0259	0.0045	0.0234	0.0218	0.0120	0.0207
1977	0.0270	0.0260	0.0043	0.0241	0.0219	0.0131	0.0233
1978	0.0268	0.0282	0.0046	0.0258	0.0242	0.0154	0.0259
1979	0.0322	0.0287	0.0050	0.0285	0.0243	0.0155	0.0285
1980	0.0386	0.0332	0.0071	0.0317	0.0274	0.0164	0.0341

TABLE B-4 ELECTRICITY PRICES: TRANSPORTATION SECTOR
(\$/KWH)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1960	0.0	0.0	0.0	0.0	0.0107	0.0	0.0126	0.0116	0.0
1961	0.0	0.0	0.0	0.0	0.0108	0.0	0.0268	0.0130	0.0
1962	0.0	0.0	0.0	0.0	0.0108	0.0	0.0	0.0130	0.0
1963	0.0	0.0	0.0103	0.0	0.0103	0.0	0.0	0.0128	0.0
1964	0.0	0.0	0.0117	0.0	0.0101	0.0	0.0	0.0118	0.0
1965	0.0	0.0	0.0129	0.0	0.0108	0.0	0.0	0.0118	0.0
1966	0.0	0.0	0.0127	0.0	0.0102	0.0	0.0	0.0117	0.0
1967	0.0	0.0	0.0125	0.0	0.0099	0.0	0.0	0.0121	0.0
1968	0.0	0.0	0.0111	0.0	0.0099	0.0	0.0	0.0121	0.0
1969	0.0	0.0	0.0117	0.0	0.0098	0.0	0.0	0.0122	0.0
1970	0.0	0.0	0.0120	0.0	0.0098	0.0	0.0	0.0125	0.0
1971	0.0	0.0	0.0118	0.0	0.0101	0.0	0.0	0.0149	0.0
1972	0.04410	0.0	0.0126	0.0	0.0104	0.0	0.0	0.0158	0.0
1973	0.0710	0.0	0.0153	0.0	0.0109	0.0	0.0	0.0173	0.0
1974	0.0750	0.0	0.0216	0.0	0.0134	0.0	0.0	0.0256	0.0
1975	0.0315	0.0	0.0246	0.0	0.0148	0.0	0.0	0.0279	0.0
1976	0.0310	0.0	0.0269	0.0	0.0173	0.0	0.0	0.0257	0.0
1977	0.0305	0.0	0.0189	0.0	0.0279	0.0	0.0	0.0252	0.0
1978	0.0295	0.0	0.0140	0.0	0.0311	0.0	0.0	0.0356	0.0
1979	0.0335	0.0	0.0279	0.0	0.0253	0.0	0.0	0.0377	0.0
1980	0.0	0.0	0.0387	0.0	0.0367	0.0	0.0	0.0428	0.0

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	0.0	0.0103	0.0	0.0125	0.0	0.0147	0.0155	0.0090	0.0
1961	0.0	0.0101	0.0	0.0123	0.0	0.0151	0.0157	0.0055	0.0
1962	0.0	0.0100	0.0	0.0116	0.0	0.0150	0.0162	0.0	0.0
1963	0.0	0.0098	0.0	0.0142	0.0	0.0154	0.0154	0.0	0.0
1964	0.0	0.0	0.0	0.0110	0.0	0.0149	0.0164	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0144	0.0162	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0144	0.0158	0.0	0.0
1967	0.0	0.0	0.0	0.0040	0.0	0.0138	0.0157	0.0	0.0
1968	0.0	0.0	0.0	0.0	0.0	0.0139	0.0158	0.0	0.0
1969	0.0	0.0	0.0	0.0	0.0	0.0139	0.0168	0.0	0.0
1970	0.0	0.0	0.0	0.0	0.0	0.0139	0.0179	0.0	0.0
1971	0.0	0.0	0.0	0.0	0.0	0.0150	0.0196	0.0	0.0
1972	0.0	0.0	0.0	0.0	0.0	0.0160	0.0192	0.0	0.0
1973	0.0	0.0	0.0	0.0	0.0	0.0171	0.0208	0.0	0.0
1974	0.0	0.0	0.0	0.0	0.0	0.0197	0.0258	0.0	0.0
1975	0.0	0.0	0.0	0.0	0.0	0.0208	0.0324	0.0	0.0
1976	0.0	0.0	0.0	0.0	0.0	0.0228	0.0380	0.0	0.0
1977	0.0	0.0	0.0	0.0	0.0	0.0246	0.0455	0.0	0.0
1978	0.0	0.0	0.0	0.0	0.0	0.0279	0.0532	0.0	0.0
1979	0.0	0.0315	0.0	0.0	0.0	0.0321	0.0581	0.0	0.0
1980	0.0	0.0337	0.0	0.0	0.0	0.0404	0.0734	0.0	0.0

TABLE B-4 ELECTRICITY PRICES: TRANSPORTATION SECTOR
(\$/KWH)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	0.0118	0.0096	0.0116	0.0	0.0184	0.0	0.0	0.0	0.0056
1961	0.0123	0.0097	0.0130	0.0	0.0180	0.0	0.0150	0.0	0.0055
1962	0.0127	0.0084	0.0130	0.0	0.0090	0.0	0.0106	0.0	0.0056
1963	0.0126	0.0088	0.0128	0.0	0.0	0.0	0.0096	0.0	0.0055
1964	0.0143	0.0083	0.0118	0.0	0.0	0.0	0.0083	0.0	0.0055
1965	0.0150	0.0078	0.0118	0.0	0.0	0.0	0.0086	0.0	0.0054
1966	0.0	0.0083	0.0117	0.0	0.0	0.0	0.0089	0.0	0.0054
1967	0.0	0.0082	0.0121	0.0	0.0	0.0	0.0084	0.0	0.0054
1968	0.0	0.0085	0.0121	0.0	0.0	0.0	0.0090	0.0	0.0054
1969	0.0130	0.0084	0.0122	0.0	0.0	0.0	0.0092	0.0	0.0055
1970	0.0130	0.0193	0.0125	0.0	0.0	0.0	0.0095	0.0	0.0053
1971	0.0	0.0279	0.0149	0.0	0.0	0.0	0.0103	0.0	0.0054
1972	0.0140	0.0296	0.0158	0.0	0.0	0.0	0.0112	0.0	0.0053
1973	0.0120	0.0251	0.0173	0.0	0.0	0.0	0.0118	0.0	0.0053
1974	0.0	0.0444	0.0256	0.0	0.0	0.0	0.0138	0.0	0.0053
1975	0.0	0.0504	0.0279	0.0	0.0	0.0	0.0191	0.0	0.0
1976	0.0	0.0618	0.0257	0.0	0.0	0.0	0.0237	0.0	0.0
1977	0.0	0.0637	0.0252	0.0	0.0	0.0	0.0276	0.0	0.0
1978	0.0	0.0717	0.0356	0.0	0.0	0.0	0.0307	0.0	0.0
1979	0.0	0.0634	0.0377	0.0	0.0	0.0	0.0322	0.0	0.0
1980	0.0	0.0742	0.0428	0.0	0.0	0.0	0.0386	0.0	0.0

YEAR	NE	NC	ND	NH	NJ	NM	NV	NY	OH
1960	0.0	0.0	0.0	0.0	0.0179	0.0	0.0190	0.0145	0.0112
1961	0.0130	0.0	0.0	0.0	0.0188	0.0	0.0220	0.0147	0.0114
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0200	0.0146	0.0117
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0143	0.0122
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0142	0.0125
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0144	0.0117
1966	0.0102	0.0	0.0	0.0	0.0	0.0	0.0	0.0145	0.0122
1967	0.0117	0.0	0.0	0.0	0.0	0.0	0.0	0.0145	0.0124
1968	0.0106	0.0	0.0	0.0	0.0	0.0	0.0	0.0148	0.0126
1969	0.0109	0.0	0.0	0.0	0.0140	0.0	0.0	0.0153	0.0128
1970	0.0110	0.0	0.0	0.0	0.0157	0.0	0.0	0.0164	0.0138
1971	0.0127	0.0	0.0	0.0	0.0198	0.0	0.0	0.0188	0.0154
1972	0.0127	0.0	0.0	0.0	0.0193	0.0	0.0	0.0215	0.0157
1973	0.0107	0.0	0.0	0.0	0.0213	0.0	0.0	0.0251	0.0171
1974	0.0109	0.0	0.0	0.0	0.0292	0.0	0.0	0.0423	0.0241
1975	0.0137	0.0	0.0	0.0	0.0380	0.0	0.0	0.0466	0.0261
1976	0.0151	0.0	0.0	0.0	0.0322	0.0	0.0	0.0472	0.0293
1977	0.0156	0.0	0.0	0.0	0.0364	0.0	0.0	0.0390	0.0380
1978	0.0156	0.0	0.0	0.0	0.0340	0.0	0.0	0.0458	0.0411
1979	0.0162	0.0	0.0	0.0	0.0414	0.0	0.0	0.0520	0.0448
1980	0.0	0.0	0.0132	0.0	0.0445	0.0	0.0	0.0512	0.0451

TABLE B-4 ELECTRICITY PRICES: TRANSPORTATION SECTOR
(\$/KWH)

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1960	0.0	0.0	0.0110	0.0	0.0	0.0	0.0	0.0046	0.0
1961	0.0	0.0	0.0112	0.0	0.0	0.0	0.0	0.0056	0.0
1962	0.0	0.0	0.0113	0.0	0.0	0.0	0.0	0.0058	0.0
1963	0.0	0.0	0.0112	0.0	0.0	0.0	0.0	0.0061	0.0
1964	0.0	0.0	0.0110	0.0	0.0	0.0	0.0	0.0140	0.0
1965	0.0	0.0	0.0106	0.0	0.0	0.0	0.0	0.0130	0.0
1966	0.0	0.0	0.0106	0.0	0.0	0.0	0.0	0.0080	0.0
1967	0.0	0.0	0.0124	0.0	0.0	0.0	0.0	0.0	0.0
1968	0.0	0.0	0.0112	0.0	0.0	0.0	0.0	0.0	0.0
1969	0.0	0.0	0.0112	0.0	0.0	0.0	0.0	0.0	0.0
1970	0.0	0.0	0.0125	0.0	0.0	0.0	0.0	0.0	0.0
1971	0.0	0.0	0.0152	0.0	0.0	0.0	0.0	0.0	0.0
1972	0.0	0.0	0.0166	0.0	0.0	0.0	0.0	0.0	0.0
1973	0.0	0.0	0.0178	0.0	0.0	0.0	0.0	0.0	0.0
1974	0.0	0.0	0.0256	0.0	0.0	0.0	0.0	0.0	0.0
1975	0.0	0.0	0.0287	0.0	0.0	0.0	0.0	0.0	0.0
1976	0.0	0.0	0.0293	0.0	0.0	0.0	0.0	0.0	0.0
1977	0.0	0.0	0.0319	0.0	0.0	0.0	0.0	0.0	0.0
1978	0.0	0.0	0.0319	0.0	0.0	0.0	0.0	0.0	0.0
1979	0.0	0.0	0.0317	0.0	0.0	0.0	0.0130	0.0	0.0
1980	0.0	0.0	0.0519	0.0	0.0	0.0	0.0	0.0	0.0

YEAR	VA	VT	WA	WI	WV	WY	US
1960	0.0	0.0	0.0070	0.0126	0.0	0.0	0.0131
1961	0.0	0.0	0.0070	0.0139	0.0	0.0	0.0134
1962	0.0	0.0	0.0071	0.0127	0.0	0.0	0.0134
1963	0.0	0.0	0.0069	0.0127	0.0	0.0	0.0132
1964	0.0	0.0	0.0068	0.0114	0.0	0.0	0.0131
1965	0.0	0.0	0.0065	0.0118	0.0	0.0	0.0131
1966	0.0	0.0	0.0065	0.0	0.0	0.0	0.0131
1967	0.0	0.0	0.0066	0.0	0.0	0.0	0.0133
1968	0.0	0.0	0.0069	0.0	0.0	0.0	0.0135
1969	0.0	0.0	0.0076	0.0	0.0	0.0	0.0139
1970	0.0	0.0	0.0074	0.0	0.0	0.0	0.0149
1971	0.0	0.0	0.0073	0.0	0.0	0.0	0.0172
1972	0.0	0.0	0.0077	0.0	0.0	0.0	0.0192
1973	0.0	0.0	0.0087	0.0	0.0	0.0	0.0219
1974	0.0	0.0	0.0096	0.0	0.0	0.0	0.0343
1975	0.0	0.0	0.0109	0.0	0.0	0.0	0.0373
1976	0.0	0.0	0.0114	0.0	0.0	0.0	0.0378
1977	0.0	0.0	0.0142	0.0	0.0	0.0	0.0346
1978	0.0499	0.0	0.0125	0.0	0.0	0.0	0.0392
1979	0.0512	0.0	0.0133	0.0	0.0	0.0	0.0433
1980	0.0458	0.0	0.0133	0.0	0.0	0.0	0.0483

TABLE B-5 NATURAL GAS PRICES: RESIDENTIAL SECTOR
(\$/1000 CU FT)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1960	0.1353	1.0976	0.6530	0.7995	0.9544	0.6745	1.8331	1.5581	1.7476
1961	0.2660	1.2079	0.6982	1.1157	1.0033	0.6668	1.9962	1.5574	1.7413
1962	0.9739	1.0976	0.7017	0.9244	0.9965	0.6700	1.9710	1.5344	1.7477
1963	1.2686	1.1565	0.7199	0.9556	0.9934	0.6798	1.9204	1.5404	1.7001
1964	1.2651	1.1273	0.7341	0.9410	1.0353	0.7153	1.8895	1.5003	1.6837
1965	1.5031	1.1295	0.7246	1.0858	0.9570	0.6766	1.8616	1.4378	1.6589
1966	1.5022	1.1003	0.7080	0.9418	0.9331	0.5925	1.8520	1.4631	1.6325
1967	1.5133	1.1319	0.7150	0.9603	0.9256	0.6640	1.8270	1.4417	1.5961
1968	1.5168	1.0951	0.7010	0.9670	0.9325	0.6780	1.8126	1.4179	1.5945
1969	1.5169	1.0900	0.7080	1.0370	0.9280	0.6860	1.8160	1.4210	1.5040
1970	1.5191	1.1300	0.7540	1.1990	0.9850	0.7190	1.9120	1.4541	1.5850
1971	1.5310	1.1860	0.7870	1.2260	1.0340	0.7460	2.0690	1.5101	1.6270
1972	1.5168	1.2660	0.8270	1.2440	1.0790	0.7820	2.0940	1.6480	1.7100
1973	1.5740	1.3680	0.8720	1.3680	1.1610	0.8254	2.2470	1.6798	1.8527
1974	1.5801	1.5499	1.0600	1.5000	1.3800	1.0000	2.7899	1.8956	2.1100
1975	1.6270	1.5680	1.1160	1.5340	1.5740	1.1570	3.2929	2.3302	2.4259
1976	1.6530	1.9889	1.2270	2.1170	1.7710	1.2679	3.4109	2.6300	2.6089
1977	1.7099	2.3089	1.9800	2.6119	1.8870	1.6249	4.3399	3.2800	3.2489
1978	1.7599	2.7060	1.9600	3.0697	1.9850	1.9379	4.4729	3.3000	4.0599
1979	1.7080	3.6509	1.5689	3.5039	2.4689	2.4762	4.7439	3.6600	4.0250
1980	1.7370	4.0456	2.4738	4.0525	3.5167	3.2394	5.8499	4.5739	4.3004

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	2.9605	0.9990	0.0	0.9400	1.2802	1.1358	0.9295	0.5613	0.7884
1961	2.7796	1.0458	0.0	0.9412	1.3065	1.1501	0.9835	0.6134	0.8200
1962	2.6576	1.0527	0.0	0.9460	1.3090	1.1530	0.9891	0.5565	0.8121
1963	2.8250	1.0395	0.0	0.9534	1.3153	1.1280	0.9913	0.5623	0.8122
1964	2.6709	1.0297	0.0	0.9393	1.2765	1.0627	0.9492	0.5725	0.8040
1965	2.4922	1.0397	0.0	0.9319	1.3543	1.0320	0.9512	0.5731	0.8123
1966	2.2120	0.9700	0.0	0.9286	1.2936	1.0130	0.9470	0.5870	0.8010
1967	2.2640	1.0270	0.0	0.9276	1.2916	1.0223	0.9820	0.5914	0.8430
1968	2.5940	1.0190	0.0	0.9346	1.3575	1.0237	0.9350	0.6265	0.7941
1969	2.4850	1.0160	0.0	0.9380	1.3701	1.0050	0.9380	0.6400	0.8000
1970	2.5140	1.0480	0.0	0.9660	1.3910	1.0460	1.0100	0.6850	0.8280
1971	2.5370	1.1330	0.0	1.0270	1.4940	1.0720	1.0800	0.7170	0.8800
1972	2.6580	1.2570	0.0	1.1060	1.5070	1.1350	1.1380	0.7360	0.9250
1973	2.7020	1.3033	0.0	1.1700	1.5210	1.2125	1.1950	0.7470	0.9890
1974	2.8500	1.4000	0.0	1.2200	1.8004	1.3500	1.2800	0.9000	1.1000
1975	2.7389	1.4969	0.0	1.4269	2.1809	1.6130	1.4550	1.0290	1.2270
1976	2.8129	1.6947	0.0	1.6120	2.2409	1.8980	1.6946	1.4819	1.3201
1977	3.5289	1.9660	0.0	1.9349	2.8570	2.2129	2.0220	1.7183	1.7879
1978	3.5399	2.3299	0.0	2.2519	3.4070	2.5029	2.1680	1.7699	1.9370
1979	3.7000	2.8770	0.0	2.6839	3.7249	3.0059	2.6479	1.9519	2.3530
1980	4.8019	3.6795	12.9972	3.1920	4.9778	3.6116	3.1546	2.3669	3.0294

TABLE B-5 NATURAL GAS PRICES: RESIDENTIAL SECTOR
(\$/1000 CU FT)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	0.6458	2.1774	1.5592	0.0	0.9538	1.1559	0.7946	0.8912	0.6604
1961	0.6617	2.1303	1.5587	0.0	0.9939	1.1509	0.8089	0.8764	0.6547
1962	0.6934	2.0776	1.5356	0.0	0.9952	1.0998	0.8022	0.8838	0.7520
1963	0.7077	1.8018	1.5415	0.0	0.9941	1.1119	0.8242	0.8893	0.7462
1964	0.6912	1.9483	1.5014	0.0	0.9933	1.0830	0.8404	0.8400	0.7632
1965	0.7236	1.8742	1.4389	0.0	0.9864	1.0572	0.8406	0.8726	0.7805
1966	0.7310	1.9081	1.4642	3.1555	0.9823	1.0420	0.8460	0.8720	0.7785
1967	0.7520	1.8780	1.4428	3.0896	0.9780	1.0288	0.8390	0.8811	0.7965
1968	0.7450	1.8563	1.4190	3.2375	0.9769	1.0308	0.8610	0.9730	0.8220
1969	0.7510	1.8550	1.4212	3.1137	0.9840	1.0730	0.8860	0.8800	0.8840
1970	0.7740	1.9190	1.4552	3.1371	1.0150	1.0960	0.9640	0.8840	0.9080
1971	0.8360	2.1190	1.5112	3.2413	1.0630	1.1830	1.0160	0.9440	0.9350
1972	0.9150	2.2900	1.6492	3.3802	1.0980	1.2310	1.0970	1.0820	0.9660
1973	0.9730	2.4010	1.6811	3.4316	1.1820	1.3040	1.1610	1.0890	1.0860
1974	1.1200	2.7100	1.8971	3.7526	1.3700	1.4100	1.2700	1.2300	1.1200
1975	1.3680	3.1519	2.3320	4.1754	1.6210	1.5690	1.4950	1.4079	1.2960
1976	1.5710	3.6420	2.5600	4.2100	1.8990	1.7382	1.6989	1.7117	1.3642
1977	1.9727	3.9499	4.2100	5.4000	2.2210	2.1320	2.1839	2.1070	1.8159
1978	2.4700	4.1669	2.4000	5.0000	2.3079	2.4060	2.2890	2.3979	1.8940
1979	2.7090	4.5540	2.8400	6.2000	2.6440	2.8619	2.7580	2.8309	2.2129
1980	3.4026	5.4211	4.4672	6.3495	3.1915	3.2283	3.2857	3.4782	3.0527

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1960	1.4550	0.7848	0.8314	1.9261	2.1293	0.7924	1.1788	1.5651	0.7869
1961	1.5050	0.8613	0.8433	1.8041	2.0348	0.7948	1.3610	1.6453	0.7993
1962	1.4879	0.8678	0.8284	1.8642	1.9700	0.8150	1.3171	1.3745	0.8056
1963	1.4343	0.8885	0.8158	1.8581	1.9110	0.8008	1.3127	1.3399	0.8187
1964	1.4472	0.8941	0.8204	1.7074	1.9372	0.9147	1.5003	1.4098	0.8246
1965	1.3718	0.8935	0.8166	1.7983	1.9229	0.9315	1.4638	1.4300	0.8577
1966	1.2455	0.9307	0.8068	1.8498	1.9168	0.7850	1.3676	1.4780	0.8590
1967	1.3073	0.9409	0.7940	1.8105	1.9146	0.9100	1.4161	1.4240	0.8570
1968	1.2942	0.9350	0.7950	1.8976	1.9135	0.8890	1.5119	1.3840	0.8550
1969	1.2510	0.9481	0.8310	1.8225	1.8540	0.9100	1.4859	1.3740	0.8700
1970	1.3000	1.0239	0.8510	1.8373	1.8880	0.9279	1.5070	1.3980	0.9000
1971	1.3380	1.0990	0.9220	1.9000	1.9460	0.9540	1.5120	1.4970	0.9841
1972	1.4070	1.1320	0.9910	1.9804	2.0180	0.9730	1.5240	1.6160	1.0540
1973	1.5050	1.1440	1.0410	2.0111	2.0830	1.0035	1.5380	1.7410	1.1100
1974	1.6900	1.1900	1.1399	2.1989	2.2500	1.2400	1.7200	2.0000	1.2400
1975	2.0239	1.5090	1.2810	2.4499	2.6920	1.3299	1.9499	2.5360	1.5040
1976	2.1327	1.7902	1.3661	2.4000	3.1399	1.3630	2.0429	2.8697	1.7730
1977	2.8120	2.1059	1.0410	3.3400	3.4229	2.1149	2.7819	3.2809	2.2120
1978	2.9990	2.3280	1.9680	3.3700	3.5330	2.4959	2.7999	3.6759	2.4226
1979	3.5160	2.8779	2.3039	3.8600	4.3000	2.7320	2.8320	4.1239	2.8079
1980	4.1101	3.8514	2.7293	4.6629	5.0647	3.3227	4.0679	4.9560	3.5461

TABLE B-5 NATURAL GAS PRICES: RESIDENTIAL SECTOR
(\$/1000 CU FT)

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1960	0.7066	1.5194	1.0708	2.0279	1.4918	0.9625	0.9476	0.7624	0.7347
1961	0.7128	1.5410	1.1024	2.0548	1.5369	0.9696	0.9474	0.7881	0.7464
1962	0.7193	1.5304	1.1057	2.0270	1.4745	0.9689	0.9770	0.7994	0.7674
1963	0.7299	1.5150	1.0998	1.9565	1.4440	0.9765	0.9687	0.8520	0.7338
1964	0.7259	1.5020	1.1624	1.9147	1.4328	0.9568	0.9188	0.8406	0.7046
1965	0.7681	1.5321	1.1479	1.8635	1.4018	0.9706	0.9140	0.8557	0.7219
1966	0.7709	1.5980	1.1460	1.8506	1.3610	1.0096	0.9020	0.8480	0.6896
1967	0.7762	1.5738	1.1468	1.8101	1.3960	0.9929	0.9030	0.8710	0.6826
1968	0.7735	1.5437	1.1470	1.7771	1.3229	0.9901	0.8845	0.8700	0.7440
1969	0.8200	1.4910	1.1790	1.7800	1.3300	1.0060	0.8860	0.8990	0.8300
1970	0.8410	1.5110	1.2370	1.8320	1.3530	1.0400	0.9120	0.9210	0.8500
1971	0.8740	1.6000	1.2800	1.9320	1.4700	1.1020	0.9760	0.9930	0.8730
1972	0.8980	1.6780	1.3560	2.0530	1.6150	1.1320	1.0240	1.0140	0.9010
1973	0.9190	1.7614	1.4810	2.3728	1.6520	1.1943	1.0775	1.0390	0.9870
1974	1.0500	2.0000	1.6600	2.5500	1.9700	1.2900	1.1700	1.1700	1.0700
1975	1.2180	2.1960	1.9340	3.0850	2.1299	1.3970	1.2910	1.5230	1.2179
1976	1.4970	2.6821	2.1380	3.3599	2.2909	1.5010	1.6110	1.9870	1.3789
1977	1.7830	3.4319	2.5059	4.2279	2.8740	1.8279	2.0940	2.3920	1.6369
1978	1.9300	3.8269	2.6329	4.1800	3.0040	2.0999	2.1400	2.7310	1.9289
1979	2.1979	4.1219	3.1920	3.6680	3.5009	2.6130	2.3650	3.2139	2.2220
1980	2.4612	5.6088	3.8090	5.6922	4.1921	3.1321	2.8906	3.4072	2.7413

YEAR	VA	VT	WA	WI	WV	WY	US
1960	1.6059	0.0	1.4953	1.2420	0.8397	0.6489	1.0342
1961	1.6124	0.0	1.4399	1.2655	0.8375	0.6147	1.0698
1962	1.5803	0.0	1.4808	1.2427	0.8495	0.6063	1.0434
1963	1.5976	0.0	1.4701	1.2204	0.8433	0.6489	1.0448
1964	1.4813	0.0	1.3672	1.1989	0.8355	0.6544	1.0536
1965	1.4980	0.0	1.4124	1.1633	0.8501	0.6432	1.0483
1966	1.4820	1.7847	1.5609	1.1650	0.8441	0.6490	1.0433
1967	1.4611	1.7477	1.4800	1.0240	0.8421	0.6600	1.0435
1968	1.4389	1.8304	1.4260	1.0970	0.8690	0.6650	1.0415
1969	1.4250	1.7586	1.3620	1.1610	0.8780	0.6810	1.0478
1970	1.4900	1.7731	1.4030	1.2470	0.8910	0.6820	1.0898
1971	1.5220	1.8341	1.4340	1.2640	0.9380	0.7070	1.1490
1972	1.5980	1.9110	1.4670	1.3380	0.9640	0.7400	1.2140
1973	1.6791	1.9406	1.5520	1.4295	0.9740	0.7650	1.2874
1974	1.8700	2.1220	1.7699	1.5000	1.0999	0.8500	1.4551
1975	2.2440	2.3711	2.2740	1.7460	1.4530	1.0169	1.7078
1976	2.5359	2.8400	2.6950	2.1099	1.6680	1.1889	1.9780
1977	3.0280	3.6700	3.1239	2.4950	2.5469	1.5880	2.3488
1978	3.2689	3.5600	3.4820	2.6829	2.6100	1.9109	2.5627
1979	3.6807	4.0000	3.9459	3.0629	2.9250	2.5130	3.0028
1980	4.2662	6.2306	5.3132	3.8402	3.5952	2.8196	3.6819

TABLE B-6 NATURAL GAS PRICES: COMMERCIAL SECTOR
(\$/1000 CU FT)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1960	0.0	0.6673	0.4945	0.4143	0.6739	0.5576	1.6803	1.4415	1.6007
1961	0.8305	0.5915	0.5077	0.6469	0.6910	0.5604	1.7278	1.4100	1.5197
1962	0.8333	0.5791	0.4593	0.5634	0.6981	0.5373	1.8132	1.3765	1.5028
1963	0.9089	0.5691	0.4814	0.5552	0.6880	0.5461	1.5555	1.3653	1.4437
1964	0.9382	0.5460	0.5236	0.5353	0.6840	0.5573	1.4926	1.3192	1.4002
1965	0.9595	0.5391	0.4491	0.5471	0.6860	0.5425	1.6505	1.2543	1.4599
1966	0.9590	0.5338	0.4440	0.5610	0.6864	0.4945	1.5620	1.4379	1.3003
1967	0.9901	0.5625	0.4982	0.5076	0.6791	0.5558	1.5266	1.1636	1.2215
1968	0.7577	0.5611	0.4899	0.4909	0.6866	0.5471	1.4441	1.1397	1.2658
1969	0.6499	0.5520	0.4934	0.5839	0.6854	0.5477	1.4271	1.1120	1.2241
1970	0.6847	0.6016	0.5257	0.6319	0.7283	0.5700	1.4721	1.1187	1.2450
1971	0.7318	0.6557	0.5472	0.6852	0.7577	0.5930	1.5524	1.1537	1.2711
1972	0.8175	0.7316	0.5685	0.7231	0.8126	0.6443	1.6198	1.2303	1.3551
1973	0.7762	0.7368	0.6171	0.7657	0.8506	0.6825	1.8218	1.2656	1.3860
1974	0.8739	0.8751	0.7561	0.8298	0.9920	0.8280	2.2241	1.4375	1.6299
1975	0.9741	1.0740	0.8906	1.1591	1.2885	0.8986	2.6553	1.9978	1.9011
1976	1.0572	1.5956	1.0175	1.4267	1.5878	1.0886	3.2207	2.6300	2.9756
1977	1.3448	1.8269	1.5885	1.7566	2.0728	1.4031	3.5629	3.2800	2.9470
1978	1.3249	2.0919	1.6245	2.2019	2.2446	1.7254	3.7684	3.3000	3.8509
1979	1.0313	2.7784	1.3617	2.6442	2.7326	2.2895	3.9455	3.6600	3.7431
1980	1.0579	3.3833	2.2763	3.1350	3.9818	3.0148	4.7701	4.2203	4.0453

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	1.4479	0.6831	0.0	0.6728	0.8891	0.8380	0.8554	0.5389	0.6891
1961	1.0248	0.6952	0.0	0.6747	0.8992	0.8368	0.6800	0.4156	0.6669
1962	1.5519	0.6827	0.0	0.6847	0.8524	0.8584	0.8794	0.4579	0.6632
1963	1.2247	0.7081	0.0	0.6759	0.8987	0.8687	0.9122	0.4548	0.6706
1964	1.1689	0.6999	0.0	0.6804	0.9524	0.7635	0.8426	0.4115	0.6756
1965	1.1066	0.7008	0.0	0.6747	0.8876	0.7354	0.8231	0.4082	0.6828
1966	1.0460	0.6870	0.0	0.6559	0.9408	0.6240	0.8240	0.4430	0.6780
1967	0.9432	0.6906	0.0	0.6556	0.9455	0.7466	0.8410	0.4136	0.6794
1968	0.9765	0.6997	0.0	0.6597	0.8974	0.7337	0.8034	0.4300	0.6424
1969	0.9308	0.6979	0.0	0.6666	0.9120	0.7126	0.7934	0.4222	0.6477
1970	0.9269	0.7395	0.0	0.6880	1.0140	0.7489	0.8322	0.4543	0.6672
1971	1.0629	0.8505	0.0	0.7342	1.0102	0.7788	0.8813	0.4707	0.7064
1972	1.2041	0.8869	0.0	0.8327	1.0300	0.8428	0.9265	0.5098	0.7514
1973	1.2922	0.9351	0.0	0.8989	1.0700	0.8893	0.9848	0.5335	0.8059
1974	1.6427	1.0152	0.0	0.9388	1.2118	1.0159	1.0562	0.5978	0.9087
1975	1.6987	1.0957	0.0	1.0625	1.5478	1.3127	1.2446	0.6709	1.0605
1976	1.7196	1.3824	0.0	1.2947	2.0600	1.6397	1.4974	1.0976	1.1475
1977	2.0097	1.7541	0.0	1.6473	2.4199	1.9852	1.8390	1.1940	1.6540
1978	2.0319	2.0750	0.0	1.9838	3.0750	2.2679	2.0087	1.1705	1.8305
1979	2.7353	2.5244	0.0	2.3880	3.4564	2.8066	2.4586	1.6074	2.2047
1980	3.4335	3.6795	12.9972	2.8457	4.5916	3.3385	2.9542	1.8974	2.9205

TABLE B-6 NATURAL GAS PRICES: COMMERCIAL SECTOR
(\$/1000 CU FT)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	0.3922	1.7500	1.4297	0.0	0.7983	0.8099	0.7192	0.5133	0.4640
1961	0.3867	1.7402	1.3987	0.0	0.8982	0.8500	0.6447	0.4867	0.4586
1962	0.4488	1.5862	1.3653	0.0	0.8809	0.6602	0.6396	0.4890	0.5059
1963	0.4524	1.5974	1.3546	0.0	0.8641	0.6107	0.6536	0.4882	0.5073
1964	0.4184	1.6754	1.3088	0.0	0.8604	0.8204	0.7798	0.4933	0.5327
1965	0.4280	1.6109	1.2442	0.0	0.8440	0.8168	0.8769	0.5723	0.5407
1966	0.4610	0.1530	1.4265	2.7441	0.8287	0.7360	0.5510	0.4820	0.5430
1967	0.4050	1.3845	1.1545	1.9813	0.8190	0.6127	0.5619	0.5059	0.5464
1968	0.3718	1.4113	1.1305	2.1184	0.8097	0.6266	0.6111	0.5103	0.5687
1969	0.3826	1.4116	1.1031	2.0345	0.8129	0.6657	0.5948	0.5544	0.6098
1970	0.3789	1.4173	1.1097	2.0936	0.8394	0.6952	0.6268	0.5817	0.6182
1971	0.4096	1.5963	1.1444	2.1772	0.8689	0.7592	0.6506	0.6253	0.6544
1972	0.4620	1.7128	1.2204	2.3792	0.9029	0.8345	0.7536	0.6766	0.6626
1973	0.5107	1.8111	1.2555	2.4790	0.9596	0.8498	0.7803	0.7534	0.7747
1974	0.6011	2.1450	1.4260	2.7441	1.1296	0.9788	0.8956	0.7534	0.8975
1975	0.7984	2.6466	1.9816	3.0795	1.4826	1.1621	1.1538	0.9433	1.0949
1976	1.0985	3.0768	2.5600	3.3300	1.8217	1.4110	1.3539	1.2904	0.6626
1977	1.0921	3.4319	3.1600	4.2600	2.1172	1.7137	1.8630	1.7653	1.5993
1978	1.4415	3.5374	3.4200	4.3100	2.2279	2.0228	2.0017	2.0252	1.6577
1979	2.2796	3.8390	3.7800	4.7200	2.5773	2.5869	2.5262	2.4569	1.9945
1980	2.6939	4.7234	3.9565	5.1238	3.1884	2.8790	2.9276	3.0675	3.1442

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1960	1.3076	0.5632	0.5759	1.7645	1.7814	0.4786	0.9678	1.4876	0.7877
1961	1.3343	0.5905	0.5807	1.6816	1.7297	0.4956	1.0000	1.4990	0.7285
1962	1.3306	0.5823	0.6040	1.7228	1.7419	0.4979	0.9682	1.3813	0.7311
1963	1.2523	0.5856	0.5856	1.6932	1.6128	0.6419	0.9024	1.3266	0.7420
1964	1.2088	0.6205	0.5644	1.5563	1.2413	0.4687	0.9677	1.2427	0.7445
1965	1.1601	0.6347	0.5739	1.5780	1.3636	0.5046	0.9376	1.2250	0.7543
1966	1.0885	0.6555	0.5590	1.4351	1.5050	0.5780	0.8712	1.3014	0.7510
1967	0.9146	0.6222	0.4824	1.2308	1.4094	0.4853	0.7826	1.2160	0.7432
1968	0.8951	0.6367	0.4862	1.3170	1.3685	0.4728	0.7836	1.1886	0.7341
1969	0.9351	0.6436	0.5120	1.2679	1.3832	0.4716	0.7516	1.1930	0.7491
1970	0.9618	0.6932	0.5283	1.2995	1.4179	0.4762	0.7559	1.1899	0.7634
1971	0.9827	0.7650	0.5870	1.3535	1.4563	0.4996	0.7727	1.2653	0.8202
1972	1.0694	0.8070	0.5831	1.4797	1.4891	0.5259	0.8003	1.3016	0.8783
1973	1.1365	0.8730	0.7579	1.5420	1.5532	0.5244	0.8724	1.3698	0.9250
1974	1.2764	1.0000	0.8116	1.7060	1.8622	0.7158	1.0575	1.5896	1.0770
1975	1.7458	1.1062	0.9940	1.9182	2.3284	0.7965	1.5475	2.0015	1.3438
1976	2.0396	1.3533	1.1540	2.3800	1.4891	1.0714	1.7726	2.3494	1.6216
1977	3.0463	1.6714	1.3940	3.0200	3.0975	1.6762	2.1982	2.8545	2.0704
1978	2.7422	1.9380	1.5380	2.9900	3.3739	2.0007	2.4047	3.0523	2.2404
1979	3.0924	2.4719	2.0039	3.3500	3.9943	2.3037	2.7984	3.4924	2.5997
1980	3.7114	3.4324	2.2855	4.1278	4.5958	2.9267	3.8748	4.2669	3.3155

TABLE B-6 NATURAL GAS PRICES: COMMERCIAL SECTOR
(\$/1000 CU FT)

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1960	0.4109	1.4372	0.8581	1.5348	0.9979	0.6360	0.7073	0.5051	0.5446
1961	0.5054	1.4738	0.8700	1.4626	1.0733	0.5649	0.5603	0.5279	0.5233
1962	0.5105	1.4680	0.8697	1.4450	1.0228	0.5832	0.5676	0.5439	0.5299
1963	0.4928	1.4391	0.8860	1.4716	0.9921	0.6007	0.6716	0.5768	0.5384
1964	0.5017	1.4038	0.8936	1.5054	1.0493	0.5827	0.7002	0.5606	0.5531
1965	0.5060	1.3530	0.8967	1.5619	0.9834	0.6044	0.7074	0.5422	0.5569
1966	0.5199	1.3940	0.9060	1.6143	0.9880	0.5977	0.7110	0.5450	0.5399
1967	0.4770	1.3859	0.9004	1.4749	0.9395	0.6120	0.6944	0.4389	0.5600
1968	0.4739	1.3537	0.8993	1.4529	0.9533	0.5842	0.6906	0.4436	0.5669
1969	0.5047	1.2719	0.9162	1.4618	0.8684	0.6051	0.6874	0.4582	0.5791
1970	0.5223	1.2782	0.9650	1.4737	0.8887	0.6359	0.7127	0.4539	0.5912
1971	0.5345	1.3117	1.0064	1.6188	0.9848	0.6686	0.7678	0.4956	0.6362
1972	0.5647	1.4325	1.0862	1.8223	1.0079	0.6929	0.8587	0.5242	0.7089
1973	0.6399	1.4525	1.1524	1.8853	1.0170	0.7661	0.9097	0.5553	0.7950
1974	0.7513	1.7100	1.2786	2.1305	1.1294	1.1346	0.9780	0.7085	0.9299
1975	0.9352	1.8629	1.7087	2.7460	1.2527	0.9935	1.1265	1.0501	1.5186
1976	1.1660	2.3729	1.7210	3.3868	1.4819	1.1324	1.4313	1.4215	1.5266
1977	1.4805	3.0768	2.3073	3.4610	2.1152	1.4440	2.0736	1.7967	1.7304
1978	1.6849	3.3870	2.3897	3.2799	2.4566	1.7245	2.0397	2.1961	1.6682
1979	3.4176	3.7180	2.9505	3.0885	2.7838	2.2296	2.4686	2.8448	2.3333
1980	2.2995	5.1099	3.5689	5.1051	3.2101	2.7198	2.9999	2.9928	5.5939

YEAR	VA	VT	WA	WI	WV	WY	US
1960	1.0700	0.0	1.2873	1.0227	0.6897	0.4609	0.7753
1961	1.0820	0.0	0.9848	1.0103	0.6932	0.4401	0.7782
1962	1.0832	0.0	1.0031	0.9442	0.6923	0.4260	0.7792
1963	1.1388	0.0	1.0601	1.0231	0.6989	0.4302	0.7856
1964	1.1293	0.0	1.1506	0.9935	0.6909	0.4305	0.7705
1965	1.0879	0.0	1.2472	0.9628	0.6999	0.4336	0.7726
1966	1.0630	1.6238	1.1106	0.9230	0.6974	0.4340	0.7650
1967	0.9284	1.3969	1.1507	0.8050	0.6876	0.4272	0.7351
1968	0.9870	1.4892	1.0898	0.8473	0.7045	0.4309	0.7318
1969	0.9687	1.4330	1.1016	0.8030	0.7043	0.4341	0.7389
1970	0.9619	0.1472	1.1051	0.8339	0.7059	0.4365	0.7689
1971	0.9963	1.5318	1.1280	0.9518	0.7335	0.4767	0.8210
1972	1.1027	1.6754	1.1616	0.9977	0.7458	0.4983	0.8778
1973	1.1283	1.7428	1.2462	1.1077	0.7616	0.5287	0.9438
1974	1.3044	1.9299	1.3311	1.1229	0.8922	0.5920	1.0724
1975	1.7167	2.1705	1.8191	1.3122	1.2200	0.6732	1.3497
1976	1.8954	3.0600	2.2302	1.7116	1.5027	0.7819	1.6414
1977	2.4268	3.1300	2.6735	2.0969	4.6113	1.1975	2.0288
1978	2.6421	3.4300	2.8485	2.3479	2.1533	1.6549	2.2345
1979	3.1337	3.6400	3.4626	2.6900	2.6897	2.3742	2.7545
1980	3.7667	6.1510	4.8341	3.4608	3.3396	2.6532	3.3928

TABLE B-7 NATURAL GAS PRICES: INDUSTRIAL SECTOR
(\$/1000 CU FT)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1960	0.1230	0.3169	0.3542	0.3040	0.3677	0.2153	0.9010	0.8120	0.4770
1961	0.1635	0.3169	0.2164	0.3170	0.3803	0.2277	1.0050	0.9089	0.4620
1962	0.6966	0.3177	0.2388	0.3544	0.3930	0.2262	1.0245	0.9932	0.2849
1963	0.4136	0.3099	0.2334	0.3977	0.3831	0.2210	0.9241	1.0032	0.4827
1964	0.3529	0.3062	0.2386	0.3194	0.3752	0.2310	0.9721	0.9162	0.4687
1965	0.2659	0.2805	0.2466	0.3255	0.4531	0.2487	0.9159	0.8953	0.4850
1966	0.3377	0.3016	0.2447	0.3367	0.3494	0.2363	0.9154	0.7936	0.3333
1967	0.3044	0.3161	0.2587	0.3888	0.3386	0.2368	0.7295	0.4626	0.3490
1968	0.3285	0.3209	0.2804	0.3639	0.3606	0.2632	1.0023	0.4320	0.6840
1969	0.2967	0.3231	0.2624	0.4198	0.3752	0.2637	1.0180	0.4359	0.5660
1970	0.3722	0.3350	0.2796	0.4367	0.3897	0.2734	1.0440	0.4452	0.5860
1971	0.4453	0.3910	0.3033	0.4668	0.4229	0.2973	1.1570	0.4686	0.6300
1972	0.4238	0.4237	0.3424	0.4758	0.4561	0.3219	1.1730	0.4871	0.7560
1973	0.4751	0.4753	0.3925	0.4908	0.5152	0.3628	1.2590	0.5037	0.8130
1974	0.5013	0.5792	0.4747	0.5800	0.6639	0.4738	1.7300	0.7676	1.0100
1975	0.6003	0.7453	0.6609	0.7569	1.0364	0.6382	2.2470	0.8876	1.3919
1976	0.6931	1.0934	0.8015	0.9190	1.3718	0.7792	2.6743	1.7700	1.4611
1977	0.8896	1.3202	1.1978	1.3049	1.8246	1.0747	2.9709	2.5400	2.4719
1978	0.8448	1.6268	1.1280	1.6230	2.0178	1.2822	3.0829	2.7800	2.5099
1979	0.9667	2.2034	1.2088	2.1504	2.6054	1.6873	3.2929	2.6400	2.0068
1980	0.4498	2.5117	2.2044	2.6851	3.5675	2.5541	4.1708	2.4560	2.8043

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	0.3269	0.3940	0.0	0.3130	0.3820	0.3824	0.3889	0.1980	0.3378
1961	0.3489	0.3380	0.0	0.3080	0.3870	0.3085	0.3969	0.2101	0.3415
1962	0.3472	0.3432	0.0	0.3093	0.3934	0.4064	0.3847	0.2163	0.3462
1963	0.3386	0.3636	0.0	0.3135	0.3985	0.4010	0.3906	0.2183	0.3297
1964	0.3163	0.3541	0.0	0.3099	0.4020	0.3905	0.3783	0.2267	0.3442
1965	0.3397	0.3559	0.0	0.3646	0.3415	0.3728	0.3882	0.2400	0.3368
1966	0.3403	0.5343	0.0	0.3585	0.3778	0.4077	0.4131	0.2296	0.3271
1967	0.3220	0.5216	0.0	0.3344	0.4230	0.4586	0.4710	0.3279	0.4336
1968	0.3751	0.3700	0.0	0.3700	0.4320	0.4594	0.4220	0.2360	0.4305
1969	0.3566	0.3780	0.0	0.3110	0.4440	0.4597	0.4180	0.2371	0.4372
1970	0.3895	0.4130	0.0	0.3670	0.4460	0.5016	0.4740	0.2653	0.4761
1971	0.4413	0.5170	0.0	0.3930	0.4890	0.5607	0.5110	0.2769	0.5289
1972	0.4940	0.5350	0.0	0.4640	0.5630	0.6367	0.5570	0.3231	0.5401
1973	0.5722	0.6120	0.0	0.5180	0.5890	0.6818	0.5900	0.3464	0.5690
1974	0.7431	0.7000	0.0	0.6000	0.7100	0.8099	0.7000	0.4159	0.6540
1975	0.9986	0.8430	0.0	0.7790	1.1704	1.2227	0.9019	0.5389	0.7457
1976	1.0348	1.1049	0.0	1.0089	1.5448	1.4637	1.0799	0.7872	1.0685
1977	1.1284	1.4119	0.0	1.3509	1.8849	1.8519	1.4759	0.9600	1.3948
1978	1.1554	1.7570	0.0	1.6590	2.2415	2.1234	1.6879	1.1301	1.5703
1979	2.1417	2.2379	0.0	1.9500	2.5339	2.6236	2.1690	1.4997	1.9579
1980	2.7016	2.8419	0.0	2.5161	3.7669	3.1679	2.6041	2.2593	2.6638

TABLE B-7 NATURAL GAS PRICES: INDUSTRIAL SECTOR
(\$/1000 CU FT)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	0.1949	0.7280	0.8119	0.0	0.5480	0.3140	0.3026	0.2614	0.2343
1961	0.1984	0.7570	0.8179	0.0	0.5475	0.3080	0.3030	0.2723	0.2264
1962	0.2104	0.7707	0.7820	0.0	0.5239	0.3044	0.3050	0.2641	0.2178
1963	0.2171	0.6735	0.7718	0.0	0.5308	0.3096	0.3066	0.2439	0.2254
1964	0.2028	0.8904	0.7679	0.0	0.5258	0.3452	0.3048	0.2524	0.2675
1965	0.2045	0.6606	0.6904	0.0	0.5194	0.3467	0.2581	0.2524	0.2738
1966	0.2382	0.6958	0.6982	1.5104	0.5076	0.3488	0.3032	0.2298	0.2711
1967	0.2040	0.7070	0.7099	2.0485	0.5162	0.3860	0.3480	0.2947	0.2929
1968	0.1791	0.9260	0.6619	1.4646	0.5168	0.3738	0.3577	0.2699	0.2878
1969	0.2094	0.9760	0.6727	1.3975	0.5203	0.3960	0.3710	0.2708	0.3039
1970	0.2287	1.0400	0.6841	1.3950	0.5307	0.4180	0.4030	0.2927	0.3129
1971	0.2567	1.0700	0.7184	1.5308	0.5621	0.4470	0.4340	0.3241	0.3259
1972	0.2987	1.2340	0.7514	1.6537	0.6290	0.4850	0.4440	0.3331	0.3485
1973	0.3439	1.2980	0.7755	1.8097	0.6910	0.5440	0.4610	0.4250	0.4025
1974	0.5455	1.7100	1.1812	1.9609	0.9050	0.6400	0.5800	0.5563	0.5440
1975	0.6540	2.2920	1.3777	2.4451	1.2341	0.8360	0.8019	0.6985	0.9053
1976	0.9073	2.4995	1.6200	2.8100	1.5303	1.1289	0.9960	1.0183	0.9436
1977	0.9159	2.5960	2.1800	3.3300	1.8115	1.1229	1.4499	1.4066	1.4582
1978	0.8100	3.0079	2.5900	3.1400	1.9010	1.2359	1.4604	1.4641	1.5520
1979	0.8792	3.2339	2.1600	3.4900	2.2467	1.4529	1.9449	2.1209	1.5565
1980	1.2694	4.1538	3.2510	4.2905	2.8968	2.4989	2.6561	2.6517	2.7677

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1960	0.2666	0.4890	0.2115	0.7810	0.5060	0.1392	0.6100	0.6621	0.5331
1961	0.2655	0.4740	0.1472	0.8600	0.5290	0.1348	0.6200	0.6447	0.5352
1962	0.2736	0.4822	0.1541	0.9057	0.5611	0.1399	0.6200	0.6559	0.5342
1963	0.2654	0.4503	0.1857	0.8571	0.5332	0.1681	0.6250	0.6044	0.5355
1964	0.2736	0.5080	0.1984	0.8515	0.4726	0.1703	0.4452	0.5670	0.5389
1965	0.2778	0.4672	0.2101	0.9299	0.5042	0.1628	0.4569	0.6561	0.5347
1966	0.2817	0.4044	0.1675	0.9862	0.5501	0.1969	0.4433	0.6044	0.5311
1967	0.4910	0.1588	0.2845	1.3407	0.5630	0.1932	0.4719	0.9388	0.5314
1968	0.4960	0.1873	0.3004	0.9578	0.5690	0.2004	0.4571	0.6348	0.5203
1969	0.5060	0.1875	0.3123	0.9139	0.6860	0.1954	0.4930	0.6410	0.5295
1970	0.5120	0.1826	0.3165	0.9121	0.6960	0.2085	0.5620	0.6941	0.5778
1971	0.5350	0.1906	0.3624	1.0000	0.7390	0.2492	0.5740	0.7701	0.6142
1972	0.5970	0.2373	0.4842	1.0818	0.8110	0.2624	0.7149	0.8560	0.6283
1973	0.6820	0.2256	0.4350	1.1851	0.8700	0.2850	0.7930	0.9077	0.6712
1974	0.8700	0.3024	0.5351	1.2819	1.1100	0.4170	0.8800	1.1086	0.8083
1975	1.3630	0.4146	0.6809	1.5998	1.6989	0.5084	1.1340	1.4922	1.1076
1976	1.6836	0.5301	0.8433	2.6100	2.1779	0.5621	1.4274	1.5731	1.3910
1977	2.3680	0.7152	1.0189	3.1800	2.4189	0.9727	1.9679	1.9164	1.8932
1978	1.9609	0.7531	1.0982	2.6000	3.3889	1.1162	1.7799	2.2700	2.0029
1979	2.6759	1.1042	1.2230	3.2100	3.1860	1.1803	2.3309	2.7183	2.3272
1980	3.3602	2.2144	2.0442	3.9311	3.7479	1.9843	2.9800	3.5026	3.0518

TABLE B-7 NATURAL GAS PRICES: INDUSTRIAL SECTOR
(\$/1000 CU FT)

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1960	0.1562	0.3940	0.5218	0.8580	0.4090	0.2910	0.3287	0.1515	0.2724
1961	0.1582	0.3990	0.5289	0.8350	0.4030	0.3010	0.2250	0.2599	0.2752
1962	0.1814	0.4076	0.5267	0.8264	0.4199	0.3090	0.3327	0.1589	0.2761
1963	0.1861	0.4034	0.5004	0.7678	0.4059	0.3098	0.3103	0.1631	0.2652
1964	0.1785	0.4036	0.5162	0.7723	0.4264	0.3214	0.2951	0.1800	0.2560
1965	0.1799	0.4023	0.5206	0.7928	0.4054	0.3373	0.3159	0.1740	0.2674
1966	0.2014	0.4189	0.5186	0.8399	0.3987	0.3170	0.3277	0.1937	0.2751
1967	0.1857	0.4256	0.5425	0.8118	0.4170	0.3220	0.3677	0.1670	0.2857
1968	0.1999	0.4200	0.5343	0.8286	0.4150	0.3099	0.3690	0.1927	0.2880
1969	0.1982	0.4280	0.5493	0.8160	0.4190	0.3150	0.3689	0.1908	0.2882
1970	0.2070	0.4840	0.5852	0.8659	0.4630	0.3260	0.3886	0.1977	0.2946
1971	0.2208	0.5130	0.6497	0.9579	0.4940	0.3509	0.4441	0.2265	0.3284
1972	0.2347	0.5450	0.7190	1.1481	0.5480	0.3820	0.4947	0.2372	0.3582
1973	0.2320	0.6990	0.7588	1.3370	0.6480	0.4070	0.4959	0.2785	0.3851
1974	0.3944	0.8900	0.9377	1.7300	0.7200	0.7200	0.6087	0.4537	0.4517
1975	0.5705	0.9608	1.0946	2.1290	1.0280	0.6019	0.7502	0.8074	0.6572
1976	0.7474	1.7674	1.3473	2.2909	1.2939	0.7260	1.1716	1.0754	0.9063
1977	1.0733	2.1095	1.9086	2.9470	1.5970	0.9639	1.4927	1.2116	1.1226
1978	1.2390	2.5155	2.0149	2.7999	1.8490	1.5978	1.6117	1.2361	1.3367
1979	1.3745	2.9014	2.4959	2.6689	2.4680	2.0368	2.1020	1.6309	1.5354
1980	1.8570	4.3994	3.0616	4.5424	2.9903	2.3444	2.5782	2.1073	2.1052

YEAR	VA	VT	WA	WI	WV	WY	US
1960	0.4679	0.0	0.3980	0.6050	0.3895	0.1446	0.2709
1961	0.4649	0.0	0.3890	0.6030	0.3971	0.1499	0.2691
1962	0.4793	0.0	0.3927	0.5885	0.3871	0.1367	0.2797
1963	0.4735	0.0	0.4011	0.5792	0.3944	0.1312	0.2812
1964	0.4713	0.0	0.3649	0.4949	0.5845	0.1526	0.2863
1965	0.4550	0.0	0.3898	0.5181	0.3808	0.1670	0.2780
1966	0.4639	1.1206	0.3730	0.5071	0.4053	0.1824	0.3010
1967	0.4834	0.9172	0.3960	0.4760	0.4505	0.2010	0.3118
1968	0.4926	0.6556	0.3900	0.5260	0.4440	0.2024	0.3139
1969	0.4992	0.6249	0.3950	0.5350	0.4530	0.2075	0.3229
1970	0.5059	0.6238	0.4010	0.5520	0.4531	0.2189	0.3420
1971	0.5671	0.6842	0.4410	0.5770	0.5129	0.2361	0.3766
1972	0.5944	0.7395	0.4720	0.6360	0.5490	0.2584	0.4126
1973	0.6571	0.8093	0.5310	0.6790	0.6271	0.2691	0.4587
1974	0.9268	0.8763	0.8100	0.7700	0.7420	5.6150	0.6487
1975	1.0976	1.0384	1.3440	1.0530	0.9998	0.4624	0.8821
1976	1.4518	1.5700	1.7420	1.3980	1.2800	0.6130	1.1130
1977	1.9283	1.7300	2.1229	1.7809	1.9855	0.9242	1.3462
1978	2.1402	2.7800	2.5087	2.0349	1.8614	1.0922	1.5245
1979	2.3216	3.2400	2.9235	2.4280	2.4424	1.5989	2.2295
1980	3.0314	4.8829	4.3025	3.1437	2.9659	2.1562	2.4217

TABLE B-8 NATURAL GAS PRICES: TRANSPORTATION SECTOR
(\$/1000 CU FT)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.0	0.1925	0.1822	0.1540	0.2461	0.1684	0.3485	0.2166	0.0
1968	0.0	0.1950	0.1805	0.1518	0.2426	0.1719	0.3842	0.2048	0.0
1969	0.0	0.1960	0.1810	0.1530	0.3010	0.1700	0.2951	0.2113	0.0
1970	0.2570	0.1990	0.1900	0.1660	0.2870	0.1798	0.3200	0.2133	0.0
1971	0.2710	0.2200	0.2190	0.1710	0.3490	0.1890	0.3182	0.2440	0.0
1972	0.2790	0.2300	0.2390	0.1850	0.3520	0.2081	0.3500	0.2571	0.0
1973	0.2824	0.2620	0.2560	0.2162	0.3940	0.2198	0.4000	0.2782	0.0
1974	0.3000	0.2900	0.3000	0.2800	0.4500	0.2699	0.5000	0.3035	0.0
1975	0.3511	0.3210	0.4290	0.3550	0.4720	0.4909	0.5814	0.4208	0.0
1976	0.5733	0.4660	0.5214	0.4382	0.6870	0.7172	0.5926	0.5401	0.0
1977	0.5846	0.7150	0.7060	0.6360	0.7260	1.0021	1.5000	0.7408	0.0
1978	0.5027	1.0990	0.8599	0.7520	0.8480	1.3120	2.6000	0.8707	2.0000
1979	0.1375	1.3250	1.1169	1.2900	1.7450	1.5339	2.5254	1.3786	1.3330
1980	0.7287	1.8379	1.7786	1.6249	2.1614	2.1714	2.7606	0.0	0.0

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.1860	0.1890	0.0	0.1688	0.2091	0.2070	0.1960	0.1645	0.3310
1968	0.1849	0.0	0.0	0.1608	0.2085	0.1971	0.2084	0.1670	0.2740
1969	0.1950	0.1940	0.0	0.1660	0.2150	0.2010	0.2120	0.1710	0.2290
1970	1.9800	0.1960	0.0	0.1730	0.2229	0.2070	0.2142	0.1780	0.2010
1971	0.2069	0.2181	0.0	0.1860	0.2369	0.2230	0.2320	0.1900	0.2200
1972	0.2440	0.2260	0.0	0.2000	0.2799	0.2290	0.2499	0.2329	0.2379
1973	0.2550	0.2451	0.0	0.2166	0.3373	0.2664	0.2662	0.2404	0.2516
1974	0.3398	0.2800	0.0	0.2600	0.4400	0.2900	0.2800	0.2700	0.2900
1975	0.3629	0.3199	0.0	0.3370	0.5961	0.5410	0.3802	0.3300	0.3700
1976	0.4912	0.3555	0.0	0.5217	0.7230	0.5830	0.4524	0.4064	0.4814
1977	0.7185	0.6651	0.0	0.7310	1.6480	0.8300	0.8081	0.5120	0.5980
1978	0.8496	0.8951	0.0	0.9870	1.9520	0.9780	0.8561	0.6120	0.5700
1979	1.3539	1.3501	0.0	1.1740	2.4519	1.1110	1.2080	1.1447	1.2580
1980	1.7709	2.1027	0.0	1.5511	3.9341	1.7846	1.7314	1.5747	1.6666

TABLE B-8 NATURAL GAS PRICES: TRANSPORTATION SECTOR
(\$/1000 CU FT)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.1870	0.2342	0.1996	0.5873	0.2700	0.2649	0.2032	0.1853	0.1160
1968	0.1916	0.2632	0.1812	0.0	0.2655	0.2204	0.2000	0.1962	0.1085
1969	0.0529	0.2508	0.1870	0.0	0.2690	0.2219	0.2020	0.1950	0.1054
1970	0.1970	0.3164	0.1901	0.0	0.2740	0.2460	0.2090	0.1980	0.1088
1971	0.2120	0.3557	0.2121	0.0	0.2810	0.2520	0.2310	0.2150	0.1158
1972	0.2300	0.3683	0.2207	0.0	0.2940	0.2649	0.2470	0.2289	0.1657
1973	0.2440	0.3828	0.2396	0.0	0.3460	0.2751	0.2633	0.2391	0.2099
1974	0.2800	0.3991	0.2645	0.0	0.4600	0.3297	0.2899	0.2800	0.2295
1975	0.3880	0.4209	0.3758	0.0	0.5640	0.5531	0.3911	0.3550	0.4161
1976	0.4971	0.6178	0.4935	0.0	0.7120	0.6039	0.4763	0.4552	0.4628
1977	0.8070	0.6756	0.6783	0.0	0.9871	1.2359	0.7970	0.7330	0.7332
1978	0.9590	0.9384	0.8392	0.0	1.6660	1.2810	0.8710	0.8840	0.8338
1979	1.3010	1.2381	1.2270	0.0	1.5980	2.1970	1.1980	1.2810	1.1581
1980	1.8055	1.6504	2.4110	2.6275	2.9842	1.2608	1.7148	1.7474	1.2948

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.1849	0.2727	0.1434	0.3670	0.2486	0.1551	0.4583	0.2634	0.2230
1968	0.1858	0.1667	0.1454	0.0	0.2109	0.1529	0.0	0.2286	0.2279
1969	0.1971	0.1667	0.1500	0.0	0.2122	0.1540	0.0	0.2491	0.2270
1970	0.1879	0.2000	0.1550	0.0	0.2227	0.1660	0.0	0.2339	0.2290
1971	0.2120	0.2000	0.1640	0.0	0.2342	0.1700	0.0	0.2470	0.2671
1972	0.2250	0.2471	0.1779	0.0	0.2414	0.1809	0.0	0.2640	0.2769
1973	0.2348	0.2857	0.1870	0.0	0.2485	0.2160	0.0	0.2726	0.3031
1974	0.2500	0.3125	0.2400	0.0	0.3097	0.3000	0.0	0.3097	0.3200
1975	0.3071	0.5082	0.3240	0.0	0.3325	0.3850	0.0	0.3381	0.4340
1976	0.4612	0.5696	0.4182	0.0	0.4084	0.4140	0.0	0.5418	0.5240
1977	0.6249	0.7465	0.5750	0.0	0.6263	0.6840	0.0	0.8511	0.8689
1978	0.8419	0.9528	0.7260	0.0	0.8489	0.7920	0.0	1.0651	1.0100
1979	1.3000	1.5490	1.1030	0.0	1.2870	1.3560	0.0	1.4350	1.3710
1980	1.9630	1.8129	1.3578	2.7308	1.9615	1.7800	3.2647	1.9495	1.9161

TABLE B-8 NATURAL GAS PRICES: TRANSPORTATION SECTOR
(\$/1000 CU FT)

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.1512	0.2228	0.2502	0.7273	0.1972	0.2400	0.2015	0.1580	0.2095
1968	0.1540	0.2054	0.0774	0.3333	0.1956	0.2174	0.1966	0.1677	0.2090
1969	1.6500	0.2161	0.2440	0.3889	0.2149	0.2000	0.1970	0.1670	0.2105
1970	0.1780	0.2200	0.2520	0.3333	0.2070	0.2000	0.1980	0.1730	0.2143
1971	0.1800	0.3206	0.2900	0.3750	0.2240	0.2000	0.2160	0.1840	0.2197
1972	0.1919	0.2790	0.3069	0.3750	0.2389	0.3000	0.2300	0.1890	0.2785
1973	0.2209	0.3451	0.3232	0.4211	0.2571	0.3333	0.2443	0.2040	0.2913
1974	0.2600	0.4699	0.4000	0.4091	0.2699	0.3125	0.2800	0.2800	0.3390
1975	0.2775	0.6120	0.5370	0.5455	0.4900	0.5000	0.3650	0.3680	0.5367
1976	0.3630	0.8160	0.5992	0.7500	0.5220	0.5484	0.4851	0.5110	0.6700
1977	0.5810	1.7660	0.9160	1.6667	0.5881	0.6296	0.7340	0.6790	1.4009
1978	0.6610	1.9814	0.9400	2.0833	0.8509	0.7813	0.8860	0.7270	1.7249
1979	0.9910	2.5320	1.4240	2.0556	1.5169	1.2035	1.2640	1.1880	1.8842
1980	1.4522	4.4087	1.8902	2.9216	2.0212	1.7105	1.7252	1.5612	2.9424

YEAR	VA	VT	WA	WI	WV	WY	US
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.1989	0.4593	0.2178	0.2558	0.3396	0.1406	0.1982
1968	0.1970	0.0	0.2084	0.2270	0.3326	0.1648	0.2317
1969	0.1960	0.0	0.2160	0.2289	0.0	0.1649	0.2093
1970	0.2000	0.0	0.2180	0.2450	0.3210	0.1691	0.2095
1971	0.2220	0.0	0.2360	0.2510	0.3340	0.1740	0.3033
1972	0.2679	0.0	0.2810	0.2640	0.3810	0.1760	0.2326
1973	0.2780	0.0	0.3279	0.2720	0.3937	0.2381	0.2523
1974	0.3098	0.0	0.4401	0.3000	0.4499	0.2400	0.3003
1975	0.3760	0.0	0.6470	0.4420	0.5910	0.5150	0.5341
1976	0.5349	0.0	0.7791	0.5396	0.7470	0.6548	0.5084
1977	0.8129	0.0	1.6731	1.7441	1.1190	0.6927	0.7694
1978	1.4901	0.0	1.9239	2.0930	1.2930	1.3580	0.8974
1979	1.4049	0.0	2.3820	1.6099	0.8550	1.5871	1.3216
1980	2.0862	0.0	3.9222	4.5039	2.2368	2.0521	1.8471

TABLE B-9 NATURAL GAS PRICES: ELECTRIC UTILITY SECTOR
(\$/1000 CU FT)

YEAR	AK	AL	AR	AZ	CA	CD	CT	DC	DE
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.3849	0.2240	0.2650	0.3050	0.3465	0.2180	0.3144	0.3199	0.2949
1968	0.3589	0.2415	0.2537	0.2139	0.3435	0.2190	0.3141	0.3375	0.3249
1969	0.3290	0.2590	0.2590	0.3360	0.3320	0.2260	0.3379	0.2788	0.3371
1970	0.3750	0.2730	0.2550	0.3680	0.3460	0.2340	0.3469	0.3906	0.3790
1971	0.4270	0.3220	0.2830	0.4180	0.3640	0.2630	0.3908	0.5014	0.4770
1972	0.4330	0.3521	0.3140	0.4190	0.4000	0.3080	0.4333	0.3947	0.4840
1973	0.0	0.3678	0.3518	0.4398	0.4424	0.3137	0.0	0.0	0.6979
1974	0.0	0.8715	0.4012	0.5636	0.6205	0.4160	0.0	0.0	1.8250
1975	0.0	1.1082	0.6085	0.7699	1.1029	0.5364	0.0	0.0	1.0755
1976	0.0	1.6954	0.7869	0.8582	1.6373	0.7108	0.0	0.0	1.1361
1977	0.3358	1.7901	0.9928	1.1393	2.2047	0.9393	0.0	0.0	1.9132
1978	0.3564	2.1405	1.1133	1.4179	2.2963	1.1372	0.0	0.0	1.8907
1979	1.1026	2.3438	1.7475	2.1679	2.5698	1.6997	0.0	0.0	2.8639
1980	0.3665	2.9642	2.2122	2.5495	3.6953	2.5907	0.0	0.0	3.5133

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.2790	0.2766	0.0	0.2670	0.0	0.2610	0.2680	0.2730	0.2658
1968	0.3242	0.2670	0.0	0.2921	0.0	0.2780	0.2787	0.2750	0.2722
1969	0.3610	0.2850	0.0	0.2730	0.0	0.3100	0.2930	0.2710	0.2761
1970	0.3650	0.2940	0.0	0.2760	0.0	0.3600	0.3490	0.2950	0.2920
1971	0.3990	0.3220	0.0	0.3190	0.0	0.3900	0.3870	0.3335	0.3340
1972	0.4030	0.4650	0.0	0.3800	0.0	0.4390	0.4260	0.3770	0.3650
1973	0.4643	0.4791	0.0	0.4185	0.0	0.6116	0.4648	0.2891	0.3362
1974	0.6082	0.5998	0.0	0.5049	0.9147	0.7793	0.5599	0.3476	0.5396
1975	0.7509	0.7275	0.0	0.6811	1.4516	1.1556	0.8079	0.4718	0.6890
1976	0.8529	1.0125	0.0	0.9266	1.5995	1.4035	1.0750	0.7015	0.8450
1977	0.9044	1.3331	0.0	1.3027	2.0915	1.8412	1.3219	0.9925	1.0976
1978	1.0687	1.7421	0.0	1.6576	2.2377	2.7818	1.6372	1.1923	1.0572
1979	1.3108	2.6640	0.0	1.9987	2.9535	2.7705	2.1708	1.4112	1.6965
1980	1.5534	2.6477	0.0	2.4266	3.8983	3.2617	2.5187	1.7077	2.2108

TABLE B-9 NATURAL GAS PRICES: ELECTRIC UTILITY SECTOR
(\$/1000 CU FT)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.2120	0.3200	0.2732	0.0	0.2460	0.2510	0.2290	0.2630	0.2390
1968	0.2120	0.2939	0.2763	0.0	0.3280	0.2480	0.2380	0.2614	0.2377
1969	0.2170	0.3360	0.3170	0.0	0.3740	0.2560	0.2460	0.2690	0.2349
1970	0.2180	0.3379	0.3279	0.0	0.4243	0.2590	0.2640	0.2740	0.2780
1971	0.2412	0.4360	0.3504	0.7462	0.4740	0.2950	0.3060	0.3060	0.3302
1972	0.2740	0.4521	0.3674	0.9723	0.4860	0.3970	0.3680	0.3210	0.3329
1973	0.3145	0.5397	0.0	0.0	0.6116	0.4346	0.3355	0.4120	0.2964
1974	0.4280	1.4612	0.7443	0.0	1.0160	0.4758	0.4458	0.5560	0.2992
1975	0.6542	1.3285	1.1122	0.0	1.2731	0.6337	0.5875	0.8509	0.3974
1976	0.8142	1.5428	1.6514	0.0	1.5728	0.8121	0.7722	1.3021	0.4211
1977	0.9399	1.8897	2.1144	0.0	1.7524	1.0913	1.1193	1.3883	0.7038
1978	1.1537	1.8889	1.9083	0.0	1.8368	1.3921	1.1465	1.4426	0.7565
1979	1.5244	1.7093	1.8402	0.0	2.0176	1.7171	1.4930	1.8006	2.1286
1980	2.0937	3.3970	2.5584	0.0	2.8059	1.9740	2.1711	2.1484	4.0582

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.2918	0.2609	0.2560	0.0	0.2970	0.2720	0.3900	0.4303	0.3659
1968	0.3140	0.3548	0.2568	0.0	0.3030	0.2757	0.2558	0.3760	0.3591
1969	0.3440	0.3467	0.2670	0.0	0.3380	0.2790	0.4020	0.3810	0.3860
1970	0.3810	0.3646	0.2680	0.0	0.4010	0.3230	0.4130	0.3850	0.4020
1971	0.4800	0.4000	0.3120	0.4816	0.4740	0.3650	0.4530	0.4430	0.4960
1972	0.5020	0.4024	0.3700	0.4233	0.4890	0.3690	0.4710	0.4720	0.5020
1973	0.5197	0.0	0.4179	0.0	0.5490	0.3632	0.5374	0.5131	0.5864
1974	0.9403	0.0	0.4889	1.1883	0.7259	0.5209	0.7616	0.7019	0.7375
1975	1.4294	0.6652	0.6239	1.0202	0.9805	0.7405	1.1676	0.8887	1.2471
1976	3.4441	0.4918	0.8081	1.8178	1.4832	1.0134	1.5164	1.0859	1.3081
1977	4.2329	0.0	0.9653	0.0	1.8459	1.5283	1.8235	1.4237	1.4487
1978	3.0737	0.0	1.1085	0.0	2.0403	1.7312	1.6098	1.5116	1.6614
1979	3.0177	0.0	1.4372	3.0721	2.6595	2.1865	2.3221	2.3218	1.9898
1980	3.2602	0.0	1.7266	0.0	3.1151	2.5383	2.7759	2.7614	2.9540

TABLE R-9 NATURAL GAS PRICES: ELECTRIC UTILITY SECTOR
(\$/1000 CU FT)

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.1960	0.3988	0.3561	0.3698	0.3010	0.2611	0.2140	0.2610	0.2770
1968	0.1860	0.3849	0.3318	0.3532	0.3030	0.2417	0.2100	0.2052	0.2799
1969	0.2020	0.3685	0.3400	0.3657	0.3080	0.3031	0.2330	0.2200	0.2741
1970	0.1980	0.3842	0.4280	0.3976	0.3790	0.3341	0.2550	0.2510	0.2881
1971	0.2140	0.4353	0.4970	0.5020	0.4450	0.3531	0.2750	0.2860	0.3028
1972	0.2490	0.4510	0.4991	0.5135	0.4870	0.3621	0.3280	0.2880	0.3249
1973	0.2800	0.5882	0.0	0.5781	0.5346	0.4015	0.3151	0.2790	0.2974
1974	0.4049	0.7778	1.5769	0.8947	0.7735	0.4720	0.0	0.4589	0.3882
1975	0.6143	1.3162	1.5036	1.1681	0.7299	0.6417	0.0	0.7800	0.5813
1976	1.0222	1.7022	1.6762	0.0	1.0335	0.8561	0.0	1.0389	0.8878
1977	1.3300	2.0181	2.1148	0.0	0.0	1.2022	0.0	1.2491	1.0345
1978	1.4501	2.3811	2.5806	0.0	1.7919	1.5351	0.0	1.4154	1.2577
1979	1.5794	3.4201	3.0572	2.4934	2.2079	1.8952	0.0	1.6386	1.5441
1980	1.8247	4.2776	3.6702	0.0	2.4815	1.9419	0.0	1.9074	1.9100

YEAR	VA	VT	WA	WI	WV	WY	US
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.2851	0.0	0.0	0.2920	0.2816	0.1950	0.2796
1968	0.2844	0.0	0.0	0.3360	0.2857	0.2057	0.2058
1969	0.2860	0.0	0.0	0.3540	0.3136	0.2129	0.2713
1970	0.2979	0.0	0.0	0.4280	0.3277	0.2288	0.2916
1971	0.3711	0.3131	0.0	0.4460	0.3455	0.2882	0.3226
1972	0.4171	0.3424	0.0	0.4490	0.3829	0.3010	0.3404
1973	0.3991	0.4446	0.0	0.4714	0.3257	0.0	0.3451
1974	0.5609	0.5533	0.0	0.5822	0.2814	0.5713	0.4953
1975	0.9837	1.1819	0.0	0.8403	0.8002	0.0	0.7680
1976	1.1535	1.7746	0.0	1.2088	0.9605	2.1758	1.0526
1977	1.6516	2.0240	0.0	1.7735	2.0559	1.9487	1.3127
1978	1.8561	2.2443	0.0	1.9953	1.8093	2.2965	1.4449
1979	2.2643	2.6521	2.7676	2.3054	2.8373	2.9812	1.7812
1980	2.4928	4.4979	3.5363	2.9571	2.9851	3.9017	2.2717

TABLE R-10 METALLURGICAL COAL PRICES: INDUSTRIAL SECTOR
(\$/TON)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.0	11.3800	0.0	0.0	11.6100	11.6100	0.0	0.0	0.0
1971	0.0	12.4600	0.0	0.0	12.5000	12.5000	0.0	0.0	0.0
1972	0.0	14.1600	0.0	0.0	13.8200	13.8200	0.0	0.0	0.0
1973	0.0	17.2400	0.0	0.0	16.2600	16.2600	0.0	0.0	0.0
1974	0.0	33.9400	0.0	0.0	34.6500	34.6500	0.0	0.0	0.0
1975	0.0	40.2700	0.0	0.0	37.1100	37.1100	0.0	0.0	0.0
1976	0.0	40.0500	0.0	0.0	40.5500	40.5500	0.0	0.0	0.0
1977	0.0	55.2300	0.0	0.0	42.3800	42.3800	0.0	0.0	0.0
1978	0.0	48.6900	0.0	0.0	45.6700	45.6700	0.0	0.0	0.0
1979	0.0	48.2800	0.0	0.0	46.6300	46.6300	0.0	0.0	0.0
1980	0.0	52.5600	0.0	0.0	52.8800	52.8800	0.0	0.0	0.0
YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.0	0.0	0.0	0.0	0.0	11.1600	11.8400	0.0	11.8400
1971	0.0	0.0	0.0	0.0	0.0	13.4100	14.6700	0.0	11.7300
1972	0.0	0.0	0.0	0.0	0.0	14.9400	15.7300	0.0	15.2800
1973	0.0	0.0	0.0	0.0	0.0	16.1400	18.3900	0.0	17.7100
1974	0.0	0.0	0.0	0.0	0.0	32.8300	37.0300	0.0	32.8300
1975	0.0	0.0	0.0	0.0	0.0	39.8000	47.2500	0.0	42.8700
1976	0.0	0.0	0.0	0.0	0.0	38.4800	40.6400	0.0	44.6700
1977	0.0	0.0	0.0	0.0	0.0	42.2900	45.1800	0.0	47.0400
1978	0.0	0.0	0.0	0.0	0.0	49.7100	54.1500	0.0	50.6200
1979	0.0	0.0	0.0	0.0	0.0	48.9600	50.2500	0.0	47.0200
1980	0.0	0.0	0.0	0.0	0.0	51.7500	57.0500	0.0	48.5200
YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.0	0.0	15.6300	0.0	10.2200	14.1500	11.8400	0.0	0.0
1971	0.0	0.0	18.9400	0.0	17.7100	18.9900	11.7300	0.0	0.0
1972	0.0	0.0	20.5200	0.0	19.3800	19.1600	15.2800	0.0	0.0
1973	0.0	0.0	22.5900	0.0	21.3000	21.2900	17.7100	0.0	0.0
1974	0.0	0.0	42.7000	0.0	44.2900	38.6800	32.8300	0.0	0.0
1975	0.0	0.0	57.2700	0.0	55.4300	48.3700	42.8700	0.0	0.0
1976	0.0	0.0	56.6500	0.0	53.4600	48.7000	44.6700	0.0	0.0
1977	0.0	0.0	57.2100	0.0	53.7600	48.4100	47.0400	0.0	0.0
1978	0.0	0.0	62.6700	0.0	56.2200	65.2900	50.6200	0.0	0.0
1979	0.0	0.0	62.2000	0.0	59.0200	59.0200	47.0200	0.0	0.0
1980	0.0	0.0	63.9000	0.0	60.7400	48.5200	48.5200	0.0	0.0

TABLE B-10 METALLURGICAL COAL PRICES: INDUSTRIAL SECTOR
(\$/TON)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.0	0.0	0.0	0.0	15.6300	0.0	0.0	15.6300	11.3500
1971	0.0	0.0	0.0	0.0	18.9400	0.0	0.0	18.9400	13.5200
1972	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5200	15.4900
1973	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5900	17.5600
1974	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.7000	34.8900
1975	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.2700	42.1200
1976	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.6500	40.9000
1977	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.2100	41.1000
1978	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.6700	47.1700
1979	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.2000	47.3000
1980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.9000	53.5400
YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.0	0.0	11.7600	0.0	0.0	0.0	11.8400	11.8400	11.6100
1971	0.0	0.0	12.3700	0.0	0.0	0.0	11.7300	11.7300	12.5000
1972	0.0	0.0	14.8800	0.0	0.0	0.0	15.2800	15.2800	13.8200
1973	0.0	0.0	17.9500	0.0	0.0	0.0	17.7100	17.7100	16.2600
1974	0.0	0.0	36.4400	0.0	0.0	0.0	32.8300	32.8300	34.6500
1975	0.0	0.0	40.6900	0.0	0.0	0.0	42.8700	42.8700	37.1100
1976	0.0	0.0	43.4500	0.0	0.0	0.0	44.6700	44.6700	40.5500
1977	0.0	0.0	43.4300	0.0	0.0	0.0	47.0400	47.0400	42.3800
1978	0.0	0.0	52.9600	0.0	0.0	0.0	50.6200	50.6200	45.6700
1979	0.0	0.0	50.3700	0.0	0.0	0.0	47.0200	47.0200	46.6300
1980	0.0	0.0	58.9300	0.0	0.0	0.0	48.5700	48.5200	52.8800
YEAR	VA	VT	WA	WI	WV	WY	US		
1970	0.0	0.0	0.0	14.1500	10.7600	0.0	12.2100		
1971	0.0	0.0	0.0	18.9900	12.5200	0.0	14.0000		
1972	0.0	0.0	0.0	18.1600	13.5000	0.0	15.7300		
1973	0.0	0.0	0.0	21.2900	15.1000	0.0	18.3200		
1974	0.0	0.0	0.0	38.6800	30.4500	0.0	36.4900		
1975	0.0	0.0	0.0	48.3700	40.5900	0.0	44.2100		
1976	0.0	0.0	0.0	48.7000	43.9300	0.0	44.1600		
1977	0.0	0.0	0.0	48.4100	45.2500	0.0	46.2400		
1978	46.4600	0.0	0.0	65.2900	46.4600	0.0	52.0500		
1979	47.6900	0.0	0.0	59.0200	47.6900	0.0	50.6900		
1980	49.7600	0.0	0.0	60.7400	49.7600	0.0	56.3300		

TABLE B-11 STEAM COAL PRICES: RESIDENTIAL SECTOR
(\$/TON)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.0	7.4698	0.0	0.0	0.0	7.4984	12.5112	11.0240	11.0240
1971	0.0	9.8228	0.0	0.0	0.0	18.3167	22.4000	30.0000	30.0000
1972	0.0	23.8500	0.0	0.0	0.0	21.4750	14.9000	35.0000	35.0012
1973	0.0	31.4135	0.0	0.0	0.0	39.7769	28.2858	37.2781	41.5617
1974	0.0	48.6354	0.0	0.0	0.0	28.0398	20.5129	59.2889	59.2889
1975	0.0	47.0774	0.0	0.0	0.0	40.7024	27.6580	45.1159	70.3710
1976	0.0	49.1530	0.0	0.0	0.0	36.3732	27.3291	45.2208	45.2208
1977	0.0	50.5113	0.0	0.0	0.0	40.4593	44.8822	67.0971	67.0971
1978	0.0	72.8284	0.0	0.0	0.0	42.8697	55.0287	71.4495	74.2072
1979	0.0	59.4849	0.0	0.0	0.0	52.8616	35.5702	72.6013	72.6011
1980	0.0	66.5066	0.0	0.0	0.0	65.3197	39.4978	83.4935	83.4946

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.0	10.7328	0.0	9.1494	8.7178	8.4760	7.1708	8.8010	6.2374
1971	0.0	19.3991	0.0	24.8500	23.0000	30.9000	22.4500	17.2120	19.0000
1972	0.0	22.9060	0.0	30.0000	0.0	31.4950	26.8900	17.7804	22.0012
1973	0.0	26.0080	0.0	31.1076	21.4183	29.9467	31.4755	31.6175	32.3187
1974	0.0	34.7396	0.0	69.4792	36.2284	44.3564	59.7294	29.7768	49.1317
1975	0.0	83.3663	0.0	95.1357	45.8515	54.3676	64.9276	34.8177	54.5107
1976	0.0	39.3224	0.0	69.1419	49.5217	57.2632	65.2097	34.4071	55.4200
1977	0.0	57.2964	0.0	56.8943	43.2236	57.4974	61.5999	44.8571	60.4795
1978	0.0	73.0791	0.0	80.9761	62.6750	59.5412	64.3463	47.6330	62.2572
1979	0.0	62.4169	0.0	65.0959	0.0	77.2775	66.9353	47.2907	57.2671
1980	0.0	69.9866	0.0	76.6505	0.0	90.3470	73.1783	41.7286	61.9930

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.0	12.5112	11.0240	0.0	10.0906	9.7422	7.2514	0.0	5.6862
1971	0.0	22.4000	30.0000	0.0	33.8500	0.0	22.6500	0.0	23.3506
1972	0.0	14.9000	35.0000	0.0	39.0000	0.0	22.8000	0.0	0.0
1973	0.0	28.2858	37.2781	0.0	37.3953	30.3426	20.6534	0.0	39.1076
1974	0.0	20.5129	59.2889	0.0	71.7550	84.3676	36.6398	0.0	27.7917
1975	0.0	27.6580	45.1159	0.0	79.0999	69.9623	44.3803	0.0	27.4618
1976	0.0	27.3291	45.2208	0.0	73.9015	77.1374	42.2155	0.0	53.5768
1977	0.0	44.8822	67.0971	0.0	84.1855	75.6413	50.2600	0.0	29.6534
1978	0.0	55.0287	71.4495	0.0	83.9344	97.2716	51.0592	0.0	32.3403
1979	0.0	35.5702	64.0534	0.0	81.8610	86.2615	57.1769	0.0	53.9692
1980	0.0	39.4978	72.5394	0.0	83.3897	90.5938	53.0152	0.0	62.2267

TABLE B-11 STEAM COAL PRICES: RESIDENTIAL SECTOR
(\$/TON)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	11.4504	7.1968	9.9840	12.5112	12.5658	0.0	8.7178	12.9870	8.3122
1971	22.7500	30.0000	0.0	22.4000	24.3048	0.0	23.0000	42.8800	23.2000
1972	28.7500	0.0	0.0	14.9000	28.2438	0.0	0.0	33.5000	27.8500
1973	36.3091	26.0717	31.1076	28.2858	35.8582	0.0	21.4183	39.9979	30.9240
1974	65.3849	26.2201	39.7024	20.5129	60.3581	0.0	39.7024	53.3031	67.0545
1975	53.1256	79.6884	0.0	27.6580	53.9429	0.0	45.8515	71.6166	67.6283
1976	56.1983	94.1772	57.5090	27.3291	88.4754	0.0	72.7464	72.5007	67.4486
1977	70.5315	40.9619	64.4585	44.8822	63.5613	0.0	83.6829	76.2695	71.6205
1978	66.2684	44.3739	85.7394	55.0287	68.1077	0.0	85.7394	75.0847	68.3784
1979	61.9984	50.2002	63.2189	35.5702	70.7544	0.0	103.0640	71.9473	68.1081
1980	70.0930	55.3888	67.5324	39.4978	78.9124	0.0	115.5400	78.4632	76.2765
YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.0	0.0	8.9622	12.5112	12.5112	9.9840	6.6768	0.0	6.7054
1971	0.0	0.0	23.5000	22.4000	22.4000	0.0	22.3750	0.0	18.0000
1972	0.0	0.0	26.8583	14.9000	14.9000	0.0	24.8333	0.0	0.0
1973	0.0	0.0	29.1017	28.2858	28.2858	44.8765	27.6398	0.0	19.3785
1974	0.0	0.0	59.0573	20.5129	20.5129	91.3155	48.4287	0.0	26.3442
1975	0.0	0.0	66.4070	27.6580	27.6580	93.1741	45.0341	0.0	34.3273
1976	0.0	0.0	58.7999	27.3291	27.3291	90.9330	45.2044	0.0	39.3224
1977	0.0	0.0	59.4073	44.8822	44.8822	75.4738	49.8831	0.0	42.9723
1978	0.0	0.0	62.1020	55.0287	55.0287	82.4176	47.2987	0.0	36.0381
1979	0.0	0.0	61.3694	35.5702	71.0977	83.2619	50.2027	0.0	0.0
1980	0.0	0.0	67.3792	39.4978	77.7905	98.8107	62.7072	0.0	0.0
YEAR	VA	VT	WA	WI	WV	WY	US		
1970	10.8108	12.5112	8.7178	7.2514	10.9174	4.1782	9.0279		
1971	30.0000	22.4000	23.0000	8.6736	38.5750	16.7000	23.9865		
1972	36.5000	14.9000	0.0	10.1353	36.0833	0.0	25.6331		
1973	41.5304	28.2858	30.9036	25.2430	45.0751	26.0717	31.3936		
1974	68.9992	20.5129	37.9654	38.2136	75.0511	24.6486	56.3732		
1975	70.4527	27.6580	29.4234	31.3850	81.0672	25.5003	61.4680		
1976	82.6999	27.3291	49.1530	31.4579	74.6691	36.5371	60.0478		
1977	85.9446	44.8822	63.3276	45.4853	79.2672	30.1560	62.3412		
1978	93.8692	55.0287	63.9285	38.1064	90.4669	29.2065	63.8292		
1979	84.4948	35.5702	64.3641	40.5421	79.4252	35.0890	58.2388		
1980	91.1183	39.4978	77.0738	45.8215	91.2352	44.4840	71.4090		

TABLE B-12 STEAM COAL PRICES: INDUSTRIAL SECTOR
(\$/TON)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	13.9436	7.9746	0.0	12.5911	8.0717	7.4750	17.3768	9.0178	8.6354
1971	8.8580	9.1930	0.0	13.1783	12.6582	8.7020	18.8679	11.1224	10.7400
1972	14.0558	9.8022	0.0	14.3922	13.3560	8.0160	19.6596	11.5513	11.1689
1973	10.1547	10.3823	9.2301	14.3349	13.1870	7.9257	23.5374	13.6128	11.3101
1974	18.7314	19.1400	18.5863	21.4299	24.2100	17.6608	36.8032	39.4991	28.5118
1975	24.2644	24.5000	21.8598	21.8549	21.1700	19.0691	47.3500	36.9156	29.8989
1976	23.1879	28.3700	31.5500	22.1111	25.6200	19.1397	38.1000	25.5251	28.1401
1977	0.0	30.6892	28.3019	25.6071	28.2976	20.8567	40.9380	26.0775	28.8250
1978	0.0	37.5000	32.8400	24.3400	26.9300	21.8000	39.5400	29.7100	27.9800
1979	0.0	36.7200	34.1800	31.2200	35.0700	21.4600	44.1300	38.2400	37.4100
1980	0.0	41.2800	40.4300	32.8000	38.8600	24.1800	46.8500	40.3200	40.9100

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	6.0379	11.8736	0.0	9.6227	10.5597	10.4564	12.1746	9.3341	11.6717
1971	8.0000	10.9134	0.0	9.8054	10.3687	9.6175	9.5703	10.3806	8.9449
1972	7.7731	12.8896	0.0	10.5200	10.6842	11.5648	13.1049	10.0269	12.6416
1973	9.0718	12.8463	0.0	11.6359	12.7192	12.0110	13.3896	9.2223	13.0049
1974	21.4182	28.9600	0.0	17.5100	22.6629	18.5400	21.4000	19.8900	18.3700
1975	12.5200	29.3996	0.0	26.3000	24.7193	25.9100	29.7000	18.9200	29.8500
1976	28.1200	28.7400	0.0	27.2000	25.5064	28.0400	25.3700	24.9700	27.4500
1977	32.3241	31.3931	0.0	27.6784	25.9337	30.4817	28.0945	22.2753	28.4960
1978	39.0600	36.0500	0.0	29.9700	23.8800	34.6300	38.3700	25.5100	34.6000
1979	36.5000	36.4400	0.0	30.0300	25.8200	34.3800	34.1500	25.6600	38.8000
1980	40.4100	39.0300	0.0	34.2600	30.0000	37.9800	35.0600	28.4400	40.5200

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.0	18.3572	5.2199	21.9730	12.8340	8.9622	10.9178	3.9396	16.6041
1971	0.0	14.9700	9.6292	20.0000	12.9950	12.7767	9.4053	4.4278	13.3690
1972	0.0	21.2601	7.7534	24.0440	14.3382	9.4504	11.7425	5.6154	16.8548
1973	0.0	26.1566	7.8564	24.3360	14.6769	9.0991	12.2927	6.1752	16.9002
1974	0.0	41.2400	18.4800	36.4400	23.9200	13.5800	17.6100	18.2589	26.3835
1975	0.0	62.5000	25.0400	45.6840	34.8000	16.4200	25.1100	21.5493	26.7347
1976	0.0	43.8000	22.9100	46.6740	32.0800	20.9600	26.7700	24.5736	26.8536
1977	30.3030	49.0798	23.3302	47.3576	32.5187	23.9745	27.6098	25.2399	26.7638
1978	33.3300	51.8000	28.4500	47.2200	36.3400	26.7000	32.7800	37.2600	22.6100
1979	26.0500	49.3400	27.4200	44.7800	37.8500	22.3600	32.4800	30.2600	25.3000
1980	31.8400	54.9600	29.2600	55.4700	43.5800	29.4800	34.7900	36.1500	38.8900

TABLE B-12 STEAM COAL PRICES: INDUSTRIAL SECTOR
(\$/TON)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	13.4633	9.1826	6.8310	21.9729	7.8738	12.6303	13.0785	12.7583	10.5986
1971	14.0295	8.5470	8.3916	26.5714	12.3665	12.7490	12.0846	13.2154	9.7047
1972	13.9846	9.3014	7.7942	24.0445	11.2518	12.7688	12.3197	13.5104	11.9379
1973	14.7676	8.3310	8.2326	24.3362	11.9246	12.7889	12.0401	13.4347	12.6835
1974	30.5900	17.4164	11.4100	38.7406	25.5800	22.1787	21.0603	25.5500	22.4700
1975	35.9600	18.1868	15.5700	45.6840	30.4600	22.5794	21.9578	32.2000	29.7200
1976	30.7900	18.3968	19.8800	46.6740	22.7900	22.9697	24.1576	32.4000	28.0900
1977	33.8216	19.2418	22.1914	47.3576	45.4545	23.3946	24.8624	32.7954	29.7895
1978	40.3300	21.3100	35.7200	47.6100	32.3800	21.5300	27.2400	35.4900	33.0700
1979	39.4700	16.7700	27.0800	47.0000	44.1300	22.7900	30.9000	38.4300	29.8600
1980	42.2900	22.6300	31.5000	53.8600	47.2000	32.6000	35.0600	41.3400	31.1800

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	12.7865	8.8583	7.6571	0.0	12.8885	14.8457	7.1434	12.7080	4.7187
1971	15.8730	9.2879	10.0725	0.0	13.1105	15.5846	10.0733	11.7232	8.8853
1972	9.5603	8.0336	9.3659	0.0	14.1222	15.8155	8.9577	10.6491	5.6226
1973	12.9713	17.5410	9.8187	0.0	14.8697	15.1199	9.3295	11.3263	6.4137
1974	19.1764	14.9600	20.9300	0.0	33.6100	25.0770	24.5400	19.9783	17.2900
1975	19.2114	28.5723	29.3200	0.0	36.0400	24.0074	27.0900	19.6452	17.4400
1976	26.0259	30.7721	27.0000	0.0	32.0000	24.4100	23.9100	18.8028	21.6100
1977	27.2731	31.4769	27.0437	0.0	32.6587	24.5966	26.6845	16.7670	23.8095
1978	24.5300	26.1700	30.1800	0.0	43.6200	25.9300	31.0463	16.0080	19.9000
1979	24.3700	29.5300	31.2400	0.0	38.2300	22.5600	31.1500	9.2900	22.9500
1980	30.2300	36.5000	32.2900	0.0	40.2200	28.2700	33.5300	14.5500	23.8900

YEAR	VA	VT	WA	WI	WV	WY	US
1970	8.9396	7.3627	12.0530	17.2651	7.6234	7.8377	10.8889
1971	12.6402	7.4074	12.9450	12.4556	8.7915	4.4843	10.7195
1972	9.7973	9.9555	13.2290	18.5319	9.2596	8.1742	11.9511
1973	10.3043	11.9618	23.0420	18.8681	9.4721	8.5018	12.2888
1974	31.1100	33.8291	31.7990	24.1100	21.6300	17.6579	22.6679
1975	34.4300	43.0511	33.8950	33.1600	31.3500	17.9849	29.3636
1976	30.3000	40.9580	35.8960	32.5600	27.9600	18.6145	28.0609
1977	32.2277	31.5970	35.5850	34.2813	29.8760	19.3132	29.5125
1978	37.2900	47.6100	27.9900	38.1900	29.4900	20.0700	34.2500
1979	37.0600	40.5900	34.2700	41.6600	32.9000	21.2800	32.2900
1980	34.5000	53.4200	48.7400	45.3800	33.4400	24.3100	34.7200

TABLE B-13 STEAM COAL PRICES: ELECTRIC UTILITY SECTOR
(\$/TON)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	11.5700	6.0300	0.0	3.8900	0.0	5.5700	10.5700	9.6200	9.6200
1971	9.0473	7.9200	0.0	4.7800	0.0	6.0400	12.8300	12.8100	12.8100
1972	11.7400	8.8000	0.0	6.6200	0.0	6.3900	14.0300	13.4600	13.4600
1973	11.9891	9.3222	0.0	6.5331	0.0	6.5082	19.9075	16.4901	14.2436
1974	14.2000	28.5043	0.0	3.6938	0.0	7.3561	26.4213	45.9290	27.0305
1975	19.9371	26.3331	0.0	4.3379	0.0	8.9905	27.9700	37.5557	29.0908
1976	16.9400	21.7123	0.0	4.7263	0.0	8.8543	34.6400	0.0	25.0555
1977	18.8300	26.5679	0.0	10.0251	0.0	11.4633	41.0000	0.0	27.2153
1978	24.7440	33.3297	16.8839	10.3744	0.0	12.3161	46.0000	0.0	31.7446
1979	22.7700	31.4058	19.1143	16.0301	0.0	13.9077	46.5600	0.0	33.0035
1980	30.6300	34.5089	22.7221	18.7730	0.0	16.2262	41.2937	0.0	37.9774

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	6.9800	9.0200	0.0	6.6800	0.0	6.2600	5.4600	6.7300	4.6600
1971	7.7200	10.1300	0.0	7.7800	0.0	7.1000	6.1600	7.4500	5.5500
1972	9.6100	10.5600	0.0	8.0400	0.0	7.9400	6.8700	7.7800	6.1300
1973	12.7109	10.5475	0.0	11.9702	0.0	11.5728	9.2686	10.6997	9.0242
1974	23.6710	37.2664	0.0	15.7769	0.0	14.4713	15.3674	14.6453	25.4076
1975	31.1590	28.0482	0.0	19.2388	0.0	18.1457	16.9922	19.9862	21.3586
1976	25.7068	24.9842	0.0	18.7125	0.0	19.6332	16.7218	21.4463	17.9077
1977	30.4501	29.0170	0.0	19.4602	0.0	23.7356	20.3060	20.7265	23.3196
1978	32.5428	34.6529	0.0	20.0603	0.0	28.3347	24.9531	26.1733	28.7725
1979	34.9959	34.9989	0.0	18.0365	0.0	32.6962	25.0545	21.3326	25.8210
1980	39.3012	38.4569	0.0	22.0643	0.0	36.8854	27.0683	15.6475	27.7583

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.0	8.7500	9.6200	0.0	8.6000	6.8700	5.1600	6.1800	3.0000
1971	0.0	9.6900	12.8100	0.0	10.1100	7.2500	6.1400	6.9200	3.2100
1972	0.0	13.1500	13.4600	0.0	10.8800	7.6100	6.4100	8.7200	3.3800
1973	0.0	23.2971	13.0761	0.0	12.6901	6.7911	10.0563	9.1600	3.3633
1974	0.0	28.7865	28.5541	0.0	31.7045	7.8876	11.2733	14.9900	4.0382
1975	0.0	0.0	28.8006	0.0	26.8818	9.7638	20.2901	27.5079	4.2682
1976	0.0	0.0	25.7407	0.0	26.4746	10.8768	20.8872	26.5808	4.5276
1977	0.0	0.0	27.0883	0.0	25.0645	12.0026	26.7405	29.9642	4.4325
1978	0.0	0.0	32.6099	0.0	28.6177	13.3291	33.2572	37.1328	5.1083
1979	0.0	0.0	33.5194	0.0	33.3107	17.1207	29.4724	33.3413	5.7455
1980	31.3565	52.0586	37.2794	0.0	32.4606	17.5888	22.1765	36.3044	7.0434

TABLE B-13 STEAM COAL PRICES: ELECTRIC UTILITY SECTOR
(\$/TON)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	9.8100	3.4700	8.4100	9.8900	11.1400	2.5500	7.8200	11.4600	6.5000
1971	10.7000	3.5200	9.1900	11.8200	13.4100	2.7300	7.3600	12.8500	7.7100
1972	10.6000	3.6500	9.8700	13.0300	16.2600	2.7600	6.6700	12.6000	8.5300
1973	12.5235	3.9300	10.1906	13.7900	20.0845	2.7694	6.2237	12.5747	10.2094
1974	37.7915	4.3200	15.5454	21.9700	34.8300	3.3617	6.3248	26.7693	25.8758
1975	24.0296	14.9856	20.4752	32.5500	48.5443	4.0367	6.8550	28.9686	22.7832
1976	20.7131	6.0600	21.7142	32.4410	42.4979	4.6283	8.4252	26.4341	19.8124
1977	30.9308	6.3000	25.5992	34.7146	41.0602	5.2722	9.5224	27.6285	21.1869
1978	33.6137	24.3814	23.0848	37.9696	45.0515	7.5874	13.1357	30.3837	25.7821
1979	31.2855	7.5600	21.4069	38.4108	46.4712	8.5090	20.6419	32.4631	27.9094
1980	34.9801	8.8600	21.3834	42.5801	49.8332	9.8828	23.1726	34.5958	32.4460

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.0	0.0	7.3000	0.0	9.5900	5.8000	5.2000	0.0	5.7300
1971	0.0	0.0	8.6300	0.0	11.9600	6.9200	7.1800	0.0	6.9300
1972	0.0	0.0	9.8900	0.0	11.4600	7.2700	7.9500	0.0	7.1000
1973	0.0	0.0	10.0357	0.0	12.6958	6.2156	7.8006	0.0	8.5074
1974	0.0	0.0	20.6686	0.0	35.3867	7.7144	22.6707	0.0	10.1586
1975	0.0	0.0	23.2865	0.0	24.6950	8.6913	22.2673	0.0	12.6849
1976	16.1835	0.0	21.7695	0.0	22.3975	10.5292	17.2612	16.5029	14.8793
1977	18.0741	0.0	21.7540	0.0	31.1141	9.6545	23.3134	17.4171	16.8486
1978	18.1860	0.0	25.9322	0.0	33.0876	9.8028	29.7370	20.7706	19.7160
1979	19.1049	34.6734	26.8627	0.0	33.7795	11.1846	25.2217	29.7139	23.1900
1980	20.2097	23.1495	29.1736	0.0	36.2945	13.4534	32.0704	30.6816	26.2600

YEAR	VA	VT	WA	WI	WV	WY	US
1970	9.5600	12.2500	0.0	8.8200	5.8200	2.3100	7.0800
1971	11.1400	15.3900	0.0	9.8000	7.3300	2.4400	8.1800
1972	10.8600	16.1800	0.0	10.7400	8.3000	2.8200	8.6900
1973	13.5227	19.2209	6.2823	13.1673	9.8725	3.3166	10.8398
1974	36.3445	38.7719	5.9800	17.9253	30.3863	3.6012	26.5791
1975	29.8542	52.7495	9.1557	15.1569	21.6639	4.0969	23.8159
1976	26.8004	0.0	12.1891	14.1433	20.9946	5.0511	21.3345
1977	36.3921	35.3886	11.7185	16.1477	23.0393	6.1102	24.9961
1978	41.3896	0.0	12.4902	19.0991	27.6659	6.6295	29.5580
1979	41.5730	45.9471	13.5472	20.7675	26.6026	8.2149	29.6440
1980	44.0568	0.0	15.5763	23.8796	30.0219	9.9880	33.0020

TABLE B-14 DISTILLATE FUEL PRICES: RESIDENTIAL SECTOR
(\$/GALLON)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.1843	0.1574	0.1224	0.1494	0.1494	0.1712	0.1950	0.1901	0.1901
1971	0.1955	0.1774	0.1325	0.1621	0.1621	0.1824	0.2062	0.1947	0.1947
1972	0.1965	0.1793	0.1341	0.1660	0.1660	0.1829	0.2071	0.1952	0.1952
1973	0.2281	0.1912	0.1742	0.2074	0.2074	0.2149	0.2400	0.2295	0.2295
1974	0.3626	0.2950	0.3121	0.3569	0.3569	0.3474	0.3971	0.3593	0.3593
1975	0.3881	0.3440	0.3304	0.3936	0.3881	0.3959	0.3940	0.3735	0.3735
1976	0.4309	0.3858	0.3524	0.4200	0.4309	0.4084	0.4211	0.4031	0.4031
1977	0.4498	0.4562	0.3928	0.4320	0.4498	0.4478	0.4727	0.4595	0.4595
1978	0.4729	0.4818	0.4091	0.4495	0.4315	0.4542	0.5056	0.4958	0.4958
1979	0.6550	0.6349	0.6301	0.6171	0.6249	0.6376	0.6946	0.6566	0.6566
1980	0.9421	0.9447	0.9016	0.9748	0.9269	0.9626	0.9946	1.0245	0.9734

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.1801	0.1721	0.1494	0.1605	0.1843	0.1625	0.1625	0.1568	0.1517
1971	0.2035	0.1925	0.1621	0.1690	0.1955	0.1753	0.1753	0.1709	0.1698
1972	0.2060	0.1946	0.1660	0.1698	0.1965	0.1765	0.1765	0.1720	0.1717
1973	0.2047	0.2237	0.2074	0.2153	0.2281	0.2225	0.2225	0.1917	0.1985
1974	0.3454	0.3484	0.3569	0.3377	0.3626	0.3561	0.3561	0.3366	0.3156
1975	0.3639	0.3578	0.3881	0.3550	0.3936	0.3559	0.3559	0.3625	0.3440
1976	0.3976	0.4013	0.4309	0.3821	0.4200	0.3897	0.3897	0.3962	0.3842
1977	0.4467	0.4545	0.4498	0.4427	0.4486	0.4438	0.4438	0.4464	0.4429
1978	0.4855	0.4875	0.4315	0.4580	0.4846	0.4709	0.4709	0.4577	0.4703
1979	0.6330	0.6407	0.6249	0.6145	0.6652	0.6476	0.6476	0.6813	0.6421
1980	0.9569	0.9573	0.9269	0.9420	0.9414	0.9635	0.9800	0.9505	0.9814

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.1265	0.1968	0.1901	0.1983	0.1664	0.1702	0.1568	0.1517	0.1712
1971	0.1386	0.2079	0.1947	0.2096	0.1772	0.1767	0.1709	0.1698	0.1822
1972	0.1404	0.2089	0.1952	0.2106	0.1784	0.1763	0.1720	0.1717	0.1829
1973	0.1639	0.2446	0.2295	0.2417	0.1889	0.2162	0.1917	0.1985	0.2149
1974	0.2908	0.3671	0.3593	0.3746	0.3253	0.3480	0.3366	0.3156	0.3474
1975	0.3089	0.3951	0.3735	0.3977	0.3483	0.3530	0.3625	0.3440	0.3959
1976	0.3522	0.4214	0.4031	0.4240	0.3845	0.3879	0.3962	0.3842	0.4084
1977	0.3818	0.4746	0.4595	0.4760	0.4536	0.4432	0.4464	0.4429	0.4662
1978	0.4086	0.5075	0.4958	0.5119	0.4826	0.4768	0.4577	0.4703	0.4673
1979	0.6361	0.6934	0.6566	0.6786	0.6870	0.6577	0.6813	0.6421	0.6651
1980	0.9449	0.9945	0.9727	0.9764	0.9871	0.9616	0.9505	0.9814	0.9577

TABLE B-14 DISTILLATE FUEL PRICES: RESIDENTIAL SECTOR
(\$/GALLON)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.1714	0.1712	0.1568	0.1983	0.1923	0.1203	0.1494	0.1884	0.1664
1971	0.1792	0.1822	0.1709	0.2096	0.2033	0.1268	0.1621	0.1997	0.1772
1972	0.1801	0.1829	0.1720	0.2106	0.2042	0.1300	0.1660	0.2007	0.1784
1973	0.2179	0.2149	0.1917	0.2417	0.2221	0.1696	0.2074	0.2399	0.1889
1974	0.3586	0.3474	0.3366	0.3746	0.4468	0.3353	0.3569	0.3270	0.3253
1975	0.3806	0.3530	0.3625	0.3977	0.3866	0.3936	0.3936	0.3907	0.3483
1976	0.4068	0.3879	0.3962	0.4240	0.4103	0.4199	0.4199	0.4118	0.3845
1977	0.4544	0.4432	0.4464	0.4760	0.4642	0.4458	0.4320	0.4682	0.4441
1978	0.4906	0.4673	0.4577	0.5119	0.5004	0.4101	0.4315	0.5060	0.4744
1979	0.6441	0.6651	0.6813	0.6786	0.6742	0.6276	0.6249	0.6763	0.6652
1980	0.9611	0.9606	0.9505	0.9856	0.9817	0.9370	0.9269	0.9845	0.9231

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.1171	0.1843	0.1809	0.2122	0.1724	0.1712	0.1517	0.1265	0.1519
1971	0.1190	0.1955	0.1940	0.2234	0.1868	0.1822	0.1698	0.1386	0.1672
1972	0.1190	0.1965	0.1952	0.2245	0.1880	0.1829	0.1717	0.1404	0.1717
1973	0.1491	0.2281	0.2276	0.2274	0.2134	0.2149	0.1985	0.1639	0.2037
1974	0.2998	0.3626	0.3647	0.3957	0.3364	0.3474	0.3156	0.2908	0.3527
1975	0.3301	0.3881	0.3895	0.3940	0.3798	0.3530	0.3440	0.3089	0.3959
1976	0.3583	0.4307	0.4069	0.4176	0.4067	0.3879	0.3842	0.3522	0.4084
1977	0.3993	0.4672	0.4613	0.4526	0.4559	0.4432	0.4429	0.3818	0.4476
1978	0.4196	0.4846	0.4945	0.4850	0.4810	0.4673	0.4703	0.4086	0.4566
1979	0.6496	0.6652	0.6655	0.6772	0.6159	0.6651	0.6421	0.6361	0.6214
1980	0.9101	0.9838	0.9613	0.9986	0.9503	0.9606	0.9814	0.8976	0.9530

YEAR	VA	VT	WA	WI	WV	WY	US
1970	0.1825	0.1983	0.1843	0.1625	0.1825	0.1712	0.1850
1971	0.1956	0.2096	0.1955	0.1753	0.1956	0.1822	0.1960
1972	0.1968	0.2106	0.1965	0.1765	0.1968	0.1829	0.1970
1973	0.2223	0.2417	0.2281	0.2225	0.2223	0.2149	0.2280
1974	0.3532	0.3746	0.3626	0.3561	0.3532	0.3474	0.3600
1975	0.3711	0.3977	0.3881	0.3559	0.3711	0.3959	0.3770
1976	0.4031	0.4240	0.4307	0.3897	0.4031	0.4084	0.4060
1977	0.4590	0.4760	0.4672	0.4438	0.4590	0.4478	0.4600
1978	0.4931	0.5119	0.4846	0.4709	0.4939	0.4516	0.4940
1979	0.6675	0.6786	0.6550	0.6476	0.6675	0.6394	0.6560
1980	0.9931	1.0235	1.0008	0.9517	0.9559	0.9598	0.9780

TABLE R-15 DISTILLATE FUEL PRICES: COMMERCIAL SECTOR
(\$/GALLON)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.1682	0.1313	0.1167	0.1400	0.1400	0.1440	0.1516	0.1550	0.1550
1971	0.1778	0.1450	0.1256	0.1508	0.1508	0.1497	0.1605	0.1583	0.1583
1972	0.1789	0.1459	0.1268	0.1542	0.1542	0.1494	0.1608	0.1582	0.1582
1973	0.2111	0.1577	0.1655	0.1943	0.1943	0.1830	0.1939	0.1846	0.1846
1974	0.3475	0.2597	0.2988	0.3429	0.3429	0.3155	0.3444	0.3145	0.3145
1975	0.3694	0.3065	0.3203	0.3739	0.3694	0.3475	0.3427	0.3341	0.3341
1976	0.4112	0.3447	0.3403	0.4024	0.4112	0.3666	0.3684	0.3608	0.3608
1977	0.4288	0.4044	0.3838	0.4143	0.4288	0.4031	0.4171	0.4168	0.4168
1978	0.4477	0.4225	0.3965	0.4315	0.4142	0.4136	0.4407	0.4427	0.4427
1979	0.6349	0.5939	0.6109	0.6078	0.6155	0.6025	0.6323	0.6092	0.6092
1980	0.9198	0.8711	0.8740	0.9498	0.9032	0.8999	0.8986	0.9171	0.8903

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.1502	0.1436	0.1400	0.1460	0.1682	0.1430	0.1430	0.1426	0.1351
1971	0.1663	0.1573	0.1508	0.1531	0.1778	0.1524	0.1524	0.1549	0.1494
1972	0.1676	0.1583	0.1542	0.1537	0.1789	0.1532	0.1532	0.1556	0.1506
1973	0.1688	0.1844	0.1943	0.1975	0.2111	0.1969	0.1969	0.1758	0.1756
1974	0.3040	0.2526	0.3429	0.3233	0.3475	0.3309	0.3309	0.3223	0.2907
1975	0.3202	0.3149	0.3694	0.3381	0.3739	0.3336	0.3336	0.3452	0.3193
1976	0.3502	0.3535	0.4112	0.3633	0.4024	0.3626	0.3626	0.3767	0.3572
1977	0.3995	0.4065	0.4288	0.4216	0.4303	0.4160	0.4160	0.4250	0.4098
1978	0.4257	0.4275	0.4142	0.4346	0.4588	0.4360	0.4360	0.4344	0.4321
1979	0.5921	0.5993	0.6155	0.6043	0.6449	0.6226	0.6226	0.6700	0.6147
1980	0.8823	0.8826	0.9032	0.9057	0.9180	0.9089	0.9195	0.9139	0.9310

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.1206	0.1529	0.1550	0.1541	0.1451	0.1435	0.1426	0.1265	0.1440
1971	0.1314	0.1619	0.1583	0.1632	0.1526	0.1466	0.1549	0.1388	0.1496
1972	0.1327	0.1622	0.1582	0.1635	0.1533	0.1459	0.1556	0.1397	0.1494
1973	0.1557	0.1976	0.1846	0.1953	0.1658	0.1837	0.1758	0.1637	0.1830
1974	0.2784	0.3184	0.3145	0.3249	0.3008	0.3159	0.3223	0.2778	0.3155
1975	0.2995	0.3436	0.3341	0.3460	0.3252	0.3246	0.3452	0.3065	0.3475
1976	0.3401	0.3686	0.3608	0.3709	0.3560	0.3556	0.3767	0.3432	0.3666
1977	0.3730	0.4188	0.4168	0.4200	0.4234	0.4074	0.4250	0.3926	0.4197
1978	0.3961	0.4423	0.4427	0.4461	0.4445	0.4307	0.4344	0.4124	0.4256
1979	0.6166	0.6312	0.6092	0.6177	0.6587	0.6245	0.6700	0.6006	0.6284
1980	0.9160	0.8977	0.8899	0.8901	0.9172	0.8986	0.9139	0.9049	0.8953

TABLE B-15 DISTILLATE FUEL PRICES: COMMERCIAL SECTOR
(\$/GALLON)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.1430	0.1440	0.1426	0.1541	0.1615	0.1165	0.1400	0.1582	0.1451
1971	0.1465	0.1496	0.1549	0.1632	0.1710	0.1222	0.1508	0.1680	0.1526
1972	0.1465	0.1494	0.1556	0.1635	0.1714	0.1251	0.1542	0.1685	0.1533
1973	0.1797	0.1830	0.1758	0.1953	0.1873	0.1638	0.1943	0.2023	0.1658
1974	0.3156	0.3155	0.3223	0.3249	0.3756	0.3254	0.3429	0.2749	0.3008
1975	0.3349	0.3246	0.3452	0.3460	0.3504	0.3739	0.3739	0.3542	0.3252
1976	0.3584	0.3556	0.3767	0.3709	0.3738	0.4023	0.4023	0.3751	0.3560
1977	0.4064	0.4074	0.4250	0.4200	0.4293	0.4276	0.4143	0.4330	0.4145
1978	0.4302	0.4256	0.4344	0.4461	0.4555	0.4014	0.4142	0.4606	0.4370
1979	0.6025	0.6284	0.6700	0.6177	0.6334	0.6143	0.6155	0.6354	0.6378
1980	0.8861	0.8980	0.9139	0.8944	0.9136	0.9172	0.9032	0.9162	0.8775
YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.1117	0.1682	0.1541	0.1649	0.1416	0.1440	0.1351	0.1206	0.1278
1971	0.1129	0.1778	0.1649	0.1739	0.1499	0.1496	0.1494	0.1314	0.1373
1972	0.1125	0.1789	0.1655	0.1743	0.1501	0.1494	0.1506	0.1327	0.1402
1973	0.1417	0.2111	0.1918	0.1837	0.1752	0.1830	0.1756	0.1557	0.1735
1974	0.2870	0.3475	0.3282	0.3432	0.2989	0.3155	0.2907	0.2784	0.3204
1975	0.3200	0.3694	0.3531	0.3427	0.3343	0.3246	0.3193	0.2995	0.3475
1976	0.3461	0.4111	0.3707	0.3653	0.3582	0.3556	0.3572	0.3401	0.3666
1977	0.3901	0.4453	0.4266	0.3994	0.4077	0.4074	0.4098	0.3730	0.4030
1978	0.4068	0.4588	0.4519	0.4227	0.4264	0.4256	0.4321	0.3961	0.4159
1979	0.6297	0.6449	0.6269	0.6165	0.5895	0.6284	0.6147	0.6166	0.5872
1980	0.8823	0.9524	0.9004	0.9004	0.8812	0.8980	0.9310	0.8702	0.8909
YEAR	VA	VT	WA	WI	WV	WY	US		
1970	0.1489	0.1541	0.1682	0.1430	0.1489	0.1440	0.1511		
1971	0.1591	0.1632	0.1778	0.1524	0.1591	0.1496	0.1602		
1972	0.1595	0.1635	0.1789	0.1532	0.1595	0.1494	0.1600		
1973	0.1789	0.1953	0.2111	0.1969	0.1789	0.1830	0.1886		
1974	0.3092	0.3249	0.3475	0.3309	0.3092	0.3155	0.3141		
1975	0.3319	0.3460	0.3694	0.3336	0.3319	0.3475	0.3401		
1976	0.3608	0.3709	0.4111	0.3626	0.3608	0.3666	0.3666		
1977	0.4163	0.4200	0.4453	0.4160	0.4163	0.4031	0.4159		
1978	0.4402	0.4461	0.4588	0.4360	0.4409	0.4113	0.4368		
1979	0.6193	0.6177	0.6349	0.6226	0.6193	0.6042	0.6256		
1980	0.9076	0.9123	0.9673	0.9013	0.8881	0.8973	0.9059		

TABLE B-16 DISTILLATE FUEL PRICES: INDUSTRIAL SECTOR
(\$/GALLON)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.0920	0.0958	0.0933	0.0991	0.1151	0.1147	0.1009	0.1686	0.1076
1971	0.0945	0.1031	0.0986	0.1019	0.1183	0.1140	0.1071	0.1712	0.1093
1972	0.0957	0.1031	0.0986	0.1032	0.1198	0.1128	0.1069	0.1702	0.1086
1973	0.1275	0.1134	0.1307	0.1375	0.1596	0.1488	0.1366	0.1958	0.1250
1974	0.3383	0.2386	0.2524	0.2210	0.2717	0.2498	0.3105	0.3444	0.2740
1975	0.3714	0.2826	0.2902	0.3031	0.3064	0.2721	0.3336	0.3578	0.3031
1976	0.3929	0.3086	0.2943	0.3295	0.3398	0.3010	0.3490	0.3807	0.3267
1977	0.4431	0.3705	0.3595	0.3436	0.3600	0.3057	0.3848	0.4493	0.3731
1978	0.4874	0.3974	0.3681	0.3624	0.3693	0.3298	0.4000	0.4193	0.3938
1979	0.6907	0.5056	0.4907	0.4605	0.5278	0.3909	0.5563	0.5148	0.5448
1980 (a)	1.0577	0.8344	0.7818	0.8206	0.8338	0.7516	0.8691	0.9662	0.8227
YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.0777	0.0807	0.1024	0.1045	0.1061	0.1054	0.1028	0.0891	0.1015
1971	0.0838	0.0862	0.1052	0.1079	0.1090	0.1088	0.1062	0.0952	0.1086
1972	0.0839	0.0862	0.1066	0.1078	0.1104	0.1087	0.1061	0.0952	0.1086
1973	0.0860	0.1021	0.1420	0.1461	0.1471	0.1474	0.1438	0.1135	0.1294
1974	0.2793	0.2245	0.3010	0.2843	0.3174	0.2995	0.3024	0.2548	0.2862
1975	0.3048	0.2848	0.3079	0.2988	0.3329	0.3229	0.3107	0.2952	0.3200
1976	0.3243	0.3038	0.2888	0.3288	0.3545	0.3424	0.3162	0.3171	0.3250
1977	0.3736	0.3721	0.3719	0.3576	0.3614	0.3850	0.3683	0.3562	0.3798
1978	0.4057	0.4105	0.3702	0.3857	0.4052	0.4074	0.3840	0.3867	0.4055
1979	0.5296	0.5042	0.5968	0.5275	0.5947	0.5335	0.5185	0.4792	0.5009
1980 (a)	0.8651	0.8867	0.8323	0.8220	0.9066	0.8725	0.8364	0.7942	0.9383
YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.0710	0.1030	0.1118	0.0870	0.0949	0.1148	0.1064	0.1089	0.1210
1971	0.0760	0.1093	0.1136	0.0924	0.0967	0.1140	0.1138	0.1164	0.1202
1972	0.0760	0.1090	0.1129	0.0922	0.0966	0.1129	0.1138	0.1164	0.1191
1973	0.0905	0.1408	0.1299	0.1167	0.1100	0.1489	0.1357	0.1388	0.1570
1974	0.2071	0.3109	0.2981	0.2674	0.2855	0.2895	0.2912	0.2405	0.2960
1975	0.2514	0.3271	0.3248	0.3193	0.3155	0.3310	0.3126	0.2352	0.3388
1976	0.2871	0.3438	0.3481	0.3536	0.3200	0.3426	0.3357	0.2683	0.3143
1977	0.3021	0.3829	0.3833	0.4021	0.3790	0.3824	0.3714	0.3767	0.3433
1978	0.2798	0.4036	0.4079	0.4283	0.4079	0.4110	0.3938	0.4021	0.3743
1979	0.4674	0.5607	0.5376	0.6171	0.5212	0.5558	0.4965	0.5741	0.6136
1980 (a)	0.7263	0.8738	0.8703	0.8624	0.8521	0.8888	0.8439	0.8322	0.8461

(a) Data for 1980 are provisional estimates, and will be updated when data from Annual Survey of Manufactures become available.

TABLE B-16 DISTILLATE FUEL PRICES: INDUSTRIAL SECTOR
(\$/GALLON)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.1009	0.1095	0.1020	0.0953	0.1053	0.1346	0.1334	0.0972	0.1098
1971	0.1007	0.1088	0.1090	0.1012	0.1119	0.1383	0.1371	0.1036	0.1119
1972	0.1001	0.1077	0.1090	0.1009	0.1116	0.1401	0.1389	0.1034	0.1118
1973	0.1249	0.1421	0.1300	0.1278	0.1234	0.1866	0.1850	0.1256	0.1273
1974	0.2750	0.3038	0.2567	0.3036	0.3007	0.3467	0.3107	0.3017	0.3083
1975	0.3040	0.3779	0.3114	0.3183	0.3274	0.3601	0.3241	0.3276	0.3200
1976	0.3331	0.4152	0.3319	0.3245	0.3331	0.3830	0.3471	0.3367	0.3412
1977	0.3783	0.3812	0.3505	0.3760	0.3821	0.4257	0.3898	0.3669	0.3821
1978	0.3971	0.4138	0.3821	0.4014	0.3971	0.4526	0.4167	0.4079	0.4002
1979 (a)	0.5168	0.6829	0.4638	0.4013	0.5442	0.6796	0.6495	0.5436	0.5369
1980	0.8463	0.9622	0.8071	0.8455	0.8670	1.0146	0.9057	0.9412	0.8843

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.0751	0.1105	0.0974	0.0993	0.0802	0.1006	0.1006	0.0904	0.0887
1971	0.0745	0.1136	0.1036	0.1050	0.0824	0.1000	0.1076	0.0967	0.0912
1972	0.0736	0.1150	0.1033	0.1048	0.0820	0.0990	0.1076	0.0967	0.0923
1973	0.0941	0.1532	0.1179	0.1171	0.0992	0.1306	0.1283	0.1152	0.1230
1974	0.2303	0.2810	0.3010	0.2981	0.2862	0.3229	0.2769	0.2610	0.2714
1975	0.3038	0.3174	0.3300	0.3243	0.2943	0.3567	0.2933	0.2795	0.3024
1976	0.3267	0.3412	0.3350	0.3093	0.3195	0.3757	0.3133	0.3429	0.3381
1977	0.3694	0.3826	0.3867	0.3905	0.3752	0.3912	0.3805	0.3693	0.3569
1978	0.3863	0.3868	0.3957	0.4148	0.4029	0.4381	0.3998	0.3936	0.3595
1979 (a)	0.5934	0.5184	0.5300	0.5761	0.5058	0.6039	0.5062	0.5874	0.5052
1980	0.8567	0.8723	0.8644	0.8630	0.8486	0.9561	0.9070	0.8507	0.8268

YEAR	VA	VT	WA	WI	WV	WY	US
1970	0.0827	0.1168	0.1010	0.1056	0.0981	0.1104	0.0999
1971	0.0879	0.1240	0.1038	0.1090	0.1043	0.1098	0.1042
1972	0.0876	0.1237	0.1051	0.1089	0.1040	0.1086	0.1035
1973	0.0969	0.1566	0.1400	0.1477	0.1150	0.1432	0.1278
1974	0.2590	0.3081	0.2262	0.2948	0.2762	0.3358	0.2766
1975	0.3036	0.3307	0.2843	0.3095	0.3145	0.3493	0.3064
1976	0.3176	0.3714	0.3140	0.3367	0.3333	0.3722	0.3298
1977	0.3695	0.4026	0.3795	0.3812	0.3979	0.4149	0.3712
1978	0.3910	0.4167	0.4074	0.3993	0.4181	0.4418	0.3894
1979 (a)	0.4979	0.6129	0.6094	0.5900	0.5380	0.6719	0.5419
1980	0.8263	0.8965	0.8219	0.8543	0.8751	0.9837	0.8616

(a) Data for 1980 are provisional estimates, and will be updated when data from Annual Survey of Manufactures become available.

TABLE B-17 DISTILLATE FUEL PRICES: ELECTRIC UTILITY SECTOR
(\$/GALLON)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.0	0.1151	0.0736	0.1079	0.0581	0.0786	0.0584	0.0707	0.0793
1971	0.0	0.1285	0.1047	0.0980	0.0917	0.1147	0.0837	0.1028	0.1153
1972	0.0	0.1317	0.1157	0.1472	0.1161	0.1144	0.0994	0.0988	0.1108
1973	0.0	0.1232	0.1487	0.1425	0.1496	0.2176	0.1331	0.1212	0.2366
1974	0.0	0.2898	0.2816	0.2910	0.2592	0.3430	0.3120	0.2670	0.2872
1975	0.0	0.2983	0.3070	0.3135	0.3293	0.3517	0.3161	0.2885	0.3021
1976	0.0	0.3243	0.3426	0.3383	0.3645	0.3276	0.3363	0.3260	0.3300
1977	0.0	0.3686	0.3618	0.3722	0.3729	0.3689	0.3327	0.3417	0.3443
1978	0.0	0.3808	0.3629	0.3843	0.3888	0.3895	0.2926	0.3442	0.3407
1979	0.0	0.5903	0.4163	0.6935	0.4998	0.7651	0.5430	0.5505	0.5488
1980	0.0	0.8723	0.6197	0.9048	0.7456	0.8897	0.8364	0.7588	0.8598
YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.0592	0.0622	0.0828	0.1156	0.0	0.1029	0.1156	0.0987	0.1479
1971	0.0762	0.1066	0.0968	0.1287	0.0	0.1074	0.1207	0.1262	0.1391
1972	0.0911	0.0991	0.1088	0.1333	0.0	0.1124	0.1205	0.1229	0.1394
1973	0.1294	0.1519	0.1244	0.1590	0.0	0.1353	0.1395	0.1868	0.1131
1974	0.2757	0.2932	0.0	0.2721	0.2805	0.2770	0.2408	0.2883	0.3048
1975	0.3045	0.3123	0.3098	0.2893	0.2969	0.2975	0.2927	0.2855	0.3097
1976	0.3226	0.3370	0.3580	0.3225	0.0	0.3332	0.2767	0.3080	0.3359
1977	0.3578	0.3787	0.3953	0.3691	0.3958	0.3847	0.3250	0.3591	0.3869
1978	0.3678	0.3868	0.3966	0.3716	0.4450	0.3920	0.3643	0.3633	0.3962
1979	0.7018	0.5393	0.5830	0.5080	0.4588	0.5907	0.5443	0.5010	0.6277
1980	0.7901	0.8582	0.8058	0.8378	0.0	0.8633	0.8297	0.7847	0.9049
YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.0924	0.0683	0.0750	0.0673	0.0993	0.1017	0.1104	0.0895	0.0590
1971	0.0983	0.1179	0.1091	0.0762	0.1158	0.1513	0.1305	0.1292	0.0281
1972	0.1249	0.1229	0.1048	0.0738	0.1210	0.1410	0.1134	0.1251	0.0925
1973	0.2010	0.1546	0.1287	0.0772	0.1352	0.1887	0.1797	0.1401	0.1340
1974	0.4373	0.2845	0.2892	0.3276	0.2700	0.3072	0.2973	0.2741	0.1678
1975	0.2734	0.2953	0.2978	0.3472	0.2791	0.3162	0.3111	0.2730	0.0
1976	0.2965	0.3345	0.3181	0.3566	0.3230	0.3147	0.3190	0.3006	0.3400
1977	0.3403	0.3735	0.3677	0.3905	0.3638	0.3656	0.3694	0.3492	0.2699
1978	0.3523	0.3893	0.3806	0.4146	0.3829	0.3680	0.3673	0.3501	0.4000
1979	0.4056	0.6316	0.5929	0.6591	0.5598	0.5225	0.6100	0.5288	0.4796
1980	0.6382	0.8302	0.8228	0.8734	0.8365	0.8102	0.8272	0.7512	0.6613

TABLE B-17 DISTILLATE FUEL PRICES: ELECTRIC UTILITY SECTOR
(\$/GALLON)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.1239	0.1692	0.0989	0.0632	0.0704	0.0471	0.1109	0.0686	0.1139
1971	0.1337	0.1660	0.1164	0.0644	0.1095	0.0866	0.1355	0.0871	0.1207
1972	0.1042	0.1792	0.1427	0.0751	0.1116	0.1203	0.1468	0.1009	0.1237
1973	0.1198	0.1306	0.1495	0.1178	0.1383	0.1914	0.1946	0.1231	0.1567
1974	0.3115	0.2846	0.2325	0.0	0.2950	0.2876	0.3116	0.3091	0.3118
1975	0.3079	0.2945	0.2606	0.3031	0.2884	0.3289	0.3455	0.2900	0.3232
1976	0.3387	0.3452	0.3132	0.3259	0.3147	0.3727	0.3181	0.3183	0.3380
1977	0.3778	0.3821	0.3590	0.3693	0.3679	0.3653	0.3517	0.3657	0.3820
1978	0.3873	0.4004	0.3832	0.3887	0.3852	0.3827	0.3580	0.3670	0.3998
1979	0.5465	0.5657	0.6557	0.5796	0.5952	0.5025	0.6871	0.5916	0.5583
1980	0.8041	0.8489	0.8549	0.8171	0.8075	0.7211	0.8017	0.7752	0.7906
YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.0902	0.1390	0.0777	0.0766	0.1089	0.1323	0.0	0.0944	0.0511
1971	0.0841	0.1428	0.1194	0.1168	0.1617	0.1558	0.1538	0.1007	0.0518
1972	0.1046	0.1281	0.1199	0.1171	0.1725	0.1552	0.1351	0.1307	0.0527
1973	0.1704	0.1668	0.1594	0.1806	0.1667	0.1600	0.1818	0.1665	0.0660
1974	0.2300	0.3275	0.3205	0.3000	0.3477	0.0	0.3535	0.2570	0.3133
1975	0.2673	0.3164	0.3124	0.2837	0.3339	0.3200	0.3040	0.2800	0.3233
1976	0.2560	0.3033	0.3273	0.0	0.3334	0.3595	0.3237	0.3059	0.3373
1977	0.3722	0.3653	0.3875	0.0	0.3799	0.4092	0.3692	0.3341	0.3635
1978	0.3600	0.3470	0.3889	0.0	0.3908	0.4112	0.3684	0.3415	0.3520
1979	0.6939	0.8475	0.5784	0.0	0.5690	0.6635	0.6283	0.6638	0.6619
1980	0.7519	0.8941	0.8093	0.0	0.8011	0.8857	0.8876	0.5744	0.8726
YEAR	VA	VT	WA	WI	WV	WY	US		
1970	0.0575	0.1443	0.0	0.1086	0.1387	0.1159	0.0847		
1971	0.0731	0.1531	0.0	0.1395	0.1268	0.0954	0.1067		
1972	0.0847	0.1621	0.0707	0.1260	0.1402	0.1582	0.1137		
1973	0.1208	0.1763	0.1244	0.1784	0.1845	0.1691	0.1486		
1974	0.2871	0.3211	0.3676	0.2775	0.3109	0.3280	0.2963		
1975	0.3048	0.3032	0.0	0.3177	0.3244	0.3412	0.3017		
1976	0.3336	0.3189	0.0	0.3188	0.3514	0.3503	0.3245		
1977	0.3851	0.3854	0.0	0.3660	0.3922	0.4591	0.3689		
1978	0.3846	0.0	0.4638	0.3668	0.4047	0.4786	0.3751		
1979	0.5784	0.7368	0.6506	0.5123	0.5852	0.6372	0.5904		
1980	0.8184	0.8552	0.4013	0.7717	0.8832	0.9722	0.7896		

TABLE B-18 MOTOR GASOLINE PRICES: TRANSPORTATION SECTOR
(\$/GALLON)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.3985	0.3524	0.3432	0.3503	0.3503	0.3398	0.3702	0.3575	0.3576
1971	0.4065	0.3564	0.3557	0.3588	0.3551	0.3666	0.3782	0.3665	0.3649
1972	0.4022	0.3687	0.3467	0.3536	0.3485	0.3512	0.3758	0.3765	0.3721
1973	0.4336	0.3856	0.3703	0.3828	0.3856	0.3888	0.4099	0.3900	0.3878
1974	0.5970	0.5180	0.5115	0.5153	0.5591	0.5251	0.5477	0.5617	0.5132
1975	0.6465	0.5327	0.5747	0.5775	0.6051	0.5836	0.5762	0.6065	0.5673
1976	0.6703	0.5884	0.6035	0.6048	0.6307	0.6131	0.6002	0.6327	0.5728
1977	0.7108	0.6408	0.6446	0.6368	0.6672	0.6415	0.6387	0.6726	0.6012
1978	0.7435	0.6589	0.6631	0.6775	0.6783	0.6319	0.6680	0.6824	0.6172
1979	0.9739	0.8655	0.8565	0.8651	0.9298	0.8566	0.8962	0.8780	0.8727
1980	1.2755	1.2099	1.2056	1.1940	1.2712	1.1707	1.2444	1.2470	1.2242

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.3513	0.3501	0.4118	0.3535	0.3511	0.3814	0.3723	0.3298	0.3668
1971	0.3469	0.3626	0.4200	0.3630	0.3498	0.3757	0.3761	0.3320	0.3753
1972	0.3597	0.3614	0.4156	0.3728	0.3515	0.3640	0.3555	0.3223	0.3730
1973	0.3812	0.3855	0.4479	0.3898	0.4002	0.4063	0.3932	0.3788	0.4032
1974	0.5094	0.5492	0.5973	0.5128	0.5374	0.5604	0.5591	0.5242	0.5531
1975	0.5490	0.5917	0.6810	0.5745	0.6012	0.5912	0.5946	0.5626	0.5866
1976	0.5710	0.6060	0.7092	0.6041	0.6230	0.6076	0.6087	0.5893	0.6031
1977	0.5881	0.6435	0.7397	0.6478	0.6556	0.6457	0.6459	0.6209	0.6398
1978	0.6477	0.6588	0.7774	0.6779	0.6873	0.6658	0.6735	0.6393	0.6508
1979	0.8745	0.8822	0.9743	0.8858	0.8919	0.9086	0.8999	0.8501	0.8676
1980	1.2138	1.2392	1.3522	1.2244	1.2054	1.2274	1.2350	1.1595	1.1914

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.3576	0.3576	0.3567	0.3777	0.3389	0.3717	0.3412	0.3550	0.3616
1971	0.3558	0.3660	0.3606	0.3906	0.3449	0.3712	0.3616	0.3754	0.3677
1972	0.3410	0.3593	0.3767	0.3813	0.3424	0.3711	0.3577	0.3745	0.3531
1973	0.3652	0.3907	0.3922	0.4015	0.3956	0.3907	0.3920	0.3850	0.3962
1974	0.4996	0.5483	0.5647	0.5441	0.5688	0.5409	0.5405	0.5221	0.5376
1975	0.5616	0.5915	0.6077	0.5707	0.5908	0.5787	0.5692	0.5424	0.5973
1976	0.6043	0.6021	0.6199	0.5878	0.6011	0.5952	0.5823	0.5719	0.6093
1977	0.6297	0.6447	0.6543	0.6286	0.6424	0.6321	0.6176	0.6237	0.6563
1978	0.6654	0.6436	0.6663	0.6522	0.6679	0.6330	0.6263	0.6471	0.6933
1979	0.8747	0.8735	0.8783	0.8817	0.9121	0.8763	0.8663	0.9009	0.8760
1980	1.2185	1.2122	1.2422	1.2223	1.2625	1.1951	1.1663	1.2660	1.0732

TABLE B-18 MOTOR GASOLINE PRICES: TRANSPORTATION SECTOR
(\$/GALLON)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.3531	0.3538	0.3783	0.3647	0.3742	0.3676	0.3834	0.3653	0.3667
1971	0.3726	0.3713	0.3751	0.3832	0.3806	0.3698	0.3778	0.3774	0.3794
1972	0.3729	0.3251	0.3748	0.3759	0.3629	0.3644	0.3895	0.3935	0.3790
1973	0.3931	0.3916	0.4010	0.4007	0.3855	0.3828	0.4179	0.4196	0.3864
1974	0.5219	0.5281	0.5337	0.5466	0.5688	0.5301	0.5475	0.5638	0.5562
1975	0.5688	0.5870	0.5957	0.5674	0.5986	0.5908	0.5925	0.6009	0.5910
1976	0.6045	0.6246	0.6323	0.5951	0.6112	0.5954	0.5924	0.6132	0.5934
1977	0.6196	0.6647	0.6619	0.6306	0.6456	0.6370	0.6401	0.6466	0.6246
1978	0.6404	0.6903	0.6881	0.6546	0.6437	0.6635	0.6811	0.6676	0.6426
1979	0.8540	0.8936	0.9015	0.8921	0.8949	0.8441	0.9168	0.9179	0.8634
1980	1.2143	1.2092	1.2218	1.2428	1.2428	1.1756	1.2355	1.2666	1.1822
YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.3528	0.3541	0.3651	0.3619	0.3443	0.3717	0.3555	0.3327	0.3435
1971	0.3505	0.3582	0.3720	0.3689	0.3568	0.3599	0.3558	0.3420	0.3502
1972	0.3476	0.3530	0.3672	0.3609	0.3660	0.3269	0.3552	0.3377	0.3553
1973	0.3746	0.3838	0.3792	0.3828	0.3839	0.3869	0.3752	0.3486	0.3736
1974	0.5051	0.5197	0.5501	0.5271	0.5306	0.5247	0.5083	0.4972	0.5043
1975	0.5653	0.5551	0.5900	0.5622	0.5439	0.5873	0.5728	0.5453	0.5648
1976	0.5947	0.5730	0.6024	0.5860	0.5795	0.6111	0.5967	0.5646	0.5857
1977	0.6381	0.6161	0.6404	0.6221	0.6127	0.6398	0.6414	0.6000	0.6103
1978	0.6676	0.6611	0.6394	0.6376	0.6268	0.6682	0.6687	0.6100	0.6380
1979	0.8591	0.9033	0.8756	0.8901	0.8646	0.8851	0.8763	0.8158	0.8831
1980	1.2046	1.2196	1.2150	1.2390	1.2177	1.2077	1.2126	1.1514	1.2059
YEAR	VA	VT	WA	WI	WV	WY	US		
1970	0.3559	0.3867	0.3653	0.3317	0.3574	0.3664	0.3562		
1971	0.3575	0.4005	0.3668	0.3461	0.3777	0.3712	0.3632		
1972	0.3666	0.4008	0.3599	0.3362	0.3838	0.3455	0.3606		
1973	0.3945	0.4174	0.3926	0.3844	0.3922	0.3937	0.3877		
1974	0.5513	0.5587	0.5372	0.5381	0.5149	0.5374	0.5401		
1975	0.5962	0.5860	0.5772	0.5684	0.5765	0.5969	0.5809		
1976	0.6265	0.6012	0.6011	0.5827	0.5913	0.6171	0.6009		
1977	0.6665	0.6204	0.6457	0.6187	0.6322	0.6599	0.6366		
1978	0.6735	0.6417	0.6749	0.6226	0.6410	0.6906	0.6547		
1979	0.8687	0.9042	0.8969	0.8582	0.8914	0.8953	0.8824		
1980	1.2354	1.2552	1.2311	1.1794	1.2527	1.0929	1.2196		

TABLE B-19 DIESEL FUEL PRICES: TRANSPORTATION SECTOR
(\$/GALLON)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.0	0.1838	0.1603	0.1742	0.1970	0.1665	0.1926	0.1828	0.1726
1971	0.0	0.1870	0.1685	0.1812	0.2160	0.1718	0.2065	0.1930	0.1855
1972	0.0	0.1971	0.1706	0.1837	0.2062	0.1712	0.2081	0.1945	0.1909
1973	0.0	0.2425	0.1991	0.2047	0.2468	0.2037	0.2504	0.2442	0.2470
1974	0.0	0.3779	0.3257	0.3520	0.4062	0.3393	0.3772	0.3849	0.3857
1975	0.0	0.4050	0.3507	0.3797	0.4472	0.3456	0.4028	0.3899	0.3899
1976	0.0	0.4277	0.3736	0.3943	0.4599	0.3742	0.4300	0.4174	0.4174
1977	0.0	0.4634	0.4288	0.4567	0.4582	0.4276	0.5011	0.4902	0.4900
1978	0.0	0.4573	0.4383	0.4718	0.4580	0.4463	0.5260	0.5148	0.5149
1979	0.0	0.6600	0.6558	0.6649	0.6834	0.6689	0.7379	0.7501	0.7613
1980	0.0	0.9694	0.9289	1.0180	0.9800	0.9884	1.0265	1.0676	1.0705
YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.2002	0.1593	0.1894	0.1765	0.1821	0.1926	0.1704	0.1636	0.2014
1971	0.2092	0.2077	0.2024	0.1783	0.1888	0.1979	0.1712	0.1642	0.1937
1972	0.2160	0.2087	0.2034	0.1815	0.1944	0.2009	0.1780	0.1699	0.1957
1973	0.2564	0.2426	0.2224	0.2144	0.2251	0.2486	0.2237	0.2157	0.2215
1974	0.3585	0.3711	0.3260	0.3481	0.3581	0.3725	0.3679	0.3566	0.3704
1975	0.4010	0.4188	0.3652	0.3675	0.3720	0.3935	0.3727	0.3750	0.3876
1976	0.4404	0.4335	0.3951	0.3987	0.3992	0.4164	0.3904	0.3873	0.4150
1977	0.4905	0.4879	0.4336	0.4594	0.4347	0.4786	0.4657	0.4354	0.4690
1978	0.5218	0.5003	0.4737	0.4683	0.4489	0.5016	0.4678	0.4564	0.4672
1979	0.7587	0.7218	0.6643	0.6999	0.6743	0.7480	0.6967	0.6964	0.6658
1980	1.0703	1.0380	1.0254	0.9662	0.9638	1.0329	0.9947	0.9777	0.9509
YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.1505	0.1875	0.1827	0.1925	0.1757	0.1720	0.1713	0.2800	0.1724
1971	0.1616	0.2064	0.1930	0.2066	0.1811	0.1770	0.1758	0.2443	0.1776
1972	0.1638	0.2079	0.1946	0.2080	0.1793	0.1731	0.1783	0.2148	0.1785
1973	0.1971	0.2496	0.2482	0.2501	0.2285	0.2238	0.2153	0.2454	0.2130
1974	0.3334	0.3780	0.3452	0.3790	0.3687	0.3538	0.3501	0.3670	0.3580
1975	0.3524	0.4025	0.3901	0.4025	0.3837	0.3704	0.3766	0.3810	0.3678
1976	0.3708	0.4300	0.4175	0.4300	0.4013	0.3988	0.3999	0.4483	0.3870
1977	0.4154	0.5013	0.4906	0.5024	0.4684	0.4605	0.4362	0.5251	0.4357
1978	0.4292	0.5259	0.5150	0.5257	0.4933	0.4626	0.4587	0.5347	0.4564
1979	0.6560	0.7411	0.7516	0.7349	0.7178	0.7040	0.6959	0.7536	0.6712
1980	0.9486	1.0260	1.0668	1.0277	0.9975	0.9925	0.9667	1.0641	0.9922

TABLE B-19 DIESEL FUEL PRICES: TRANSPORTATION SECTOR
(\$/GALLON)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.1805	0.1839	0.1588	0.1825	0.2178	0.1600	0.2076	0.2000	0.1746
1971	0.1850	0.1826	0.1604	0.2066	0.2425	0.1615	0.2211	0.2017	0.1941
1972	0.1903	0.1845	0.1600	0.2084	0.2777	0.1671	0.2205	0.1955	0.1906
1973	0.2439	0.2220	0.2106	0.2503	0.2974	0.2055	0.2521	0.2429	0.2238
1974	0.4078	0.3538	0.3403	0.3786	0.4107	0.3461	0.4000	0.3750	0.3618
1975	0.4329	0.3703	0.3466	0.4026	0.4451	0.3630	0.4174	0.3944	0.3827
1976	0.4599	0.4045	0.3870	0.4300	0.4396	0.3874	0.4250	0.4200	0.4104
1977	0.5162	0.4528	0.4377	0.5021	0.4758	0.4307	0.4557	0.4811	0.4661
1978	0.5359	0.4710	0.4527	0.5257	0.5063	0.4360	0.4800	0.5094	0.4904
1979	0.7281	0.7063	0.6865	0.7455	0.7119	0.6691	0.6903	0.7265	0.7124
1980	1.0172	1.0029	0.9793	1.0230	1.0183	0.9667	1.0207	1.0336	0.9638

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.1545	0.1862	0.1871	0.1884	0.1833	0.1828	0.1777	0.1458	0.1831
1971	0.1558	0.1965	0.1895	0.2063	0.2144	0.1821	0.1829	0.1596	0.1936
1972	0.1572	0.1934	0.1963	0.2085	0.2163	0.1871	0.1897	0.1598	0.1925
1973	0.2059	0.2201	0.2385	0.2556	0.2610	0.2291	0.2361	0.1936	0.2330
1974	0.3430	0.3439	0.3642	0.3733	0.4055	0.3600	0.3745	0.3236	0.3914
1975	0.3616	0.3727	0.3656	0.4028	0.4176	0.3767	0.4191	0.3455	0.4123
1976	0.3889	0.3945	0.4091	0.4300	0.4450	0.4055	0.4251	0.3708	0.3945
1977	0.4497	0.4271	0.4725	0.5011	0.4927	0.4690	0.4576	0.4135	0.4450
1978	0.4684	0.4420	0.4942	0.5255	0.5198	0.4880	0.4823	0.4259	0.4648
1979	0.7301	0.6568	0.7201	0.7402	0.6941	0.6997	0.6964	0.6637	0.6910
1980	1.0130	0.9654	0.9784	1.0281	1.0582	0.9871	1.0053	0.9828	0.9741

YEAR	VA	VT	WA	WI	WV	WY	US
1970	0.1733	0.1978	0.1826	0.1838	0.2381	0.1813	0.1810
1971	0.1831	0.2065	0.1925	0.1862	0.2654	0.1836	0.1903
1972	0.1837	0.2084	0.1989	0.1846	0.2876	0.1811	0.1895
1973	0.2199	0.2506	0.2234	0.2236	0.3463	0.2093	0.2207
1974	0.3579	0.3783	0.3475	0.3413	0.5058	0.3551	0.3657
1975	0.3778	0.4026	0.3678	0.3629	0.5506	0.3748	0.3912
1976	0.4026	0.4300	0.4011	0.3903	0.5074	0.4008	0.4133
1977	0.4620	0.5018	0.4325	0.4478	0.5595	0.4487	0.4489
1978	0.4867	0.5259	0.4415	0.4746	0.5997	0.4663	0.4625
1979	0.6897	0.7446	0.6431	0.7140	0.8263	0.6929	0.6865
1980	1.0087	0.9445	0.9325	1.0101	1.1598	1.0251	0.9881

TABLE B-20 KEROSENE PRICES: RESIDENTIAL SECTOR
(\$/GALLON)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.0	0.2190	0.1890	0.3907	0.3475	0.2044	0.2292	0.2028	0.1813
1971	0.0	0.2249	0.1908	0.3629	0.3708	0.2077	0.2246	0.2477	0.1939
1972	0.0	0.2280	0.1995	0.3304	0.4093	0.2101	0.2283	0.2270	0.2054
1973	0.0	0.2622	0.2266	0.3456	0.4786	0.2464	0.2624	0.2570	0.2570
1974	0.0	0.3994	0.3711	0.5348	0.7205	0.3868	0.4070	0.3970	0.3959
1975	0.0	0.4468	0.3780	0.6278	0.6852	0.3994	0.4268	0.4544	0.4544
1976	0.0	0.4799	0.3911	0.6194	0.7007	0.4314	0.4524	0.4430	0.4430
1977	0.0	0.5203	0.4628	0.7051	0.7729	0.4836	0.5069	0.5206	0.5206
1978	0.0	0.5755	0.4860	0.7494	0.8139	0.5147	0.5420	0.5532	0.5532
1979	0.0	0.9427	0.6979	1.0063	1.1626	0.6806	0.7211	0.7470	0.7470
1980	0.0	1.2448	1.0431	1.5779	1.7560	1.0786	1.1022	1.1555	1.1555

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.2199	0.1995	0.3964	0.2121	0.3370	0.2223	0.2149	0.1895	0.2337
1971	0.2157	0.2065	0.4267	0.2186	0.3264	0.2268	0.2046	0.1927	0.2151
1972	0.2159	0.2222	0.4681	0.2189	0.4172	0.2252	0.1873	0.1994	0.2166
1973	0.2480	0.2538	0.4867	0.2506	0.4339	0.2533	0.2378	0.2346	0.2555
1974	0.3998	0.4014	0.6189	0.3753	0.5357	0.3956	0.3818	0.3653	0.3994
1975	0.4421	0.4521	0.6996	0.4034	0.5505	0.4288	0.4197	0.3836	0.4220
1976	0.4796	0.4589	0.7599	0.4403	0.5875	0.4519	0.4385	0.4073	0.4461
1977	0.5469	0.5382	0.8486	0.5040	0.6461	0.5269	0.5174	0.4780	0.4864
1978	0.5849	0.5755	0.8937	0.5356	0.6877	0.5518	0.5419	0.5080	0.5377
1979	0.7931	0.7805	1.2765	0.7380	0.9094	0.7878	0.7737	0.7000	0.8388
1980	1.2062	1.1870	1.9279	1.0947	1.4412	1.1777	1.1566	1.0383	1.1660

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.2161	0.2193	0.2028	0.2158	0.2110	0.2051	0.1933	0.2780	0.2319
1971	0.2276	0.2246	0.2477	0.2246	0.2084	0.2078	0.2106	0.2880	0.2411
1972	0.2367	0.2283	0.2270	0.2283	0.2120	0.2118	0.2131	0.2950	0.2445
1973	0.2742	0.2624	0.2570	0.2624	0.2565	0.2423	0.2470	0.3059	0.2912
1974	0.4371	0.4070	0.3970	0.4070	0.4050	0.3737	0.3748	0.4271	0.4164
1975	0.4611	0.4268	0.4544	0.4268	0.4207	0.3931	0.3888	0.5125	0.4272
1976	0.5110	0.4524	0.4430	0.4524	0.4360	0.4262	0.4249	0.5526	0.4389
1977	0.5964	0.5069	0.5206	0.5069	0.5100	0.4992	0.4949	0.5975	0.5012
1978	0.6262	0.5420	0.5532	0.5420	0.5341	0.5306	0.5260	0.6608	0.5335
1979	0.8993	0.7211	0.7470	0.7211	0.7625	0.7311	0.7247	1.0825	0.7055
1980	1.3440	1.1022	1.1555	1.1022	1.1399	1.0844	1.0750	1.4294	1.1180

TABLE B-20 KEROSENE PRICES: RESIDENTIAL SECTOR
(\$/GALLON)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.1892	0.2226	0.1874	0.2134	0.2315	0.2013	0.4508	0.2109	0.1923
1971	0.1961	0.2203	0.1878	0.2246	0.2386	0.2010	0.4681	0.2245	0.2013
1972	0.1998	0.2196	0.1887	0.2283	0.2445	0.2060	0.4432	0.2227	0.1998
1973	0.2385	0.2593	0.2342	0.2624	0.2926	0.2411	0.4800	0.2732	0.2360
1974	0.3685	0.3607	0.3556	0.4070	0.4448	0.3880	0.6233	0.4099	0.3777
1975	0.3993	0.3629	0.3701	0.4268	0.4741	0.4114	0.6468	0.4422	0.3912
1976	0.4319	0.4033	0.4098	0.4524	0.5102	0.4296	0.6435	0.4633	0.4197
1977	0.4883	0.4598	0.4697	0.5069	0.5706	0.4820	0.7339	0.5222	0.4884
1978	0.5221	0.4887	0.4992	0.5420	0.6048	0.5126	0.7799	0.5535	0.5115
1979	0.7081	0.6733	0.6879	0.7211	0.8215	0.6835	1.0473	0.7519	0.7302
1980	1.0769	0.9988	1.0204	1.1022	1.2544	1.0758	1.6422	1.1481	1.0917

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.1909	0.3770	0.2115	0.2300	0.2127	0.2114	0.2188	0.1750	0.3536
1971	0.1946	0.4032	0.2190	0.2246	0.2162	0.2125	0.2179	0.1876	0.4047
1972	0.1910	0.4401	0.2136	0.2283	0.2181	0.2177	0.2259	0.1900	0.4286
1973	0.2260	0.4537	0.2459	0.2624	0.2557	0.2430	0.2559	0.2161	0.4823
1974	0.3755	0.5059	0.3896	0.4070	0.4026	0.3748	0.4266	0.3638	0.6208
1975	0.3883	0.5155	0.4212	0.4268	0.4262	0.3925	0.4568	0.4077	0.6960
1976	0.4168	0.5221	0.4404	0.4524	0.4472	0.4237	0.4675	0.4244	0.6436
1977	0.4785	0.5807	0.4953	0.5069	0.5073	0.4877	0.5190	0.5008	0.7440
1978	0.5060	0.6115	0.5249	0.5420	0.5424	0.5183	0.5738	0.5259	0.7918
1979	0.7097	0.8735	0.7131	0.7211	0.7356	0.7141	0.8951	0.7551	1.0471
1980	1.0770	1.3193	1.0888	1.1022	1.1187	1.0593	1.2442	1.1286	1.6594

YEAR	VA	VT	WA	WI	WV	WY	US
1970	0.1945	0.2198	0.3328	0.1982	0.2210	0.2298	0.2085
1971	0.2032	0.2246	0.3566	0.2049	0.2289	0.2312	0.2159
1972	0.2037	0.2283	0.3752	0.2139	0.2320	0.2663	0.2180
1973	0.2410	0.2624	0.4030	0.2487	0.2599	0.2846	0.2539
1974	0.3723	0.4070	0.4682	0.3788	0.3987	0.4164	0.3997
1975	0.4040	0.4268	0.4879	0.4003	0.4278	0.4275	0.4287
1976	0.4299	0.4524	0.5435	0.4194	0.4627	0.4391	0.4536
1977	0.4886	0.5069	0.5800	0.4909	0.5205	0.4917	0.5211
1978	0.5224	0.5420	0.6108	0.5142	0.5566	0.5233	0.5568
1979	0.7085	0.7211	0.8724	0.7340	0.7548	0.6920	0.7512
1980	1.0775	1.1022	1.3177	1.0973	1.1479	1.0966	1.1267

TABLE B-21 KEROSENE PRICES: INDUSTRIAL SECTOR
(\$/GALLON)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.1029	0.1041	0.1036	0.1026	0.1288	0.1187	0.1063	0.1794	0.1145
1971	0.1058	0.1120	0.1094	0.1055	0.1324	0.1181	0.1129	0.1821	0.1163
1972	0.1071	0.1120	0.1094	0.1068	0.1341	0.1168	0.1126	0.1811	0.1156
1973	0.1427	0.1231	0.1451	0.1423	0.1786	0.1540	0.1439	0.2083	0.1330
1974	0.3785	0.2591	0.2802	0.2287	0.3039	0.2585	0.3271	0.3664	0.2916
1975	0.4076	0.2954	0.3157	0.3180	0.3363	0.2855	0.3603	0.3766	0.3190
1976	0.4438	0.3285	0.3184	0.3425	0.3838	0.3128	0.3669	0.4019	0.3448
1977	0.4930	0.3722	0.4080	0.3554	0.4006	0.3163	0.4035	0.4777	0.3967
1978	0.5549	0.4245	0.4196	0.3826	0.4205	0.3482	0.4206	0.4484	0.4212
1979	0.7773	0.7153	0.5889	0.5532	0.6595	0.5109	0.6324	0.7129	0.6071
1980	1.1968	0.9124	0.8607	0.8460	0.9434	0.7749	0.9253	1.0482	0.8926

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.0826	0.0859	0.1145	0.1089	0.1098	0.1116	0.1089	0.0928	0.1103
1971	0.0892	0.0917	0.1177	0.1124	0.1129	0.1152	0.1124	0.0993	0.1179
1972	0.0893	0.0917	0.1192	0.1123	0.1143	0.1151	0.1123	0.0993	0.1179
1973	0.0915	0.1087	0.1588	0.1523	0.1523	0.1560	0.1522	0.1183	0.1405
1974	0.2972	0.2389	0.3367	0.2964	0.3285	0.3171	0.3201	0.2656	0.3108
1975	0.3208	0.2997	0.3379	0.3146	0.3492	0.3383	0.3256	0.3108	0.3345
1976	0.3423	0.3207	0.3262	0.3440	0.3684	0.3594	0.3319	0.3318	0.3460
1977	0.3972	0.3957	0.4138	0.3754	0.3739	0.4083	0.3906	0.3739	0.3815
1978	0.4339	0.4390	0.4216	0.4086	0.4279	0.4335	0.4086	0.4096	0.4332
1979	0.6232	0.6463	0.6583	0.6022	0.6187	0.6565	0.6293	0.6394	0.7830
1980	0.9385	0.9620	0.9417	0.8377	0.9346	0.9372	0.8984	0.8093	1.0260

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.0789	0.1085	0.1190	0.0917	0.1004	0.1196	0.1109	0.1182	0.1252
1971	0.0843	0.1151	0.1208	0.0973	0.1023	0.1189	0.1186	0.1264	0.1245
1972	0.0843	0.1149	0.1201	0.0971	0.1022	0.1177	0.1186	0.1264	0.1232
1973	0.1005	0.1483	0.1382	0.1229	0.1164	0.1553	0.1414	0.1507	0.1625
1974	0.2300	0.3266	0.3172	0.2817	0.3022	0.3018	0.3036	0.2612	0.3064
1975	0.2735	0.3534	0.3418	0.3449	0.3305	0.3484	0.3291	0.2459	0.3555
1976	0.3216	0.3614	0.3674	0.3716	0.3359	0.3585	0.3512	0.3070	0.3266
1977	0.3429	0.4015	0.4076	0.4217	0.4020	0.4014	0.3899	0.3784	0.3552
1978	0.3189	0.4243	0.4362	0.4504	0.4340	0.4353	0.4172	0.4296	0.3952
1979	0.5270	0.6358	0.6422	0.6129	0.6863	0.6485	0.6793	0.6945	0.6030
1980	0.7996	0.9304	0.9442	0.9183	0.9153	0.9057	0.8599	0.9100	0.8723

TABLE B-21 KEROSENE PRICES: INDUSTRIAL SECTOR
(\$/GALLON)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.1073	0.1141	0.1063	0.1004	0.1076	0.1393	0.1381	0.0993	0.1163
1971	0.1072	0.1134	0.1137	0.1066	0.1144	0.1432	0.1420	0.1059	0.1185
1972	0.1065	0.1123	0.1137	0.1064	0.1141	0.1450	0.1438	0.1057	0.1184
1973	0.1329	0.1481	0.1355	0.1346	0.1261	0.1932	0.1915	0.1284	0.1348
1974	0.2926	0.3167	0.2676	0.3199	0.3074	0.3588	0.3216	0.3083	0.3264
1975	0.3200	0.3978	0.3278	0.3439	0.3379	0.3778	0.3401	0.3381	0.3353
1976	0.3516	0.4344	0.3473	0.3411	0.3388	0.3981	0.3607	0.3425	0.3581
1977	0.4023	0.4001	0.3679	0.3942	0.3872	0.4404	0.4032	0.3920	0.4053
1978	0.4248	0.4383	0.4048	0.4221	0.4037	0.4779	0.4400	0.4146	0.4259
1979	0.6176	0.7020	0.6497	0.6009	0.6247	0.6803	0.6502	0.6784	0.6896
1980	0.9181	0.9805	0.8224	0.9002	0.8957	1.0460	0.9338	0.9724	0.9498
YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.0834	0.1236	0.0996	0.1046	0.0854	0.1049	0.1093	0.1004	0.0918
1971	0.0827	0.1271	0.1059	0.1106	0.0877	0.1042	0.1169	0.1073	0.0944
1972	0.0817	0.1287	0.1056	0.1104	0.0872	0.1032	0.1169	0.1073	0.0956
1973	0.1045	0.1714	0.1205	0.1233	0.1055	0.1361	0.1393	0.1279	0.1273
1974	0.3223	0.3143	0.3076	0.3141	0.3045	0.3366	0.3007	0.2897	0.2810
1975	0.3304	0.3483	0.3406	0.3503	0.3097	0.3755	0.3066	0.3040	0.3173
1976	0.3659	0.3854	0.3408	0.3251	0.3373	0.3931	0.3336	0.3840	0.3514
1977	0.4192	0.4258	0.3918	0.4095	0.3990	0.4106	0.3823	0.4191	0.3692
1978	0.4518	0.4427	0.4023	0.4361	0.4309	0.4641	0.4271	0.4486	0.3796
1979	0.6591	0.6560	0.6207	0.6123	0.6191	0.6976	0.7569	0.6497	0.5533
1980	0.9432	0.9870	0.8930	0.9189	0.9207	0.9743	0.9917	0.9365	0.8524
YEAR	VA	VT	WA	WI	WV	WY	US		
1970	0.0880	0.1231	0.1130	0.1118	0.1044	0.1142	0.1045		
1971	0.0935	0.1307	0.1161	0.1154	0.1110	0.1136	0.1087		
1972	0.0932	0.1304	0.1176	0.1153	0.1107	0.1124	0.1088		
1973	0.1031	0.1650	0.1567	0.1563	0.1224	0.1483	0.1336		
1974	0.2756	0.3246	0.2531	0.3120	0.2939	0.3476	0.2892		
1975	0.3195	0.3572	0.3120	0.3243	0.3310	0.3664	0.3173		
1976	0.3353	0.3904	0.3548	0.3534	0.3519	0.3868	0.3509		
1977	0.3929	0.4222	0.4223	0.4043	0.4230	0.4292	0.3947		
1978	0.4181	0.4381	0.4638	0.4249	0.4472	0.4665	0.4165		
1979	0.6087	0.6371	0.6040	0.6428	0.6446	0.6725	0.6530		
1980	0.8965	0.9546	0.9300	0.9176	0.9494	1.0141	0.9118		

TABLE B-23 JET FUEL PRICES: TRANSPORTATION SECTOR^(a)
(\$/GALLON)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.1035	0.0917	0.1102	0.1077	0.1035	0.1077	0.1056	0.1079	0.1079
1971	0.1088	0.0964	0.1158	0.1132	0.1088	0.1132	0.1110	0.1134	0.1134
1972	0.1084	0.0961	0.1154	0.1128	0.1084	0.1128	0.1106	0.1130	0.1130
1973	0.1286	0.1139	0.1369	0.1338	0.1286	0.1338	0.1312	0.1341	0.1341
1974	0.2217	0.1964	0.2360	0.2307	0.2217	0.2307	0.2262	0.2311	0.2311
1975	0.2891	0.2562	0.3077	0.3009	0.2891	0.3009	0.2950	0.3014	0.3014
1976	0.3286	0.2759	0.3251	0.3305	0.3286	0.3305	0.3224	0.3202	0.3202
1977	0.3702	0.3208	0.3786	0.3838	0.3702	0.3838	0.3708	0.3783	0.3783
1978	0.4043	0.3623	0.4370	0.4133	0.4043	0.4133	0.4175	0.4193	0.4193
1979	0.5355	0.4900	0.6052	0.5779	0.5355	0.5779	0.5596	0.5854	0.5854
1980	0.8783	0.8035	0.9705	0.9316	0.8783	0.9316	0.9156	0.9572	0.9572

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.1079	0.1079	0.1035	0.1087	0.1077	0.1045	0.1045	0.1087	0.0917
1971	0.1134	0.1134	0.1088	0.1142	0.1132	0.1098	0.1098	0.1142	0.0964
1972	0.1130	0.1130	0.1084	0.1138	0.1128	0.1094	0.1094	0.1138	0.0961
1973	0.1341	0.1341	0.1286	0.1350	0.1338	0.1298	0.1298	0.1350	0.1139
1974	0.2311	0.2311	0.2217	0.2327	0.2307	0.2237	0.2237	0.2327	0.1964
1975	0.3014	0.3014	0.2891	0.3035	0.3009	0.2918	0.2918	0.3035	0.2562
1976	0.3202	0.3202	0.3286	0.3315	0.3305	0.3296	0.3296	0.3315	0.2759
1977	0.3783	0.3783	0.3702	0.3891	0.3838	0.3730	0.3730	0.3891	0.3208
1978	0.4193	0.4193	0.4043	0.4203	0.4133	0.4018	0.4018	0.4203	0.3623
1979	0.5854	0.5854	0.5355	0.5830	0.5779	0.5487	0.5487	0.5830	0.4900
1980	0.9572	0.9572	0.8783	0.9329	0.9316	0.8929	0.8929	0.9329	0.8035

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.1102	0.1056	0.1079	0.1056	0.1045	0.1087	0.1087	0.0917	0.1077
1971	0.1158	0.1110	0.1134	0.1110	0.1098	0.1142	0.1142	0.0964	0.1132
1972	0.1154	0.1106	0.1130	0.1106	0.1094	0.1138	0.1138	0.0961	0.1128
1973	0.1369	0.1312	0.1341	0.1312	0.1298	0.1350	0.1350	0.1139	0.1338
1974	0.2360	0.2262	0.2311	0.2262	0.2237	0.2327	0.2327	0.1964	0.2307
1975	0.3077	0.2950	0.3014	0.2950	0.2918	0.3035	0.3035	0.2562	0.3009
1976	0.3251	0.3224	0.3202	0.3224	0.3296	0.3315	0.3315	0.2759	0.3305
1977	0.3786	0.3708	0.3783	0.3708	0.3730	0.3891	0.3891	0.3208	0.3838
1978	0.4370	0.4175	0.4193	0.4175	0.4018	0.4203	0.4203	0.3623	0.4133
1979	0.6052	0.5596	0.5854	0.5596	0.5487	0.5830	0.5830	0.4900	0.5779
1980	0.9705	0.9156	0.9572	0.9156	0.8929	0.9329	0.9329	0.8035	0.9316

(a) Data are wholesale regional prices assigned to states.

TABLE B-23 JET FUEL PRICES: TRANSPORTATION SECTOR (a)
(\$/GALLON)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.1079	0.1087	0.1087	0.1056	0.1030	0.1077	0.1077	0.1030	0.1045
1971	0.1134	0.1142	0.1142	0.1110	0.1082	0.1132	0.1132	0.1082	0.1098
1972	0.1130	0.1138	0.1138	0.1106	0.1079	0.1128	0.1128	0.1079	0.1094
1973	0.1341	0.1350	0.1350	0.1312	0.1280	0.1338	0.1338	0.1280	0.1298
1974	0.2311	0.2327	0.2327	0.2262	0.2206	0.2307	0.2307	0.2206	0.2237
1975	0.3014	0.3035	0.3035	0.2950	0.2877	0.3009	0.3009	0.2877	0.2918
1976	0.3202	0.3315	0.3315	0.3224	0.3122	0.3305	0.3305	0.3122	0.3296
1977	0.3783	0.3891	0.3891	0.3708	0.3586	0.3838	0.3838	0.3586	0.3730
1978	0.4193	0.4203	0.4203	0.4175	0.4084	0.4133	0.4133	0.4084	0.4018
1979	0.5854	0.5830	0.5830	0.5596	0.5507	0.5779	0.5779	0.5507	0.5487
1980	0.9572	0.9329	0.9329	0.9156	0.8965	0.9316	0.9316	0.8965	0.8929

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.1102	0.1035	0.1030	0.1056	0.1079	0.1087	0.0917	0.1102	0.1077
1971	0.1158	0.1088	0.1082	0.1110	0.1134	0.1142	0.0964	0.1158	0.1132
1972	0.1154	0.1084	0.1079	0.1106	0.1130	0.1138	0.0961	0.1154	0.1128
1973	0.1369	0.1286	0.1280	0.1312	0.1341	0.1350	0.1139	0.1369	0.1338
1974	0.2360	0.2217	0.2206	0.2262	0.2311	0.2327	0.1964	0.2360	0.2307
1975	0.3077	0.2891	0.2877	0.2950	0.3014	0.3035	0.2562	0.3077	0.3009
1976	0.3251	0.3286	0.3122	0.3224	0.3202	0.3315	0.2759	0.3251	0.3305
1977	0.3786	0.3702	0.3586	0.3708	0.3783	0.3891	0.3208	0.3786	0.3838
1978	0.4370	0.4043	0.4084	0.4175	0.4193	0.4203	0.3623	0.4370	0.4133
1979	0.6052	0.5355	0.5507	0.5596	0.5854	0.5830	0.4900	0.6052	0.5779
1980	0.9705	0.8783	0.8965	0.9156	0.9572	0.9329	0.8035	0.9705	0.9316

YEAR	VA	VT	WA	WI	WV	WY	US
1970	0.1079	0.1056	0.1035	0.1045	0.1079	0.1077	0.1050
1971	0.1134	0.1110	0.1088	0.1098	0.1134	0.1132	0.1104
1972	0.1130	0.1106	0.1084	0.1094	0.1130	0.1128	0.1101
1973	0.1341	0.1312	0.1286	0.1298	0.1341	0.1338	0.1307
1974	0.2311	0.2262	0.2217	0.2237	0.2311	0.2307	0.2253
1975	0.3014	0.2950	0.2891	0.2918	0.3014	0.3009	0.2938
1976	0.3202	0.3224	0.3286	0.3296	0.3202	0.3305	0.3231
1977	0.3783	0.3708	0.3702	0.3730	0.3783	0.3838	0.3714
1978	0.4193	0.4175	0.4043	0.4018	0.4193	0.4133	0.4109
1979	0.5854	0.5596	0.5355	0.5487	0.5854	0.5779	0.5599
1980	0.9572	0.9156	0.8783	0.8929	0.9572	0.9316	0.9131

(a) Data are wholesale regional prices assigned to states.

TABLE B-22 KEROSENE PRICES: ELECTRIC UTILITY SECTOR
(\$/GALLON)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.0	0.0	0.0	0.0	0.2166	0.0	0.2048	0.0	0.0
1971	0.0	0.0	0.0	0.0	0.2197	0.0	0.2081	0.0	0.0
1972	0.0	0.0	0.0	0.0	0.2208	0.0	0.2090	0.0	0.0
1973	0.0	0.0	0.0	0.0	0.2387	0.0	0.2251	0.0	0.0
1974	0.0	0.0	0.0	0.0	0.3242	0.0	0.3133	0.0	0.0
1975	0.0	0.0	0.0	0.3495	0.3205	0.0	0.3265	0.0	0.0
1976	0.0	0.0	0.0	0.0	0.3391	0.0	0.2808	0.0	0.0
1977	0.0	0.0	0.0	0.0	0.3562	0.0	0.3085	0.0	0.0
1978	0.0	0.0	0.0	0.0	0.3935	0.0	0.1954	0.0	0.0
1979	0.0	0.0	0.0	0.0	0.4500	0.0	0.5825	0.0	0.0
1980	0.0	0.0	0.0	0.0	0.7258	0.0	0.8194	0.0	0.0
YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.0	0.0	0.0	0.0	0.0	0.2242	0.0	0.0	0.0
1971	0.0	0.0	0.0	0.0	0.0	0.2275	0.0	0.0	0.0
1972	0.0	0.0	0.0	0.0	0.0	0.2286	0.0	0.0	0.0
1973	0.0	0.0	0.0	0.0	0.0	0.2475	0.0	0.0	0.0
1974	0.0	0.0	0.0	0.0	0.0	0.3387	0.0	0.0	0.0
1975	0.3312	0.0	0.0	0.0	0.0	0.3379	0.0	0.0	0.0
1976	0.0	0.0	0.0	0.0	0.0	0.3525	0.0	0.0	0.0
1977	0.0	0.0	0.0	0.0	0.0	0.4041	0.3362	0.0	0.0
1978	0.0	0.0	0.0	0.0	0.0	0.4176	0.0	0.0	0.0
1979	0.0	0.0	0.0	0.0	0.0	0.6920	0.0	0.0	0.0
1980	0.0	0.0	0.0	0.0	0.0	1.3358	0.0	0.0	0.0
YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.0	0.2164	0.2128	0.0	0.2107	0.0	0.0	0.0	0.0
1971	0.0	0.2195	0.2153	0.0	0.2138	0.0	0.0	0.0	0.0
1972	0.0	0.2206	0.2166	0.0	0.2148	0.0	0.0	0.0	0.0
1973	0.0	0.2384	0.2338	0.0	0.2314	0.0	0.0	0.0	0.0
1974	0.0	0.3120	0.3061	0.0	0.3050	0.0	0.0	0.0	0.0
1975	0.0	0.3207	0.3275	0.0	0.3077	0.0	0.0	0.0	0.0
1976	0.0	0.3502	0.3258	0.0	0.3358	0.0	0.0	0.0	0.0
1977	0.0	0.3838	0.3698	0.0	0.3925	0.0	0.0	0.0	0.0
1978	0.0	0.4246	0.3795	0.0	0.3993	0.0	0.0	0.0	0.0
1979	0.0	0.6640	0.0	0.0	0.7201	0.0	0.0	0.0	0.0
1980	0.0	0.8826	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE B-22 KEROSENE PRICES: ELECTRIC UTILITY SECTOR
(\$/GALLON)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.0	0.0	0.0	0.2084	0.2098	0.0	0.0	0.2151	0.2182
1971	0.0	0.0	0.0	0.2111	0.2127	0.0	0.0	0.2181	0.2214
1972	0.0	0.0	0.0	0.2120	0.2135	0.0	0.0	0.2192	0.2224
1973	0.0	0.0	0.0	0.2286	0.2302	0.0	0.0	0.2367	0.2406
1974	0.0	0.0	0.0	0.2855	0.3082	0.0	0.0	0.3166	0.3150
1975	0.0	0.0	0.0	0.3132	0.3095	0.0	0.0	0.3182	0.3260
1976	0.0	0.0	0.0	0.3347	0.3245	0.0	0.0	0.3400	0.3526
1977	0.0	0.0	0.0	0.3883	0.3751	0.0	0.0	0.3776	0.4162
1978	0.0	0.0	0.0	0.4250	0.4026	0.0	0.0	0.3796	0.4063
1979	0.0	0.0	0.0	0.7797	0.6237	0.0	0.0	0.6045	0.0
1980	0.0	0.0	0.0	0.9341	0.8363	0.0	0.0	0.8816	0.0
YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.0	0.0	0.2221	0.0	0.0	0.0	0.0	0.0	0.0
1971	0.0	0.0	0.2254	0.0	0.0	0.0	0.0	0.0	0.0
1972	0.0	0.0	0.2263	0.0	0.0	0.0	0.0	0.0	0.0
1973	0.0	0.0	0.2451	0.0	0.0	0.0	0.0	0.0	0.0
1974	0.0	0.3314	0.3223	0.0	0.0	0.0	0.0	0.0	0.0
1975	0.0	0.0	0.3422	0.0	0.0	0.0	0.0	0.0	0.0
1976	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1977	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1978	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1979	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YEAR	VA	VT	WA	WI	WV	WY	US		
1970	0.0	0.2214	0.2358	0.2090	0.2266	0.0	0.1882		
1971	0.0	0.2247	0.2405	0.2119	0.2302	0.0	0.1909		
1972	0.0	0.2258	0.2426	0.2126	0.2313	0.0	0.1918		
1973	0.0	0.2444	0.2617	0.2292	0.2502	0.0	0.2072		
1974	0.0	0.3268	0.3545	0.2567	0.3339	0.0	0.3195		
1975	0.0	0.3443	0.3583	0.3311	0.3463	0.0	0.3225		
1976	0.0	0.3422	0.3591	0.3472	0.3624	0.0	0.3386		
1977	0.0	0.4330	0.3739	0.3610	0.4069	0.0	0.3721		
1978	0.0	0.0	0.3995	0.0	0.4498	0.0	0.3965		
1979	0.0	0.8925	0.6707	0.0	0.8455	0.0	0.5758		
1980	0.0	0.9237	0.0	0.0	0.9162	0.0	0.8185		

TABLE B-24 RESIDUAL FUEL PRICES: COMMERCIAL SECTOR
(\$/BBL)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	2.8661	3.3439	2.8655	2.5629	2.8414	2.4154	2.7832	4.2021	3.2465
1971	3.7426	4.2233	3.7222	3.7529	3.6711	3.3336	3.8960	5.4810	4.2335
1972	4.0645	4.4890	3.9573	3.8358	3.9515	3.5902	4.3177	5.9270	4.5249
1973	4.8877	5.2781	4.7120	4.7069	4.7179	4.3982	5.3570	7.0886	5.3996
1974	9.7145	11.1052	9.7963	8.4874	10.6042	10.0111	13.0072	14.7149	12.1074
1975	11.8824	11.1973	10.4815	12.0051	10.6451	9.1930	13.6310	16.5006	11.9949
1976	12.1820	11.0194	10.5645	12.1820	10.1297	11.4743	13.2233	15.9664	11.5451
1977	12.2418	12.7570	11.7472	12.7055	12.1490	11.8811	14.9931	15.9926	13.9936
1978	12.1038	12.4975	11.6798	13.6181	11.3265	12.4067	14.8597	20.3211	13.2042
1979	16.8503	16.7188	16.0566	16.3222	15.8087	18.3454	23.8898	29.5494	20.3051
1980	25.5200	25.1860	23.6552	25.8991	24.1606	19.6700	33.8492	40.9753	30.7930

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	2.1122	2.2888	3.3497	3.3581	2.4545	3.5851	2.7692	2.7177	2.5125
1971	3.2109	3.2825	4.3664	4.3460	3.5177	4.5403	3.8040	3.7120	3.8551
1972	3.3654	3.5869	4.6297	4.6737	3.9288	5.0124	4.1061	3.9428	4.0299
1973	4.2238	4.4742	5.5054	5.5723	4.9293	5.9828	5.0182	4.7831	5.0581
1974	9.2543	11.2995	10.9621	11.2688	13.5492	13.6208	11.7494	9.7247	10.8189
1975	11.2586	10.8700	12.3221	12.3119	12.8947	13.7230	11.9437	11.8210	13.5799
1976	10.9284	11.0800	12.6672	13.4558	10.5948	13.2030	11.4339	11.7473	13.1626
1977	12.9013	13.4062	13.4680	13.6947	13.6329	14.7664	13.2722	12.9631	15.0755
1978	11.8111	12.1240	13.9411	13.9916	15.2635	14.6578	14.1228	11.9928	14.8698
1979	17.8189	16.9760	20.4918	17.8402	17.4995	20.5530	19.3337	16.0447	19.9667
1980	24.0730	25.2374	27.8889	25.2455	29.2298	27.2490	24.3058	24.0298	27.8428

YEAR	LA	MA	ND	ME	MI	MN	MO	MS	MT
1970	3.6117	3.0621	2.9518	2.2752	3.0426	2.8520	2.9106	2.6383	3.0621
1971	4.3051	4.3562	3.9983	3.3643	4.1721	3.9267	4.0801	3.5075	3.2416
1972	4.6955	4.4792	4.3978	3.6646	4.3666	4.0959	4.1835	3.8313	4.4792
1973	5.4449	5.4430	5.3802	4.6107	5.2707	4.9484	5.0546	4.6510	5.4430
1974	11.7188	12.8027	12.7618	11.7494	11.0745	10.7166	10.2769	10.8496	12.4342
1975	11.0541	13.2117	13.3753	11.6676	12.7209	11.1768	11.6983	11.3506	13.2058
1976	11.2115	12.6571	12.6268	11.4136	11.7574	11.0699	11.6057	10.4937	12.7742
1977	12.8291	14.4676	14.8179	13.9936	14.1069	13.2001	13.9008	12.4994	14.6304
1978	11.0640	13.7291	13.8301	13.1133	13.6786	13.3556	13.2950	11.6294	13.8636
1979	17.7070	21.3058	23.0132	19.8476	16.3624	18.1806	17.5172	16.1595	19.6225
1980	23.8976	27.4644	33.0482	27.9609	22.7881	21.2581	24.4064	23.4340	23.9417

TABLE B-24 RESIDUAL FUEL PRICES: COMMERCIAL SECTOR
(\$/BBL)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	2.6053	6.0497	2.6576	2.8620	3.2875	3.0621	3.0621	3.0394	3.1097
1971	3.7222	6.7286	4.1619	3.9778	4.3766	4.1029	5.1129	4.1824	4.2437
1972	4.0041	6.8506	3.9101	4.1532	4.7786	4.4792	4.4792	4.4533	4.5899
1973	4.9561	7.4183	4.7682	5.0362	5.7900	5.4430	5.4430	5.4152	5.5944
1974	11.4529	10.5224	7.3524	10.9314	13.2526	12.4342	12.4342	11.8722	12.8743
1975	12.3528	12.4448	11.1973	11.9131	13.7946	13.2058	13.2058	12.9254	13.9275
1976	12.3134	11.5855	12.2628	11.3429	13.4659	12.7742	12.7742	12.7178	12.5864
1977	14.3439	12.4170	14.7355	13.9317	15.3847	14.6304	14.6304	14.6221	14.9519
1978	13.4263	12.7600	12.8912	13.1436	14.7790	13.8636	13.8636	14.4358	15.0112
1979	18.8140	17.7148	15.9358	19.4421	23.4587	23.5643	17.4995	19.6988	19.2415
1980	28.6197	21.3906	25.4978	27.6346	35.7284	29.4440	29.4440	31.8854	24.3078

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	3.0621	2.5302	3.2850	2.6410	2.0658	3.9987	2.1471	1.8771	3.7142
1971	3.7426	3.4665	4.2744	3.8040	3.2620	5.0106	3.1598	3.0371	4.2846
1972	4.4792	3.7735	4.7014	4.1535	3.4375	5.1926	3.5584	3.1170	4.7794
1973	5.4430	4.6255	5.6649	5.1786	4.3721	6.0128	4.5185	3.9670	5.5170
1974	12.4342	10.2463	13.3140	12.3630	10.1542	11.0132	11.3200	8.4158	12.3630
1975	13.2058	11.8824	13.2935	13.1811	11.6779	12.9663	12.1687	9.7247	11.4529
1976	12.7742	11.2115	12.5459	12.9705	11.6361	12.0506	12.1415	11.4945	11.1306
1977	14.6304	12.4685	14.6531	14.6943	13.9008	13.8596	13.2722	12.4067	13.2207
1978	13.8636	12.2250	14.2439	14.9405	12.7701	13.5878	13.2546	12.3764	9.6911
1979	16.9258	16.0608	20.9685	21.4837	17.2106	15.8633	17.6324	18.9172	16.5112
1980	32.3122	25.5240	33.2341	33.0671	26.9383	22.6956	25.1709	22.5244	20.7465

YEAR	VA	VT	WA	WI	WV	WY	US
1970	1.7488	3.0618	2.6156	3.2224	3.2892	3.0621	3.1383
1971	2.8939	4.1414	3.4665	4.3460	4.1108	4.1029	4.1758
1972	3.1620	4.4735	3.7746	4.5769	4.5685	4.4792	4.4431
1973	4.1234	5.4339	4.5724	5.5004	5.4438	5.4430	5.4455
1974	10.6144	12.7823	9.8270	11.2279	13.0686	12.4342	12.1291
1975	11.6267	12.3937	11.4529	13.2526	12.3528	13.2058	12.7805
1976	11.4743	12.4853	10.7464	12.5055	11.2418	12.7742	12.4454
1977	13.5608	14.7561	11.6853	14.3645	13.3032	14.6304	14.2587
1978	12.8407	14.2540	11.7606	13.9916	13.2849	13.8636	13.9644
1979	18.4202	20.0246	16.2120	17.6402	15.3676	19.6225	19.4975
1980	26.9382	30.1213	24.4098	25.4513	28.4924	23.9417	28.7399

TABLE B-25 RESIDUAL FUEL PRICES: INDUSTRIAL SECTOR
(\$/BBL)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	2.8028	3.2701	2.8022	2.5063	2.7787	2.3621	2.7217	4.1093	3.1748
1971	3.6600	4.1300	3.6400	3.6700	3.5900	3.2600	3.8100	5.3600	4.1400
1972	3.9747	4.3899	3.8699	3.7511	3.8642	3.5109	4.2224	5.9961	4.4250
1973	4.7798	5.1615	4.6079	4.6030	4.6137	4.3011	5.2387	6.9321	5.2804
1974	9.5000	10.8600	9.5800	8.3000	10.3700	9.7900	12.7200	14.3900	11.8400
1975	11.6200	10.9500	10.2500	11.7400	10.4100	8.9900	13.3300	16.1362	11.7300
1976	12.0500	10.9000	10.4500	12.0500	10.0200	11.3500	13.0800	15.1934	11.4200
1977	11.8800	12.3800	11.4000	12.3300	11.7900	11.5300	14.5500	15.5200	13.5800
1978	11.9900	12.3800	11.5700	13.4900	11.2200	12.2900	14.7200	20.1300	13.0800
1979	15.1364	15.0182	14.4234	14.6620	14.2007	16.4794	21.4598	26.5438	18.2398
1980 (a)	22.9889	22.6880	21.3090	23.3304	21.7644	17.7191	30.4920	36.9113	27.7389

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	2.0656	2.2383	3.2757	3.2840	2.4003	3.5059	2.7081	2.6577	2.4570
1971	3.1400	3.2100	4.2700	4.2500	3.4400	4.4400	3.7200	3.6300	3.7700
1972	3.2911	3.5077	4.5275	4.5705	3.8420	4.9017	4.0154	3.8557	3.9409
1973	4.1305	4.3754	5.3838	5.4493	4.8205	5.8507	4.9074	4.6775	4.9464
1974	9.0500	11.0500	10.7200	11.0200	13.2500	13.3200	11.4900	9.5100	10.5800
1975	11.0100	10.6300	12.0500	12.0400	12.6100	13.4200	11.6800	11.5600	13.2800
1976	10.8100	10.9600	12.5300	13.3100	10.4800	13.0600	11.3100	11.6200	13.0200
1977	12.5200	13.0100	13.0700	13.2900	13.2300	14.3300	12.8800	12.5800	14.6300
1978	11.7000	12.0100	13.8100	13.8600	15.1200	14.5200	13.9900	11.8800	14.7300
1979	16.0064	15.2493	16.4075	16.0256	15.7195	18.4624	17.3672	14.4127	17.9358
1980 (a)	21.6855	22.7343	25.1228	22.7416	26.3307	24.5464	21.8952	21.6465	25.0813

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	3.5320	2.9945	2.8866	2.2250	2.9754	2.7890	2.8463	2.5800	2.9945
1971	4.2100	4.2600	3.9100	3.2900	4.0800	3.8400	3.9900	3.4300	3.1700
1972	4.5918	4.3803	4.3007	3.5837	4.2702	4.0055	4.0911	3.7467	4.3803
1973	5.3247	5.3228	5.2614	4.5089	5.1543	4.8391	4.9430	4.5483	5.3228
1974	11.4600	12.5200	12.4800	11.4900	10.8300	10.4800	10.0500	10.6100	12.1596
1975	10.8100	12.9200	13.0800	11.4100	12.4400	10.9300	11.4400	11.1000	12.9142
1976	11.0900	12.5200	12.4900	11.2900	11.6300	10.9500	11.4800	10.3800	12.6358
1977	12.4500	14.0400	14.3800	13.5800	13.6900	12.8100	13.4900	12.1300	14.1980
1978	10.9600	13.6000	13.7000	12.9900	13.5500	13.2300	13.1700	11.5200	13.7332
1979	15.9059	19.1387	20.6724	17.8288	14.6981	16.3313	15.7354	14.5158	17.6266
1980 (a)	21.5275	24.7404	29.7705	25.1877	20.5280	19.1497	21.9857	21.1098	21.5671

(a) Data for 1980 are provisional estimates, and will be updated when data from Annual Survey of Manufactures become available.

TABLE B-25 RESIDUAL FUEL PRICES: INDUSTRIAL SECTOR
(\$/BBL)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	2.5478	5.9161	2.5989	2.7988	3.2149	2.9945	2.9945	2.9723	3.0410
1971	3.6400	6.5800	4.0700	3.8900	4.2800	4.0123	5.0000	4.0900	4.1500
1972	3.9157	6.6993	3.8238	4.0615	4.6731	4.3803	4.3803	4.3550	4.4886
1973	4.8467	7.2545	4.6629	4.9250	5.6622	5.3228	5.3228	5.2956	5.4709
1974	11.2000	10.2900	7.1900	10.6900	12.9600	12.1596	12.1596	11.6100	12.5900
1975	12.0800	12.1700	10.9500	11.6500	13.4900	12.9142	12.9142	12.6400	13.6200
1976	12.1800	11.4600	12.1300	11.2200	13.3200	12.6358	12.6358	12.5800	12.4500
1977	13.9200	12.0500	14.3000	13.5200	14.9300	14.1980	14.1980	14.1900	14.5100
1978	13.3000	12.6400	12.7700	13.0200	14.6400	13.7332	13.7332	14.3000	14.8700
1979	16.9003	15.9129	14.3149	17.4645	21.0726	21.1674	15.7195	17.6951	17.2843
1980 (a)	25.7812	19.2690	22.9689	24.8938	32.1848	26.5238	26.5238	28.7230	21.8970

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	2.9945	2.4743	3.2125	2.5827	2.0202	3.9104	2.0997	1.8356	3.6322
1971	3.6600	3.3900	4.1800	3.7200	3.1900	4.9000	3.0900	2.9700	4.1900
1972	4.3803	3.6902	4.5976	4.0618	3.3616	5.0779	3.4798	3.0482	4.6739
1973	5.3228	4.5234	5.5398	5.0643	4.2756	5.8800	4.4187	3.8794	5.3952
1974	12.1596	10.0200	13.0200	12.0900	9.9300	10.7700	11.0100	8.2300	12.0900
1975	12.9142	11.6200	13.0000	12.8900	11.4200	12.6800	11.9000	9.5100	11.2000
1976	12.6358	11.0900	12.4100	12.8300	11.5100	11.9200	12.0100	11.3700	11.0100
1977	14.1980	12.1000	14.2200	14.2600	13.4900	13.4500	12.8800	12.0400	12.8300
1978	13.7332	12.1100	14.1100	14.8000	12.6500	13.4600	13.1300	12.2600	9.6000
1979	15.2042	14.4272	18.8357	19.2985	15.4600	14.2498	15.8389	16.9930	14.8318
1980 (a)	29.1074	22.9925	29.9179	29.7875	24.2665	20.4446	22.6744	20.2904	18.6888

YEAR	VA	VT	WA	WI	WV	WY	US
1970	1.7102	2.9942	2.5578	3.1512	3.2166	2.9945	2.8843
1971	2.8300	4.0500	3.3900	4.2500	4.0200	4.0123	3.8236
1972	3.0922	4.3747	3.6912	4.4758	4.4676	4.3803	4.1217
1973	4.0323	5.3139	4.4714	5.3789	5.3236	5.3228	5.0061
1974	10.3800	12.5000	9.6100	10.9800	12.7800	12.1596	11.4332
1975	11.3700	12.1200	11.2000	12.9600	12.0800	12.9142	11.9551
1976	11.3500	12.3500	10.6300	12.3700	11.1200	12.6358	11.8042
1977	13.1600	14.3200	11.3400	13.9400	12.9100	14.1980	13.3714
1978	12.7200	14.1200	11.6500	13.8600	13.1600	13.7332	13.1292
1979	16.5466	17.9878	14.5630	15.8459	13.8045	17.6266	17.4218
1980 (a)	24.2664	27.1339	21.9888	22.9270	25.6664	21.5671	24.4908

(a) Data for 1980 are provisional estimates, and will be updated when data from Annual Survey of Manufactures become available.

TABLE B-27 RESIDUAL FUEL PRICES: TRANSPORTATION SECTOR
(\$/BBL)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	2.3208	2.7077	0.0	0.0	2.3008	2.4154	2.2536	0.0	2.6288
1971	3.0306	3.4198	0.0	0.0	2.9726	3.3336	3.1548	0.0	3.4280
1972	3.2912	3.6349	0.0	0.0	3.1997	3.5902	3.4963	0.0	3.6640
1973	3.9578	4.2739	0.0	0.0	3.8203	4.3982	4.3378	0.0	4.3723
1974	7.8663	8.9924	0.0	0.0	8.5866	10.0111	10.5325	0.0	9.8038
1975	9.6130	9.0587	0.0	0.0	8.6120	9.1930	11.0277	0.0	9.7040
1976	10.1939	9.2211	0.0	0.0	8.4766	11.4743	11.0653	0.0	9.6610
1977	9.9723	10.3920	0.0	0.0	9.8967	11.8811	12.2135	0.0	11.3993
1978	9.3922	9.6977	0.0	0.0	8.7891	12.4067	11.5307	0.0	10.2461
1979	13.9490	13.8401	0.0	0.0	13.0868	18.3454	19.7764	0.0	16.8090
1980	19.1178	18.8676	0.0	0.0	18.0995	19.6700	25.3574	0.0	23.0679

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	1.7104	1.8534	2.7124	3.3581	0.0	3.1829	2.2424	2.7177	0.0
1971	2.6000	2.6580	3.5357	4.3460	0.0	4.0309	3.0803	3.7120	0.0
1972	2.7251	2.9045	3.7489	4.6737	0.0	4.4501	3.3249	3.9428	0.0
1973	3.4202	3.6229	4.4579	5.5723	0.0	5.3117	4.0635	4.7831	0.0
1974	7.4936	9.1497	8.8764	11.2688	0.0	12.0928	9.5140	9.7247	0.0
1975	9.1084	8.7940	9.9688	12.3119	0.0	12.1777	9.6627	11.8210	0.0
1976	9.1449	9.2718	10.6000	13.4558	0.0	11.9326	9.5679	11.7473	0.0
1977	10.5095	10.9208	10.9712	13.6947	0.0	13.1524	10.8117	12.9631	0.0
1978	9.1650	9.4079	10.8179	13.9916	0.0	12.7217	10.9589	11.9928	0.0
1979	14.7508	14.0531	16.9635	17.8402	0.0	20.5530	16.0049	16.0447	0.0
1980	18.0338	18.9061	20.8924	25.2455	0.0	27.2490	18.2082	24.0298	0.0

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	2.9246	2.4795	2.3902	1.8424	2.4637	2.3094	2.9106	2.1363	0.0
1971	3.4860	3.5274	3.2376	2.7242	3.3784	3.1796	4.0801	2.8401	0.0
1972	3.8021	3.6270	3.5611	2.9674	3.5358	3.3167	4.1835	3.1024	0.0
1973	4.4090	4.4074	4.3566	3.7335	4.2679	4.0069	5.0546	3.7661	0.0
1974	9.4892	10.3669	10.3338	9.5140	8.9675	8.6777	10.2769	8.7854	0.0
1975	8.9429	10.8885	10.8209	9.4393	10.2914	9.0422	11.6983	9.1828	0.0
1976	9.3818	10.5915	10.5662	9.5510	9.8386	9.2634	11.6057	8.7812	0.0
1977	10.4508	11.7854	12.0708	11.3993	11.4916	10.7529	13.9008	10.1821	0.0
1978	8.5854	10.6534	10.7317	10.1756	10.6142	10.3636	13.2950	9.0240	0.0
1979	14.6582	17.6374	19.0508	16.4302	13.5451	15.0502	17.5172	13.3771	0.0
1980	17.9024	20.5744	24.7574	20.9464	17.0712	15.9251	24.4064	17.5551	0.0

TABLE B-27 RESIDUAL FUEL PRICES: TRANSPORTATION SECTOR
(\$/BBL)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	2.1096	0.0	2.6576	0.0	2.6620	0.0	0.0	2.4611	2.5180
1971	3.0140	0.0	4.1619	0.0	3.5440	0.0	0.0	3.3866	3.4363
1972	3.2423	0.0	3.9101	0.0	3.8694	0.0	0.0	3.6060	3.7167
1973	4.0132	0.0	4.7682	0.0	4.6884	0.0	0.0	4.3849	4.5301
1974	9.2739	0.0	7.3524	0.0	10.7312	0.0	0.0	9.6134	10.4249
1975	9.9936	0.0	11.1973	0.0	11.1600	0.0	0.0	10.4569	11.2676
1976	10.3039	0.0	12.2628	0.0	11.2683	0.0	0.0	10.6423	10.5323
1977	11.6847	0.0	14.7355	0.0	12.5325	0.0	0.0	11.9114	12.1800
1978	10.4184	0.0	12.8912	0.0	11.4681	0.0	0.0	11.2017	11.6482
1979	15.5746	0.0	15.9358	0.0	19.4196	0.0	0.0	16.3070	15.9285
1980	21.4399	0.0	25.4978	0.0	26.7652	0.0	0.0	23.8863	18.2097

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.0	2.0488	2.6600	2.1385	1.6728	0.0	0.0	1.5199	0.0
1971	0.0	2.8070	3.4612	3.0803	2.6414	0.0	0.0	2.4592	0.0
1972	0.0	3.0556	3.8069	3.3633	2.7835	0.0	0.0	2.5240	0.0
1973	0.0	3.7455	4.5871	4.1934	3.5403	0.0	0.0	3.2122	0.0
1974	0.0	8.2968	10.7809	10.0108	8.2223	0.0	0.0	6.8147	0.0
1975	0.0	9.6130	10.7547	10.6637	9.4476	0.0	0.0	7.8675	0.0
1976	0.0	9.3818	10.4985	10.8538	9.7371	0.0	0.0	9.6187	0.0
1977	0.0	10.1570	11.9365	11.9701	11.3237	0.0	0.0	10.1066	0.0
1978	0.0	9.4862	11.0529	11.5934	9.9092	0.0	0.0	9.6037	0.0
1979	0.0	13.2955	17.3582	17.7847	14.2473	0.0	0.0	15.6600	0.0
1980	0.0	19.1208	24.8967	24.7715	20.1803	0.0	0.0	16.8737	0.0

YEAR	VA	VT	WA	WI	WV	WY	US
1970	1.4161	0.0	2.1179	2.6093	0.0	3.0621	2.2516
1971	2.3433	0.0	2.8070	3.5191	0.0	4.1029	3.0751
1972	2.5604	0.0	3.0564	3.7061	0.0	4.4792	3.3044
1973	3.3389	0.0	3.7024	4.4539	0.0	5.4430	4.0097
1974	8.5949	0.0	7.9573	9.0917	0.0	12.4342	8.8717
1975	9.4062	0.0	9.2656	10.7216	0.0	13.2058	9.1318
1976	9.6018	0.0	8.9927	10.4646	0.0	12.7742	9.5598
1977	11.0468	0.0	9.5190	11.7015	0.0	14.6304	10.5799
1978	9.9641	0.0	9.1259	10.8571	0.0	13.8636	9.4973
1979	15.2486	0.0	13.4206	16.6029	0.0	19.6225	14.9307
1980	20.1802	0.0	18.2861	19.0663	0.0	23.9417	18.9961

TABLE B-26 RESIDUAL FUEL PRICES: ELECTRIC UTILITY SECTOR
(\$/BBL)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.0	0.0	2.6399	4.0334	2.4785	2.3375	2.3403	2.8620	2.8496
1971	0.0	0.0	3.7338	3.6714	3.8805	3.3902	3.3298	4.1337	4.1158
1972	0.0	0.0	4.1160	5.4757	4.8929	3.3816	3.9452	3.9752	3.9580
1973	0.0	0.0	4.5201	6.3894	5.7742	5.2432	5.1783	4.7043	5.0362
1974	0.0	0.0	10.3650	11.1732	12.3196	11.3874	12.4864	12.2663	12.5703
1975	0.0	0.0	11.6600	13.0301	15.2887	12.0542	12.3052	12.3893	12.1519
1976	0.0	0.0	12.0620	13.9521	14.3385	10.1699	11.8619	11.8994	11.6858
1977	0.0	0.0	12.5595	14.2111	14.5264	11.9408	13.7409	13.8277	13.4966
1978	0.0	0.0	12.0757	13.8645	15.8560	11.1614	13.0771	13.0184	12.7310
1979	0.0	0.0	15.7689	18.0204	19.3162	15.3110	20.5054	20.2708	20.2730
1980	0.0	0.0	21.0212	27.5057	30.9406	27.4927	28.9740	27.9824	26.7894

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	2.0537	1.9541	2.5230	3.3926	0.0	3.7194	0.0	3.2381	0.0
1971	2.6340	3.3174	2.9414	3.7673	0.0	3.8776	0.0	4.1239	0.0
1972	3.1396	3.0866	3.3006	3.8998	0.0	4.0543	0.0	4.0174	0.0
1973	4.2169	3.5102	4.0095	5.0425	0.0	4.2481	0.0	5.0853	0.0
1974	11.1532	9.8013	4.7129	0.0	0.0	7.7881	0.0	9.8782	0.0
1975	11.5258	10.8289	9.3986	0.0	0.0	8.3913	0.0	10.1222	0.0
1976	11.2805	10.9253	9.8715	0.0	0.0	12.7546	0.0	10.2311	0.0
1977	13.2055	12.7270	11.6798	0.0	0.0	15.2295	0.0	12.4857	0.0
1978	12.3000	12.0852	13.8584	0.0	0.0	15.6733	0.0	11.3790	0.0
1979	18.0592	17.2786	16.1362	0.0	0.0	23.7220	0.0	13.2658	0.0
1980	23.4060	21.7340	23.5075	0.0	0.0	34.7641	0.0	27.8529	0.0

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	3.0709	2.2992	2.6810	2.1349	3.9546	3.5931	3.5497	3.0178	2.2979
1971	3.2643	3.9308	3.8722	2.4124	4.5986	5.3072	4.1846	4.3269	1.1106
1972	4.1274	4.0931	3.7238	2.3378	4.8022	4.9528	3.6446	4.1905	3.5775
1973	4.6068	4.4464	4.4819	2.4289	4.8968	5.5631	4.8486	5.6046	6.2152
1974	10.2318	11.9419	11.3804	10.0879	10.8190	11.5582	11.1513	10.2077	7.1867
1975	10.7746	11.8226	11.4038	11.0656	12.3189	12.3277	11.0790	10.7059	0.0
1976	10.8139	11.1443	11.1243	10.9594	13.5348	11.0624	10.8925	10.7310	0.0
1977	11.7304	13.0592	13.1971	12.7852	16.3502	12.9255	12.5823	11.1752	13.4000
1978	11.2662	11.7871	12.2739	12.8283	16.2557	12.9150	12.6149	11.0317	0.0
1979	16.7717	17.4272	18.7050	17.8405	19.3674	16.1600	15.4205	13.7222	0.0
1980	22.4333	24.0526	26.2680	27.3642	25.0565	28.1193	21.9293	19.0888	0.0

TABLE B-26 RESIDUAL FUEL PRICES: ELECTRIC UTILITY SECTOR
(\$/BBL)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	4.2283	0.0	3.1185	2.0930	2.7968	1.5986	3.8449	2.5817	4.2985
1971	4.5549	0.0	3.6617	2.1339	4.3157	2.9103	4.6816	3.2645	4.5520
1972	3.5645	0.0	4.4736	2.4806	4.3969	4.0224	5.0668	3.7722	4.6646
1973	3.7463	0.0	4.0970	3.6353	5.3417	4.8789	7.1716	4.8863	5.4204
1974	10.9959	0.0	10.4280	11.8993	12.8635	9.8706	12.1126	12.3928	14.2268
1975	10.9931	0.0	10.9371	11.3528	12.7097	10.4313	12.4183	11.8822	13.9046
1976	0.0	0.0	10.9904	10.8044	12.2918	11.1382	12.5365	11.7347	12.0749
1977	0.0	0.0	11.3203	12.8434	14.1726	12.3249	13.1902	13.4867	15.0416
1978	11.8689	0.0	10.6568	11.9775	13.4945	13.2232	12.4367	12.5542	15.3803
1979	0.0	0.0	14.2841	16.7987	20.6855	19.1817	16.4597	18.3566	18.6275
1980	0.0	0.0	20.3237	23.7605	29.4462	26.0381	22.2742	26.3813	22.5690

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	2.9913	0.0	2.8758	2.6960	2.8320	4.0793	0.0	3.2983	1.6922
1971	2.7948	0.0	4.3848	4.0802	4.1755	4.7926	0.0	3.5146	1.7127
1972	3.4618	0.0	4.4046	4.0905	4.4471	4.7731	0.0	4.5414	1.7435
1973	4.4303	0.0	5.2619	4.3397	3.8185	5.0623	0.0	5.2725	3.9400
1974	10.1706	0.0	12.2015	11.8608	7.0570	10.5432	0.0	9.5131	9.8548
1975	9.2042	0.0	12.5880	11.3023	7.1262	13.8890	0.0	11.5778	9.5977
1976	9.4644	0.0	12.1524	11.3282	8.8295	10.7236	0.0	10.9653	9.4841
1977	12.1958	0.0	14.0455	12.8024	10.8284	11.6357	0.0	11.9378	13.1640
1978	0.0	0.0	13.4976	12.5528	11.8659	12.7815	0.0	11.6477	10.5921
1979	13.8976	0.0	20.0213	19.7928	16.3054	14.0672	0.0	14.4304	16.1100
1980	0.0	0.0	27.9560	24.9683	21.5341	19.4586	0.0	23.2294	23.2677

YEAR	VA	VT	WA	WI	WV	WY	US
1970	1.9534	0.0	0.0	3.6490	0.0	0.0	2.5051
1971	2.4722	0.0	0.0	4.6645	0.0	0.0	3.5106
1972	2.8573	0.0	2.1475	4.2197	0.0	0.0	3.8741
1973	3.4167	0.0	4.4863	4.9648	0.0	0.0	4.8052
1974	10.2863	0.0	4.4770	9.5900	0.0	0.0	11.5594
1975	11.5667	0.0	0.0	10.3661	0.0	0.0	12.3049
1976	11.0990	0.0	0.0	10.6854	0.0	0.0	12.0299
1977	13.3239	0.0	0.0	12.7282	0.0	0.0	13.5732
1978	12.4024	0.0	0.0	12.8757	16.2582	0.0	13.1140
1979	18.5335	0.0	16.6111	15.5385	0.0	0.0	18.5161
1980	24.7089	0.0	22.8114	27.2020	0.0	0.0	26.5386

TABLE B-28 LIQUEFIED PETROLEUM GAS PRICES: RESIDENTIAL SECTOR
(\$/GALLON)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.2907	0.2160	0.1813	0.1740	0.2139	0.1635	0.2579	0.2160	0.2160
1971	0.2859	0.2000	0.1750	0.2258	0.2340	0.1591	0.2327	0.2500	0.2025
1972	0.2936	0.2000	0.1800	0.2538	0.2500	0.1657	0.2540	0.2228	0.2300
1973	0.5036	0.3706	0.2976	0.3211	0.3396	0.3056	0.3320	0.3364	0.3026
1974	0.5190	0.3650	0.2800	0.3878	0.4001	0.3545	0.3811	0.3362	0.3451
1975	0.5586	0.3934	0.3201	0.5051	0.4051	0.3031	0.4561	0.4181	0.4306
1976	0.6098	0.3801	0.4001	0.5136	0.4206	0.3501	0.4856	0.4310	0.4437
1977	0.6831	0.4347	0.4180	0.6545	0.4976	0.3707	0.5701	0.4309	0.4199
1978	0.6632	0.4566	0.3434	0.5043	0.4614	0.3995	0.5835	0.5103	0.6002
1979	0.9136	0.5501	0.6247	0.6227	0.6165	0.5537	0.6602	0.7759	0.5597
1980	1.1203	0.7099	0.8033	0.7749	0.7465	0.6705	0.8436	0.9133	0.7814

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.2212	0.2244	0.2959	0.1708	0.2128	0.1855	0.1929	0.1436	0.2191
1971	0.2700	0.2163	0.4000	0.1593	0.2500	0.1766	0.1837	0.1338	0.2047
1972	0.2905	0.2086	0.3050	0.1754	0.2620	0.1876	0.1950	0.1422	0.2199
1973	0.4104	0.3361	0.5126	0.3133	0.5316	0.3111	0.3491	0.2779	0.3624
1974	0.4958	0.3521	0.5282	0.3167	0.2850	0.3377	0.3005	0.2800	0.3746
1975	0.5751	0.4007	0.5686	0.3229	0.3801	0.3387	0.3573	0.3002	0.3791
1976	0.5534	0.4251	0.6206	0.3621	0.3921	0.3808	0.3799	0.3201	0.4288
1977	0.6436	0.4353	0.6503	0.4114	0.4790	0.4382	0.4240	0.3775	0.4628
1978	0.6384	0.4358	0.6621	0.4097	0.4895	0.4097	0.4266	0.3547	0.4754
1979	0.7122	0.4846	0.8784	0.5700	0.6137	0.5832	0.5807	0.6000	0.5388
1980	0.9471	0.6998	1.1275	0.6284	0.7191	0.6476	0.6751	0.6256	0.7612

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.1792	0.2737	0.2160	0.2369	0.2107	0.1845	0.1792	0.2034	0.2023
1971	0.1950	0.2723	0.2367	0.1950	0.1825	0.1752	0.1730	0.1925	0.2150
1972	0.2320	0.2798	0.2250	0.3500	0.1961	0.1859	0.1778	0.1998	0.2095
1973	0.3591	0.4074	0.3600	0.3759	0.3422	0.3363	0.3039	0.3401	0.3401
1974	0.5001	0.4226	0.3127	0.4643	0.3413	0.3183	0.2710	0.3501	0.3791
1975	0.4001	0.4481	0.4202	0.4355	0.3911	0.3846	0.2972	0.3731	0.3531
1976	0.5501	0.4751	0.4401	0.4432	0.3954	0.4246	0.3439	0.4006	0.3916
1977	0.4306	0.4985	0.4123	0.5183	0.4597	0.4299	0.3877	0.4376	0.3994
1978	0.4148	0.5291	0.4961	0.5546	0.4127	0.4358	0.3672	0.3998	0.4294
1979	0.5450	0.7641	0.6229	0.8299	0.6702	0.5459	0.5981	0.5601	0.5313
1980	0.7823	0.8235	0.8986	0.9197	0.7401	0.6723	0.6467	0.7649	0.6604

TABLE B-28 LIQUEFIED PETROLEUM GAS PRICES: RESIDENTIAL SECTOR
(\$/GALLON)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.2160	0.1908	0.1572	0.2474	0.2265	0.1562	0.2013	0.2474	0.1950
1971	0.1954	0.1825	0.1533	0.2312	0.2657	0.1420	0.3267	0.1794	0.1923
1972	0.2144	0.1850	0.1630	0.2383	0.2750	0.1500	0.3067	0.2433	0.1856
1973	0.3343	0.3260	0.2827	0.3901	0.4267	0.2934	0.3726	0.3401	0.3279
1974	0.5381	0.3241	0.3031	0.4301	0.4851	0.3120	0.4001	0.3955	0.3763
1975	0.3767	0.3201	0.3251	0.4284	0.4501	0.3791	0.4344	0.4078	0.4122
1976	0.4372	0.3761	0.3809	0.4045	0.4076	0.3884	0.4266	0.4467	0.4078
1977	0.4750	0.4294	0.4186	0.5091	0.5342	0.4165	0.5378	0.5240	0.4748
1978	0.4872	0.4199	0.3521	0.5071	0.6198	0.4590	0.5046	0.5257	0.4458
1979	0.6417	0.5698	0.5652	0.7197	0.6949	0.4791	0.6577	0.6650	0.5639
1980	0.7026	0.6852	0.6247	0.8446	0.9004	0.6586	0.8501	0.7548	0.7017

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.1509	0.2139	0.2212	0.2369	0.2317	0.1803	0.2107	0.1530	0.2055
1971	0.1483	0.2390	0.2130	0.2533	0.2097	0.1695	0.1898	0.1562	0.1650
1972	0.1425	0.2425	0.2643	0.2067	0.2272	0.1723	0.2077	0.1544	0.2490
1973	0.2528	0.3361	0.3169	0.3401	0.3326	0.3015	0.3521	0.3159	0.4461
1974	0.2929	0.3857	0.3736	0.3401	0.3656	0.2886	0.3192	0.2936	0.3230
1975	0.2849	0.4801	0.4029	0.5001	0.3901	0.3108	0.3497	0.3188	0.4531
1976	0.3739	0.4048	0.4833	0.5151	0.4833	0.3270	0.3763	0.3601	0.3758
1977	0.3864	0.5401	0.5181	0.5050	0.4750	0.4019	0.4513	0.4235	0.4554
1978	0.3998	0.4854	0.4973	0.4850	0.4684	0.3709	0.4260	0.3934	0.4574
1979	0.5102	0.6797	0.6823	0.6998	0.6501	0.5590	0.5861	0.5285	0.6174
1980	0.6678	0.8244	0.8244	0.7850	0.6843	0.6275	0.7007	0.6769	0.7951

YEAR	VA	VT	WA	WI	WV	WY	US
1970	0.2149	0.2579	0.2139	0.1971	0.2128	0.1897	0.1901
1971	0.2127	0.2350	0.3009	0.1770	0.2150	0.1730	0.1870
1972	0.2133	0.2283	0.2710	0.1992	0.2333	0.1813	0.1960
1973	0.3467	0.3301	0.4167	0.3341	0.3743	0.2612	0.3294
1974	0.3509	0.5401	0.3701	0.3332	0.3566	0.3031	0.3394
1975	0.4036	0.4301	0.5221	0.3775	0.4526	0.3827	0.3653
1976	0.4220	0.4501	0.3801	0.3916	0.4266	0.3861	0.3988
1977	0.4607	0.5474	0.5401	0.4522	0.4868	0.4010	0.4467
1978	0.4347	0.5000	0.5653	0.4118	0.5100	0.3893	0.4337
1979	0.6008	0.7163	0.6897	0.6263	0.6142	0.5847	0.5975
1980	0.7392	0.8501	0.7438	0.7044	0.8189	0.6641	0.7136

TABLE B-29 LIQUEFIED PETROLEUM GAS PRICES: INDUSTRIAL SECTOR
(\$/GALLON)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.1188	0.1460	0.1119	0.0956	0.1304	0.1125	0.1316	0.1282	0.1298
1971	0.1233	0.1541	0.1195	0.1024	0.1392	0.1168	0.1274	0.1338	0.1334
1972	0.1234	0.1541	0.1218	0.1024	0.1428	0.1211	0.1286	0.1325	0.1341
1973	0.1313	0.1622	0.1294	0.1161	0.1538	0.1384	0.1268	0.1418	0.1435
1974	0.2252	0.2757	0.2436	0.2049	0.2344	0.2509	0.2124	0.2479	0.2510
1975	0.2429	0.2798	0.2359	0.2390	0.2600	0.2422	0.2633	0.2978	0.3245
1976	0.2681	0.3041	0.2550	0.2663	0.2820	0.2682	0.2992	0.3206	0.3389
1977	0.3031	0.3544	0.2900	0.3046	0.3391	0.3131	0.3183	0.3370	0.3411
1978	0.3162	0.3299	0.2991	0.4001	0.3623	0.3357	0.3371	0.4230	0.4320
1979 (a)	0.3461	0.3848	0.3326	0.3213	0.3663	0.3492	0.3632	0.3416	0.3416
1980	0.4785	0.5085	0.4848	0.5402	0.5120	0.5164	0.5050	0.4980	0.5041

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.1171	0.1533	0.1174	0.1085	0.1381	0.0977	0.1281	0.0789	0.1351
1971	0.1171	0.1591	0.1219	0.1165	0.1443	0.1042	0.1362	0.0853	0.1439
1972	0.1202	0.1631	0.1220	0.1149	0.1482	0.1042	0.1362	0.0817	0.1476
1973	0.1297	0.1713	0.1298	0.1267	0.1521	0.1133	0.1418	0.0924	0.1550
1974	0.2215	0.2773	0.2226	0.2297	0.2263	0.1974	0.2512	0.1847	0.2436
1975	0.2278	0.2692	0.2401	0.2258	0.2848	0.1974	0.2593	0.1776	0.2657
1976	0.2500	0.3018	0.2650	0.2456	0.2809	0.2168	0.2715	0.2025	0.2953
1977	0.2557	0.3467	0.2997	0.2979	0.3324	0.2609	0.3315	0.2437	0.3211
1978	0.2916	0.3533	0.2948	0.3159	0.3600	0.2718	0.3456	0.2435	0.3366
1979	0.4266	0.3731	0.3600	0.3137	0.3434	0.3101	0.3447	0.2723	0.3596
1980 (a)	0.4987	0.5449	0.4731	0.4658	0.5118	0.4091	0.4976	0.3978	0.4724

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.1035	0.1491	0.1134	0.1240	0.1289	0.1121	0.1122	0.1255	0.1247
1971	0.1042	0.1351	0.1166	0.1320	0.1289	0.1196	0.1200	0.1307	0.1299
1972	0.1042	0.1364	0.1172	0.1333	0.1326	0.1196	0.1161	0.1345	0.1291
1973	0.1142	0.1345	0.1254	0.1314	0.1400	0.1233	0.1239	0.1457	0.1418
1974	0.2142	0.2252	0.2193	0.2200	0.2247	0.2317	0.2322	0.2466	0.2202
1975	0.2356	0.2697	0.2426	0.2913	0.2284	0.2392	0.2168	0.2466	0.2277
1976	0.2570	0.3299	0.2709	0.3223	0.2578	0.2654	0.2438	0.2690	0.2575
1977	0.2820	0.3376	0.2980	0.3297	0.3079	0.2960	0.2918	0.3138	0.2822
1978	0.3159	0.3398	0.3474	0.3353	0.2889	0.3263	0.3168	0.3173	0.2502
1979	0.3461	0.4046	0.3312	0.3915	0.3497	0.3141	0.3321	0.3371	0.3600
1980 (a)	0.5026	0.5355	0.4405	0.5231	0.4663	0.4575	0.4714	0.5036	0.4501

(a) Data for 1980 are provisional estimates, and will be updated when data from Annual Survey of Manufactures become available.

TABLE B-29 LIQUEFIED PETROLEUM GAS PRICES: INDUSTRIAL SECTOR
(\$/GALLON)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.1261	0.1133	0.0992	0.1334	0.1431	0.1085	0.0950	0.1350	0.1344
1971	0.1261	0.1198	0.1072	0.1359	0.1431	0.1155	0.1001	0.1318	0.1369
1972	0.1261	0.1198	0.1040	0.1385	0.1394	0.1173	0.0876	0.1286	0.1369
1973	0.1366	0.1235	0.1160	0.1347	0.1469	0.1323	0.1099	0.1350	0.1428
1974	0.2172	0.2142	0.2159	0.2255	0.3089	0.2425	0.1734	0.2283	0.2520
1975	0.2347	0.2251	0.2199	0.2319	0.3315	0.2469	0.1974	0.2830	0.2688
1976	0.2347	0.2542	0.2399	0.3494	0.3579	0.2778	0.2060	0.2894	0.2855
1977	0.2851	0.2709	0.2799	0.3380	0.3322	0.3201	0.2707	0.3492	0.3326
1978	0.3204	0.2169	0.2934	0.4091	0.3371	0.3254	0.2502	0.3438	0.3290
1979 (a)	0.3114	0.3672	0.2934	0.3294	0.3506	0.3757	0.3461	0.3780	0.3807
1980	0.4441	0.4176	0.4463	0.5362	0.5372	0.5265	0.4052	0.5016	0.5232

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.1026	0.1181	0.1316	0.1066	0.1370	0.1149	0.1148	0.0878	0.1215
1971	0.1130	0.1247	0.1316	0.1141	0.1441	0.1180	0.1246	0.0944	0.1251
1972	0.1087	0.1281	0.1316	0.1162	0.1476	0.1196	0.1226	0.0966	0.1122
1973	0.1217	0.1347	0.1388	0.1130	0.1546	0.1259	0.1311	0.1097	0.1244
1974	0.2434	0.2024	0.2846	0.1892	0.2460	0.2242	0.2229	0.2085	0.1873
1975	0.2304	0.2555	0.2633	0.2308	0.2600	0.2281	0.2131	0.2085	0.2288
1976	0.2565	0.2787	0.2989	0.2719	0.2811	0.2439	0.2459	0.2195	0.2573
1977	0.3243	0.3304	0.3223	0.2836	0.2895	0.3005	0.2911	0.2560	0.3045
1978	0.3461	0.3510	0.3357	0.3024	0.3159	0.2943	0.3029	0.2156	0.3047
1979 (a)	0.3551	0.3785	0.3713	0.3213	0.3290	0.3569	0.3456	0.3726	0.3843
1980	0.5112	0.5169	0.5102	0.4499	0.4800	0.4704	0.4590	0.4309	0.4832

YEAR	VA	VT	WA	WI	WV	WY	US
1970	0.1337	0.1199	0.1211	0.1308	0.1282	0.1166	0.0997
1971	0.1404	0.1161	0.1272	0.1389	0.1326	0.1249	0.1050
1972	0.1412	0.1172	0.1306	0.1389	0.1333	0.1204	0.1064
1973	0.1501	0.1156	0.1354	0.1470	0.1449	0.1316	0.1180
1974	0.2427	0.1935	0.2027	0.2543	0.2318	0.2069	0.2177
1975	0.2689	0.2508	0.2381	0.2503	0.2391	0.2332	0.2249
1976	0.2763	0.2889	0.2585	0.2543	0.2717	0.2670	0.2417
1977	0.3249	0.2900	0.3123	0.3310	0.3173	0.2979	0.2787
1978	0.3128	0.3159	0.2871	0.3443	0.3231	0.3083	0.2695
1979 (a)	0.3717	0.3213	0.3825	0.3663	0.3696	0.3479	0.3571
1980	0.4974	0.4601	0.4749	0.5248	0.4847	0.4987	0.4591

(a) Data for 1980 are provisional estimates, and will be updated when data from Annual Survey of Manufactures become available.

APPENDIX C

STATE ENERGY PRICE SYSTEM

Btu Prices

TABLE C-1 ELECTRICITY PRICES: RESIDENTIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1960	12.6723	4.7030	9.2409	7.3883	7.4284	8.0419	8.3881	7.7363	8.3809
1961	12.9318	4.8043	9.2257	7.7299	7.4159	8.2747	8.2549	7.5868	8.5972
1962	11.7605	4.6690	8.9622	7.6863	7.2923	8.3152	8.3528	7.5719	8.0981
1963	10.7585	4.5240	8.4423	7.3110	7.0910	8.1854	8.2465	7.4545	8.0495
1964	10.1502	4.3394	8.0512	7.1387	6.8334	7.9185	7.8686	7.2463	7.7943
1965	10.3573	4.3120	7.7099	7.0371	6.5900	7.8629	7.7614	7.1456	7.5667
1966	10.2028	4.1988	7.4012	6.7949	6.3553	7.8436	7.5343	6.9139	7.3726
1967	9.8856	4.2006	7.2399	6.7977	6.2617	7.6450	7.2544	6.7045	7.2933
1968	9.8375	4.1568	6.9287	6.7541	6.1865	7.5496	7.1134	6.5501	7.1888
1969	9.1706	4.2138	6.7161	6.5690	6.0803	7.4802	6.9836	6.4532	7.2301
1970	8.8335	4.3946	6.4871	6.6526	6.2156	7.3565	6.8551	6.8560	7.1630
1971	8.8147	4.6303	6.5489	6.5495	6.4185	7.3612	7.3863	7.0754	7.6738
1972	9.7651	4.8870	6.7259	6.9740	6.8552	7.6262	8.1829	7.3924	8.8972
1973	8.9424	5.3705	6.5930	7.2950	7.2432	7.5705	8.8491	8.0426	9.1841
1974	8.9672	6.1217	7.7226	8.4892	9.0246	8.0682	11.8460	11.0009	11.9627
1975	9.2947	7.3719	8.5610	10.6843	9.7753	9.0986	13.2597	12.2757	12.7481
1976	10.1098	8.0828	9.9485	11.4347	10.3812	9.5671	13.0951	11.8857	13.2635
1977	11.4757	9.7653	11.1527	13.1595	11.6259	10.0785	13.4949	12.5119	15.2313
1978	12.3021	10.0976	11.6441	13.9802	12.3070	10.6124	13.7262	14.0347	15.5940
1979	12.6242	11.5289	12.0457	15.4492	12.2439	11.6244	15.8159	14.2851	16.8985
1980	12.7491	13.0715	13.0715	17.1161	16.4420	13.2767	19.3142	16.0610	19.2262

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	7.9860	5.8281	8.2082	8.6206	4.7895	8.8320	7.4740	8.5139	7.0297
1961	7.5119	5.6907	8.3299	8.4777	4.9319	8.6384	7.3090	8.0998	6.9486
1962	7.2726	5.7162	8.4303	8.2843	4.8083	8.5536	7.2417	7.9757	6.6645
1963	7.0756	5.6090	8.3106	8.2439	4.9417	8.3432	7.1890	7.8641	6.3774
1964	6.8476	5.4491	8.1881	8.0959	4.8680	8.1483	7.0450	7.6147	6.1108
1965	6.6580	5.2967	8.0806	7.9249	4.8603	8.0077	6.8414	7.4107	6.0775
1966	6.4597	5.1083	7.9942	7.8198	4.8472	7.8384	6.6867	7.3861	6.0130
1967	6.3401	5.0409	7.9257	7.5830	4.7670	7.7442	6.5788	7.3111	5.9067
1968	6.1186	4.9539	7.8715	7.4774	4.7399	7.6017	6.4785	7.1003	5.5518
1969	5.9509	4.9310	7.7839	7.3963	4.6625	7.5160	6.3478	6.9513	5.7008
1970	5.8012	4.9321	7.8181	7.3683	4.5748	7.5837	6.2390	6.8175	5.5684
1971	5.9258	5.1772	8.1841	7.5075	4.6630	7.8559	6.2272	6.9357	5.0885
1972	6.2082	5.5977	8.3238	7.8452	4.6910	8.3301	6.6812	6.9404	5.1651
1973	6.5177	5.7962	8.9949	7.9397	4.6042	8.6268	6.7749	6.8454	5.8378
1974	8.3284	6.7469	10.1239	8.4351	4.5916	9.5144	7.1240	7.2467	6.3292
1975	9.9973	8.2464	13.3493	9.5718	4.8190	10.4421	7.8217	8.4487	7.1644
1976	10.7419	8.5960	13.9689	10.5809	5.3740	11.3071	8.8509	9.3298	7.6896
1977	11.3299	10.0924	15.3590	11.7513	5.8506	12.0691	10.0359	10.9580	8.5139
1978	11.9264	11.1133	17.1722	12.1794	6.1010	13.4819	11.2927	11.8303	9.4524
1979	13.2000	11.7859	18.4917	13.3393	6.7458	14.4890	12.1414	12.7017	10.1563
1980	15.6213	12.8077	22.5967	14.2438	8.0305	16.7057	12.5147	14.2438	10.8734

TABLE C-1 ELECTRICITY PRICES: RESIDENTIAL SECTOR
(\$/MILLION BTU)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	7.5858	10.1113	8.3870	9.1068	7.5656	8.4289	8.5831	6.2962	6.8476
1961	7.7460	9.7625	8.2554	9.1188	7.3435	8.3598	8.3742	6.4978	6.7947
1962	7.5173	9.6816	8.0730	9.1761	7.2729	8.0410	8.2437	6.3298	6.6905
1963	7.3932	9.6936	7.9057	9.1081	7.2606	7.9849	8.2177	5.9416	6.6442
1964	7.1717	9.5384	7.6193	8.9520	7.2099	7.6717	7.9520	5.6827	6.4478
1965	6.9493	9.2675	7.3738	8.8622	7.0490	7.3167	7.7739	5.4475	6.1895
1966	6.7615	9.0114	7.0705	8.7724	6.8907	7.1658	7.6299	5.1912	6.1465
1967	6.6592	8.7386	6.9135	8.3913	6.7867	6.9973	7.4827	5.1454	5.9747
1968	6.4744	8.5075	6.7098	8.0648	6.6673	6.9727	7.3288	4.9653	5.8606
1969	6.3420	8.2613	6.5815	7.9341	6.5733	7.0008	7.2978	4.9827	6.1737
1970	6.2620	8.1752	6.6573	7.7252	6.6534	6.9473	7.4805	4.8092	6.2490
1971	6.2947	8.6712	7.3250	7.6530	6.8083	7.1324	7.4350	5.2204	6.2156
1972	6.3888	9.0440	7.6965	7.9939	7.0959	7.4629	7.6441	5.7595	6.3210
1973	6.5010	9.4072	7.9928	8.1087	7.4486	7.4705	7.7553	5.5252	6.4597
1974	7.2141	12.7311	10.4568	9.1895	8.6925	8.1585	8.3671	6.7716	6.5351
1975	7.2847	14.0004	11.5212	10.6786	10.3610	9.0589	9.2107	7.3778	6.4253
1976	7.8257	14.5657	11.8844	10.2285	11.3938	9.7562	10.2970	9.1805	6.5485
1977	8.4308	15.4708	12.5098	11.4429	12.3453	10.8415	11.0042	10.1919	6.9656
1978	8.9179	15.6298	14.0357	11.7838	13.3724	11.5678	12.1113	10.6567	7.6725
1979	9.9801	16.9508	14.2878	13.6760	14.1576	11.7885	12.7709	11.6888	7.8161
1980	11.8113	20.3400	16.0610	17.2333	15.7386	12.3388	13.8042	12.8664	7.9132

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1960	5.9963	8.6735	6.5503	9.7379	8.5058	7.9046	4.7911	9.4033	7.4962
1961	5.9356	8.5791	6.8810	9.5916	8.4337	8.4796	4.7034	9.2376	7.4655
1962	5.9314	8.2405	6.5555	9.5473	8.3937	8.4747	4.4871	9.1845	7.5287
1963	5.8358	8.2826	6.7355	9.3919	8.2701	8.3317	4.4332	8.9984	7.4610
1964	5.6966	8.0497	6.7022	9.1849	8.1033	8.1213	4.3122	8.9036	7.3306
1965	5.5695	7.8414	6.4614	9.0386	7.9249	7.8933	4.2947	8.8404	7.1708
1966	5.4663	7.6545	6.2808	8.8224	7.7483	7.8490	4.2390	8.6559	7.0249
1967	5.3908	7.4462	6.2369	8.5607	7.6338	7.8042	4.2854	8.7401	6.9461
1968	5.2960	7.5526	6.0882	8.2888	7.5182	7.7770	4.3193	8.5277	6.8063
1969	5.2216	7.5019	5.9426	8.0641	7.4054	7.8163	4.1987	8.3299	6.6591
1970	5.1831	7.4198	5.9073	7.8868	7.4485	7.7497	4.2412	8.3990	6.6499
1971	5.5530	7.4011	6.1734	7.6580	8.4381	7.7320	4.2544	8.9839	6.8298
1972	5.9668	7.6159	6.5709	7.8243	8.9821	7.9886	4.5712	9.5459	6.9678
1973	6.1211	7.5610	6.1893	8.2009	9.5189	8.0128	4.5600	10.3001	7.1062
1974	7.3324	7.7354	6.5900	10.7146	12.9468	8.5140	5.5077	13.6720	8.5180
1975	8.5176	8.3980	7.4450	13.0468	14.4339	9.5867	6.9011	15.0478	9.9995
1976	9.6548	9.0353	8.6474	13.3579	15.4490	10.4124	8.3257	15.7457	10.4441
1977	10.4794	9.7954	9.5540	14.1300	17.1594	11.7338	9.4735	17.2325	11.7519
1978	11.2429	10.3454	10.1318	15.9914	17.5331	13.7473	9.9883	17.7871	12.8283
1979	11.7469	10.7509	10.7636	16.7990	18.9105	15.8665	10.5154	19.5611	13.8792
1980	12.3388	11.0492	11.5768	19.2849	22.9777	16.9402	13.6577	22.2450	15.0352

TABLE C-1 ELECTRICITY PRICES: RESIDENTIAL SECTOR
(\$/MILLION BTU)

YEAR	OK	OK	PA	RI	SC	SD	TN	TX	UT
1960	8.7432	3.7066	7.7887	10.0259	6.4814	9.0604	3.0120	7.5913	6.3612
1961	9.0120	3.7044	7.6649	9.8728	6.1688	8.8055	2.9876	7.6879	6.5076
1962	8.7159	3.6961	7.5899	9.7369	6.1342	8.3901	2.9190	7.4170	6.5938
1963	8.3815	3.6517	7.4333	9.5806	6.0160	8.3399	2.8573	7.1838	6.7364
1964	8.0746	3.5838	7.2190	9.4222	5.9116	8.0240	2.7903	6.9984	6.7444
1965	7.8603	3.5913	6.9989	9.2618	5.7978	7.7566	2.6937	6.7063	6.6778
1966	7.6498	3.5548	6.8350	9.0772	5.6837	7.6401	2.6249	6.5716	6.5992
1967	7.5811	3.4995	6.6880	8.8837	5.6223	7.4999	2.6711	6.4081	6.5923
1968	7.4130	3.4776	6.5291	8.3996	5.4519	7.4268	2.7316	6.3066	6.5470
1969	7.2343	3.4621	6.4636	8.2156	5.3651	7.4536	2.9134	6.1200	6.4461
1970	7.0552	3.4753	6.8038	8.0266	5.3629	7.3837	3.1735	5.9989	6.3666
1971	7.0534	3.6836	7.6593	8.1278	5.7539	7.3411	3.7067	5.9871	6.5313
1972	7.0399	3.7451	8.1158	9.1363	6.1769	7.4515	3.7016	6.0796	6.5710
1973	6.7997	3.8863	8.4728	9.5335	6.2694	7.3602	3.9038	6.1969	6.5328
1974	6.9835	4.2597	10.3409	13.3412	7.5770	7.6968	4.5864	7.0537	6.7259
1975	7.5241	4.8214	11.7127	14.1239	8.7898	8.2110	6.0630	8.0006	8.0931
1976	8.7730	5.4423	12.0753	14.1126	9.6888	9.2363	6.7407	9.1318	9.2914
1977	9.9325	6.4796	13.1206	15.8396	10.6995	9.5543	6.8938	10.4120	10.1691
1978	10.6805	7.0648	13.6859	16.0398	10.6224	10.2945	8.0319	11.1236	11.9683
1979	11.1983	7.2276	14.6020	18.2217	11.8405	10.9199	9.0917	12.1967	13.3105
1980	11.9871	8.5873	16.4420	21.6002	12.3974	11.4889	9.9941	13.8042	15.5920

YEAR	VA	VT	WA	WI	WV	WY	US
1960	7.1446	8.3158	3.2158	7.0856	7.6428	6.6194	7.2462
1961	7.0287	8.1078	3.2137	7.0150	7.4947	8.1984	7.1732
1962	6.9036	7.8340	3.1907	6.9724	7.3870	8.0868	7.0647
1963	6.8034	7.8308	3.2255	6.8883	7.2869	7.9843	6.9394
1964	6.5665	7.6015	3.2169	6.7460	7.0889	7.7871	6.7571
1965	6.3175	7.3010	3.1768	6.5993	6.9472	7.5962	6.6016
1966	6.1399	6.8155	3.0702	6.4318	6.6944	7.4380	6.4375
1967	6.0014	6.6290	3.0198	6.2998	6.5255	7.3101	6.3509
1968	5.8134	6.5879	2.9892	6.2524	6.3581	7.2953	6.2189
1969	5.6690	6.4821	2.9664	6.3176	6.2122	7.2441	6.1306
1970	5.8079	6.3513	2.9690	6.4194	6.0955	7.1499	6.1626
1971	5.9283	6.4945	2.9828	6.5307	6.3976	7.1300	6.4134
1972	6.1683	7.1737	3.0828	7.0079	6.7864	7.2784	6.7221
1973	6.4663	7.6035	3.1477	7.4000	6.8231	6.8450	6.9783
1974	8.2687	9.0213	3.2702	8.0003	7.9811	6.9731	8.2929
1975	10.1177	10.4954	3.6026	9.1885	9.5837	6.9377	9.4018
1976	10.2815	11.7305	3.7174	10.0742	10.5079	7.0744	10.1106
1977	11.8949	12.0145	4.0710	10.8199	10.2341	7.5028	11.0911
1978	12.4439	12.9917	4.1907	11.5801	10.6512	8.1548	11.8160
1979	13.9470	13.1692	4.4764	12.4958	10.8108	8.4772	12.6834
1980	16.1196	14.1852	5.1583	13.5991	12.0750	8.6460	14.4490

TABLE C-2 ELECTRICITY PRICES: COMMERCIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1960	11.8379	5.6414	7.2614	5.3562	6.1980	6.5525	9.0241	7.1652	7.3004
1961	12.2828	5.5014	7.2121	5.2193	6.1463	6.4038	8.6799	6.9610	7.1343
1962	11.3620	5.5079	7.0025	5.2537	6.1237	6.3854	8.4378	6.9468	6.8579
1963	10.7510	5.4500	6.6559	5.3309	5.7235	6.1595	8.1701	6.8995	6.8710
1964	10.5450	5.3650	6.4441	5.3606	5.3051	6.0900	7.7551	5.6160	6.5837
1965	10.5672	5.2138	6.2477	5.5422	5.2189	6.0310	7.6502	5.5103	6.2248
1966	10.3123	5.1770	6.0665	5.3201	4.7617	5.9484	7.4144	5.4310	6.2159
1967	9.8316	5.1644	6.0391	5.0792	4.7526	5.9246	7.2014	5.4479	6.2463
1968	9.5524	5.0723	5.8978	5.3054	4.6749	5.8379	7.0304	5.4038	6.1502
1969	8.9588	5.0502	5.7617	5.2266	4.6971	5.7291	6.8958	5.3889	6.1694
1970	8.9466	5.0974	5.7462	5.2680	4.7496	5.6443	6.7716	5.9125	6.2078
1971	9.1474	5.3488	5.9119	5.3658	5.0147	5.6896	7.1183	6.2582	6.7026
1972	9.8415	5.5882	6.1358	5.8737	5.3353	5.8170	7.8629	6.4695	7.6498
1973	9.2851	6.2646	6.2173	6.1721	5.7813	5.8413	8.3072	7.0339	8.0650
1974	9.1358	7.0865	7.2809	7.1782	7.4417	6.3489	11.4807	10.6538	10.9703
1975	10.0102	8.3057	7.9513	9.2748	8.0724	7.3535	12.6653	11.4234	11.8032
1976	10.2692	8.8605	9.2952	10.1123	8.9141	8.1523	12.5751	12.3761	12.2648
1977	11.1867	11.1853	10.4451	11.5971	11.1820	8.6632	12.9439	13.8436	15.0430
1978	11.8622	11.2381	10.8160	12.6691	13.6543	9.4020	13.0662	14.9472	15.6761
1979	12.4221	12.9799	11.2548	14.2328	12.0613	10.6718	15.2729	15.3882	16.7418
1980	13.6284	14.6542	12.4267	15.5334	16.8816	12.1923	18.6108	16.9988	19.2849

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	8.8256	6.8247	9.6434	9.1644	4.4363	7.3298	7.8521	7.0675	6.7689
1961	7.7581	6.3520	9.4242	8.4603	4.3646	7.2123	7.1179	6.5766	6.6807
1962	7.5459	6.2494	9.5424	8.2885	5.5347	7.0291	7.0012	6.4427	6.5556
1963	7.3168	6.1536	9.5270	8.0377	4.7723	6.8494	6.8603	6.3076	6.4115
1964	7.1609	6.0119	9.4325	7.8833	4.6033	6.6117	6.8221	6.2327	6.1515
1965	6.9170	5.8443	9.3336	7.7233	4.5820	6.4141	6.6714	6.1244	5.7472
1966	6.5908	5.8286	9.2677	7.5831	4.2097	6.2608	6.5607	6.1132	5.5959
1967	6.2960	5.7856	9.2164	7.4780	3.9571	6.1718	6.4296	6.0129	5.4270
1968	6.1411	5.6279	9.1311	7.3558	3.8927	6.1245	6.3153	5.8663	5.2355
1969	5.8810	5.5619	9.1711	7.2918	3.8234	6.1028	6.2577	5.7662	5.2443
1970	5.9044	5.5338	9.3841	7.2572	3.8815	6.2567	6.2254	5.6909	5.1845
1971	6.0678	5.7593	9.9373	7.4440	4.0331	6.5703	6.2404	5.7847	5.7053
1972	6.3146	6.1549	10.0874	7.7480	4.0880	7.0173	6.7407	5.8544	4.8196
1973	6.7896	6.5103	10.6419	7.8516	4.0233	7.1551	6.9177	5.9766	4.0145
1974	8.8764	7.8877	11.9151	8.3995	3.9734	8.2805	7.2391	6.4437	4.3726
1975	10.5799	9.9743	15.2613	9.7524	4.5154	9.5955	7.8882	7.6334	4.8596
1976	11.0411	10.4288	15.9298	10.6444	5.0672	10.3480	8.7045	8.6359	5.1231
1977	11.8559	11.0457	17.2722	11.4321	5.5911	10.9538	9.7577	10.1064	5.9577
1978	12.4511	12.0653	18.9937	12.1023	5.6552	12.1985	10.9719	10.9482	6.9565
1979	13.8010	12.7587	20.4672	13.4117	6.1250	13.1759	11.7388	11.7736	7.6378
1980	16.0903	14.0387	24.9121	14.5369	7.5322	15.7679	12.0164	13.0715	8.1184

TABLE C-2 ELECTRICITY PRICES: COMMERCIAL SECTOR
(\$/MILLION BTU)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	7.1600	11.2761	9.9190	9.2528	7.8064	9.4936	7.8578	6.4826	6.2284
1961	6.3683	10.2913	9.4638	9.2770	7.3351	8.1418	7.3715	6.3473	6.0325
1962	6.5819	9.3360	9.2342	9.0841	7.1857	8.2652	7.2527	6.2472	5.8398
1963	5.9817	9.1765	9.0399	8.9187	7.0711	8.0682	7.0486	6.0426	5.6870
1964	5.7861	9.1048	7.3168	8.5684	6.9816	7.8470	6.9473	5.7148	5.5441
1965	5.4270	8.8499	6.9865	8.2911	6.8240	7.5750	6.9180	5.2805	5.3495
1966	5.3302	8.5685	6.7611	8.0014	6.7298	7.4856	6.8363	5.1510	5.3020
1967	5.0587	8.3009	6.6849	7.7910	6.5419	7.3947	6.7025	5.1597	5.1302
1968	4.9133	7.7501	6.5678	7.7213	6.4663	7.3850	6.5726	5.2144	5.0333
1969	4.7868	7.6553	6.5067	7.5564	6.4813	7.3586	6.5899	5.2009	5.3554
1970	4.7954	7.6115	6.7734	7.4317	6.7367	7.3038	6.6217	5.2336	5.4319
1971	4.8326	8.1262	7.3886	7.4551	6.9545	7.4529	6.8244	5.5656	5.4569
1972	4.9133	8.3716	7.7816	7.9198	7.2294	7.7239	6.9889	6.0139	5.5903
1973	5.3214	8.6183	8.0750	8.0549	7.5640	7.7687	7.1568	6.0268	5.7843
1974	6.1271	12.2360	10.8224	9.4179	8.8188	8.5911	7.7943	7.4733	5.8019
1975	6.4639	13.3091	11.6063	10.8027	10.5483	9.5929	8.7451	7.9464	5.9083
1976	7.2711	14.0147	12.3894	10.5183	11.7428	10.1143	9.8144	9.7101	5.9099
1977	7.7944	14.9711	13.8635	11.6075	12.6579	10.7878	9.8953	10.5796	5.5354
1978	8.2520	15.2216	14.9529	12.0564	13.6747	10.9942	11.0930	10.9941	7.1985
1979	9.2718	16.6690	15.3853	14.1085	14.4370	11.5460	11.8083	12.5177	7.2422
1980	10.9027	20.1934	16.9988	18.0246	16.0903	12.1336	13.0715	13.8335	7.3857

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1960	5.7559	10.3988	6.5733	9.6618	8.3081	6.3516	4.9963	8.4251	6.9962
1961	5.3136	9.7608	5.7818	9.3132	8.1713	6.1009	5.1119	8.2750	6.8396
1962	5.3544	9.3136	5.6785	9.2048	7.9732	6.0934	4.8926	8.3677	6.8546
1963	5.1649	9.0142	5.4621	8.9788	7.7706	5.9187	4.9469	7.3072	6.6898
1964	4.9532	8.5719	5.3282	8.7750	7.5479	5.7370	4.9489	7.2527	6.6187
1965	4.7551	7.8627	5.1512	8.7090	7.4471	5.6455	4.8456	7.3165	6.3044
1966	4.6672	7.5834	5.1477	8.7948	7.3405	5.6084	4.6931	7.1524	6.1973
1967	4.5844	6.6117	4.8696	8.5659	7.2935	5.5242	4.5635	7.2219	6.1454
1968	4.4405	6.3240	4.7146	8.1484	7.2298	5.5076	4.4858	7.1888	6.0487
1969	4.3616	6.2519	4.6087	8.0169	7.1326	5.5268	4.4402	7.0906	6.0026
1970	4.3519	6.2585	4.6092	8.3229	7.2067	5.4691	4.4794	7.3795	5.9909
1971	4.6443	6.2059	4.7960	8.4922	8.1087	5.5310	4.6024	8.4164	6.2743
1972	4.9990	6.4326	5.0938	8.7871	8.4788	5.8371	4.9313	9.0243	6.4114
1973	5.1946	6.4267	5.0762	9.1116	8.9605	5.8645	5.0283	9.7991	6.5639
1974	6.5868	6.7122	5.4919	11.8474	12.6349	6.4379	5.9352	14.0837	8.0126
1975	7.8209	7.2455	6.4377	14.2350	13.8403	7.3058	7.4038	15.3262	9.3385
1976	8.6174	7.9021	7.5752	14.9019	14.5315	7.9498	8.5757	16.1314	9.7143
1977	9.2415	8.5150	8.2985	15.6907	15.8269	9.1476	9.6675	17.3490	11.2045
1978	9.9502	9.0768	8.9243	17.4821	16.3347	10.8207	10.5011	16.8437	12.2391
1979	10.3730	9.5323	9.6273	18.4237	17.5689	12.7118	10.7687	18.1588	13.2802
1980	11.0199	9.8183	10.3458	21.1899	21.1606	13.6284	14.0973	21.9519	14.5662

TABLE C-2 ELECTRICITY PRICES: COMMERCIAL SECTOR
(\$/MILLION BTU)

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1960	6.6240	3.2005	7.3307	10.1425	6.2332	9.3169	4.1783	5.7862	6.7588
1961	6.2076	3.0601	7.1308	9.5048	5.6321	8.9377	4.1887	5.6040	6.1464
1962	6.1431	4.2374	7.0555	9.4741	5.3361	8.8788	4.1160	5.7404	6.0727
1963	5.9304	4.1319	6.9417	9.2441	5.4377	8.5264	4.0778	5.5901	6.0548
1964	5.7572	4.0630	6.7190	9.0045	5.2991	8.5004	3.9921	5.4628	6.1078
1965	5.6203	4.0117	6.5463	8.8335	5.0371	8.2182	3.9750	5.2745	5.8925
1966	5.5112	3.8590	6.3333	8.6194	4.9424	8.0501	3.9435	5.1246	5.8173
1967	5.4208	3.7900	6.2380	8.4957	4.8063	7.3520	4.0623	5.0496	5.4362
1968	5.3411	3.7736	6.0887	6.9014	4.6150	7.1004	4.1107	5.0116	5.1819
1969	5.2806	3.7140	6.0170	6.6666	4.5800	7.1599	4.3683	4.9604	5.1105
1970	5.2047	3.6866	6.3481	6.6391	4.5874	7.1275	4.7048	4.9129	5.0315
1971	5.2656	3.9090	7.1170	6.8492	4.8958	7.0759	5.1990	4.9253	5.1674
1972	5.3980	3.8920	7.4518	7.6593	5.0959	7.0441	5.2098	5.0627	5.3271
1973	5.3143	4.0078	7.7687	7.9935	5.2743	7.1103	5.4659	5.1456	5.3908
1974	5.6002	4.4322	9.6523	11.9458	6.6920	7.4778	6.1711	5.9522	5.5790
1975	6.2267	4.8066	10.9856	12.8012	7.9098	8.1543	7.6497	7.0158	6.6082
1976	7.4117	5.1405	11.4678	12.6538	8.4526	9.1799	8.2333	7.9880	7.3471
1977	8.5099	5.4288	12.4839	13.9996	9.2706	9.2747	8.7549	9.3415	8.2750
1978	9.2811	5.9943	13.2958	14.3028	9.6523	9.9122	10.2073	10.2481	9.5348
1979	9.7798	6.4262	14.0387	16.1495	10.4606	10.5127	11.4079	11.3911	10.9432
1980	10.8441	7.8253	15.6506	19.3728	11.1079	11.1372	12.5440	12.7784	12.3974

YEAR	VA	VT	WA	WI	WV	WY	US
1960	5.8326	9.2056	4.1424	7.6557	6.8867	5.0367	6.9695
1961	5.6301	7.6888	3.8387	7.3695	6.7964	4.6205	6.6495
1962	5.4447	7.4719	3.9041	7.3581	6.6811	5.3702	6.7050
1963	5.2497	7.5607	3.8219	7.1773	6.5508	5.5591	6.4532
1964	5.1256	7.4373	3.8147	6.9881	6.3412	5.5521	6.2547
1965	4.9423	7.2816	3.6943	6.7806	6.2064	5.4359	6.1060
1966	4.8079	6.9618	3.3242	6.5584	5.9457	5.3171	5.8755
1967	4.7138	6.7391	2.9526	6.4867	5.8076	5.1525	5.7750
1968	4.5808	6.7024	2.9998	6.4639	5.6070	5.0767	5.6913
1969	4.4838	6.6157	3.0000	6.6378	5.5065	5.0544	5.6434
1970	4.5776	6.4163	3.0360	6.8866	5.4991	4.9904	5.7201
1971	4.7643	6.5315	3.0694	7.0095	5.9240	5.0793	6.0324
1972	4.9492	7.1763	3.1826	7.4365	6.2943	5.3497	6.3296
1973	5.0831	7.7134	3.2154	7.8554	6.4065	4.9994	6.5984
1974	6.8073	9.4809	3.4778	8.3369	7.6133	4.9388	8.1708
1975	8.7712	10.4873	3.7950	9.3694	9.2467	5.0667	9.2509
1976	8.9657	11.3071	3.7599	9.8405	10.1089	5.2041	9.9129
1977	10.7313	11.5051	4.2719	10.9660	10.0841	5.7454	10.9948
1978	11.0223	12.2468	4.2090	11.6306	10.7756	6.3514	11.6882
1979	12.4421	12.2226	4.5385	12.4744	10.5560	6.7476	12.8991
1980	14.4197	13.5404	5.1290	13.9508	11.8992	6.9168	14.6542

TABLE C-3 ELECTRICITY PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1960	9.5447	1.9646	2.6602	2.9464	3.4180	3.7455	4.5184	3.5807	3.6085
1961	9.4941	1.9704	2.8840	2.8602	3.4253	3.8302	4.5249	3.6670	3.4775
1962	8.8344	1.9487	2.8376	3.3157	3.3235	4.0341	4.4845	3.6948	2.9094
1963	5.9446	1.8966	2.6775	3.4299	3.1585	3.8350	4.4040	3.6594	2.8253
1964	5.3187	1.8580	2.5528	3.3561	3.1212	3.7296	4.1971	3.2135	2.7110
1965	5.5643	1.8494	2.4617	3.3207	2.7922	3.5788	4.1237	3.1637	2.5438
1966	5.1220	1.8595	2.3829	3.2926	2.6244	3.5172	4.0109	3.1438	2.4705
1967	5.4081	1.8680	2.5109	3.4131	2.7003	3.4055	3.9737	3.2124	2.5265
1968	5.1542	1.9397	2.5734	3.3282	2.6746	3.3757	3.9642	3.2487	2.5504
1969	4.9099	1.9403	2.5789	3.3023	2.6855	3.3784	3.9352	3.3263	2.6651
1970	5.0205	2.0983	2.6064	3.3352	2.7179	3.2792	3.9993	3.7627	2.9027
1971	5.1142	2.4019	2.7635	3.4443	2.8708	3.2878	4.4551	4.0504	3.5945
1972	5.3980	2.5226	2.9660	3.5367	3.1230	3.5178	5.1060	4.1511	4.4186
1973	5.8453	2.8248	3.3543	4.1731	3.5375	3.8593	5.6200	4.5597	5.0628
1974	5.9517	3.5743	4.5649	5.1669	5.2771	4.1623	8.3673	7.8148	7.4962
1975	6.3066	5.0164	4.8121	6.6467	6.2207	5.1535	9.7651	8.9267	8.5871
1976	9.7053	5.3676	6.3075	7.2096	7.1317	5.6391	9.7165	7.3979	8.4722
1977	9.4885	6.3711	6.8587	8.1390	8.8580	5.9407	10.1615	8.0221	9.3857
1978	9.4519	7.0706	6.9869	8.4596	10.0618	6.4624	10.1534	9.4221	9.9136
1979	9.5612	8.3307	7.3623	9.4274	10.2968	7.5242	12.0792	9.3495	10.8947
1980	10.0234	9.6424	8.4408	10.6682	14.5662	8.9390	15.2110	10.9027	13.5991

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	3.9661	2.7929	4.4955	3.8471	1.7166	3.9789	3.6942	2.9556	1.4411
1961	3.8349	2.7600	4.4438	3.9866	1.6451	3.7072	3.6228	3.2412	1.4596
1962	3.7625	2.7212	4.4974	3.9702	1.7816	3.4389	3.5707	3.4030	1.5028
1963	3.6611	2.6957	4.4592	3.8430	1.6814	3.3436	3.4807	3.2836	1.5115
1964	3.5622	2.6634	4.3555	3.7162	1.7233	3.2353	3.4246	3.2448	1.5523
1965	3.4080	2.6005	4.3323	3.5636	1.7029	3.1543	3.3387	3.2217	1.5836
1966	3.2909	2.5412	4.3077	3.5186	1.6819	3.0956	3.2738	3.2228	1.6514
1967	3.2235	2.5625	4.3366	3.5861	1.7097	3.1188	3.2671	3.1965	1.7140
1968	3.2137	2.5650	4.3369	3.6649	1.6937	3.1274	3.2405	3.2278	1.7469
1969	3.3275	2.6192	4.2852	3.5838	1.7044	3.1606	3.1915	3.2358	1.8321
1970	3.3316	2.7282	4.2983	3.6221	1.7190	3.3345	3.2932	3.2770	2.0198
1971	3.4225	2.9678	4.6457	3.8120	1.7739	3.5668	3.4034	3.3215	2.2475
1972	3.7652	3.1735	4.7646	3.9691	1.8151	3.8301	3.6721	3.3723	2.3472
1973	4.0707	3.4666	5.2704	4.1184	1.8965	3.9826	3.7599	3.5389	2.4928
1974	5.5362	4.7120	6.0731	4.6124	2.0232	4.7928	4.1799	3.9343	3.0517
1975	7.0333	6.8098	9.1416	5.8593	2.5055	5.9701	5.2620	5.2175	4.2360
1976	7.9306	6.7615	9.4394	6.5194	2.9771	6.5903	5.8367	6.0139	4.5864
1977	7.8827	7.3528	10.6403	7.3597	3.4024	7.2307	7.2030	7.3391	5.0236
1978	8.5155	8.3893	12.2611	7.7762	3.5617	8.4103	8.5285	8.0321	6.3605
1979	9.5026	8.8387	13.3220	8.7916	4.1653	9.0977	9.1263	8.4997	7.0905
1980	12.6026	9.8769	17.4384	9.5545	5.0996	11.0785	10.1700	9.7597	8.0305

TABLE C-3 ELECTRICITY PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	2.5107	5.2233	4.3538	3.7120	3.6874	4.4803	3.8177	2.9475	1.2579
1961	2.7745	5.2981	4.3764	3.8320	3.6871	4.5948	3.8424	2.9123	1.3080
1962	2.7216	4.9056	4.3270	3.8203	3.5547	4.6014	3.7779	2.9557	1.3419
1963	2.6683	4.8842	4.1972	3.7924	3.4394	4.3676	3.6534	2.8183	1.3279
1964	2.6091	4.8491	3.6075	3.7544	3.3819	4.2271	3.5767	2.7084	1.3207
1965	2.5214	4.7732	3.5269	3.6865	3.2987	4.1423	3.5389	2.5867	1.2896
1966	2.3690	4.6691	3.4390	3.6071	3.1661	4.0477	3.4898	2.5338	1.2463
1967	2.3776	4.6607	3.4363	3.5785	3.2077	3.9385	3.4888	2.5604	1.2406
1968	2.3516	4.4876	3.4423	3.3756	3.1732	3.8293	3.4877	2.6360	1.1844
1969	2.3469	4.4700	3.4725	3.3680	3.1981	3.8446	3.5247	2.6923	1.1890
1970	2.3304	4.5641	3.5173	3.2926	3.4989	3.9052	3.7509	2.7544	1.2439
1971	2.3854	5.0961	3.9212	3.4140	3.7729	4.1099	3.9336	2.9942	1.2521
1972	2.4542	5.5137	4.1730	3.7015	3.9428	4.3126	4.1317	3.1946	1.3031
1973	2.8654	5.8895	4.4969	3.8530	4.2225	4.3572	4.3913	3.5038	1.5522
1974	3.6579	9.1609	6.7156	5.4924	5.5815	5.0975	4.9790	4.8025	1.4728
1975	3.7087	10.4113	7.6708	5.9998	7.2690	6.2480	6.0038	5.9339	1.8213
1976	3.8961	10.9459	7.3995	6.928	7.9214	6.9301	6.9012	6.9789	1.7861
1977	4.5152	11.8984	8.0204	6.2972	8.5904	8.1881	7.2892	7.5529	1.9680
1978	5.1886	11.8268	9.4207	6.4993	9.6279	8.5905	8.3349	8.1426	2.1161
1979	6.3430	13.2192	9.3477	8.4953	10.3764	8.9512	9.0545	9.2704	2.3355
1980	8.3822	16.2661	10.9027	12.2509	12.3095	10.2286	10.3165	10.6096	2.7843

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1960	2.5281	5.7046	2.8989	4.2848	3.7994	3.5647	1.2921	3.7132	2.2388
1961	2.5670	5.9082	3.2948	4.2751	3.8211	3.6254	1.3125	3.7011	2.2322
1962	2.6380	6.3102	3.1270	4.3792	3.7282	3.6410	1.0885	3.6321	2.2844
1963	2.5951	5.9801	3.2347	4.2614	3.5795	3.5886	1.2109	3.0503	2.2842
1964	2.5171	5.9966	3.2745	4.1714	3.4530	3.5045	1.1638	3.0661	2.3170
1965	2.4684	5.8680	3.1641	4.1146	3.4300	3.3894	1.3322	3.0369	2.3480
1966	2.4893	5.8460	3.0758	4.1087	3.3863	3.2900	1.5681	3.0098	2.4743
1967	2.4918	5.7983	3.1372	4.0766	3.4305	3.1815	1.7835	3.0493	2.5044
1968	2.4760	5.7612	3.1364	3.9143	3.5058	3.1833	1.8882	3.1283	2.5348
1969	2.4802	5.6495	3.1644	3.9120	3.5067	3.1931	1.8977	3.0964	2.5849
1970	2.5802	5.5677	3.2017	3.9136	3.6449	3.2227	2.0071	3.2830	2.7156
1971	2.7596	5.6558	3.3854	3.8734	4.4038	3.2291	2.1453	3.6886	2.9299
1972	2.9498	5.9349	3.5512	4.0167	4.7093	3.3805	2.2861	3.9294	2.9636
1973	3.2009	5.9975	3.7235	4.4451	5.1515	3.5318	2.7514	4.1805	3.0793
1974	4.4959	6.4006	3.8624	6.9131	8.2625	4.2326	3.9290	6.2001	4.2471
1975	5.9052	7.4325	4.6056	8.7455	9.3175	5.1485	3.9254	7.3999	5.2106
1976	6.2827	7.8214	5.4517	8.6767	9.7164	6.1083	5.7279	7.4789	5.2288
1977	6.7807	8.4233	5.6390	9.2410	11.1517	7.3849	6.6583	8.3941	5.9724
1978	7.4404	8.6202	6.1236	10.6808	11.3602	9.2692	7.1443	8.6583	7.0315
1979	7.6964	8.8077	6.6422	11.7900	12.3417	11.5131	8.3831	9.7903	7.7187
1980	8.3529	9.1442	7.4443	14.7714	15.8851	12.6026	10.8734	11.3130	9.1442

TABLE C-3 ELECTRICITY PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1960	2.9989	0.9621	3.5724	5.1042	2.1815	4.4684	1.3730	2.9127	3.3355
1961	3.2030	0.8371	3.5702	5.0815	2.1566	4.2986	1.4025	2.8619	3.4659
1962	3.1993	1.2362	3.5173	5.0179	2.2124	4.3685	1.4313	2.8517	3.5609
1963	3.0210	1.2476	3.4282	4.9361	2.1673	4.2182	1.4165	2.7569	3.6156
1964	2.9835	1.1975	3.2726	4.8713	2.1684	4.1232	1.4328	2.6642	3.6079
1965	2.9646	1.1647	3.1756	4.7940	2.1572	4.1115	1.4637	2.5822	3.5931
1966	2.9469	1.1718	3.0845	4.6841	2.1613	4.1250	1.4666	2.4843	3.5306
1967	2.9445	1.1374	3.1067	4.6556	2.1708	4.2026	1.5165	2.4257	3.6850
1968	2.9517	1.1237	3.0522	4.4609	2.1590	4.2288	1.5891	2.3926	3.6858
1969	2.9426	1.1389	3.0549	4.3828	2.1533	4.2511	1.7046	2.3453	3.5682
1970	2.9255	1.1801	3.3223	4.5253	2.2604	4.4158	1.9151	2.3488	3.5121
1971	2.9259	1.2760	3.9273	4.9569	2.4780	4.6629	2.3284	2.3511	3.7011
1972	2.9616	1.3488	4.1713	5.4923	2.5692	4.8276	2.3140	2.4591	3.8694
1973	3.0161	1.3432	4.3771	5.7891	2.8896	4.8194	2.4468	2.6913	3.8497
1974	3.2841	1.4492	6.1661	9.6196	4.1278	5.1241	2.9905	3.3890	4.1253
1975	3.9816	1.9809	7.4230	10.5477	5.3866	5.5765	4.5228	4.3622	5.0034
1976	5.1672	2.3477	7.5384	10.5483	5.6667	6.3247	5.0367	5.4169	5.8699
1977	6.2739	2.6002	8.4664	11.6135	6.3283	6.5697	5.3271	6.3036	6.3626
1978	6.8045	3.0460	9.0631	12.0887	6.7352	7.4660	6.8878	6.9041	7.0447
1979	7.1014	3.5033	9.8007	13.7061	7.4757	7.7793	8.1085	7.9945	8.1447
1980	8.1770	4.3376	12.0164	17.2333	7.9719	8.5873	9.0856	9.2321	9.2907

YEAR	VA	VT	WA	WI	WV	WY	US
1960	3.1206	4.2325	0.9474	3.9004	2.5601	3.2193	2.8339
1961	3.1142	4.3866	0.9608	4.0546	2.5506	3.7232	2.8427
1962	3.0390	4.3927	0.9693	4.0120	2.5035	3.0646	2.8148
1963	3.0056	4.3317	0.9560	3.9218	2.4467	2.7688	2.7136
1964	2.9314	4.2630	0.9451	3.8806	2.3871	2.7317	2.6729
1965	2.8113	4.1565	0.9176	3.7746	2.3709	2.6868	2.6272
1966	2.7905	4.0518	0.9117	3.6606	2.3555	2.6766	2.6055
1967	2.8171	4.2124	0.9090	3.6529	2.3795	2.9209	2.6319
1968	2.7748	4.2808	0.9210	3.6304	2.3462	3.0029	2.6393
1969	2.7860	4.2405	0.8825	3.7502	2.3586	3.0099	2.6535
1970	2.8846	4.2305	0.9119	3.9579	2.4583	3.0255	2.7796
1971	3.1458	4.3775	0.9371	4.1654	2.8022	3.0431	3.0332
1972	3.4071	4.8864	0.9414	4.3623	3.0833	3.0708	3.2009
1973	3.5480	5.2059	0.9827	4.6134	3.1960	3.0771	3.4431
1974	5.3469	6.6033	0.9747	5.0250	4.4674	3.1362	4.5374
1975	6.8423	7.0664	1.2741	6.1539	6.0916	3.1926	5.6297
1976	6.7080	7.5781	1.3213	6.8714	6.3922	3.5220	6.0621
1977	7.9236	7.6107	1.2640	6.0642	6.4047	3.8388	6.8238
1978	7.8476	8.2544	1.3445	7.5658	7.1021	4.5182	7.5995
1979	9.4303	8.4107	1.4649	8.3395	7.1308	4.5575	8.3522
1980	11.3130	9.7304	2.0809	9.2907	8.0305	4.8066	9.9941

TABLE C-4 ELECTRICITY PRICES: TRANSPORTATION SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1960	0.0	0.0	0.0	0.0	3.1205	0.0	3.6894	3.3900	0.0
1961	0.0	0.0	0.0	0.0	3.1528	0.0	7.8664	3.8156	0.0
1962	0.0	0.0	0.0	0.0	3.1638	0.0	0.0	3.8149	0.0
1963	0.0	0.0	3.0285	0.0	3.0216	0.0	0.0	3.7518	0.0
1964	0.0	0.0	3.4193	0.0	2.9488	0.0	0.0	3.4444	0.0
1965	0.0	0.0	3.7775	0.0	3.1588	0.0	0.0	3.4543	0.0
1966	0.0	0.0	3.7124	0.0	2.9845	0.0	0.0	3.4228	0.0
1967	0.0	0.0	3.6635	0.0	2.8885	0.0	0.0	3.5540	0.0
1968	0.0	0.0	3.2506	0.0	2.9019	0.0	0.0	3.5555	0.0
1969	0.0	0.0	3.4400	0.0	2.8748	0.0	0.0	3.5814	0.0
1970	0.0	0.0	3.5170	0.0	2.8764	0.0	0.0	3.6652	0.0
1971	0.0	0.0	3.4682	0.0	2.9476	0.0	0.0	4.3708	0.0
1972	12.0200	0.0	3.6880	0.0	3.0436	0.0	0.0	4.6335	0.0
1973	20.8100	0.0	4.4864	0.0	3.2026	0.0	0.0	5.0703	0.0
1974	21.9800	0.0	6.3196	0.0	3.9229	0.0	0.0	7.5090	0.0
1975	9.2300	0.0	7.2200	0.0	4.3351	0.0	0.0	8.1779	0.0
1976	9.0900	0.0	7.8949	0.0	5.0750	0.0	0.0	7.5344	0.0
1977	8.9390	0.0	5.5377	0.0	8.1838	0.0	0.0	7.3841	0.0
1978	8.6460	0.0	4.1178	0.0	9.1306	0.0	0.0	10.4403	0.0
1979	9.8200	0.0	8.1880	0.0	7.4084	0.0	0.0	11.0516	0.0
1980	0.0	0.0	11.3423	0.0	10.7562	0.0	0.0	12.5440	0.0
YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	0.0	3.0126	0.0	3.6635	0.0	4.3170	4.5428	2.6377	0.0
1961	0.0	2.9523	0.0	3.6007	0.0	4.4271	4.6161	1.6120	0.0
1962	0.0	2.9308	0.0	3.3914	0.0	4.4006	4.5521	0.0	0.0
1963	0.0	2.8857	0.0	4.1618	0.0	4.5023	4.5114	0.0	0.0
1964	0.0	0.0	0.0	3.2239	0.0	4.3509	4.7908	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	4.2317	4.7344	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	4.2079	4.6217	0.0	0.0
1967	0.0	0.0	0.0	1.1723	0.0	4.0566	4.5992	0.0	0.0
1968	0.0	0.0	0.0	0.0	0.0	4.0765	4.6242	0.0	0.0
1969	0.0	0.0	0.0	0.0	0.0	4.0765	4.9336	0.0	0.0
1970	0.0	0.0	0.0	0.0	0.0	4.0848	5.2336	0.0	0.0
1971	0.0	0.0	0.0	0.0	0.0	4.4008	5.7537	0.0	0.0
1972	0.0	0.0	0.0	0.0	0.0	4.6781	5.6272	0.0	0.0
1973	0.0	0.0	0.0	0.0	0.0	5.0095	6.0896	0.0	0.0
1974	0.0	0.0	0.0	0.0	0.0	5.7646	7.5684	0.0	0.0
1975	0.0	0.0	0.0	0.0	0.0	6.1086	9.4993	0.0	0.0
1976	0.0	0.0	0.0	0.0	0.0	6.6821	11.1372	0.0	0.0
1977	0.0	0.0	0.0	0.0	0.0	7.1989	13.3466	0.0	0.0
1978	0.0	0.0	0.0	0.0	0.0	8.1658	15.5823	0.0	0.0
1979	0.0	9.2321	0.0	0.0	0.0	9.3980	17.0233	0.0	0.0
1980	0.0	9.8769	0.0	0.0	0.0	11.8406	21.5123	0.0	0.0

TABLE C-4 ELECTRICITY PRICES: TRANSPORTATION SECTOR
(¢/MILLION BTU)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	3.4637	2.8006	3.3882	0.0	5.3927	0.0	0.0	0.0	1.6301
1961	3.6049	2.8331	3.8156	0.0	5.2755	0.0	4.3962	0.0	1.6243
1962	3.7368	2.4619	3.8149	0.0	2.6377	0.0	3.0983	0.0	1.6265
1963	3.7002	2.5791	3.7518	0.0	0.0	0.0	2.8006	0.0	1.6153
1964	4.1869	2.4246	3.4444	0.0	0.0	0.0	2.4424	0.0	1.6022
1965	4.3962	2.2914	3.4543	0.0	0.0	0.0	2.5121	0.0	1.5895
1966	0.0	2.4246	3.4228	0.0	0.0	0.0	2.5959	0.0	1.5820
1967	0.0	2.3898	3.5540	0.0	0.0	0.0	2.4703	0.0	1.5762
1968	0.0	2.4912	3.5555	0.0	0.0	0.0	2.6377	0.0	1.5759
1969	3.8101	2.4703	3.5814	0.0	0.0	0.0	2.6964	0.0	1.6145
1970	3.8101	5.6611	3.6652	0.0	0.0	0.0	2.7745	0.0	1.5578
1971	0.0	8.1819	4.3708	0.0	0.0	0.0	3.0146	0.0	1.5680
1972	4.1032	8.6593	4.6335	0.0	0.0	0.0	3.2867	0.0	1.5631
1973	3.5170	7.3623	5.0703	0.0	0.0	0.0	3.4542	0.0	1.5556
1974	0.0	13.0197	7.5090	0.0	0.0	0.0	4.0543	0.0	1.5419
1975	0.0	14.7688	8.1779	0.0	0.0	0.0	5.5911	0.0	0.0
1976	0.0	18.1060	7.5344	0.0	0.0	0.0	6.9503	0.0	0.0
1977	0.0	18.6596	7.3841	0.0	0.0	0.0	8.0781	0.0	0.0
1978	0.0	21.0043	10.4403	0.0	0.0	0.0	9.0042	0.0	0.0
1979	0.0	18.5849	11.0516	0.0	0.0	0.0	9.4275	0.0	0.0
1980	0.0	21.7468	12.5440	0.0	0.0	0.0	11.3130	0.0	0.0
YEAR	NE	NC	ND	NH	NJ	NM	NV	NY	OH
1960	0.0	0.0	0.0	0.0	5.2364	0.0	5.5686	4.2523	3.2920
1961	3.8101	0.0	0.0	0.0	5.4953	0.0	6.4478	4.2993	3.3430
1962	0.0	0.0	0.0	0.0	0.0	0.0	5.8617	4.2840	3.4276
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1863	3.5690
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1614	3.6581
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2271	3.4235
1966	2.9894	0.0	0.0	0.0	0.0	0.0	0.0	4.2628	3.5769
1967	3.4193	0.0	0.0	0.0	0.0	0.0	0.0	4.2628	3.6407
1968	3.0983	0.0	0.0	0.0	0.0	0.0	0.0	4.3320	3.6880
1969	3.1820	0.0	0.0	0.0	4.1032	0.0	0.0	4.4873	3.7411
1970	3.2239	0.0	0.0	0.0	4.6160	0.0	0.0	4.8210	4.0493
1971	3.7124	0.0	0.0	0.0	5.8030	0.0	0.0	5.5008	4.5046
1972	3.7124	0.0	0.0	0.0	5.6663	0.0	0.0	6.2998	4.6144
1973	3.1420	0.0	0.0	0.0	6.2385	0.0	0.0	7.3643	4.9974
1974	3.1820	0.0	0.0	0.0	8.5483	0.0	0.0	12.4024	7.0716
1975	4.0055	0.0	0.0	0.0	11.1372	0.0	0.0	13.6612	7.6348
1976	4.4307	0.0	0.0	0.0	9.4373	0.0	0.0	13.8443	8.5923
1977	4.5750	0.0	0.0	0.0	10.6682	0.0	0.0	11.4297	11.1505
1978	4.5750	0.0	0.0	0.0	9.9648	0.0	0.0	13.4246	12.0355
1979	4.7510	0.0	0.0	0.0	12.1336	0.0	0.0	15.2516	13.1389
1980	0.0	0.0	3.8687	0.0	13.0422	0.0	0.0	15.0059	13.2181

TABLE C-4 ELECTRICITY PRICES: TRANSPORTATION SECTOR
(\$/MILLION BTU)

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1960	0.0	0.0	3.2196	0.0	0.0	0.0	0.0	1.3482	0.0
1961	0.0	0.0	3.2929	0.0	0.0	0.0	0.0	1.6413	0.0
1962	0.0	0.0	3.3251	0.0	0.0	0.0	0.0	1.6852	0.0
1963	0.0	0.0	3.2931	0.0	0.0	0.0	0.0	1.8004	0.0
1964	0.0	0.0	3.2151	0.0	0.0	0.0	0.0	4.1032	0.0
1965	0.0	0.0	3.1108	0.0	0.0	0.0	0.0	3.8101	0.0
1966	0.0	0.0	3.1108	0.0	0.0	0.0	0.0	2.3447	0.0
1967	0.0	0.0	3.6407	0.0	0.0	0.0	0.0	0.0	0.0
1968	0.0	0.0	3.2722	0.0	0.0	0.0	0.0	0.0	0.0
1969	0.0	0.0	3.2865	0.0	0.0	0.0	0.0	0.0	0.0
1970	0.0	0.0	3.6578	0.0	0.0	0.0	0.0	0.0	0.0
1971	0.0	0.0	4.4587	0.0	0.0	0.0	0.0	0.0	0.0
1972	0.0	0.0	4.8694	0.0	0.0	0.0	0.0	0.0	0.0
1973	0.0	0.0	5.2157	0.0	0.0	0.0	0.0	0.0	0.0
1974	0.0	0.0	7.5008	0.0	0.0	0.0	0.0	0.0	0.0
1975	0.0	0.0	8.4059	0.0	0.0	0.0	0.0	0.0	0.0
1976	0.0	0.0	8.5757	0.0	0.0	0.0	0.0	0.0	0.0
1977	0.0	0.0	9.3425	0.0	0.0	0.0	0.0	0.0	0.0
1978	0.0	0.0	9.3425	0.0	0.0	0.0	0.0	0.0	0.0
1979	0.0	0.0	9.2936	0.0	0.0	0.0	3.8101	0.0	0.0
1980	0.0	0.0	15.2110	0.0	0.0	0.0	0.0	0.0	0.0

YEAR	VA	VT	WA	WI	WV	WY	US
1960	0.0	0.0	2.0473	3.6994	0.0	0.0	3.8488
1961	0.0	0.0	2.0469	4.0613	0.0	0.0	3.9331
1962	0.0	0.0	2.0847	3.7243	0.0	0.0	3.9302
1963	0.0	0.0	2.0299	3.7239	0.0	0.0	3.8778
1964	0.0	0.0	1.9856	3.3305	0.0	0.0	3.8305
1965	0.0	0.0	1.9050	3.4682	0.0	0.0	3.8370
1966	0.0	0.0	1.9086	0.0	0.0	0.0	3.8393
1967	0.0	0.0	1.9436	0.0	0.0	0.0	3.8853
1968	0.0	0.0	2.0190	0.0	0.0	0.0	3.9663
1969	0.0	0.0	2.2213	0.0	0.0	0.0	4.0739
1970	0.0	0.0	2.1596	0.0	0.0	0.0	4.3756
1971	0.0	0.0	2.1432	0.0	0.0	0.0	5.0298
1972	0.0	0.0	2.2609	0.0	0.0	0.0	5.6306
1973	0.0	0.0	2.5540	0.0	0.0	0.0	6.4346
1974	0.0	0.0	2.7976	0.0	0.0	0.0	10.0571
1975	0.0	0.0	3.1995	0.0	0.0	0.0	10.9167
1976	0.0	0.0	3.3460	0.0	0.0	0.0	11.0693
1977	0.0	0.0	4.1520	0.0	0.0	0.0	10.1368
1978	14.6151	0.0	3.6635	0.0	0.0	0.0	11.4991
1979	15.0200	0.0	3.8834	0.0	0.0	0.0	12.7046
1980	13.4232	0.0	3.8980	0.0	0.0	0.0	14.1559

TABLE C-5 NATURAL GAS PRICES: RESIDENTIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1960	0.1339	1.0635	0.6523	0.7431	0.8920	0.7470	1.7867	1.5215	1.6756
1961	0.2633	1.1705	0.6975	1.0369	0.9376	0.7380	1.9456	1.5209	1.6695
1962	0.9643	1.0635	0.7010	0.8591	0.9313	0.7420	1.9211	1.4984	1.6757
1963	1.2548	1.1261	0.7199	0.8873	0.9293	0.7487	1.8791	1.5028	1.6300
1964	1.2525	1.0871	0.7319	0.8754	0.9667	0.7696	1.8345	1.4652	1.6143
1965	1.4882	1.0924	0.7238	1.0091	0.8918	0.7419	1.8215	1.4041	1.5905
1966	1.5022	1.0651	0.7073	0.8753	0.8705	0.6490	1.8121	1.4288	1.5667
1967	1.5133	1.0979	0.7143	0.9017	0.8634	0.7313	1.7894	1.4079	1.5318
1968	1.5092	1.0601	0.7010	0.8987	0.8723	0.6869	1.7841	1.3873	1.5302
1969	1.5092	1.0552	0.7080	0.9638	0.8681	0.6950	1.7874	1.3895	1.4433
1970	1.5115	1.0949	0.7525	1.1227	0.9275	0.7329	1.8819	1.4269	1.5373
1971	1.5234	1.1492	0.7854	1.1479	0.9736	0.7605	2.0364	1.4819	1.5781
1972	1.5453	1.2279	0.8237	1.1747	1.0237	0.8029	2.0610	1.6220	1.6765
1973	1.5585	1.3294	0.8729	1.2955	1.1026	0.8580	2.2138	1.6582	1.8163
1974	1.5722	1.5077	1.0611	1.4085	1.3068	1.0341	2.7568	1.8731	2.0687
1975	1.6189	1.5238	1.1194	1.4582	1.4891	1.2672	3.2765	2.3026	2.3783
1976	1.6448	1.9310	1.2307	2.0124	1.6891	1.3872	3.3838	2.5988	2.5453
1977	1.7014	2.2395	1.9393	2.4734	1.7937	1.8054	4.2969	3.2283	3.1544
1978	1.7599	2.6208	1.9582	2.8832	1.8847	2.2125	4.4155	3.2480	3.9382
1979	1.7080	3.5501	1.5427	3.3517	2.3520	2.7748	4.6890	3.6024	3.9036
1980	1.7318	3.9126	2.4713	3.8632	3.3621	3.2622	5.7240	4.5602	4.1550

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	2.8632	0.9578	0.0	0.9344	1.1975	1.1059	0.9295	0.5641	0.7610
1961	2.6882	1.0026	0.0	0.9356	1.2222	1.1199	0.9835	0.6164	0.7915
1962	2.5702	1.0092	0.0	0.9403	1.2245	1.1227	0.9891	0.5593	0.7839
1963	2.7534	0.9967	0.0	0.9468	1.2327	1.1027	0.9913	0.5645	0.7772
1964	2.5657	0.9872	0.0	0.9355	1.1919	1.0317	0.9492	0.5760	0.7829
1965	2.4033	0.9997	0.0	0.9226	1.2716	1.0029	0.9522	0.5760	0.7902
1966	2.1290	0.9309	0.0	0.9112	1.1978	0.9806	0.9470	0.5906	0.7822
1967	2.1791	0.9847	0.0	0.9085	1.2325	0.9896	0.9820	0.5974	0.8232
1968	2.4752	0.9770	0.0	0.9154	1.3270	0.9910	0.9341	0.6341	0.7770
1969	2.3711	0.9741	0.0	0.9187	1.3393	0.9729	0.9371	0.6478	0.7828
1970	2.4058	1.0106	0.0	0.9517	1.3349	1.0165	1.0060	0.6898	0.8118
1971	2.4278	1.0926	0.0	1.0118	1.4338	1.0418	1.0757	0.7221	0.8627
1972	2.5533	1.2192	0.0	1.0961	1.4204	1.1073	1.1312	0.7375	0.9095
1973	2.5906	1.2654	0.0	1.1561	1.4376	1.1853	1.1974	0.7561	0.9706
1974	2.7325	1.3619	0.0	1.2067	1.7278	1.3196	1.2839	0.9128	1.0837
1975	2.6260	1.4575	0.0	1.4156	2.0672	1.5721	1.4697	1.0457	1.2173
1976	2.7021	1.6501	0.0	1.5992	2.1201	1.8517	1.7117	1.5106	1.3057
1977	3.3769	1.9143	0.0	1.9272	2.6953	2.1526	2.0424	1.7516	1.7684
1978	3.3810	2.2667	0.0	2.2470	3.2343	2.4579	2.1921	1.8095	1.9180
1979	3.5670	2.7690	0.0	2.6777	3.5573	2.9343	2.6736	1.9962	2.3311
1980	4.6128	3.5654	13.4966	3.1825	4.7273	3.5338	3.1897	2.3981	3.0024

TABLE C-5 NATURAL GAS PRICES: RESIDENTIAL SECTOR
(\$/MILLION BTU)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	0.6192	2.1452	1.5168	0.0	0.9415	1.1582	0.7782	0.8661	0.6598
1961	0.6345	2.0988	1.5162	0.0	0.9811	1.1532	0.7923	0.8517	0.6540
1962	0.6648	2.0469	1.4937	0.0	0.9825	1.1020	0.7857	0.8589	0.7512
1963	0.6838	1.7752	1.4981	0.0	0.9823	1.1141	0.8080	0.8702	0.7462
1964	0.6583	1.9214	1.4634	0.0	0.9805	1.0852	0.8231	0.8116	0.7624
1965	0.6945	1.8501	1.4038	0.0	0.9728	1.0593	0.8241	0.8480	0.7798
1966	0.7056	1.8836	1.4271	3.0785	0.9659	1.0368	0.8327	0.8532	0.7777
1967	0.7280	1.8539	1.4090	3.0143	0.9598	1.0207	0.8242	0.8613	0.7981
1968	0.7362	1.8343	1.3857	3.1463	0.9624	1.0206	0.8441	0.9502	0.8228
1969	0.7421	1.8330	1.3879	3.0259	0.9695	1.0624	0.8686	0.8594	0.8849
1970	0.7581	1.8963	1.4225	3.0726	1.0000	1.0895	0.9507	0.8625	0.8937
1971	0.8188	2.0939	1.4772	3.1747	1.0473	1.1759	1.0020	0.9210	0.9203
1972	0.8892	2.2629	1.6137	3.3401	1.0818	1.2285	1.0894	1.0556	0.9360
1973	0.9437	2.3749	1.6481	3.3943	1.1703	1.3053	1.1668	1.0635	1.0523
1974	1.0874	2.6858	1.8599	3.7118	1.3605	1.4086	1.2637	1.2000	1.0959
1975	1.3192	3.1393	2.3021	4.0775	1.6018	1.5674	1.4861	1.3762	1.2693
1976	1.5135	3.6203	2.5247	4.1113	1.8839	1.7417	1.6938	1.6732	1.3454
1977	1.9005	3.9224	4.1437	5.2734	2.2078	2.1384	2.1795	2.0556	1.7997
1978	2.3643	4.1293	2.3299	4.8828	2.2953	2.4140	2.2803	2.3481	1.8931
1979	2.6126	4.5129	2.7182	6.2000	2.6301	2.8754	2.8157	2.7637	2.2350
1980	3.2780	5.3357	4.3796	6.2007	3.1568	3.2380	3.2403	3.3835	3.0165

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1960	1.4044	0.7848	0.8390	1.9223	2.0318	0.7145	1.1007	1.5240	0.7610
1961	1.4527	0.8613	0.8509	1.8005	1.9416	0.7167	1.2708	1.6020	0.7730
1962	1.4362	0.8678	0.8540	1.8605	1.8798	0.7349	1.2298	1.3384	0.7791
1963	1.3845	0.8885	0.8232	1.8525	1.8252	0.7227	1.2245	1.3046	0.7917
1964	1.3983	0.8941	0.8287	1.7057	1.8485	0.8248	1.4034	1.3727	0.7983
1965	1.3280	0.8935	0.8241	1.7769	1.8401	0.8407	1.3783	1.3938	0.8303
1966	1.2080	0.9288	0.8101	1.8333	1.8395	0.7085	1.2889	1.4462	0.8316
1967	1.2704	0.9353	0.7972	1.7855	1.8409	0.8295	1.3473	1.3920	0.8296
1968	1.2615	0.9276	0.7966	1.8807	1.8452	0.8097	1.4290	1.3555	0.8293
1969	1.2193	0.9405	0.8327	1.8063	1.7878	0.8288	1.4045	1.3457	0.8438
1970	1.2683	1.0039	0.8485	1.8191	1.8294	0.8505	1.4084	1.3693	0.8763
1971	1.3054	1.0775	0.9192	1.8811	1.8856	0.8744	1.4131	1.4662	0.9582
1972	1.3740	1.0980	0.9831	1.9608	1.9669	0.8984	1.4085	1.5828	1.0303
1973	1.4654	1.1171	1.0358	1.9952	2.0282	0.9404	1.4414	1.6903	1.0829
1974	1.6488	1.1877	1.1376	2.1836	2.1930	1.1676	1.6120	1.9550	1.2086
1975	1.9881	1.5075	1.2887	2.4256	2.6111	1.2499	1.8275	2.4985	1.4702
1976	2.0950	1.7902	1.3743	2.3762	3.0367	1.2895	1.9164	2.8301	1.7298
1977	2.7596	2.1059	1.0431	3.3400	3.3103	2.0009	2.6520	3.2452	2.1602
1978	2.9379	2.3280	1.9723	3.3456	3.4135	2.3658	2.7239	3.6327	2.3681
1979	3.4406	2.8779	2.3183	3.7115	4.1510	2.5861	2.7932	4.0610	2.7397
1980	4.0514	3.6610	2.7907	4.5715	4.9029	3.1857	3.8340	4.8351	3.4903

TABLE C-5 NATURAL GAS PRICES: RESIDENTIAL SECTOR
(\$/MILLION BTU)

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1960	0.6887	1.4121	1.0296	1.9443	1.4289	0.9654	0.8999	0.7367	0.7943
1961	0.6948	1.4322	1.0600	1.9701	1.4722	0.9725	0.8997	0.7615	0.8069
1962	0.7011	1.4223	1.0632	1.9434	1.4124	0.9718	0.7569	0.7723	0.8296
1963	0.7114	1.4054	1.0575	1.8777	1.3819	0.9795	0.9182	0.8216	0.7924
1964	0.7075	1.3985	1.1187	1.8340	1.3738	0.9607	0.8742	0.8137	0.7633
1965	0.7486	1.4319	1.1059	1.7884	1.3453	0.9735	0.8738	0.8252	0.7805
1966	0.7528	1.5005	1.1040	1.7760	1.3012	1.0096	0.8615	0.8130	0.7487
1967	0.7580	1.4862	1.1091	1.7388	1.3423	0.9890	0.8666	0.8343	0.7387
1968	0.7561	1.4646	1.1104	1.7055	1.2770	0.9852	0.8513	0.8382	0.8043
1969	0.8016	1.4146	1.1413	1.7083	1.2838	1.0010	0.8528	0.8661	0.8973
1970	0.8181	1.4390	1.1975	1.7752	1.3110	1.0348	0.8846	0.8916	0.9120
1971	0.8502	1.5238	1.2391	1.8721	1.4244	1.0965	0.9467	0.9613	0.9367
1972	0.8702	1.6057	1.3127	2.0108	1.5710	1.1275	1.0019	0.9873	0.9606
1973	0.8983	1.6633	1.4295	2.3354	1.6101	1.1919	1.0543	1.0117	1.0445
1974	1.0174	1.9157	1.6211	2.5173	1.9220	1.2913	1.1471	1.1392	1.1239
1975	1.2000	2.1136	1.8868	3.0424	2.0821	1.3970	1.2522	1.4844	1.2821
1976	1.4763	2.5889	2.0859	3.3168	2.3294	1.5025	1.5656	1.9385	1.4545
1977	1.7361	3.2936	2.4544	4.1736	2.8121	1.8279	2.0310	2.3291	1.7231
1978	1.8849	3.6618	2.5775	4.1268	2.9109	2.1016	2.0817	2.6564	2.0173
1979	2.1474	3.9452	3.1276	3.6270	3.4387	2.6245	2.2903	3.1127	2.3151
1980	2.4059	5.3621	3.7270	5.5751	4.0581	3.1383	2.8451	3.2984	2.5242

YEAR	VA	VT	WA	WI	WV	WY	US
1960	1.5516	0.0	1.3884	1.2129	0.7944	0.7030	1.0021
1961	1.5579	0.0	1.3369	1.2359	0.7923	0.6659	1.0366
1962	1.5269	0.0	1.3749	1.2136	0.8037	0.6569	1.0110
1963	1.5376	0.0	1.3663	1.1906	0.7956	0.7008	1.0134
1964	1.4339	0.0	1.2694	1.1731	0.7927	0.7121	1.0210
1965	1.4530	0.0	1.3139	1.1427	0.7937	0.6946	1.0158
1966	1.4388	1.7688	1.4616	1.1410	0.8078	0.6774	1.0099
1967	1.4186	1.7321	1.3923	1.0010	0.8081	0.6948	1.0111
1968	1.3956	1.8195	1.3738	1.0702	0.8183	0.6927	1.0102
1969	1.3822	1.7024	1.2825	1.1327	0.8458	0.7094	1.0163
1970	1.4480	1.7383	1.3248	1.2202	0.8617	0.6875	1.0591
1971	1.4791	1.7982	1.3541	1.2368	0.9072	0.7127	1.1166
1972	1.5575	1.8996	1.3905	1.3131	0.9368	0.7234	1.1821
1973	1.6381	1.9290	1.4767	1.4084	0.9456	0.7523	1.2610
1974	1.8297	2.1052	1.6904	1.4778	1.0752	0.8534	1.4210
1975	2.2022	2.3523	2.1823	1.7118	1.4012	1.0888	1.6727
1976	2.4886	2.8175	2.5889	2.0746	1.5992	1.2515	1.9392
1977	2.9599	3.6409	2.9894	2.4581	2.4442	1.6948	2.3005
1978	3.2023	3.5230	3.3238	2.6503	2.5305	2.0914	2.5149
1979	3.6036	3.9600	3.7691	3.0239	2.8573	2.7045	2.9416
1980	4.1990	6.2935	5.0506	3.7211	3.5667	2.6600	3.5886

TABLE C-6 NATURAL GAS PRICES: COMMERCIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1960	0.0	0.6466	0.4940	0.3850	0.6298	0.6174	1.6378	1.4077	1.5347
1961	0.8223	0.5732	0.5072	0.6012	0.6458	0.6206	1.6840	1.3770	1.4571
1962	0.8251	0.5611	0.4589	0.5236	0.6524	0.5950	1.7673	1.3443	1.4409
1963	0.8490	0.5542	0.4814	0.5155	0.6436	0.6014	1.5221	1.3320	1.3841
1964	0.9289	0.5265	0.5221	0.4979	0.6387	0.6206	1.4491	1.2883	1.3425
1965	0.9500	0.5214	0.4486	0.5085	0.6394	0.5948	1.6150	1.2249	1.3998
1966	0.9590	0.5167	0.4435	0.5214	0.6403	0.5416	1.5284	1.4042	1.2479
1967	0.9901	0.5456	0.4977	0.4766	0.6335	0.6121	1.4952	1.1364	1.1723
1968	0.7539	0.5432	0.4899	0.4562	0.6423	0.5543	1.4214	1.1151	1.2148
1969	0.6467	0.5344	0.4934	0.5426	0.6411	0.5550	1.4046	1.0881	1.1747
1970	0.6813	0.5830	0.5246	0.5917	0.6858	0.5810	1.4490	1.0978	1.2076
1971	0.7281	0.6354	0.5461	0.6415	0.7135	0.6044	1.5279	1.1321	1.2329
1972	0.8134	0.7096	0.5662	0.6828	0.7709	0.6615	1.5943	1.2109	1.3285
1973	0.7685	0.7161	0.6177	0.7251	0.8078	0.7095	1.7949	1.2494	1.3589
1974	0.8695	0.8512	0.7568	0.7792	0.9394	0.8562	2.1977	1.4204	1.5979
1975	0.9693	1.0437	0.8933	1.1018	1.2190	1.0839	2.6421	1.9741	1.8639
1976	1.0519	1.5491	1.0206	1.3562	1.5079	1.1910	3.1951	2.5988	1.9274
1977	1.3381	1.7720	1.5558	1.6634	1.9703	1.5590	3.5276	3.2283	2.8612
1978	1.3249	2.0261	1.6230	2.0681	2.1312	1.9699	3.7200	3.2480	3.7355
1979	1.0313	2.7017	1.3389	2.5294	2.6032	2.5656	3.8999	3.6024	3.6302
1980	1.0547	3.2720	2.2740	2.9886	3.8067	3.0360	4.6674	4.2077	3.9085

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	1.4003	0.6550	0.0	0.6688	0.8317	0.8160	0.8554	0.5416	0.6651
1961	0.9912	0.6665	0.0	0.6707	0.8412	0.8148	0.6800	0.4177	0.6437
1962	1.5009	0.6545	0.0	0.6806	0.7974	0.8359	0.8794	0.4603	0.6401
1963	1.1937	0.6789	0.0	0.6712	0.8423	0.8492	0.9122	0.4566	0.6417
1964	1.1228	0.6711	0.0	0.6776	0.8893	0.7412	0.8426	0.4139	0.6579
1965	1.0671	0.6738	0.0	0.6680	0.8334	0.7147	0.8239	0.4103	0.6642
1966	1.0067	0.6593	0.0	0.6437	0.8711	0.6041	0.8240	0.4457	0.6621
1967	0.9078	0.6621	0.0	0.6421	0.9022	0.7228	0.8410	0.4178	0.6635
1968	0.9318	0.6708	0.0	0.6462	0.8772	0.7102	0.8026	0.4352	0.6285
1969	0.8881	0.6691	0.0	0.6529	0.8915	0.6899	0.7926	0.4273	0.6338
1970	0.8870	0.7132	0.0	0.6778	0.9731	0.7278	0.8288	0.4575	0.6541
1971	1.0171	0.8201	0.0	0.7234	0.9695	0.7569	0.8778	0.4740	0.6926
1972	1.1566	0.8602	0.0	0.8253	0.9707	0.8222	0.9210	0.5108	0.7388
1973	1.2389	0.9078	0.0	0.8883	1.0113	0.8693	0.9868	0.5399	0.7908
1974	1.5750	0.9875	0.0	0.9286	1.1630	0.9930	1.0594	0.6062	0.8953
1975	1.6287	1.0669	0.0	1.0541	1.4671	1.2794	1.2571	0.6818	1.0521
1976	1.6519	1.3461	0.0	1.2844	1.9489	1.5997	1.5125	1.1189	1.1350
1977	1.9232	1.7080	0.0	1.6407	2.2829	1.9311	1.8576	1.2171	1.6334
1978	1.9407	2.0187	0.0	1.9794	2.9191	2.2271	2.0310	1.1967	1.8126
1979	2.6369	2.4296	0.0	2.3825	3.3009	2.7398	2.4824	1.6439	2.1842
1980	3.2983	3.1183	12.6966	2.8372	4.3605	3.2666	2.9871	1.9224	2.8945

TABLE C-6 NATURAL GAS PRICES: COMMERCIAL SECTOR
(\$/MILLION BTU)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	0.3760	1.7242	1.3907	0.0	0.7880	0.8115	0.7044	0.4988	0.4636
1961	0.3708	1.7145	1.3606	0.0	0.8866	0.8517	0.6314	0.4729	0.4581
1962	0.4303	1.5627	1.3281	0.0	0.8696	0.6615	0.6264	0.4752	0.5054
1963	0.4371	1.5738	1.3164	0.0	0.8539	0.6119	0.6408	0.4776	0.5073
1964	0.3985	1.6522	1.2756	0.0	0.8494	0.8221	0.7638	0.4766	0.5322
1965	0.4108	1.5902	1.2139	0.0	0.8324	0.8184	0.8597	0.5562	0.5401
1966	0.4450	1.5102	1.3904	2.2510	0.8148	0.7323	0.5423	0.4716	0.5425
1967	0.3921	1.3668	1.1275	1.9329	0.8037	0.6079	0.5520	0.4946	0.5475
1968	0.3673	1.3945	1.1040	2.0587	0.7978	0.6204	0.5991	0.4983	0.5692
1969	0.3781	1.3949	1.0773	1.9771	0.8009	0.6591	0.5831	0.5414	0.6105
1970	0.3711	1.4005	1.0848	2.0505	0.8270	0.6910	0.6182	0.5675	0.6084
1971	0.4012	1.5773	1.1187	2.1324	0.8561	0.7546	0.6416	0.6101	0.6441
1972	0.4490	1.6925	1.1941	2.3510	0.8895	0.8328	0.7484	0.6601	0.6420
1973	0.4954	1.7914	1.2309	2.4521	0.9500	0.8506	0.7843	1.9417	0.7507
1974	0.5836	2.1259	1.3980	2.7143	1.1217	0.9778	0.8911	0.7350	0.8782
1975	0.7699	2.6361	1.9562	3.0073	1.4651	1.1609	1.1469	0.9221	1.0724
1976	1.0583	3.0584	2.5247	3.2520	1.8072	1.4138	1.3499	1.2614	1.1688
1977	1.0521	3.4080	3.1102	4.1602	2.1046	1.7189	1.8593	1.7222	1.5850
1978	1.3798	3.5055	3.3201	4.2090	2.2157	2.0295	1.9941	1.9832	1.6569
1979	2.1985	3.8044	3.6179	4.7200	2.5637	2.5991	2.5791	2.3986	2.0144
1980	2.5953	4.6490	3.8789	5.0037	3.1537	2.8877	2.8872	2.9839	3.1069

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1960	1.2622	0.5632	0.5811	1.7609	1.6998	0.4316	0.9036	1.4485	0.7618
1961	1.2879	0.5905	0.5860	1.6782	1.6505	0.4469	0.9337	1.4596	0.7045
1962	1.2843	0.5823	0.6095	1.7194	1.6621	0.4489	0.9040	1.3450	0.7071
1963	1.2088	0.5856	0.5909	1.6881	1.5404	0.5793	0.8418	1.2918	0.7176
1964	1.1679	0.6205	0.5701	1.5548	1.1845	0.4226	0.9052	1.2100	0.7207
1965	1.1230	0.6347	0.5791	1.5593	1.3049	0.4555	0.8829	1.1940	0.7302
1966	1.0558	0.6542	0.5613	1.4223	1.4443	0.5217	0.8211	1.2739	0.7270
1967	0.8888	0.6185	0.4844	1.2138	1.3552	0.4423	0.7446	1.1887	0.7195
1968	0.8724	0.6317	0.4872	1.3053	1.3197	0.4306	0.7407	1.1641	0.7120
1969	0.9114	0.6385	0.5130	1.2566	1.3338	0.4295	0.7104	1.1684	0.7266
1970	0.9384	0.6796	0.5267	1.2866	1.3739	0.4365	0.7065	1.1654	0.7434
1971	0.9588	0.7500	0.5852	1.3401	1.4112	0.4579	0.7221	1.2392	0.7987
1972	1.0444	0.7827	0.5784	1.4651	1.4513	0.4856	0.7397	1.2749	0.8585
1973	1.1066	0.8526	0.7541	1.5298	1.5124	0.4915	0.8176	1.3299	0.9024
1974	1.2452	0.9980	0.8100	1.6941	1.8150	0.6740	0.9911	1.5538	1.0497
1975	1.7149	1.1051	1.0000	1.8992	2.2584	0.7486	1.4503	1.9719	1.3136
1976	2.0035	1.3533	1.1610	2.3564	2.6772	1.0136	1.6629	2.3170	1.5820
1977	2.9895	1.6714	1.3968	3.0200	2.9956	1.5858	2.0955	2.8234	2.0291
1978	2.7353	1.9381	1.5414	2.9683	3.2598	1.8964	2.3394	3.0164	2.1900
1979	3.0261	2.4718	2.0164	3.2212	3.8559	1.8807	2.7600	3.4391	2.5365
1980	3.6674	3.2627	2.3369	4.0469	4.4490	2.8060	3.6520	4.1628	3.2633

TABLE C-6 NATURAL GAS PRICES: COMMERCIAL SECTOR
(\$/MILLION BTU)

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1960	0.4005	1.3357	0.8251	1.4716	0.9558	0.6380	0.6717	0.4880	0.5888
1961	0.4926	1.3697	0.8365	1.4023	1.0281	0.5666	0.5321	0.5101	0.5658
1962	0.4976	1.3643	0.8362	1.3854	0.9797	0.5850	0.5390	0.5255	0.5729
1963	0.4803	1.3350	0.8519	1.4123	0.9494	0.6025	0.6366	0.5562	0.5814
1964	0.4890	1.3070	0.8601	1.4420	1.0060	0.5851	0.6662	0.5427	0.5993
1965	0.4932	1.2645	0.8638	1.4990	0.9438	0.6062	0.6762	0.5228	0.6021
1966	0.5077	1.3089	0.8728	1.5493	0.9445	0.5977	0.6791	0.5225	0.5863
1967	0.4658	1.3086	0.8708	1.4168	0.9033	0.6096	0.6665	0.4204	0.6061
1968	0.4632	1.2843	0.8706	1.3943	0.9202	0.5813	0.6647	0.4273	0.6129
1969	0.4934	1.2068	0.8869	1.4029	0.8382	0.6021	0.6616	0.4414	0.6261
1970	0.5081	1.2173	0.9341	1.4280	0.8611	0.6327	0.6912	0.4394	0.6343
1971	0.5199	1.2492	0.9743	1.5686	0.9542	0.6653	0.7447	0.4797	0.6826
1972	0.5472	1.3708	1.0515	1.7849	0.9805	0.6901	0.8403	0.5104	0.7558
1973	0.6256	1.3716	1.1124	1.8556	0.9912	0.7646	0.8901	0.5407	0.8413
1974	0.7280	1.6379	1.2487	2.1032	1.1019	1.1357	0.9589	0.6899	0.9768
1975	0.9214	1.7930	1.6670	2.7081	1.2233	0.9935	1.0926	1.0235	1.5985
1976	1.1499	2.2904	1.6790	3.3433	1.4486	1.1335	1.3910	1.3868	1.6103
1977	1.4416	2.9528	2.2598	3.4166	2.0697	1.4440	2.0113	1.7495	1.8215
1978	1.6456	3.2408	2.3394	3.2381	2.3804	1.7259	1.9841	2.1361	1.7446
1979	3.3391	3.5586	2.8909	3.0540	2.7343	2.2395	2.3907	2.7553	2.4310
1980	2.2478	4.8852	3.4921	5.0002	3.1075	2.7253	2.9527	2.8972	5.1509

YEAR	VA	VT	WA	WI	WV	WY	US
1960	1.0339	0.0	1.1953	0.9987	0.6525	0.4993	0.7513
1961	1.0454	0.0	0.9144	0.9866	0.6558	0.4768	0.7541
1962	1.0466	0.0	0.9314	0.9221	0.6550	0.4615	0.7550
1963	1.0960	0.0	0.9852	0.9981	0.6593	0.4646	0.7619
1964	1.0933	0.0	1.0683	0.9721	0.6555	0.4685	0.7466
1965	1.0552	0.0	1.1602	0.9458	0.6535	0.4682	0.7487
1966	1.0320	1.6094	1.0399	0.9040	0.6674	0.4530	0.7405
1967	0.9013	1.3845	1.0825	0.7869	0.6599	0.4496	0.7123
1968	0.9573	1.4803	1.0499	0.8267	0.6634	0.4488	0.7098
1969	0.9395	1.3872	1.0373	0.7834	0.6785	0.4522	0.7162
1970	0.9348	1.4431	1.0435	0.8159	0.6827	0.4400	0.7473
1971	0.9682	1.5017	1.0652	0.9313	0.7094	0.4805	0.7979
1972	1.0748	1.6654	1.1010	0.9791	0.7248	0.4871	0.8547
1973	1.1008	1.7324	1.1857	1.0914	0.7394	0.5199	0.9244
1974	1.2763	1.9146	1.2713	1.1063	0.8722	0.5944	1.0473
1975	1.6847	2.1533	1.7458	1.2865	1.1765	0.7209	1.3219
1976	1.8601	3.0357	2.1424	1.6830	1.4407	0.8250	1.6092
1977	2.3722	3.1052	2.5584	2.0659	2.1948	1.2780	1.9871
1978	2.5883	3.3944	2.7191	2.3194	2.0877	1.8112	2.1928
1979	3.0680	3.6036	3.3075	2.6557	2.6274	2.5551	2.6984
1980	3.7074	6.2131	4.5951	3.3535	3.3131	2.5030	3.3068

TABLE C-7 NATURAL GAS PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1960	0.1218	0.3071	0.3539	0.2825	0.3436	0.2384	0.8782	0.7930	0.4573
1961	0.1619	0.3071	0.2162	0.2946	0.3554	0.2522	0.9795	0.8876	0.4430
1962	0.6897	0.3079	0.2386	0.3294	0.3673	0.2505	0.9985	0.9699	0.2732
1963	0.4091	0.3018	0.2334	0.3693	0.3584	0.2434	0.9042	0.9787	0.4628
1964	0.3494	0.2953	0.2379	0.2971	0.3503	0.2572	0.9438	0.8947	0.4494
1965	0.2633	0.2713	0.2463	0.3025	0.4223	0.2727	0.8962	0.8743	0.4650
1966	0.3377	0.2920	0.2445	0.3129	0.3259	0.2588	0.8957	0.7750	0.3199
1967	0.3839	0.3066	0.2584	0.3651	0.3158	0.2607	0.7145	0.4518	0.3349
1968	0.3268	0.3106	0.2804	0.3382	0.3373	0.2667	0.9865	0.4227	0.6564
1969	0.2952	0.3127	0.2624	0.3902	0.3510	0.2672	1.0020	0.4265	0.5432
1970	0.3704	0.3246	0.2790	0.4089	0.3670	0.2787	1.0275	0.4369	0.5684
1971	0.4431	0.3788	0.3026	0.4370	0.3982	0.3031	1.1388	0.4598	0.6111
1972	0.4217	0.4110	0.3411	0.4493	0.4327	0.3305	1.1545	0.4794	0.7412
1973	0.4704	0.4619	0.3929	0.4648	0.4893	0.3771	1.2404	0.4973	0.7971
1974	0.4988	0.5634	0.4752	0.5446	0.6287	0.4899	1.7095	0.7585	0.9902
1975	0.5973	0.7243	0.6629	0.7195	0.9805	0.6990	2.2358	0.8771	1.3646
1976	0.6896	1.0616	0.8039	0.8736	1.3028	0.8525	2.6531	1.7490	1.4255
1977	0.8852	1.2805	1.1732	1.2357	1.7344	1.1941	2.9415	2.5000	2.3999
1978	0.8448	1.5756	1.1270	1.5244	1.9159	1.4639	3.0433	2.7362	2.4347
1979	0.9667	2.1426	1.1886	2.0570	2.4820	1.8907	3.2548	2.5984	1.9463
1980	0.4485	2.4291	2.2022	2.5597	3.4106	2.5721	4.0810	2.4487	2.7095

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	0.3162	0.3778	0.0	0.3111	0.3573	0.3723	0.3889	0.1990	0.3261
1961	0.3374	0.3241	0.0	0.3062	0.3620	0.3004	0.3969	0.2112	0.3296
1962	0.3358	0.3291	0.0	0.3075	0.3680	0.3957	0.3847	0.2174	0.3342
1963	0.3300	0.3486	0.0	0.3113	0.3735	0.3920	0.3906	0.2192	0.3155
1964	0.3038	0.3395	0.0	0.3087	0.3753	0.3791	0.3783	0.2281	0.3352
1965	0.3276	0.3422	0.0	0.3610	0.3207	0.3623	0.3886	0.2412	0.3276
1966	0.3275	0.5128	0.0	0.3518	0.3498	0.3947	0.4131	0.2310	0.3194
1967	0.3099	0.5001	0.0	0.3275	0.4036	0.4440	0.4710	0.3313	0.4234
1968	0.3579	0.3547	0.0	0.3624	0.4223	0.4447	0.4216	0.2389	0.4212
1969	0.3403	0.3624	0.0	0.3046	0.4340	0.4450	0.4176	0.2400	0.4278
1970	0.3727	0.3983	0.0	0.3616	0.4280	0.4875	0.4721	0.2672	0.4668
1971	0.4223	0.4985	0.0	0.3872	0.4693	0.5449	0.5090	0.2789	0.5185
1972	0.4745	0.5189	0.0	0.4599	0.5306	0.6212	0.5537	0.3238	0.5311
1973	0.5486	0.5942	0.0	0.5119	0.5567	0.6665	0.5912	0.3506	0.5584
1974	0.7125	0.6809	0.0	0.5935	0.6814	0.7917	0.7022	0.4218	0.6443
1975	0.9574	0.8208	0.0	0.7728	1.1094	1.1917	0.9110	0.5477	0.7398
1976	0.9940	1.0759	0.0	1.0009	1.4615	1.4280	1.0900	0.8025	1.0569
1977	1.0798	1.3748	0.0	1.3455	1.7782	1.8015	1.4908	0.9786	1.3796
1978	1.1035	1.7093	0.0	1.6554	2.1279	2.0852	1.7067	1.1554	1.5549
1979	2.0647	2.1539	0.0	1.9455	2.4199	2.5611	2.1900	1.5337	1.9397
1980	2.5952	2.7538	0.0	2.5086	3.5773	3.0997	2.6331	2.6271	2.6400

TABLE C-7 NATURAL GAS PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	0.1869	0.7172	0.7898	0.0	0.5410	0.3146	0.2964	0.2540	0.2341
1961	0.1902	0.7458	0.7956	0.0	0.5405	0.3086	0.2968	0.2646	0.2262
1962	0.2017	0.7593	0.7607	0.0	0.5172	0.3050	0.2987	0.2567	0.2176
1963	0.2098	0.6636	0.7501	0.0	0.5245	0.3102	0.3006	0.2387	0.2254
1964	0.1931	0.8781	0.7484	0.0	0.5191	0.3459	0.2985	0.2439	0.2672
1965	0.1963	0.6521	0.6736	0.0	0.5122	0.3474	0.2530	0.2453	0.2735
1966	0.2299	0.6869	0.6805	1.4736	0.4991	0.3471	0.2984	0.2248	0.2708
1967	0.1974	0.6980	0.6932	1.7547	0.5065	0.3829	0.3418	0.2880	0.2934
1968	0.1769	0.9150	0.6464	1.4857	0.5092	0.3701	0.3507	0.2636	0.2880
1969	0.2069	0.9644	0.6569	1.2859	0.5126	0.3921	0.3637	0.2644	0.3042
1970	0.2240	1.0277	0.6687	1.2745	0.5228	0.4155	0.3974	0.2856	0.3080
1971	0.2514	1.0573	0.7023	1.4877	0.5538	0.4443	0.4280	0.3162	0.3208
1972	0.2903	1.2194	0.7353	1.6341	0.6197	0.4840	0.4409	0.3250	0.3377
1973	0.3335	1.2839	0.7603	1.7901	0.6842	0.5446	0.4633	0.4150	0.3900
1974	0.5297	1.6947	1.1581	1.8315	0.8987	0.6393	0.5771	0.5428	0.5323
1975	0.6307	2.2829	1.3600	2.3720	1.2195	0.8352	0.7971	0.6828	0.8867
1976	0.8741	2.4846	1.5976	2.7441	1.5182	1.1312	0.9930	0.9954	0.9306
1977	0.8824	2.5780	2.1457	3.2520	1.8007	1.1263	1.4470	1.3723	1.4452
1978	0.7753	2.9808	2.5143	3.0664	1.8906	1.2400	1.4549	1.4337	1.5512
1979	0.8479	3.2047	2.0674	3.4900	2.2349	1.4598	1.9856	2.0706	1.5721
1980	1.2229	4.0884	3.1873	4.1899	2.8653	2.5064	2.6194	2.5795	2.6203

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1960	0.2573	0.4890	0.2134	0.7794	0.4828	0.1255	0.5696	0.6447	0.5156
1961	0.2563	0.4740	0.1485	0.8583	0.5048	0.1216	0.5789	0.6277	0.5176
1962	0.2641	0.4822	0.1555	0.9039	0.5354	0.1262	0.5789	0.6387	0.5166
1963	0.2562	0.4503	0.1874	0.8545	0.5093	0.1517	0.5830	0.5885	0.5179
1964	0.2643	0.5080	0.2004	0.8507	0.4510	0.1536	0.4165	0.5521	0.5217
1965	0.2689	0.4672	0.2120	0.9189	0.4825	0.1469	0.4302	0.6395	0.5176
1966	0.2732	0.4036	0.1682	0.9774	0.5279	0.1777	0.4178	0.5914	0.5141
1967	0.4772	0.1579	0.2856	1.1024	0.5413	0.1761	0.4490	0.9177	0.5145
1968	0.4834	0.1858	0.3009	0.9592	0.5487	0.1825	0.4321	0.6218	0.5047
1969	0.4932	0.1860	0.3129	0.9767	0.6615	0.1780	0.4659	0.6278	0.5136
1970	0.4995	0.1790	0.3155	0.9541	0.6744	0.1911	0.5253	0.6798	0.5626
1971	0.5220	0.1869	0.3613	0.9706	0.7161	0.2284	0.5364	0.7542	0.5980
1972	0.5830	0.2301	0.4804	1.0711	0.7904	0.2423	0.6608	0.8384	0.6142
1973	0.6641	0.2203	0.4328	1.1756	0.8471	0.2671	0.7432	0.8813	0.6548
1974	0.8288	0.3018	0.5341	1.3801	1.0819	0.3927	0.8247	1.0837	0.7878
1975	1.3389	0.4142	0.6850	1.9745	1.6478	0.4778	1.0628	1.4701	1.0827
1976	1.6538	0.5301	0.8484	2.5842	2.1063	0.5318	1.3390	1.5514	1.3571
1977	2.3238	0.7152	1.0209	3.1800	2.3394	0.9202	1.8760	1.8955	1.8488
1978	1.9209	0.7531	1.1006	2.5812	3.2743	1.0580	1.7316	2.2433	1.9579
1979	2.6186	1.1042	1.2306	3.0865	3.0756	1.1173	2.2989	2.6768	2.2707
1980	2.7349	3.1941	2.2642	2.0041	3.8055	1.9025	2.8087	3.4172	3.0037

TABLE C-7 NATURAL GAS PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1960	0.1522	0.3662	0.5017	0.8226	0.3918	0.2919	0.3122	0.1464	0.2945
1961	0.1542	0.3708	0.5086	0.8006	0.3860	0.3019	0.2137	0.2511	0.2975
1962	0.1768	0.3788	0.5064	0.7923	0.4022	0.3099	0.3159	0.1535	0.2985
1963	0.1814	0.3742	0.4811	0.7369	0.3884	0.3107	0.2941	0.1573	0.2864
1964	0.1740	0.3758	0.4968	0.7398	0.4088	0.3227	0.2808	0.1743	0.2774
1965	0.1753	0.3760	0.5015	0.7608	0.3891	0.3383	0.3020	0.1678	0.2891
1966	0.1967	0.3933	0.4996	0.8061	0.3812	0.3170	0.3130	0.1857	0.2987
1967	0.1814	0.4019	0.5247	0.7799	0.4010	0.3207	0.3529	0.1559	0.3092
1968	0.1954	0.3985	0.5173	0.7952	0.4006	0.3084	0.3551	0.1857	0.3114
1969	0.1937	0.4061	0.5318	0.7832	0.4044	0.3135	0.3550	0.1839	0.3116
1970	0.2014	0.4610	0.5665	0.8391	0.4486	0.3244	0.3769	0.1914	0.3161
1971	0.2148	0.4886	0.6290	0.9282	0.4787	0.3492	0.4307	0.2193	0.3523
1972	0.2274	0.5215	0.6961	1.1245	0.5331	0.3805	0.4840	0.2310	0.3818
1973	0.2854	0.7325	0.7325	1.3160	0.6316	0.4062	0.4852	0.2712	0.4076
1974	0.3822	0.8525	0.9158	1.7078	0.7024	0.7207	0.5967	0.4418	0.4745
1975	0.5621	0.9247	1.0679	2.0996	1.0039	0.6019	0.7276	0.7869	0.6918
1976	0.7371	1.7060	1.3144	2.2615	1.2648	0.7267	1.1386	1.0492	0.9560
1977	1.0451	2.0245	1.8693	2.9092	1.5626	0.9639	1.4478	1.1797	1.1817
1978	1.2101	2.4069	1.9725	2.7642	1.7917	1.5991	1.5678	1.2023	1.3979
1979	1.3429	2.7770	2.4455	2.6391	2.4241	2.0458	2.0356	1.5796	1.5997
1980	1.8153	4.2059	2.9957	4.4490	2.8948	2.3491	2.5377	2.0400	1.9385

YEAR	VA	VT	WA	WI	WV	WY	US
1960	0.4521	0.0	0.3695	0.5908	0.3685	0.1567	0.2625
1961	0.4492	0.0	0.3612	0.5889	0.3757	0.1624	0.2608
1962	0.4631	0.0	0.3646	0.5747	0.3662	0.1481	0.2710
1963	0.4557	0.0	0.3728	0.5651	0.3721	0.1417	0.2727
1964	0.4562	0.0	0.3388	0.4843	0.5545	0.1661	0.2774
1965	0.4413	0.0	0.3626	0.5089	0.3556	0.1804	0.2694
1966	0.4504	1.1106	0.3493	0.4967	0.3878	0.1904	0.2914
1967	0.4693	0.6230	0.3725	0.4653	0.4323	0.2116	0.3022
1968	0.4778	0.4589	0.3757	0.5132	0.4181	0.2109	0.3056
1969	0.4842	0.4014	0.3719	0.5220	0.4364	0.2162	0.3132
1970	0.4917	0.4537	0.3787	0.5401	0.4382	0.2207	0.3324
1971	0.5511	0.6248	0.4164	0.5646	0.4961	0.2380	0.3660
1972	0.5793	0.7351	0.4474	0.6241	0.5336	0.2526	0.4017
1973	0.6411	0.8045	0.5052	0.6690	0.6089	0.2645	0.4493
1974	0.9068	0.7507	0.7736	0.7586	0.7253	0.3037	0.6335
1975	1.0771	1.2361	1.2898	1.0324	0.9641	0.4951	0.8640
1976	1.4247	1.5575	1.6734	1.3746	1.2272	0.6453	1.0912
1977	1.8849	1.7163	2.0315	1.7546	1.9055	0.9863	1.3185
1978	2.0966	2.7511	2.3947	2.0102	1.8047	1.1954	1.4961
1979	2.2730	2.2076	2.7925	2.3971	2.3859	1.7207	2.1841
1980	2.9837	4.9322	4.0898	3.0462	2.9424	2.0342	2.3603

TABLE C-8 NATURAL GAS PRICES: TRANSPORTATION SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.0	0.1867	0.1820	0.1446	0.2296	0.1855	0.3413	0.2115	0.0
1968	0.0	0.1888	0.1805	0.1411	0.2269	0.1741	0.6734	0.2004	0.0
1969	0.0	0.1897	0.1810	0.1422	0.2816	0.1722	0.2904	0.2067	0.0
1970	0.2557	0.1928	0.1896	0.1554	0.2702	0.1833	0.5150	0.2093	0.0
1971	0.2696	0.2132	0.2186	0.1501	0.3286	0.1927	0.3132	0.2394	0.0
1972	0.2776	0.2231	0.2380	0.1747	0.3340	0.2137	0.3445	0.2531	0.0
1973	0.2796	0.2546	0.2563	0.2047	0.3742	0.2285	0.3941	0.2746	0.0
1974	0.2985	0.2821	0.3003	0.2629	0.4261	0.2791	0.4941	0.2999	0.0
1975	0.3493	0.3120	0.4303	0.3375	0.4466	0.5377	0.5785	0.4158	0.0
1976	0.5705	0.4524	0.5230	0.4165	0.6524	0.7847	0.5879	0.5337	0.0
1977	0.5817	0.6935	0.6915	0.6022	0.6901	1.1134	1.4851	0.7291	0.0
1978	0.5027	1.0644	0.8591	0.7063	0.8052	1.4979	2.5666	0.8570	1.9401
1979	0.1375	1.2884	1.0982	1.2340	1.6624	1.7188	2.4962	1.3569	1.2928
1980	0.7265	1.7775	1.7768	1.5490	2.0663	2.1867	2.7012	0.0	0.0

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.1790	0.1812	0.0	0.1653	0.1995	0.2004	0.1960	0.1662	0.3232
1968	0.1764	0.0	0.0	0.1575	0.2038	0.1908	0.2082	0.1690	0.2681
1969	0.1861	0.1860	0.0	0.1626	0.2102	0.1946	0.2118	0.1731	0.2241
1970	0.1895	0.1890	0.0	0.1704	0.2139	0.2012	0.2133	0.1793	0.1971
1971	0.1980	0.2103	0.0	0.1833	0.2273	0.2167	0.2311	0.1913	0.2157
1972	0.2344	0.2192	0.0	0.1982	0.2638	0.2234	0.2484	0.2334	0.2339
1973	0.2445	0.2380	0.0	0.2140	0.3188	0.2604	0.2667	0.2433	0.2469
1974	0.3258	0.2724	0.0	0.2572	0.4223	0.2835	0.2808	0.2738	0.2857
1975	0.3479	0.3115	0.0	0.3343	0.5650	0.5273	0.3859	0.3354	0.3671
1976	0.4718	0.3461	0.0	0.5176	0.6840	0.5688	0.4570	0.4143	0.4762
1977	0.6876	0.6476	0.0	0.7281	1.5547	0.8074	0.8163	0.5219	0.5915
1978	0.8115	0.8708	0.0	0.9848	1.8530	0.9604	0.8656	0.6257	0.5644
1979	1.3052	1.2994	0.0	1.1713	2.3416	1.0845	1.2197	1.1707	1.2463
1980	1.7011	2.0375	0.0	1.5465	3.7361	1.7462	1.7507	1.5954	1.6517

TABLE C-8 NATURAL GAS PRICES: TRANSPORTATION SECTOR
(\$/MILLION BTU)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.1810	0.2312	0.1949	0.5730	0.2650	0.2628	0.1996	0.1811	0.1162
1968	0.1893	0.2601	0.1769	0.0	0.2616	0.2182	0.1961	0.1916	0.1086
1969	0.0523	0.2478	0.1826	0.0	0.2650	0.2197	0.1980	0.1904	0.1055
1970	0.1930	0.3127	0.1858	0.0	0.2699	0.2445	0.2061	0.1932	0.1071
1971	0.2076	0.3515	0.2073	0.0	0.2768	0.2505	0.2278	0.2098	0.1140
1972	0.2235	0.3639	0.2160	0.0	0.2897	0.2644	0.2453	0.2233	0.1606
1973	0.2367	0.3786	0.2349	0.0	0.3426	0.2754	0.2646	0.2335	0.2034
1974	0.2718	0.3955	0.2593	0.0	0.4568	0.3294	0.2885	0.2732	0.2246
1975	0.3742	0.4192	0.3710	0.0	0.5573	0.5526	0.3888	0.3470	0.4075
1976	0.4789	0.6141	0.4867	0.0	0.7064	0.6051	0.4749	0.4450	0.4564
1977	0.7775	0.6709	0.6676	0.0	0.9812	1.2396	0.7954	0.7151	0.7267
1978	0.9180	0.9299	0.8147	0.0	1.6569	1.2852	0.8677	0.8656	0.8334
1979	1.2547	1.2269	1.1744	0.0	1.5896	2.2074	1.2231	1.2506	1.1697
1980	1.7394	1.6244	2.3637	2.5659	2.9517	1.2646	1.6911	1.6998	1.2795

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.1797	0.2711	0.1440	0.3619	0.2390	0.1414	0.4361	0.2575	0.2159
1968	0.1811	0.1654	0.1457	0.0	0.2034	0.1392	0.0	0.2239	0.2211
1969	0.1921	0.1654	0.1503	0.0	0.2046	0.1403	0.0	0.2440	0.2202
1970	0.1833	0.1961	0.1545	0.0	0.2158	0.1521	0.0	0.2291	0.2230
1971	0.2068	0.1961	0.1635	0.0	0.2269	0.1558	0.0	0.2419	0.2601
1972	0.2197	0.2397	0.1765	0.0	0.2353	0.1670	0.0	0.2586	0.2707
1973	0.2286	0.2790	0.1861	0.0	0.2420	0.2024	0.0	0.2647	0.2957
1974	0.2439	0.3119	0.2395	0.0	0.3019	0.2825	0.0	0.3027	0.3119
1975	0.3017	0.5077	0.3260	0.0	0.3225	0.3618	0.0	0.3824	0.4242
1976	0.4531	0.5696	0.4207	0.0	0.3950	0.3917	0.0	0.5343	0.5112
1977	0.6133	0.7465	0.5762	0.0	0.6057	0.6471	0.0	0.8418	0.8485
1978	0.8248	0.9528	0.7276	0.0	0.8202	0.7507	0.0	1.0526	0.9873
1979	1.2721	1.5490	1.1099	0.0	1.2424	1.2836	0.0	1.4131	1.3377
1980	1.9397	1.7233	1.3883	2.6772	1.8988	1.7066	3.0770	1.9019	1.8859

TABLE C-8 NATURAL GAS PRICES: TRANSPORTATION SECTOR
(\$/MILLION BTU)

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.1477	0.2104	0.2420	0.6987	0.1896	0.2390	0.1934	0.1513	0.2267
1968	0.1505	0.1949	0.0750	0.3199	0.1888	0.2163	0.1892	0.1616	0.2260
1969	0.1613	0.2050	0.2362	0.3732	0.2074	0.1990	0.1896	0.1609	0.2276
1970	0.1732	0.2095	0.2440	0.3230	0.2006	0.1990	0.1920	0.1675	0.2299
1971	0.1751	0.3053	0.2807	0.3634	0.2171	0.1990	0.2095	0.1781	0.2357
1972	0.1859	0.2670	0.2971	0.3673	0.2324	0.2988	0.2250	0.1840	0.2969
1973	0.2159	0.3529	0.3120	0.4145	0.2506	0.3326	0.2390	0.1986	0.3083
1974	0.2591	0.4501	0.3906	0.4039	0.2633	0.3128	0.2745	0.2726	0.3561
1975	0.2734	0.5890	0.5239	0.5380	0.4785	0.5000	0.3540	0.3587	0.5649
1976	0.3580	0.7876	0.5846	0.7404	0.5103	0.5490	0.4714	0.4985	0.7067
1977	0.5657	1.6948	0.8972	1.6453	0.5754	0.6296	0.7119	0.6611	1.4746
1978	0.6456	1.8959	0.9202	2.0568	0.8245	0.7819	0.8619	0.7071	1.8039
1979	0.9682	2.4234	1.3953	2.0326	1.4899	1.2088	1.2241	1.1506	1.9631
1980	1.4195	4.2148	1.8495	2.8615	1.9566	1.7139	1.6980	1.5113	2.7094

YEAR	VA	VT	WA	WI	WV	WY	US
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.1931	0.4552	0.2049	0.2501	0.3259	0.1480	0.1920
1968	0.1911	0.0	0.2008	0.2215	0.3132	0.1717	0.2247
1969	0.1901	0.0	0.2034	0.2233	0.0	0.1718	0.2030
1970	0.1944	0.0	0.2059	0.2397	0.3104	0.1705	0.2036
1971	0.2157	0.0	0.2229	0.2456	0.3280	0.1754	0.2947
1972	0.2611	0.0	0.2663	0.2591	0.3703	0.1720	0.2265
1973	0.2712	0.0	0.3120	0.2680	0.3822	0.2341	0.2471
1974	0.3031	0.0	0.4203	0.2956	0.4398	0.2410	0.2933
1975	0.3690	0.0	0.6209	0.4333	0.5699	0.5514	0.5231
1976	0.5249	0.0	0.7484	0.5305	0.7162	0.6893	0.4984
1977	0.7946	0.0	1.6011	1.7183	1.0739	0.7396	0.7536
1978	1.4598	0.0	1.8365	2.0676	1.2536	1.4863	0.8807
1979	1.3755	0.0	2.2753	1.5894	0.8352	1.7080	1.2947
1980	2.0534	0.0	3.7283	4.3642	2.2191	1.9359	1.8003

TABLE C-9 NATURAL GAS PRICES: ELECTRIC UTILITY SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.3849	0.2173	0.2647	0.2864	0.3232	0.2401	0.3079	0.3124	0.2830
1968	0.3571	0.2338	0.2537	0.1988	0.3213	0.2219	0.3091	0.3302	0.3118
1969	0.3274	0.2507	0.2590	0.3123	0.3106	0.2290	0.3326	0.2728	0.3235
1970	0.3731	0.2645	0.2545	0.3446	0.3258	0.2385	0.3414	0.3833	0.3676
1971	0.4249	0.3120	0.2824	0.3914	0.3428	0.2681	0.3846	0.4920	0.4627
1972	0.4309	0.3415	0.3127	0.3957	0.3795	0.3162	0.4265	0.3885	0.4745
1973	0.0	0.3574	0.3522	0.4165	0.4201	0.3261	0.0	0.0	0.6842
1974	0.0	0.8477	0.4016	0.5292	0.5876	0.4302	0.0	0.0	1.7892
1975	0.0	1.0770	0.6103	0.7319	1.0434	0.5875	0.0	0.0	1.0544
1976	0.0	1.6460	0.7893	0.8157	1.5549	0.7777	0.0	0.0	1.1084
1977	0.3342	1.7363	0.9724	1.0789	2.0957	1.0437	0.0	0.0	1.8575
1978	0.3564	2.0731	1.1123	1.3317	2.1803	1.2983	0.0	0.0	1.8340
1979	1.1026	2.2791	1.7183	2.0738	2.4481	1.9047	0.0	0.0	2.7775
1980	0.3644	2.6157	2.1553	2.4120	3.5135	2.6408	0.0	0.0	3.3936

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.2685	0.2652	0.0	0.2615	0.0	0.2527	0.2680	0.2758	0.2596
1968	0.3094	0.2560	0.0	0.2861	0.0	0.2691	0.2785	0.2783	0.2663
1969	0.3445	0.2732	0.0	0.2674	0.0	0.3001	0.2927	0.2743	0.2702
1970	0.3493	0.2835	0.0	0.2719	0.0	0.3498	0.3476	0.2971	0.2863
1971	0.3818	0.3105	0.0	0.3143	0.0	0.3790	0.3855	0.3359	0.3274
1972	0.3871	0.4510	0.0	0.3166	0.0	0.4283	0.4235	0.3778	0.3589
1973	0.4451	0.4651	0.0	0.4135	0.0	0.5678	0.4658	0.2926	0.3299
1974	0.5832	0.5834	0.0	0.4994	0.8779	0.7618	0.5616	0.3525	0.5316
1975	0.7199	0.7084	0.0	0.6757	1.3759	1.1263	0.8160	0.4794	0.6835
1976	0.8194	0.9858	0.0	0.9192	1.5132	1.3693	1.0859	0.7151	0.8358
1977	0.8655	1.2981	0.0	1.2975	1.9731	1.7910	1.3353	1.0117	1.0857
1978	1.0207	1.6948	0.0	1.6540	2.1243	2.7318	1.6554	1.2190	1.0468
1979	1.2637	2.5640	0.0	1.9941	2.8206	2.7045	2.1918	1.4432	1.6807
1980	1.5301	2.5581	0.0	2.4076	3.7589	3.1846	2.5094	1.7781	2.1594

TABLE C-9 NATURAL GAS PRICES: ELECTRIC UTILITY SECTOR
(\$/MILLION BTU)

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.2052	0.3159	0.2668	0.0	0.2414	0.2490	0.2250	0.2571	0.2395
1968	0.2095	0.2904	0.2698	0.0	0.3231	0.2455	0.2333	0.2553	0.2379
1969	0.2144	0.3320	0.3096	0.0	0.3685	0.2535	0.2412	0.2627	0.2351
1970	0.2135	0.3339	0.3205	0.0	0.4180	0.2575	0.2604	0.2673	0.2736
1971	0.2362	0.4308	0.3425	0.7308	0.4670	0.2932	0.3018	0.2985	0.3250
1972	0.2663	0.4467	0.3595	0.9608	0.4788	0.3962	0.3654	0.3132	0.3226
1973	0.3050	0.5338	0.0	0.0	0.6056	0.4351	0.3372	0.4023	0.2872
1974	0.4156	1.4482	0.7297	0.0	1.0089	0.4754	0.4436	0.5424	0.2928
1975	0.6309	1.3232	1.0979	0.0	1.2580	0.6330	0.5840	0.8318	0.3892
1976	0.7844	1.5336	1.6286	0.0	1.5603	0.8137	0.7699	1.2728	0.4153
1977	0.9055	1.8766	2.0811	0.0	1.7420	1.0946	1.1171	1.3544	0.6975
1978	1.1043	1.8719	1.8525	0.0	1.8267	1.3967	1.1422	1.4127	0.7561
1979	1.4701	1.6930	1.7613	0.0	2.0070	1.7252	1.5242	1.7579	2.1499
1980	2.0112	3.3970	2.5019	0.0	2.7812	1.9869	2.2171	2.1123	3.8703

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.2836	0.2593	0.2570	0.0	0.2856	0.2480	0.3711	0.4206	0.3542
1968	0.3060	0.3520	0.2573	0.0	0.2922	0.2511	0.2418	0.3683	0.3483
1969	0.3353	0.3439	0.2675	0.0	0.3259	0.2541	0.3800	0.3722	0.3744
1970	0.3717	0.3575	0.2672	0.0	0.3886	0.2961	0.3860	0.3771	0.3914
1971	0.4683	0.3922	0.3111	0.4768	0.4593	0.3346	0.4234	0.4339	0.4830
1972	0.4902	0.3903	0.3671	0.4191	0.4766	0.3407	0.4353	0.4623	0.4907
1973	0.5061	0.0	0.4158	0.0	0.5346	0.3404	0.5037	0.4982	0.5721
1974	0.9174	0.0	0.4879	1.1800	0.7075	0.4905	0.7137	0.6862	0.7188
1975	1.4041	0.6645	0.6277	1.0101	0.9510	0.6960	1.0943	0.8756	1.2191
1976	3.3832	0.4918	0.8130	1.7998	1.4344	0.9587	1.4225	1.0709	1.2762
1977	4.1540	0.0	0.9672	0.0	1.7852	1.4459	1.7383	1.4082	1.4148
1978	3.0111	0.0	1.1109	0.0	1.9713	1.6410	1.5661	1.4938	1.6240
1979	2.9530	0.0	1.4462	2.9539	2.5673	2.0698	2.2903	2.2864	1.9415
1980	3.1518	0.0	1.8179	0.0	3.0119	2.4679	2.5911	2.6653	2.9140

TABLE C-9 NATURAL GAS PRICES: ELECTRIC UTILITY SECTOR
(\$/MILLION BTU)

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.1914	0.3766	0.3444	0.3552	0.2894	0.2601	0.2054	0.2500	0.2998
1968	0.1818	0.3652	0.3212	0.3390	0.2925	0.2405	0.2021	0.1977	0.3026
1969	0.1975	0.3496	0.3291	0.3510	0.2973	0.3016	0.2243	0.2120	0.2963
1970	0.1926	0.3659	0.4143	0.3853	0.3673	0.3324	0.2473	0.2430	0.3091
1971	0.2082	0.4146	0.4811	0.4864	0.4312	0.3513	0.2667	0.2769	0.3249
1972	0.2413	0.4316	0.4832	0.5029	0.4737	0.3607	0.3209	0.2804	0.3464
1973	0.2737	0.5554	0.0	0.5690	0.5211	0.4007	0.3083	0.2717	0.3147
1974	0.3924	0.7450	1.5399	0.8833	0.7548	0.4725	0.0	0.4469	0.4077
1975	0.6052	1.2668	1.4669	1.1520	0.7128	0.6417	0.0	0.7602	0.6119
1976	1.0081	1.6430	1.6353	0.0	1.0103	0.8569	0.0	1.0136	0.9365
1977	1.2950	1.9368	2.0713	0.0	0.0	1.2022	0.0	1.2163	1.0890
1978	1.4162	2.2783	2.5263	0.0	1.7363	1.5363	0.0	1.3767	1.3153
1979	1.5431	3.2735	2.9955	2.4655	2.1686	1.9036	0.0	1.5870	1.6088
1980	1.7410	4.2849	3.5991	0.0	2.4084	1.9653	0.0	1.8386	2.0004

YEAR	VA	VT	WA	WI	WV	WY	US
1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1967	0.2768	0.0	0.0	0.2854	0.2703	0.2053	0.2709
1968	0.2758	0.0	0.0	0.3278	0.2690	0.2143	0.1996
1969	0.2774	0.0	0.0	0.3454	0.3021	0.2218	0.2631
1970	0.2895	0.0	0.0	0.4188	0.3169	0.2307	0.2834
1971	0.3606	0.3070	0.0	0.4364	0.3341	0.2905	0.3135
1972	0.4065	0.3404	0.0	0.4406	0.3721	0.2942	0.3314
1973	0.3894	0.4420	0.0	0.4644	0.3162	0.0	0.3380
1974	0.5489	0.5489	0.0	0.5736	0.2750	0.5736	0.4837
1975	0.9654	1.1725	0.0	0.8238	0.7716	0.0	0.7522
1976	1.1320	1.7605	0.0	1.1886	0.9209	2.2903	1.0320
1977	1.6145	2.0079	0.0	1.7473	1.9730	2.0797	1.2857
1978	1.8183	2.2210	0.0	1.9711	1.7542	2.5134	1.4180
1979	2.2169	2.6256	2.6436	2.2760	2.7716	3.2084	1.7449
1980	2.4539	4.4979	3.4333	2.9364	2.9851	4.6087	2.1935

TABLE C-10 METALLURGICAL COAL PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.0	0.4377	0.0	0.0	0.4465	0.4465	0.0	0.0	0.0
1971	0.0	0.4792	0.0	0.0	0.4808	0.4808	0.0	0.0	0.0
1972	0.0	0.5446	0.0	0.0	0.5315	0.5315	0.0	0.0	0.0
1973	0.0	0.6631	0.0	0.0	0.6254	0.6254	0.0	0.0	0.0
1974	0.0	1.3054	0.0	0.0	1.3327	1.3327	0.0	0.0	0.0
1975	0.0	1.5489	0.0	0.0	1.4273	1.4273	0.0	0.0	0.0
1976	0.0	1.5404	0.0	0.0	1.5596	1.5596	0.0	0.0	0.0
1977	0.0	2.1242	0.0	0.0	1.6300	1.6300	0.0	0.0	0.0
1978	0.0	1.8727	0.0	0.0	1.7565	1.7565	0.0	0.0	0.0
1979	0.0	1.8569	0.0	0.0	1.7935	1.7935	0.0	0.0	0.0
1980	0.0	2.0215	0.0	0.0	2.0338	2.0338	0.0	0.0	0.0
YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.0	0.0	0.0	0.0	0.0	0.4292	0.4554	0.0	0.4554
1971	0.0	0.0	0.0	0.0	0.0	0.5158	0.5642	0.0	0.4512
1972	0.0	0.0	0.0	0.0	0.0	0.5746	0.6050	0.0	0.5877
1973	0.0	0.0	0.0	0.0	0.0	0.6208	0.7073	0.0	0.6812
1974	0.0	0.0	0.0	0.0	0.0	1.2627	1.4242	0.0	1.2627
1975	0.0	0.0	0.0	0.0	0.0	1.5308	1.8173	0.0	1.6489
1976	0.0	0.0	0.0	0.0	0.0	1.4800	1.5631	0.0	1.7181
1977	0.0	0.0	0.0	0.0	0.0	1.6265	1.7377	0.0	1.8092
1978	0.0	0.0	0.0	0.0	0.0	1.9119	2.0827	0.0	1.9469
1979	0.0	0.0	0.0	0.0	0.0	1.8831	1.9327	0.0	1.8085
1980	0.0	0.0	0.0	0.0	0.0	1.9904	2.1942	0.0	1.8661
YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.0	0.0	0.6011	0.0	0.3931	0.5442	0.4554	0.0	0.0
1971	0.0	0.0	0.7285	0.0	0.6812	0.7304	0.4512	0.0	0.0
1972	0.0	0.0	0.7892	0.0	0.7454	0.6985	0.5877	0.0	0.0
1973	0.0	0.0	0.8688	0.0	0.8192	0.8188	0.6812	0.0	0.0
1974	0.0	0.0	1.6423	0.0	1.7035	1.4877	1.2627	0.0	0.0
1975	0.0	0.0	2.2027	0.0	2.1319	1.8604	1.6489	0.0	0.0
1976	0.0	0.0	2.1789	0.0	2.0562	1.8731	1.7181	0.0	0.0
1977	0.0	0.0	2.2004	0.0	2.0677	1.8619	1.8092	0.0	0.0
1978	0.0	0.0	2.4104	0.0	2.1623	2.5112	1.9469	0.0	0.0
1979	0.0	0.0	2.3923	0.0	2.2700	2.2700	1.8085	0.0	0.0
1980	0.0	0.0	2.4577	0.0	2.3362	1.8661	1.8661	0.0	0.0

TABLE C-10 METALLURGICAL COAL PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.0	0.0	0.0	0.0	0.6011	0.0	0.0	0.6011	0.4365
1971	0.0	0.0	0.0	0.0	0.7285	0.0	0.0	0.7285	0.5200
1972	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7692	0.5958
1973	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8688	0.6754
1974	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6423	1.3419
1975	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2027	1.6200
1976	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1785	1.5731
1977	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2004	1.5808
1978	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4104	1.8142
1979	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3923	1.8192
1980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4577	2.0592
YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.0	0.0	0.4523	0.0	0.0	0.0	0.4554	0.4554	0.4465
1971	0.0	0.0	0.4758	0.0	0.0	0.0	0.4512	0.4512	0.4808
1972	0.0	0.0	0.5723	0.0	0.0	0.0	0.5877	0.5877	0.5315
1973	0.0	0.0	0.6904	0.0	0.0	0.0	0.6812	0.6812	0.6254
1974	0.0	0.0	1.4015	0.0	0.0	0.0	1.2627	1.2627	1.3327
1975	0.0	0.0	1.5650	0.0	0.0	0.0	1.6489	1.6489	1.4273
1976	0.0	0.0	1.6712	0.0	0.0	0.0	1.7181	1.7181	1.5596
1977	0.0	0.0	1.6704	0.0	0.0	0.0	1.8092	1.8092	1.6300
1978	0.0	0.0	2.0369	0.0	0.0	0.0	1.9469	1.9469	1.7565
1979	0.0	0.0	1.9373	0.0	0.0	0.0	1.8085	1.8085	1.7935
1980	0.0	0.0	2.2665	0.0	0.0	0.0	1.8681	1.8661	2.0338
YEAR	VA	VT	WA	WI	WV	WY	US		
1970	0.0	0.0	0.0	0.5442	0.4139	0.0	0.4696		
1971	0.0	0.0	0.0	0.7304	0.4815	0.0	0.5385		
1972	0.0	0.0	0.0	0.6985	0.5192	0.0	0.6050		
1973	0.0	0.0	0.0	0.8188	0.5808	0.0	0.7046		
1974	0.0	0.0	0.0	1.4877	1.1712	0.0	1.4035		
1975	0.0	0.0	0.0	1.8604	1.5611	0.0	1.7004		
1976	0.0	0.0	0.0	1.8731	1.6896	0.0	1.6985		
1977	0.0	0.0	0.0	1.8619	1.7404	0.0	1.7785		
1978	1.7869	0.0	0.0	2.5112	1.7869	0.0	2.0019		
1979	1.8342	0.0	0.0	2.2700	1.8342	0.0	1.9496		
1980	1.9138	0.0	0.0	2.3362	1.9138	0.0	2.1665		

TABLE C-11 STEAM COAL PRICES: RESIDENTIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.0	0.2873	0.0	0.0	0.0	0.2884	0.4812	0.4240	0.4240
1971	0.0	0.3778	0.0	0.0	0.0	0.7045	0.8615	1.1538	1.1538
1972	0.0	0.9173	0.0	0.0	0.0	0.8260	0.5731	1.3462	1.3462
1973	0.0	1.1704	0.0	0.0	0.0	1.4820	1.0539	1.3889	1.5485
1974	0.0	1.8620	0.0	0.0	0.0	1.0735	0.7853	2.2699	2.2699
1975	0.0	1.8240	0.0	0.0	0.0	1.5770	1.0716	1.7480	2.7265
1976	0.0	1.9000	0.0	0.0	0.0	1.4060	1.0564	1.7480	1.7480
1977	0.0	2.0100	0.0	0.0	0.0	1.6100	1.7860	2.6700	2.6700
1978	0.0	2.9050	0.0	0.0	0.0	1.7100	2.1950	2.8500	2.9600
1979	0.0	2.3737	0.0	0.0	0.0	2.1094	1.4194	2.8971	2.8971
1980	0.0	2.5609	0.0	0.0	0.0	2.5152	1.5209	3.2150	3.2150
YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.0	0.4128	0.0	0.3519	0.3353	0.3260	0.2758	0.3385	0.2399
1971	0.0	0.7461	0.0	0.9558	0.8846	1.1885	0.8750	0.6620	0.7308
1972	0.0	0.8810	0.0	1.1538	0.0	1.2114	1.0342	0.6839	0.8462
1973	0.0	0.9690	0.0	1.1590	0.7980	1.1158	1.1727	1.1780	1.2041
1974	0.0	1.3300	0.0	2.6600	1.3870	1.6982	2.2866	1.1400	1.8810
1975	0.0	3.2300	0.0	3.6860	1.7765	2.1065	2.5156	1.3490	2.1120
1976	0.0	1.5200	0.0	2.6727	1.9143	2.2135	2.5207	1.3300	2.1423
1977	0.0	2.2800	0.0	2.2640	1.7200	2.2880	2.4513	1.7850	2.4067
1978	0.0	2.9150	0.0	3.2300	2.5000	2.3750	2.5667	1.9000	2.4833
1979	0.0	2.4907	0.0	2.5976	0.0	3.0837	2.6710	1.8871	2.2852
1980	0.0	2.6949	0.0	2.9515	0.0	3.4789	2.8178	1.6068	2.3871
YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.0	0.4812	0.4240	0.0	0.3881	0.3747	0.2789	0.0	0.2187
1971	0.0	0.8615	1.1538	0.0	1.3019	0.0	0.8712	0.0	0.8981
1972	0.0	0.5731	1.3462	0.0	1.5000	0.0	0.8769	0.0	0.0
1973	0.0	1.0539	1.3889	0.0	1.3933	1.1305	0.7695	0.0	1.4571
1974	0.0	0.7853	2.2699	0.0	2.7471	3.2300	1.4028	0.0	1.0640
1975	0.0	1.0716	1.7480	0.0	3.0647	2.7107	1.7195	0.0	1.0640
1976	0.0	1.0564	1.7480	0.0	2.8567	2.9817	1.6318	0.0	2.0710
1977	0.0	1.7860	2.6700	0.0	3.3500	3.0100	2.0000	0.0	1.1800
1978	0.0	2.1950	2.8500	0.0	3.3480	3.8800	2.0367	0.0	1.2900
1979	0.0	1.4194	2.5560	0.0	3.2666	3.4422	2.2816	0.0	2.1536
1980	0.0	1.5209	2.7932	0.0	3.2110	3.4884	2.0414	0.0	2.3961

TABLE C-11 STEAM COAL PRICES: RESIDENTIAL SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.4404	0.2768	0.3840	0.4812	0.4833	0.0	0.3353	0.4995	0.3197
1971	0.8750	1.1538	0.0	0.8615	0.9348	0.0	0.8846	1.6492	0.8923
1972	1.1058	0.0	0.0	0.5731	1.0863	0.0	0.0	1.2885	1.0711
1973	1.3528	0.9714	1.1590	1.0539	1.3360	0.0	0.7980	1.4902	1.1522
1974	2.5033	1.0038	1.5200	0.7853	2.3108	0.0	1.5200	2.0407	2.5672
1975	2.0583	3.0875	0.0	1.0716	2.0900	0.0	1.7765	2.7748	2.6202
1976	2.1723	3.6404	2.2230	1.0564	3.4200	0.0	2.8120	2.8025	2.6072
1977	2.8067	1.6300	2.5650	1.7860	2.5293	0.0	3.3300	3.0350	2.8500
1978	2.6433	1.7700	3.4200	2.1950	2.7167	0.0	3.4200	2.9950	2.7275
1979	2.4740	2.0032	2.5227	1.4194	2.8234	0.0	4.1127	2.8710	2.7178
1980	2.6990	2.1328	2.6004	1.5209	3.0386	0.0	4.4490	3.0213	2.9371

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.0	0.0	0.3447	0.4812	0.4812	0.3840	0.2568	0.0	0.2579
1971	0.0	0.0	0.9039	0.8615	0.8615	0.0	0.8606	0.0	0.6923
1972	0.0	0.0	1.0330	0.5731	0.5731	0.0	0.9551	0.0	0.0
1973	0.0	0.0	1.0843	1.0539	1.0539	1.6720	1.0298	0.0	0.7220
1974	0.0	0.0	2.2610	0.7853	0.7853	3.4960	1.8541	0.0	1.0086
1975	0.0	0.0	2.5729	1.0716	1.0716	3.6100	1.7448	0.0	1.3300
1976	0.0	0.0	2.2729	1.0564	1.0564	3.5150	1.7474	0.0	1.5200
1977	0.0	0.0	2.3640	1.7860	1.7860	3.0033	1.9850	0.0	1.7100
1978	0.0	0.0	2.4771	2.1950	2.1950	3.2875	1.8867	0.0	1.4375
1979	0.0	0.0	2.4489	1.4194	2.8371	3.3225	2.0033	0.0	0.0
1980	0.0	0.0	2.5945	1.5209	2.9954	3.8048	2.4146	0.0	0.0

YEAR	VA	VT	WA	WI	WV	WY	US
1970	0.4158	0.4812	0.3353	0.2789	0.4199	0.1607	0.3472
1971	1.1538	0.8615	0.8846	0.3336	1.4837	0.6423	0.9226
1972	1.4038	0.5731	0.0	0.3898	1.3878	0.0	0.9859
1973	1.5473	1.0539	1.1514	0.9405	1.6794	0.9714	1.1697
1974	2.6416	0.7853	1.4535	1.4630	2.8733	0.9437	2.1582
1975	2.7297	1.0716	1.1400	1.2160	3.1409	0.9880	2.3816
1976	3.1967	1.0564	1.9000	1.2160	2.8863	1.4123	2.3211
1977	3.4200	1.7860	2.5200	1.8100	3.1543	1.2000	2.4808
1978	3.7443	2.1950	2.5500	1.5200	3.6086	1.1650	2.5460
1979	3.3717	1.4194	2.5684	1.6178	3.1694	1.4002	2.3240
1980	3.5086	1.5209	2.9678	1.7644	3.5131	1.7129	2.7497

TABLE C-12 STEAM COAL PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.5363	0.3067	0.0	0.4843	0.3105	0.2875	0.6683	0.3468	0.3321
1971	0.3407	0.3536	0.0	0.5069	0.4869	0.3347	0.7257	0.4278	0.4131
1972	0.5406	0.3770	0.0	0.5536	0.5137	0.3083	0.7561	0.4443	0.4296
1973	0.3783	0.3868	0.3439	0.5341	0.4913	0.2953	0.8770	0.5072	0.4214
1974	0.7171	0.7328	0.7116	0.8204	0.9269	0.6761	1.4090	1.5122	1.0916
1975	0.9401	0.9492	0.8469	0.8468	0.8202	0.7388	1.8346	1.4303	1.1584
1976	0.8963	1.0966	1.2196	0.8547	0.9903	0.7398	1.4727	0.9867	1.0878
1977	0.9704	1.2212	1.1262	1.0190	1.1260	0.8299	1.6291	1.0377	1.1470
1978	1.1289	1.4958	1.3099	0.9709	1.0742	0.8696	1.5772	1.1851	1.1161
1979	1.0647	1.4653	1.3639	1.2458	1.3994	0.8563	1.7610	1.5259	1.4928
1980	1.1048	1.5895	1.5568	1.2630	1.4963	0.9311	1.8040	1.5526	1.5753

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.2322	0.4567	0.0	0.3701	0.4061	0.4022	0.4682	0.3590	0.4489
1971	0.3077	0.4197	0.0	0.3771	0.3988	0.3699	0.3681	0.3992	0.3440
1972	0.2990	0.4958	0.0	0.4046	0.4109	0.4448	0.5040	0.3856	0.4862
1973	0.3380	0.4786	0.0	0.4335	0.4739	0.4475	0.4989	0.3436	0.4845
1974	0.8200	1.1087	0.0	0.6704	0.8676	0.7098	0.8193	0.7615	0.7033
1975	0.4851	1.1391	0.0	1.0190	0.9577	1.0039	1.1507	0.7330	1.1565
1976	1.0870	1.1109	0.0	1.0514	0.9859	1.0839	0.9807	0.9652	1.0611
1977	1.2863	1.2492	0.0	1.1014	1.0320	1.2130	1.1180	0.8864	1.1339
1978	1.5580	1.4380	0.0	1.1954	0.9525	1.3813	1.5305	1.0176	1.3801
1979	1.4565	1.4541	0.0	1.1983	1.0303	1.3719	1.3627	1.0239	1.5483
1980	1.5560	1.5029	0.0	1.3192	1.1552	1.4625	1.3500	1.0951	1.5603

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.0	0.7060	0.2008	0.8451	0.4936	0.3447	0.4199	0.1515	0.6386
1971	0.0	0.5758	0.3704	0.7692	0.4998	0.4914	0.3617	0.1703	0.5142
1972	0.0	0.8177	0.2982	0.9248	0.5515	0.3635	0.4516	0.2160	0.6483
1973	0.0	0.9745	0.2927	0.9067	0.5468	0.3390	0.4580	0.2301	0.6297
1974	0.0	1.5789	0.7075	1.3951	0.9158	0.5199	0.6742	0.6990	1.0101
1975	0.0	2.4215	0.9702	1.7700	1.3483	0.6362	0.9729	0.8349	1.0358
1976	0.0	1.6931	0.8856	1.8042	1.2401	0.8102	1.0348	0.9499	1.0380
1977	1.2058	1.9530	0.9284	1.8845	1.2940	0.9540	1.0987	1.0044	1.0650
1978	1.3295	2.0662	1.1348	1.8835	1.4495	1.0650	1.3075	1.4862	0.9019
1979	1.0395	1.9689	1.0942	1.7869	1.5104	0.8923	1.2961	1.2075	1.0096
1980	1.2260	2.1163	1.1267	2.1359	1.6781	1.1352	1.3396	1.3920	1.4975

TABLE C-12 STEAM COAL PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.5178	0.3532	0.2627	0.8451	0.3028	0.4858	0.5030	0.4907	0.4076
1971	0.5396	0.3287	0.3227	1.0989	0.4756	0.4904	0.4648	0.5083	0.3733
1972	0.5379	0.3577	0.2998	0.9248	0.4328	0.4911	0.4738	0.5196	0.4592
1973	0.5502	0.3104	0.3067	0.9067	0.4443	0.4765	0.4486	0.5005	0.4726
1974	1.1711	0.6668	0.4368	1.4832	0.9793	0.8491	0.8063	0.9782	0.8603
1975	1.3933	0.7046	0.6033	1.7700	1.1802	0.8748	0.8508	1.2476	1.1515
1976	1.1902	0.7111	0.7685	1.8042	0.8809	0.8879	0.9338	1.2524	1.0858
1977	1.3459	0.7657	0.8831	1.8845	1.8088	0.9309	0.9894	1.3050	1.1854
1978	1.6087	0.8500	1.4248	1.8991	1.2916	0.8588	1.0866	1.4156	1.3191
1979	1.5750	0.6692	1.0806	1.8755	1.7610	0.9094	1.2330	1.5335	1.1915
1980	1.6284	0.8714	1.2129	2.0739	1.8175	1.2553	1.3500	1.5918	1.2006

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.4918	0.3407	0.2945	0.0	0.4957	0.5710	0.2747	0.4888	0.1815
1971	0.6105	0.3572	0.3874	0.0	0.5042	0.5994	0.3874	0.4509	0.3417
1972	0.3677	0.3090	0.3602	0.0	0.5432	0.6083	0.3445	0.4096	0.2163
1973	0.4833	0.6535	0.3658	0.0	0.5540	0.5633	0.3476	0.4220	0.2390
1974	0.7342	0.5727	0.8013	0.0	1.2867	0.9601	0.9395	0.7649	0.6619
1975	0.7443	1.1070	1.1360	0.0	1.3964	0.9302	1.0496	0.7612	0.6757
1976	1.0060	1.1895	1.0437	0.0	1.2369	0.9436	0.9242	0.7268	0.8353
1977	1.0853	1.2526	1.0761	0.0	1.2996	0.9788	1.0619	0.6672	0.9474
1978	0.9785	1.0439	1.2038	0.0	1.7399	1.0343	1.2384	0.6385	0.7938
1979	0.9725	1.1784	1.2466	0.0	1.5255	0.9002	1.2430	0.3707	0.9158
1980	1.1640	1.4055	1.2434	0.0	1.5487	1.0886	1.2911	0.5603	0.9199

YEAR	VA	VT	WA	WI	WV	WY	US
1970	0.3438	0.2832	0.4636	0.6640	0.2932	0.3015	0.4188
1971	0.4862	0.2849	0.4979	0.4791	0.3381	0.1725	0.4123
1972	0.3768	0.3829	0.5088	0.7128	0.3561	0.3144	0.4597
1973	0.3839	0.4457	0.8585	0.7030	0.3529	0.3168	0.4578
1974	1.1910	1.2951	1.2174	0.9230	0.8281	0.6760	0.8678
1975	1.3340	1.6680	1.3132	1.2848	1.2147	0.6968	1.1377
1976	1.1712	1.5832	1.3876	1.2586	1.0808	0.7195	1.0847
1977	1.2824	1.2573	1.4160	1.3642	1.1889	0.7685	1.1744
1978	1.4874	1.8991	1.1165	1.5233	1.1763	0.8006	1.3662
1979	1.4789	1.6197	1.3675	1.6624	1.3128	0.8492	1.2885
1980	1.3285	2.0570	1.8768	1.7474	1.2876	0.9361	1.3369

TABLE C-13 STEAM COAL PRICES: ELECTRIC UTILITY SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.6670	0.2590	0.0	0.2060	0.0	0.2600	0.4470	0.3910	0.3910
1971	0.4156	0.3460	0.0	0.2440	0.0	0.2810	0.5470	0.5190	0.5190
1972	0.6750	0.3800	0.0	0.3180	0.0	0.3000	0.6110	0.5390	0.5390
1973	0.5298	0.3902	0.0	0.3163	0.0	0.3087	0.5117	0.6359	0.5788
1974	0.8160	1.2318	0.0	0.1703	0.0	0.3743	0.7728	1.8426	1.1138
1975	1.1848	1.1184	0.0	0.2057	0.0	0.4565	0.4098	1.4677	1.1880
1976	0.9770	0.9151	0.0	0.2240	0.0	0.4562	0.2464	0.0	1.0094
1977	1.0800	1.1280	0.0	0.4650	0.0	0.5724	0.5330	0.0	1.1299
1978	1.4591	1.3873	1.0053	0.4820	0.0	0.6200	0.3003	0.0	1.3003
1979	1.3100	1.3042	1.1368	0.7592	0.0	0.6922	0.6494	0.0	1.3332
1980	1.9060	1.4241	1.3359	0.8898	0.0	0.8195	0.7144	0.0	1.5368
YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.3070	0.3800	0.0	0.3210	0.0	0.2960	0.2480	0.3080	0.2140
1971	0.3380	0.4350	0.0	0.3700	0.0	0.3440	0.2810	0.3070	0.2590
1972	0.4250	0.4470	0.0	0.3900	0.0	0.3850	0.3140	0.3220	0.2840
1973	0.5386	0.4338	0.0	0.5488	0.0	0.5814	0.4428	0.4625	0.3824
1974	1.0323	1.5970	0.0	0.7816	0.0	0.7260	0.7505	0.6449	1.1663
1975	1.3505	1.1751	0.0	0.9669	0.0	0.9320	0.8274	0.8793	0.9451
1976	1.0861	1.0342	0.0	0.9920	0.0	0.9978	0.7927	0.8855	0.7766
1977	1.3072	1.2175	0.0	1.0702	0.0	1.1779	0.9535	0.8762	1.0228
1978	1.3927	1.4550	0.0	1.0749	0.0	1.4107	1.1873	1.1156	1.2948
1979	1.4653	1.4403	0.0	1.0144	0.0	1.6576	1.1695	1.0925	1.1246
1980	1.6067	1.5710	0.0	1.2410	0.0	1.9107	1.2635	0.9130	1.1898
YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.0	0.3110	0.3910	0.0	0.3560	0.3430	0.2510	0.2570	0.1940
1971	0.0	0.3360	0.5190	0.0	0.4180	0.3820	0.2820	0.2880	0.2450
1972	0.0	0.4540	0.5390	0.0	0.4460	0.4080	0.2920	0.3630	0.2600
1973	0.0	0.9830	0.5302	0.0	0.5171	0.3771	0.4484	0.3850	0.1960
1974	0.0	1.2549	1.2569	0.0	1.3678	0.4564	0.5338	0.6530	0.2331
1975	0.0	0.0	1.1982	0.0	1.1626	0.5647	0.8913	1.1923	0.2514
1976	0.0	0.0	1.0592	0.0	1.1034	0.6284	0.9129	1.1461	0.2623
1977	0.0	0.0	1.1133	0.0	1.1470	0.6946	1.1460	1.2977	0.2546
1978	0.0	0.0	1.3324	0.0	1.2986	0.7662	1.5189	1.5250	0.2955
1979	0.0	0.0	1.3656	0.0	1.4585	0.9772	1.3090	1.4318	0.3295
1980	1.9551	1.9460	1.5175	0.0	1.4229	1.0068	1.1552	1.5319	0.4056

TABLE C-13 STEAM COAL PRICES: ELECTRIC UTILITY SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.4070	0.2490	0.3520	0.3610	0.4490	0.1430	0.3050	0.4650	0.2900
1971	0.4540	0.2540	0.4030	0.4390	0.5470	0.1510	0.3100	0.5280	0.3490
1972	0.4430	0.2660	0.4300	0.4790	0.6440	0.1530	0.2970	0.5150	0.3780
1973	0.5125	0.2850	0.4649	0.5100	0.8039	0.1552	0.2776	0.5206	0.4469
1974	1.6155	0.3140	0.7273	0.8190	1.4281	0.1894	0.2819	1.1569	1.1989
1975	1.0164	0.8685	0.9624	1.2360	1.8578	0.2262	0.3081	1.2078	1.0421
1976	0.8714	0.4310	1.0260	1.2320	1.5938	0.2592	0.3846	1.0825	0.9146
1977	1.3026	0.4520	1.1557	1.2884	1.5680	0.2943	0.4370	1.1334	0.9882
1978	1.4085	1.5199	1.1012	1.5015	1.6880	0.4212	0.6039	1.2658	1.1934
1979	1.2951	0.5430	1.1161	1.4749	1.7563	0.4776	0.9441	1.3178	1.2345
1980	1.4392	0.6260	1.1659	1.6260	1.8941	0.5585	1.0496	1.4141	1.3749

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.0	0.0	0.3140	0.0	0.4330	0.3520	0.2300	0.0	0.2310
1971	0.0	0.0	0.3620	0.0	0.4930	0.4050	0.3250	0.0	0.2810
1972	0.0	0.0	0.4000	0.0	0.4700	0.4290	0.3600	0.0	0.2910
1973	0.0	0.0	0.4307	0.0	0.5208	0.3809	0.3410	0.0	0.3533
1974	0.0	0.0	0.9042	0.0	1.5037	0.4728	1.0441	0.0	0.4272
1975	0.0	0.0	0.9960	0.0	1.0318	0.5312	0.9904	0.0	0.5583
1976	0.9780	0.0	0.9116	0.0	0.9162	0.6195	0.7366	1.0041	0.6530
1977	1.0757	0.0	0.9235	0.0	1.3116	0.5918	1.0282	1.0503	0.7574
1978	1.0647	0.0	1.0928	0.0	1.3916	0.6067	1.2957	1.2172	0.8444
1979	1.0963	1.7290	1.1226	0.0	1.3758	0.6962	1.0823	1.6942	0.9910
1980	1.1543	1.4122	1.2158	0.0	1.4772	0.8475	1.3457	1.7596	1.1520

YEAR	VA	VT	WA	WI	WV	WY	US
1970	0.3830	0.4880	0.0	0.3870	0.2510	0.1400	0.3120
1971	0.4460	0.6110	0.0	0.4310	0.3180	0.1500	0.3630
1972	0.4340	0.6190	0.0	0.4650	0.3540	0.1710	0.3840
1973	0.5513	0.7263	0.3878	0.5906	0.4231	0.1983	0.4627
1974	1.5427	1.5036	0.3691	0.8872	1.3844	0.2119	1.1887
1975	1.2247	2.0490	0.5652	0.8051	0.9577	0.2464	1.0459
1976	1.0827	0.0	0.7524	0.7767	0.8911	0.2881	0.9198
1977	1.4653	1.3765	0.7234	0.8747	1.0051	0.3467	1.0843
1978	1.6446	0.0	0.7710	1.0363	1.1936	0.3778	1.2880
1979	1.6201	1.7722	0.8362	1.1448	1.1403	0.4697	1.2627
1980	1.7078	0.0	0.9615	1.3649	1.2342	0.5678	1.3880

TABLE C-14 DISTILLATE FUEL PRICES: RESIDENTIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	1.3287	1.1352	0.8823	1.0772	1.0772	1.2341	1.4063	1.3704	1.3704
1971	1.4096	1.2789	0.9550	1.1687	1.1687	1.3149	1.4864	1.4035	1.4035
1972	1.4169	1.2929	0.9671	1.1970	1.1970	1.3184	1.4936	1.4072	1.4072
1973	1.6447	1.3790	1.2558	1.4953	1.4953	1.5495	1.7305	1.6545	1.6545
1974	2.6146	2.1272	2.2503	2.5737	2.5737	2.5046	2.8635	2.5905	2.5905
1975	2.7984	2.4806	2.3824	2.8382	2.7984	2.8549	2.8411	2.6932	2.6932
1976	3.1068	2.7820	2.5408	3.0285	3.1068	2.9444	3.0365	2.9066	2.9066
1977	3.2435	3.2895	2.8323	3.1147	3.2435	3.2284	3.4083	3.3131	3.3131
1978	3.4098	3.4738	2.9494	3.2407	3.1111	3.2747	3.6459	3.5751	3.5751
1979	4.7226	4.5778	4.5433	4.4496	4.5060	4.5973	5.0082	4.7346	4.7346
1980	6.7925	6.8119	6.5006	7.0283	6.6835	6.9408	7.1716	7.3868	7.0183

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	1.2984	1.2412	1.0772	1.1575	1.3287	1.1718	1.1718	1.1307	1.0936
1971	1.4672	1.3878	1.1687	1.2182	1.4096	1.2638	1.2638	1.2325	1.2245
1972	1.4855	1.4029	1.1970	1.2246	1.4169	1.2726	1.2726	1.2401	1.2379
1973	1.4761	1.6127	1.4953	1.5522	1.6447	1.6039	1.6039	1.3821	1.4313
1974	2.4902	2.5124	2.5737	2.4346	2.6146	2.5674	2.5674	2.4269	2.2753
1975	2.6237	2.5802	2.7984	2.5595	2.8382	2.5658	2.5658	2.6136	2.4806
1976	2.8669	2.8937	3.1068	2.7548	3.0285	2.8097	2.8097	2.8566	2.7704
1977	3.2208	3.2772	3.2435	3.1922	3.2349	3.1997	3.1997	3.2184	3.1937
1978	3.5009	3.5149	3.1111	3.3023	3.4939	3.3952	3.3952	3.3005	3.3907
1979	4.5639	4.6196	4.5060	4.4307	4.7965	4.6694	4.6694	4.9125	4.6294
1980	6.8996	6.9021	6.6835	6.7921	6.7876	6.9470	7.0661	6.8533	7.0765

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.9118	1.4187	1.3704	1.4300	1.2001	1.2273	1.1307	1.0936	1.2341
1971	0.9995	1.4988	1.4035	1.5113	1.2775	1.2741	1.2325	1.2245	1.3137
1972	1.0121	1.5061	1.4072	1.5186	1.2864	1.2715	1.2401	1.2379	1.3184
1973	1.1818	1.7633	1.6545	1.7429	1.3622	1.5592	1.3821	1.4313	1.5495
1974	2.0967	2.6469	2.5905	2.7008	2.3452	2.5089	2.4269	2.2753	2.5046
1975	2.2274	2.8488	2.6932	2.8679	2.5116	2.5455	2.6136	2.4806	2.8549
1976	2.5392	3.0384	2.9066	3.0573	2.7721	2.7969	2.8566	2.7704	2.9444
1977	2.7529	3.4223	3.3131	3.4325	3.2705	3.1957	3.2184	3.1937	3.3615
1978	2.9461	3.6592	3.5751	3.6907	3.4798	3.4379	3.3005	3.3907	3.3693
1979	4.5863	4.9995	4.7346	4.8927	4.9532	4.7421	4.9125	4.6294	4.7952
1980	6.8129	7.1704	7.0133	7.0401	7.1174	6.9338	6.8533	7.0765	6.9056

TABLE C-14 DISTILLATE FUEL PRICES: RESIDENTIAL SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	1.2360	1.2341	1.1307	1.4300	1.3866	0.8676	1.0772	1.3581	1.2001
1971	1.2920	1.3137	1.2325	1.5113	1.4658	0.9142	1.1687	1.4398	1.2775
1972	1.2984	1.3184	1.2401	1.5186	1.4722	0.9374	1.1970	1.4473	1.2864
1973	1.5711	1.5495	1.3821	1.7429	1.6014	1.2232	1.4953	1.7298	1.3622
1974	2.5856	2.5046	2.4269	2.7008	3.2212	2.4175	2.5737	2.3575	2.3452
1975	2.7441	2.5455	2.6136	2.8679	2.7872	2.8382	2.8382	2.8167	2.5116
1976	2.9334	2.7969	2.8566	3.0573	2.9585	3.0276	3.0276	2.9689	2.7721
1977	3.2763	3.1957	3.2184	3.4325	3.3471	3.2147	3.1147	3.3758	3.2023
1978	3.5373	3.3693	3.3005	3.6907	3.6077	2.9567	3.1111	3.6482	3.4206
1979	4.6442	4.7952	4.9125	4.8927	4.8610	4.5255	4.5060	4.8764	4.7963
1980	6.9299	6.9266	6.8533	7.1068	7.0784	6.7562	6.6835	7.0985	6.6559

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.8442	1.3287	1.3045	1.5297	1.2429	1.2341	1.0936	0.9118	1.0952
1971	0.8582	1.4096	1.3987	1.6105	1.3470	1.3137	1.2245	0.9995	1.2059
1972	0.8582	1.4169	1.4072	1.6186	1.3555	1.3184	1.2379	1.0121	1.2377
1973	1.0751	1.6447	1.6410	1.6398	1.5383	1.5495	1.4313	1.1818	1.4690
1974	2.1615	2.6146	2.6295	2.8530	2.4256	2.5046	2.2753	2.0967	2.5432
1975	2.3799	2.7984	2.8081	2.8411	2.7386	2.5455	2.4806	2.2274	2.8549
1976	2.5836	3.1058	2.9441	3.0110	2.9325	2.7969	2.7704	2.5392	2.9444
1977	2.8787	3.3687	3.3264	3.2636	3.2871	3.1957	3.1937	2.7529	3.2275
1978	3.0256	3.4939	3.5658	3.4973	3.4679	3.3693	3.3907	2.9461	3.2926
1979	4.6836	4.7965	4.7983	4.8831	4.4410	4.7952	4.6294	4.5863	4.4804
1980	6.5623	7.0935	6.9313	7.2001	6.8517	6.9266	7.0765	6.4723	6.8712

YEAR	VA	VT	WA	WI	WV	WY	US
1970	1.3162	1.4300	1.3287	1.1718	1.3162	1.2341	1.3339
1971	1.4106	1.5113	1.4096	1.2638	1.4106	1.3137	1.4132
1972	1.4192	1.5186	1.4169	1.2726	1.4192	1.3184	1.4204
1973	1.6031	1.7429	1.6447	1.6039	1.6031	1.5495	1.6440
1974	2.5465	2.7008	2.6146	2.5674	2.5465	2.5046	2.5957
1975	2.6756	2.8679	2.7984	2.5658	2.6756	2.8549	2.7183
1976	2.9066	3.0573	3.1058	2.8097	2.9066	2.9444	2.9274
1977	3.3095	3.4325	3.3687	3.1997	3.3095	3.2284	3.3167
1978	3.5555	3.6907	3.4939	3.3952	3.5611	3.2560	3.5619
1979	4.8128	4.8927	4.7226	4.6694	4.8128	4.6104	4.7300
1980	7.1609	7.3799	7.2162	6.8618	6.8922	6.9207	7.0517

TABLE C-15 DISTILLATE FUEL PRICES: COMMERCIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	1.2130	0.9470	0.8415	1.0094	1.0094	1.0382	1.0930	1.1176	1.1176
1971	1.2822	1.0454	0.9055	1.0873	1.0873	1.0793	1.1575	1.1412	1.1412
1972	1.2900	1.0518	0.9143	1.1120	1.1120	1.0772	1.1597	1.1407	1.1407
1973	1.5219	1.1370	1.1930	1.4010	1.4010	1.3195	1.3979	1.3310	1.3310
1974	2.5056	1.8724	2.1543	2.4724	2.4724	2.2751	2.4836	2.2677	2.2677
1975	2.6638	2.2098	2.3096	2.6960	2.6638	2.5056	2.4711	2.4090	2.4090
1976	2.9649	2.4851	2.4540	2.9015	2.9649	2.6431	2.6562	2.6018	2.6018
1977	3.0916	2.9158	2.7672	2.9874	3.0916	2.9063	3.0072	3.0050	3.0050
1978	3.2283	3.0460	2.8592	3.1110	2.9866	2.9824	3.1776	3.1917	3.1917
1979	4.5780	4.2822	4.4044	4.3823	4.4379	4.3442	4.5588	4.3927	4.3927
1980	6.6320	6.2806	6.3019	6.8482	6.5122	6.4885	6.4790	6.6124	6.4193

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	1.0832	1.0355	1.0094	1.0527	1.2130	1.0310	1.0310	1.0283	0.9742
1971	1.1993	1.1344	1.0873	1.1037	1.2822	1.0992	1.0992	1.1166	1.0772
1972	1.2085	1.1414	1.1120	1.1081	1.2900	1.1046	1.1046	1.1221	1.0858
1973	1.2170	1.3297	1.4010	1.4239	1.5219	1.4194	1.4194	1.2679	1.2658
1974	2.1920	1.8215	2.4724	2.3311	2.5056	2.3861	2.3861	2.3238	2.0958
1975	2.3090	2.2707	2.6638	2.4375	2.6960	2.4056	2.4056	2.4890	2.3022
1976	2.5252	2.5488	2.9649	2.6194	2.9015	2.6147	2.6147	2.7162	2.5756
1977	2.8803	2.9308	3.0916	3.0398	3.1027	2.9997	2.9997	3.0647	2.9547
1978	3.0698	3.0821	2.9866	3.1337	3.3079	3.1437	3.1437	3.1320	3.1157
1979	4.2692	4.3213	4.4379	4.3571	4.6496	4.4890	4.4890	4.8310	4.4325
1980	6.3614	6.3637	6.5122	6.5307	6.6193	6.5532	6.6299	6.5895	6.7129

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.8696	1.1027	1.1176	1.1114	1.0464	1.0345	1.0283	0.9124	1.0382
1971	0.9477	1.1672	1.1412	1.1768	1.1002	1.0572	1.1166	1.0009	1.0784
1972	0.9568	1.1694	1.1407	1.1791	1.1054	1.0521	1.1221	1.0071	1.0772
1973	1.1227	1.4245	1.3310	1.4080	1.1952	1.3247	1.2679	1.1801	1.3195
1974	2.0072	2.2957	2.2677	2.3425	2.1688	2.2774	2.3238	2.0028	2.2751
1975	2.1594	2.4778	2.4090	2.4944	2.3446	2.3403	2.4890	2.2098	2.5056
1976	2.4524	2.6579	2.6018	2.6744	2.5672	2.5642	2.7162	2.4747	2.6431
1977	2.6896	3.0195	3.0050	3.0285	3.0527	2.9375	3.0647	2.8308	3.0261
1978	2.8561	3.1892	3.1917	3.2166	3.2052	3.1052	3.1320	2.9732	3.0685
1979	4.4461	4.5509	4.3927	4.4536	4.7494	4.5028	4.8310	4.3305	4.5312
1980	6.6047	6.4731	6.4167	6.4177	6.6132	6.4791	6.5895	6.5245	6.4556

TABLE C-15 DISTILLATE FUEL PRICES: COMMERCIAL SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	1.0312	1.0382	1.0283	1.1114	1.1646	0.8398	1.0094	1.1407	1.0464
1971	1.0561	1.0784	1.1166	1.1768	1.2328	0.8813	1.0873	1.2110	1.1002
1972	1.0563	1.0772	1.1221	1.1791	1.2360	0.9019	1.1120	1.2151	1.1054
1973	1.2954	1.3195	1.2679	1.4080	1.3502	1.1808	1.4010	1.4585	1.1952
1974	2.2759	2.2751	2.3238	2.3425	2.7082	2.3481	2.4724	1.9821	2.1688
1975	2.4150	2.3403	2.4890	2.4944	2.5267	2.6960	2.6960	2.5536	2.3446
1976	2.5838	2.5642	2.7162	2.6744	2.6949	2.9007	2.9007	2.7043	2.5672
1977	2.9300	2.9375	3.0647	3.0285	3.0953	3.0833	2.9874	3.1219	2.9890
1978	3.1017	3.0685	3.1320	3.2166	3.2841	2.8940	2.9866	3.3210	3.1507
1979	4.3442	4.5312	4.8310	4.4536	4.5672	4.4296	4.4379	4.5817	4.5990
1980	6.3893	6.4752	6.5895	6.4492	6.5873	6.6130	6.5122	6.6064	6.3269

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.8052	1.2130	1.1111	1.1890	1.0211	1.0382	0.9742	0.8696	0.9213
1971	0.8137	1.2822	1.1887	1.2541	1.0810	1.0784	1.0772	0.9477	0.9899
1972	0.8114	1.2900	1.1931	1.2568	1.0825	1.0772	1.0858	0.9568	1.0112
1973	1.0214	1.5219	1.3832	1.3247	1.2632	1.3195	1.2658	1.1227	1.2510
1974	2.0693	2.5056	2.3662	2.4744	2.1549	2.2751	2.0958	2.0072	2.3102
1975	2.3072	2.6638	2.5458	2.4711	2.4101	2.3403	2.3022	2.1594	2.5056
1976	2.4953	2.9640	2.6726	2.6339	2.5830	2.5642	2.5756	2.4524	2.6431
1977	2.8126	3.2110	3.0762	2.8795	2.9396	2.9375	2.9547	2.6896	2.9055
1978	2.9331	3.3079	3.2585	3.0480	3.0742	3.0685	3.1157	2.8561	2.9987
1979	4.5405	4.6496	4.5199	4.4449	4.2506	4.5312	4.4325	4.4461	4.2337
1980	6.3617	6.8669	6.4921	6.4924	6.3538	6.4752	6.7129	6.2744	6.4235

YEAR	VA	VT	WA	WI	WV	WY	US
1970	1.0735	1.1114	1.2130	1.0310	1.0735	1.0382	1.0895
1971	1.1470	1.1768	1.2822	1.0992	1.1470	1.0784	1.1552
1972	1.1504	1.1791	1.2900	1.1046	1.1504	1.0772	1.1538
1973	1.2897	1.4080	1.5219	1.4194	1.2897	1.3195	1.3597
1974	2.2292	2.3425	2.5056	2.3861	2.2292	2.2751	2.2651
1975	2.3933	2.4944	2.6638	2.4056	2.3933	2.5056	2.4526
1976	2.6018	2.6744	2.9640	2.6147	2.6018	2.6431	2.6434
1977	3.0017	3.0285	3.2110	2.9997	3.0017	2.9063	2.9985
1978	3.1743	3.2166	3.3079	3.1437	3.1792	2.9654	3.1496
1979	4.4652	4.4536	4.5780	4.4890	4.4652	4.3566	4.5110
1980	6.5441	6.5780	6.9749	6.4984	6.4033	6.4697	6.5315

TABLE C-16 DISTILLATE FUEL PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.6630	0.6908	0.6730	0.7148	0.8300	0.8267	0.7274	1.2155	0.7760
1971	0.6815	0.7434	0.7107	0.7348	0.8532	0.8223	0.7725	1.2343	0.7880
1972	0.6902	0.7434	0.7107	0.7440	0.8640	0.8135	0.7706	1.2270	0.7833
1973	0.9193	0.8174	0.9421	0.9911	1.1509	1.0730	0.9847	1.4119	0.9013
1974	2.4395	1.7202	1.8197	1.5931	1.9588	1.8009	2.2386	2.4830	1.9760
1975	2.6781	2.0378	2.0927	2.1854	2.2094	1.9622	2.4052	2.5799	2.1854
1976	2.8326	2.2249	2.0498	2.3760	2.4498	2.1700	2.5167	2.7452	2.3554
1977	3.1949	2.6713	2.5923	2.4773	2.5957	2.2043	2.7743	3.2395	2.6901
1978	3.5142	2.8652	2.6541	2.6129	2.6627	2.3777	2.8841	3.0232	2.8395
1979 (a)	4.9802	3.6455	3.5381	3.3204	3.8056	2.8185	4.0111	3.7119	3.9282
1980	7.6266	6.0162	5.6368	5.9170	6.0119	5.4195	6.2665	6.9664	5.9322

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.5599	0.5820	0.7382	0.7532	0.7649	0.7599	0.7416	0.6421	0.7320
1971	0.6043	0.6215	0.7588	0.7777	0.7863	0.7846	0.7657	0.6867	0.7828
1972	0.6052	0.6215	0.7684	0.7770	0.7962	0.7838	0.7650	0.6867	0.7828
1973	0.6200	0.7365	1.0235	1.0532	1.0606	1.0625	1.0370	0.8185	0.9331
1974	2.0137	1.6189	2.1700	2.0498	2.2884	2.1597	2.1803	1.8369	2.0635
1975	2.1974	2.0532	2.2198	2.1545	2.4000	2.3279	2.2404	2.1288	2.3073
1976	2.3382	2.1906	2.0824	2.3708	2.5562	2.4687	2.2798	2.2867	2.3434
1977	2.6936	2.6833	2.6816	2.5785	2.6060	2.7760	2.6558	2.5682	2.7382
1978	2.9253	2.9597	2.6695	2.7811	2.9219	2.9373	2.7691	2.7880	2.9236
1979 (a)	3.8186	3.6354	4.3031	3.8034	4.2880	3.8467	3.7386	3.4552	3.6117
1980	6.2378	6.3934	6.0011	5.9272	6.5367	6.2912	6.0307	5.7266	6.7653

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.5121	0.7423	0.8064	0.6273	0.6840	0.8275	0.7674	0.7850	0.8724
1971	0.5476	0.7880	0.8189	0.6661	0.6970	0.8223	0.8206	0.8395	0.8670
1972	0.5476	0.7860	0.8140	0.6645	0.6964	0.8143	0.8206	0.8395	0.8584
1973	0.6528	1.0150	0.9367	0.8411	0.7931	1.0739	0.9782	1.0007	1.1322
1974	1.4936	2.2352	2.1494	1.9279	2.0584	2.0876	2.0996	1.7339	2.1339
1975	1.8129	2.3588	2.3416	2.3022	2.2747	2.3863	2.2541	1.6961	2.4429
1976	2.0704	2.4790	2.5099	2.5494	2.3073	2.4704	2.4206	2.0790	2.2661
1977	2.1785	2.7605	2.7640	2.8996	2.7331	2.7571	2.6781	2.7159	2.4755
1978	2.0172	2.9099	2.9408	3.0884	2.9408	2.9631	2.8395	2.8996	2.6987
1979 (a)	3.3701	4.0428	3.8763	4.4495	3.7580	4.0075	3.5799	4.1394	4.4243
1980	5.2366	6.3004	6.2751	6.2185	6.1442	6.4085	6.0844	6.0003	6.1009

(a) Data for 1980 are provisional estimates, and will be updated when data from Annual Survey of Manufactures become available.

TABLE C-16 DISTILLATE FUEL PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.7274	0.7895	0.7352	0.6871	0.7593	0.9703	0.9619	0.7007	0.7918
1971	0.7262	0.7846	0.7863	0.7296	0.8069	0.9974	0.9888	0.7468	0.8069
1972	0.7219	0.7769	0.7863	0.7278	0.8048	1.0100	1.0013	0.7455	0.8062
1973	0.9005	1.0246	0.9372	0.9213	0.8897	1.3454	1.3338	0.9055	0.9181
1974	1.9828	2.1906	1.8507	2.1888	2.1682	2.4995	2.2403	2.1751	2.2232
1975	2.1923	2.7245	2.2455	2.2953	2.3605	2.5964	2.3372	2.3622	2.3073
1976	2.4017	2.9940	2.3931	2.3399	2.4017	2.7618	2.5025	2.4275	2.4601
1977	2.7279	2.7485	2.5270	2.7107	2.7554	3.0696	2.8104	2.7897	2.7554
1978	2.8635	2.9837	2.7554	2.8944	2.8635	3.2635	3.0043	2.9408	2.8858
1979 (a)	3.7263	4.9239	3.3441	2.8935	3.9239	4.9001	4.6831	3.9195	3.8712
1980	6.1019	6.9377	5.8191	6.0963	6.2513	7.3156	6.5305	6.7864	6.3758

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.5418	0.7966	0.7024	0.7157	0.5785	0.7255	0.7256	0.6518	0.6396
1971	0.5373	0.8189	0.7468	0.7571	0.5940	0.7210	0.7760	0.6970	0.6575
1972	0.5307	0.8292	0.7449	0.7553	0.5910	0.7140	0.7760	0.6970	0.6658
1973	0.6786	1.1046	0.8501	0.8440	0.7152	0.9417	0.9250	0.8308	0.8869
1974	2.0935	2.0258	2.1700	2.1494	2.0635	2.3279	1.9966	1.8816	1.9571
1975	2.1904	2.2884	2.3794	2.3382	2.1219	2.5717	2.1150	2.0155	2.1803
1976	2.3558	2.4601	2.4155	2.2301	2.3039	2.7090	2.2592	2.4721	2.4378
1977	2.6636	2.7588	2.7880	2.8155	2.7056	2.8206	2.7434	2.6627	2.5734
1978	2.8575	2.8034	2.8532	2.9006	2.9047	3.1588	2.8824	2.8378	2.5923
1979 (a)	4.2786	3.7378	3.8215	4.1539	3.6470	4.3543	3.6499	4.2353	3.6427
1980	6.1772	6.2896	6.2325	6.2225	6.1189	6.8939	6.5395	6.1337	5.9616

YEAR	VA	VT	WA	WI	WV	WY	US
1970	0.5962	0.8423	0.7281	0.7615	0.7076	0.7957	0.7205
1971	0.6335	0.8944	0.7485	0.7863	0.7519	0.7914	0.7511
1972	0.6319	0.8922	0.7580	0.7856	0.7500	0.7830	0.7466
1973	0.6985	1.1294	1.0096	1.0649	0.8292	1.0327	0.9213
1974	1.8678	2.2215	1.6309	2.1253	1.9914	2.4214	1.9942
1975	2.1888	2.3846	2.0498	2.2318	2.2678	2.5183	2.2095
1976	2.2901	2.6781	2.2644	2.4275	2.4034	2.6836	2.3782
1977	2.6644	2.9030	2.7365	2.7485	2.8687	2.9915	2.6765
1978	2.8189	3.0043	2.9373	2.8790	3.0146	3.1854	2.8079
1979 (a)	3.5900	4.4192	4.3940	4.2541	3.8792	4.8439	3.9074
1980	5.9580	6.4643	5.9264	6.1598	6.3096	7.0926	6.2121

(a) Data for 1980 are provisional estimates, and will be updated when data from Annual Survey of Manufactures become available.

TABLE C-17 DISTILLATE FUEL PRICES: ELECTRIC UTILITY SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.0	0.8434	0.5268	0.7359	0.4202	0.5438	0.4150	0.4981	0.5696
1971	0.0	0.9462	0.7488	0.6892	0.6630	0.7988	0.5966	0.7272	0.8316
1972	0.0	0.9586	0.8089	1.0471	0.8378	0.8000	0.7282	0.7261	0.8303
1973	0.0	0.8931	1.0652	1.0161	1.0784	1.5570	0.9705	0.8592	1.6580
1974	0.0	2.0954	2.0306	2.0810	1.8670	2.5044	2.2283	1.9251	2.0687
1975	0.0	2.1645	2.2210	2.2576	2.3721	2.5591	2.2876	2.0829	2.1809
1976	0.0	2.3582	2.4708	2.4406	2.6425	2.3921	2.4377	2.2731	2.3735
1977	0.0	2.6647	2.6216	2.6662	2.6912	2.6875	2.4217	2.3958	2.4828
1978	0.0	2.7318	2.5869	2.7511	2.8040	2.8172	2.1242	2.3995	2.4588
1979	0.0	4.3100	2.9328	4.9580	3.8037	5.6037	3.9436	3.8287	3.9582
1980	0.0	6.3511	4.3427	6.4816	5.7902	6.4985	6.1121	5.2897	6.2140

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.4233	0.4419	0.5814	0.8207	0.0	0.7461	0.8308	0.6878	1.1480
1971	0.5491	0.7681	0.7002	0.9181	0.0	0.7530	0.8706	0.8953	1.0278
1972	0.6626	0.7143	0.7923	0.9170	0.0	0.8129	0.8642	0.8702	1.0202
1973	0.9406	1.0851	0.9160	1.1580	0.0	0.9827	1.0046	1.3392	0.8095
1974	1.9913	2.0949	0.0	1.9845	2.1230	2.0049	1.7452	2.0697	2.2073
1975	2.2058	2.2962	2.2662	2.1075	2.1991	2.1558	2.1192	2.0688	2.2502
1976	2.3254	2.4775	2.6029	2.3509	0.0	2.4105	2.0125	2.2463	2.4528
1977	2.5816	2.7833	2.8746	2.6677	2.8871	2.7833	2.3605	2.6166	2.8063
1978	2.6474	2.8427	2.9001	2.6919	3.2380	2.8395	2.6569	2.6465	2.8742
1979	5.0952	3.9839	4.1938	3.6971	3.3610	4.2742	3.9418	3.6276	4.5450
1980	5.7509	6.2238	5.8129	6.0559	0.0	6.2444	5.9848	5.7431	6.5419

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.6570	0.4968	0.5423	0.4797	0.7109	0.9443	0.7771	0.6333	0.3387
1971	0.6853	0.8474	0.7917	0.5453	0.8309	1.0355	0.9271	0.9431	0.1682
1972	0.9263	0.8973	0.7905	0.5255	0.8729	1.0355	0.7888	0.9273	0.5635
1973	1.4559	1.1132	0.9354	0.5484	0.9824	1.3490	1.3059	0.9922	0.9297
1974	3.1563	2.0659	2.0830	2.3403	1.9720	2.1927	2.1605	1.9589	1.1465
1975	1.9126	2.1461	2.1510	2.4800	2.0338	2.2643	2.2555	1.9491	0.0
1976	2.0664	2.4219	2.2999	2.5470	2.3494	2.2548	2.3126	2.1674	2.5280
1977	2.4210	2.7178	2.6588	2.7890	2.6445	2.6292	2.6789	2.5147	1.8140
1978	2.5258	2.8264	2.7508	2.9616	2.7883	2.6370	2.6655	2.5046	2.9740
1979	2.9035	4.5778	4.2834	4.7278	4.0795	3.7430	4.4280	3.7291	3.3691
1980	4.3717	5.9924	5.9583	6.3305	6.0651	5.8000	6.0152	5.4688	5.0097

TABLE C-17 DISTILLATE FUEL PRICES: ELECTRIC UTILITY SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.9149	1.2323	0.6992	0.4637	0.4990	0.3187	0.7713	0.4929	0.8334
1971	0.9870	1.2059	0.8276	0.4680	0.7855	0.5929	0.9526	0.6329	0.8837
1972	0.7313	1.2903	1.0624	0.5442	0.8095	0.8272	1.0488	0.7348	0.9077
1973	0.8672	0.9327	1.0906	0.8548	1.0113	1.3337	1.4243	0.8983	1.1357
1974	2.2451	2.0434	1.6532	0.0	2.1382	2.0436	2.2476	2.2434	2.2655
1975	2.2210	2.1170	1.8456	2.1965	2.0927	2.3422	2.4716	2.0892	2.3482
1976	2.4382	2.4863	2.2579	2.3725	2.2949	2.6585	2.2830	2.3082	2.4597
1977	2.7261	2.7635	2.5796	2.6905	2.6723	2.5893	2.5244	2.6579	2.7852
1978	2.8048	2.8687	2.7456	2.8202	2.7715	2.7148	2.5697	2.6592	2.9212
1979	3.9577	4.0516	4.7486	4.2198	4.2853	3.5560	4.9617	4.3040	4.0575
1980	5.8240	6.0728	6.1897	5.9374	5.8597	5.1485	5.5835	5.6105	5.7169
YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.6327	0.9518	0.5586	0.5377	0.7930	1.0508	0.0	0.6666	0.3387
1971	0.5832	0.9782	0.8610	0.8227	1.1927	1.1940	1.0892	0.7069	0.3482
1972	0.7343	0.8774	0.8742	0.8214	1.2513	1.1771	0.9597	0.9684	0.3605
1973	1.2158	1.2082	1.1562	1.2699	1.2051	1.2079	1.2915	1.1899	0.4586
1974	1.6280	2.3995	2.3282	2.1190	2.5201	0.0	2.5519	1.8440	2.2375
1975	1.9198	2.3119	2.2679	2.0039	2.4125	2.2854	2.1931	2.0040	2.3092
1976	1.8035	2.2182	2.3755	0.0	2.4068	2.5676	2.3338	2.1594	2.4091
1977	2.6897	2.6625	2.8131	0.0	2.7384	2.9958	2.6410	2.3772	2.5967
1978	2.6122	2.5386	2.8197	0.0	2.8313	3.0177	2.6478	2.4097	2.5141
1979	5.0917	6.1878	4.1863	0.0	4.1279	4.8555	4.5281	4.7236	4.7277
1980	5.2954	6.5260	5.8469	0.0	5.7803	6.5013	6.3899	4.1209	6.2328
YEAR	VA	VT	WA	WI	WV	WY	US		
1970	0.4098	1.0183	0.0	0.7583	1.0035	0.8283	0.6155		
1971	0.5208	1.0831	0.0	0.9915	0.9031	0.6758	0.7671		
1972	0.6048	1.1137	0.4613	0.9080	1.0107	1.1279	0.8247		
1973	0.8679	1.2668	0.8567	1.2933	1.3255	1.2319	1.0724		
1974	2.0520	2.2788	2.6260	2.0096	2.2206	2.3430	2.1461		
1975	2.1773	2.1603	0.0	2.2892	2.3162	2.4370	2.1746		
1976	2.3833	2.2723	0.0	2.3089	2.5087	2.5020	2.3471		
1977	2.7527	2.8064	0.0	2.6400	2.8006	3.4010	2.6620		
1978	2.7526	0.0	3.3320	2.6629	2.8886	3.5441	2.7086		
1979	4.1362	5.2736	4.6654	3.7110	4.1754	4.5825	4.2362		
1980	5.8554	6.0577	2.7428	5.5768	6.2978	6.9806	5.7047		

TABLE C-18 MOTOR GASOLINE PRICES: TRANSPORTATION SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	3.1864	2.8173	2.7442	2.8008	2.8006	2.7168	2.9597	2.8581	2.8594
1971	3.2502	2.8494	2.8437	2.8690	2.8394	2.9314	3.0236	2.9305	2.9174
1972	3.2161	2.9477	2.7723	2.8272	2.7861	2.8084	3.0051	3.0105	2.9753
1973	3.4665	3.0835	2.9611	3.0610	3.0835	3.1085	3.2770	3.1181	3.1006
1974	4.7732	4.1415	4.0897	4.1197	4.4703	4.1988	4.3788	4.4909	4.1033
1975	5.1690	4.2592	4.5950	4.6170	4.8382	4.6660	4.6073	4.8495	4.5360
1976	5.3597	4.7043	4.8250	4.8359	5.0429	4.9022	4.7992	5.0586	4.5800
1977	5.6830	5.1235	5.1541	5.0915	5.3344	5.1287	5.1071	5.3777	4.8071
1978	5.9443	5.2680	5.3018	5.4170	5.4231	5.0524	5.3414	5.4560	4.9352
1979	7.7867	6.9199	6.8482	6.9172	7.4344	6.8488	7.1656	7.0199	6.9778
1980	10.1987	9.6737	9.6392	9.5468	10.1637	9.3600	9.9500	9.9703	9.7882

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	2.8089	2.7994	3.2922	2.8264	2.8075	3.0494	2.9767	2.6370	2.9326
1971	2.7737	2.8995	3.3581	2.9026	2.7967	3.0038	3.0069	2.6548	3.0007
1972	2.8756	2.8895	3.3228	2.9804	2.8105	2.9100	2.8422	2.5767	2.9825
1973	3.0476	3.0822	3.5816	3.1168	3.1998	3.2486	3.1441	3.0290	3.2241
1974	4.0728	4.3910	4.7756	4.1000	4.2968	4.4804	4.4700	4.1909	4.4224
1975	4.3898	4.7313	5.4450	4.5936	4.8071	4.7266	4.7541	4.4983	4.6903
1976	4.5656	4.8449	5.6705	4.8304	4.9811	4.8584	4.8667	4.7121	4.8221
1977	4.7025	5.1454	5.9141	5.1796	5.2418	5.1625	5.1643	4.9648	5.1153
1978	5.1786	5.2671	6.2155	5.4204	5.4955	5.3234	5.3849	5.1115	5.2033
1979	6.9924	7.0539	7.7904	7.0822	7.1314	7.2643	7.1952	6.7974	6.9368
1980	9.7046	9.9082	10.8113	9.7897	9.6381	9.8139	9.8742	9.2707	9.5258

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	2.8592	2.8588	2.8520	3.0200	2.7096	2.9723	2.7285	2.8381	2.8911
1971	2.8448	2.9264	2.8831	3.1234	2.7576	2.9679	2.8914	3.0018	2.9401
1972	2.7267	2.8731	3.0117	3.0490	2.7375	2.9671	2.8602	2.9940	2.8235
1973	2.9203	3.1239	3.1355	3.2103	3.1634	3.1237	3.1343	3.0782	3.1678
1974	3.9944	4.3841	4.5153	4.3505	4.5478	4.3251	4.3219	4.1747	4.2984
1975	4.4906	4.7297	4.8586	4.5627	4.7241	4.6274	4.5511	4.3364	4.7754
1976	4.8316	4.8141	4.9561	4.7001	4.8062	4.7590	4.6561	4.5726	4.8717
1977	5.0351	5.1550	5.2317	5.0259	5.1366	5.0541	4.9383	4.9868	5.2478
1978	5.3205	5.1458	5.3277	5.2146	5.3405	5.0615	5.0077	5.1742	5.5436
1979	6.9935	6.9842	7.0223	7.0496	7.2927	7.0069	6.9265	7.2036	7.0037
1980	9.7422	9.6920	9.9322	9.7729	10.0943	9.5551	9.3252	10.1221	8.5806

TABLE C-18 MOTOR GASOLINE PRICES: TRANSPORTATION SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	2.8233	2.8286	3.0251	2.9159	2.9917	2.9388	3.0656	2.9208	2.9323
1971	2.9788	2.9684	2.9993	3.0637	3.0433	2.9569	3.0209	3.0172	3.0337
1972	2.9815	2.5990	2.9966	3.0058	2.9017	2.9132	3.1146	3.1462	3.0303
1973	3.1427	3.1310	3.2059	3.2039	3.0823	3.0605	3.3412	3.3550	3.0897
1974	4.1727	4.2228	4.2670	4.3701	4.5475	4.2386	4.3774	4.5082	4.4473
1975	4.5480	4.6930	4.7630	4.5369	4.7860	4.7236	4.7374	4.8042	4.7257
1976	4.8332	4.9938	5.0552	4.7584	4.8871	4.7601	4.7369	4.9025	4.7449
1977	4.9541	5.3147	5.2923	5.0418	5.1616	5.0928	5.1180	5.1696	4.9943
1978	5.1202	5.5189	5.5020	5.2341	5.1465	5.3049	5.4461	5.3374	5.1382
1979	6.8285	7.1450	7.2076	7.1330	7.1550	6.7493	7.3303	7.3388	6.9030
1980	9.7093	9.6681	9.7689	9.9371	9.9366	9.3492	9.8787	10.1275	9.4526
YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	2.8211	2.8312	2.9188	2.8939	2.7526	2.9719	2.8420	2.6605	2.7462
1971	2.8025	2.8638	2.9744	2.9499	2.8525	2.8776	2.8448	2.7346	2.8003
1972	2.7795	2.8222	2.9363	2.8855	2.9265	2.6140	2.8396	2.6998	2.8412
1973	2.9949	3.0685	3.0316	3.0605	3.0696	3.0931	2.9999	2.7873	2.9873
1974	4.0382	4.1550	4.3983	4.2141	4.2423	4.1954	4.0638	3.9755	4.0321
1975	4.5201	4.4385	4.7174	4.4952	4.3489	4.6960	4.5797	4.3603	4.5159
1976	4.7552	4.5814	4.8166	4.6858	4.6332	4.8857	4.7706	4.5140	4.6826
1977	5.1019	4.9260	5.1207	4.9739	4.8987	5.1156	5.1281	4.7972	4.8800
1978	5.3375	5.2856	5.1123	5.0979	5.0115	5.3428	5.3462	4.8774	5.1015
1979	6.8693	7.2224	7.0008	7.1170	6.9127	7.0768	7.0063	6.5231	7.0609
1980	9.6315	9.7517	9.7144	9.9061	9.7361	9.6562	9.6952	9.2063	9.6414
YEAR	VA	VT	WA	WI	WV	WY	US		
1970	2.8458	3.0921	2.9206	2.6518	2.8576	2.9296	2.8483		
1971	2.8585	3.2023	2.9326	2.7674	3.0198	2.9680	2.9036		
1972	2.9309	3.2043	2.8778	2.6883	3.0684	2.7628	2.8830		
1973	3.1545	3.3370	3.1392	3.0735	3.1358	3.1477	3.0996		
1974	4.4081	4.4671	4.2949	4.3022	4.1173	4.2968	4.3183		
1975	4.7666	4.6851	4.6152	4.5446	4.6095	4.7727	4.6448		
1976	5.0094	4.8067	4.8064	4.6591	4.7280	4.9343	4.8046		
1977	5.3292	4.9601	5.1629	4.9465	5.0544	5.2763	5.0900		
1978	5.3854	5.1306	5.3964	4.9782	5.1252	5.5219	5.2348		
1979	6.9460	7.2297	7.1712	6.8617	7.1274	7.1583	7.0556		
1980	9.8778	10.0357	9.8433	9.4303	10.0163	8.7381	9.7510		

TABLE C-19 DIESEL FUEL PRICES: TRANSPORTATION SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CD	CT	DC	DE
1970	0.0	1.3126	1.1447	1.2443	1.4073	1.1893	1.3754	1.3056	1.2331
1971	0.0	1.3359	1.2037	1.2945	1.5427	1.2274	1.4752	1.3786	1.3250
1972	0.0	1.4079	1.2186	1.3123	1.4727	1.2226	1.4866	1.3895	1.3635
1973	0.0	1.7322	1.4218	1.4622	1.7631	1.4548	1.7884	1.7443	1.7642
1974	0.0	2.6996	2.3268	2.5144	2.9012	2.4238	2.6944	2.7495	2.7550
1975	0.0	2.8930	2.5050	2.7120	3.1941	2.4688	2.8768	2.7852	2.7849
1976	0.0	3.0551	2.6682	2.8167	3.2853	2.6726	3.0714	2.9814	2.9813
1977	0.0	3.3103	3.0630	3.2622	3.2730	3.0541	3.5796	3.5011	3.4999
1978	0.0	3.2666	3.1308	3.3698	3.2717	3.1880	3.7571	3.6774	3.6777
1979	0.0	4.7140	4.6841	4.7494	4.8811	4.7776	5.2707	5.3577	5.4377
1980	0.0	6.9239	6.6348	7.2712	7.0002	7.0603	7.3322	7.6254	7.6465

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	1.4298	1.1377	1.3529	1.2610	1.3005	1.3754	1.2170	1.1685	1.4384
1971	1.4941	1.4837	1.4459	1.2738	1.3487	1.4132	1.2230	1.1731	1.3839
1972	1.5431	1.4909	1.4526	1.2966	1.3884	1.4349	1.2717	1.2139	1.3979
1973	1.8314	1.7332	1.5884	1.5315	1.6080	1.7755	1.5976	1.5405	1.5825
1974	2.5605	2.6507	2.3283	2.4862	2.5580	2.6610	2.6276	2.5473	2.6458
1975	2.8646	2.9916	2.6083	2.6247	2.6570	2.8105	2.6619	2.6786	2.7687
1976	3.1459	3.0964	2.8220	2.8479	2.8517	2.9743	2.7883	2.7663	2.9643
1977	3.5033	3.4852	3.0971	3.2814	3.1052	3.4184	3.3262	3.1103	3.3497
1978	3.7268	3.5738	3.3839	3.3448	3.2066	3.5825	3.3417	3.2598	3.3371
1979	5.4910	5.1558	4.7451	4.9993	4.8167	5.3430	4.9766	4.9746	4.7558
1980	7.6451	7.4144	7.3245	6.9014	6.8840	7.3777	7.1049	6.9838	6.7922

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	1.0749	1.3392	1.3050	1.3746	1.2547	1.2285	1.2235	2.0000	1.2311
1971	1.1539	1.4746	1.3786	1.4757	1.2934	1.2643	1.2558	1.7447	1.2689
1972	1.1700	1.4847	1.3900	1.4856	1.2810	1.2362	1.2734	1.5340	1.2748
1973	1.4076	1.7826	1.7726	1.7866	1.6322	1.5983	1.5376	1.5376	1.5217
1974	2.3816	2.7003	2.7512	2.7074	2.6338	2.5269	2.5006	2.6215	2.5570
1975	2.5173	2.8753	2.7865	2.8750	2.7407	2.6460	2.6900	2.7214	2.6272
1976	2.6484	3.0714	2.9821	3.0714	2.8662	2.8485	2.8564	3.2020	2.7643
1977	2.9674	3.5808	3.5041	3.5887	3.3459	3.2893	3.1160	3.5508	3.1120
1978	3.0656	3.7565	3.6787	3.7547	3.5239	3.3046	3.2766	3.8194	3.2597
1979	4.6861	5.2935	5.3687	5.2496	5.1273	5.0287	4.9707	5.3630	4.7940
1980	6.7754	7.3284	7.6202	7.3405	7.1248	7.0895	6.9053	7.6007	7.0874

TABLE C-19 DIESEL FUEL PRICES: TRANSPORTATION SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	1.2892	1.3134	1.1341	1.3035	1.5559	1.1429	1.4829	1.4289	1.2472
1971	1.3218	1.3045	1.1455	1.4756	1.7322	1.1534	1.5791	1.4409	1.3864
1972	1.3590	1.3178	1.1431	1.4887	1.9839	1.1933	1.5751	1.3964	1.3613
1973	1.7422	1.5858	1.5043	1.7876	2.8240	1.4678	1.8010	1.7348	1.5983
1974	2.9131	2.5273	2.4311	2.7046	2.8333	1.4722	2.8511	2.6788	2.5844
1975	3.0920	2.6452	2.4755	2.8755	3.1796	2.5927	2.9818	2.8169	2.7335
1976	3.2850	2.8893	2.7640	3.0714	3.1403	2.7673	3.0355	2.9999	2.9317
1977	3.6872	3.2344	3.1266	3.5864	3.3984	3.0762	3.2547	3.4368	3.3292
1978	3.8280	3.3644	3.2335	3.7553	3.6163	3.2573	3.4286	3.6387	3.5027
1979	5.2008	5.0452	4.9035	5.3252	5.0854	4.7791	4.9309	5.1890	5.0888
1980	7.2660	7.1636	6.9947	7.3074	7.2737	6.9050	7.2906	7.3825	6.8842

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	1.1036	1.3302	1.3364	1.3455	1.3090	1.3060	1.2692	1.0411	1.3077
1971	1.1126	1.4038	1.3539	1.4736	1.5314	1.3005	1.3066	1.1397	1.3830
1972	1.1231	1.3816	1.4019	1.4896	1.5453	1.3366	1.3553	1.1414	1.3753
1973	1.4705	1.5724	1.7032	1.8255	1.8643	1.6362	1.6861	1.3828	1.6643
1974	2.4502	2.4563	2.6015	2.6661	2.8962	2.5712	2.6751	2.3111	2.7959
1975	2.5830	2.6619	2.6116	2.8772	2.9826	2.6910	2.9937	2.4679	2.9453
1976	2.7777	2.8179	2.9222	3.0714	3.1782	2.8965	3.0363	2.6483	2.8180
1977	3.2120	3.0506	3.3751	3.5790	3.5195	3.3503	3.2682	2.9534	3.1789
1978	3.3459	3.1569	3.5298	3.7539	3.7126	3.4860	3.4451	3.0422	3.3199
1979	5.2150	4.6916	5.1435	5.2873	4.9579	4.9979	4.9742	4.7407	4.9360
1980	7.2360	6.8958	6.9888	7.3433	7.5586	7.0510	7.1804	7.0202	6.9579

YEAR	VA	VT	WA	WI	WV	WY	US
1970	1.2380	1.4129	1.3040	1.3129	1.7004	1.2948	1.2932
1971	1.3076	1.4752	1.3748	1.3300	1.8957	1.3111	1.3590
1972	1.3124	1.4887	1.4207	1.3184	2.0543	1.2939	1.3535
1973	1.5708	1.7898	1.5956	1.5973	2.4734	1.4947	1.5765
1974	2.5562	2.7023	2.4818	2.4380	3.6126	2.5367	2.6120
1975	2.6987	2.8756	2.6274	2.5921	3.9327	2.6769	2.7941
1976	2.8754	3.0714	2.8651	2.7876	3.6240	2.8631	2.9518
1977	3.2997	3.5841	3.0895	3.1987	3.9962	3.2051	3.2064
1978	3.4766	3.7564	3.1539	3.3899	4.2837	3.3311	3.3033
1979	4.9265	5.3187	4.5933	5.1001	5.9018	4.9496	4.9034
1980	7.2050	6.7466	6.6605	7.2151	8.2841	7.3225	7.0577

TABLE C-20 KEROSENE PRICES: RESIDENTIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.0	1.6224	1.3997	2.8942	2.5738	1.5137	1.6981	1.5020	1.3432
1971	0.0	1.6658	1.4131	2.6879	2.7467	1.5386	1.6639	1.8349	1.4364
1972	0.0	1.6892	1.4779	2.4472	3.0316	1.5564	1.6912	1.6814	1.5212
1973	0.0	1.9419	1.6787	2.5602	3.5455	1.8251	1.9440	1.9034	1.9034
1974	0.0	2.9582	2.7485	3.9616	5.3373	2.8653	3.0149	2.9411	2.9326
1975	0.0	3.3098	2.7997	4.6502	5.0759	2.9585	3.1614	3.3659	3.3659
1976	0.0	3.5551	2.8972	4.5880	5.1907	3.1958	3.3514	3.2814	3.2814
1977	0.0	3.8542	3.4284	5.2232	5.7250	3.5822	3.7550	3.8563	3.8563
1978	0.0	4.2629	3.6001	5.5508	6.0291	3.8125	4.0146	4.0975	4.0975
1979	0.0	6.9831	5.1698	7.4540	8.6120	5.0417	5.3412	5.5333	5.5333
1980	0.0	9.2208	7.7264	11.6883	13.0071	7.9898	8.1643	8.5595	8.5595
YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	1.6288	1.4776	2.9360	1.5711	2.4961	1.6470	1.5918	1.4039	1.7308
1971	1.5981	1.5297	3.1605	1.6191	2.4181	1.6800	1.5156	1.4272	1.5936
1972	1.5993	1.6459	3.4675	1.6216	3.0904	1.6682	1.3876	1.4770	1.6047
1973	1.8370	1.8800	3.6049	1.8561	3.2138	1.9208	1.7613	1.7378	1.8923
1974	2.9617	2.9735	4.5843	2.7798	3.9681	2.9301	2.8284	2.7062	2.9582
1975	3.2747	3.3486	5.1824	2.9860	4.0775	3.1764	3.1087	2.8412	3.1262
1976	3.5525	3.3991	5.6286	3.2615	4.3520	3.3471	3.2483	3.0172	3.3041
1977	4.0514	3.9869	6.2857	3.7331	4.7862	3.9026	3.8327	3.5408	3.6029
1978	4.3322	4.2633	6.6196	3.9675	5.0938	4.0875	4.0143	3.7631	3.9831
1979	5.8749	5.7814	9.4555	5.4668	6.7362	5.8353	5.7308	5.1852	6.2134
1980	8.9349	8.7927	14.2811	8.1091	10.6752	8.7238	8.5675	7.6914	8.6367
YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	1.6011	1.6248	1.5020	1.5983	1.5631	1.5192	1.4320	2.0595	1.7181
1971	1.6860	1.6639	1.8349	1.6639	1.5436	1.5394	1.5603	2.1333	1.7856
1972	1.7535	1.6912	1.6814	1.6912	1.5702	1.5689	1.5784	2.1851	1.8111
1973	2.0308	1.9440	1.9034	1.9440	1.8997	1.7949	1.8296	2.2656	2.1567
1974	3.2379	3.0149	2.9411	3.0149	2.9997	2.7681	2.7764	3.1638	3.0845
1975	3.4156	3.1614	3.3659	3.1614	3.1160	2.9121	2.8798	3.1966	3.1648
1976	3.7854	3.3514	3.2814	3.3514	3.2294	3.1571	3.1477	4.0932	3.2511
1977	4.4175	3.7550	3.8563	3.7550	3.7775	3.6978	3.6658	4.4256	3.7129
1978	4.6388	4.0146	4.0975	4.0146	3.9564	3.9300	3.8960	4.8949	3.9515
1979	6.6614	5.3412	5.5333	5.3412	5.6482	5.4152	5.3683	8.0184	5.2256
1980	9.9556	8.1643	8.5595	8.1643	8.4441	8.0326	7.9630	10.5878	8.2813

TABLE C-20 KEROSENE PRICES: RESIDENTIAL SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	1.4012	1.6490	1.3880	1.5810	1.7151	1.4908	3.3396	1.5622	1.4245
1971	1.4529	1.6320	1.3909	1.6639	1.7671	1.4889	3.4675	1.6629	1.4910
1972	1.4802	1.6269	1.3979	1.6912	1.8109	1.5263	3.2833	1.6494	1.4797
1973	1.7666	1.9209	1.7350	1.9440	2.1672	1.7859	3.5554	2.0234	1.7485
1974	2.7295	2.6721	2.6342	3.0149	3.2950	2.8741	4.6173	3.0360	2.7980
1975	2.9574	2.6882	2.7416	3.1614	3.5116	3.0478	4.7915	3.2758	2.8975
1976	3.1991	2.9871	3.0355	3.3514	3.7792	3.1821	4.7668	3.4319	3.1092
1977	3.6169	3.4059	3.4795	3.7550	4.2265	3.5705	5.4359	3.8682	3.6175
1978	3.8676	3.6198	3.6979	4.0146	4.4797	3.7967	5.7769	4.1000	3.7889
1979	5.2449	4.9877	5.0954	5.3412	6.0855	5.0629	7.7576	5.5697	5.4090
1980	7.9767	7.3985	7.5582	8.1643	9.2920	7.9692	12.1644	8.5043	8.0865

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	1.4139	2.7928	1.5664	1.7037	1.5756	1.5656	1.6204	1.2962	2.6190
1971	1.4413	2.9863	1.6224	1.6639	1.6018	1.5740	1.6140	1.3895	2.9975
1972	1.4145	3.2602	1.5820	1.6912	1.6154	1.6124	1.6731	1.4077	3.1746
1973	1.6744	3.3611	1.8212	1.9440	1.8941	1.7997	1.8956	1.6005	3.5728
1974	2.7813	3.7475	2.8856	3.0149	2.9822	2.7763	3.1599	2.6944	4.5986
1975	2.8761	3.8182	3.1203	3.1614	3.1567	2.9073	3.3836	3.0202	5.1555
1976	3.0871	3.8676	3.2625	3.3514	3.3124	3.1386	3.4633	3.1436	4.7673
1977	3.5445	4.3013	3.6686	3.7550	3.7575	3.6123	3.8447	3.7095	5.5110
1978	3.7482	4.5298	3.8884	4.0146	4.0180	3.8391	4.2504	3.8953	5.8652
1979	5.2572	6.4704	5.2823	5.3412	5.4488	5.2899	6.6304	5.5936	7.7563
1980	7.9781	9.7726	8.0655	8.1643	8.2868	7.8467	9.2163	8.3598	12.2919

YEAR	VA	VT	WA	WI	WV	WY	US
1970	1.4406	1.6279	2.4653	1.4685	1.6371	1.7020	1.5447
1971	1.5052	1.6639	2.6413	1.5179	1.6953	1.7126	1.5995
1972	1.5091	1.6912	2.7789	1.5842	1.7185	1.9727	1.6150
1973	1.7855	1.9440	2.9855	1.8423	1.9253	2.1085	1.8804
1974	2.7575	3.0149	3.4680	2.8058	2.9532	3.0847	2.9608
1975	2.9929	3.1614	3.6138	2.9653	3.1691	3.1670	3.1755
1976	3.1841	3.3514	4.0258	3.1069	3.4271	3.2523	3.3598
1977	3.6190	3.7550	4.2960	3.6363	3.8555	3.6419	3.8598
1978	3.8699	4.0146	4.5243	3.8085	4.1227	3.8760	4.1248
1979	5.2479	5.3412	6.4625	5.4370	5.5908	5.1258	5.5647
1980	7.9814	8.1643	9.7606	8.1284	8.5029	8.1231	8.3458

TABLE C-21 KEROSENE PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.7621	0.7708	0.7676	0.7601	0.9540	0.8792	0.7874	1.3287	0.8482
1971	0.7834	0.8293	0.8106	0.7814	0.9807	0.8745	0.8362	1.3492	0.8613
1972	0.7933	0.8293	0.8106	0.7913	0.9931	0.8651	0.8341	1.3412	0.8562
1973	1.0567	0.9119	1.0745	1.0540	1.3228	1.1410	1.0659	1.5433	0.9852
1974	2.8040	1.9192	2.0755	1.6942	2.2515	1.9151	2.4232	2.7141	2.1599
1975	3.0195	2.1881	2.3384	2.3556	2.4911	2.1150	2.6690	2.7895	2.3630
1976	3.2872	2.4336	2.3586	2.5367	2.8429	2.3168	2.7176	2.9770	2.5542
1977	3.6522	2.7571	3.0220	2.6329	2.9673	2.3428	2.9887	3.5387	2.9386
1978	4.1106	3.1446	3.1081	2.8344	3.1146	2.5793	3.1153	3.3218	3.1200
1979	5.7574	5.2986	4.3624	4.0975	4.8853	3.7847	4.6844	5.2810	4.4970
1980	8.8653	6.7582	6.3753	6.2670	6.9883	5.7401	6.8544	7.7642	6.6116

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.6120	0.6362	0.8484	0.8067	0.8134	0.8264	0.8065	0.6877	0.8167
1971	0.6605	0.6793	0.8722	0.8329	0.8361	0.8533	0.8327	0.7354	0.8734
1972	0.6615	0.6793	0.8832	0.8321	0.8467	0.8525	0.8320	0.7354	0.8734
1973	0.6777	0.8050	1.1764	1.1280	1.1279	1.1556	1.1278	0.8766	1.0411
1974	2.2012	1.7696	2.4942	2.1953	2.4336	2.3488	2.3712	1.9673	2.3023
1975	2.3760	2.2200	2.5027	2.3301	2.5869	2.5057	2.4115	2.3022	2.4775
1976	2.5356	2.3755	2.4166	2.5483	2.7292	2.6619	2.4583	2.4579	2.5631
1977	2.9424	2.9311	3.0654	2.7806	2.7697	3.0244	2.8935	2.7695	2.8262
1978	3.2143	3.2520	3.1226	3.0265	3.1696	3.2109	3.0270	3.0340	3.2087
1979	4.6159	4.7871	4.8766	4.4610	4.5833	4.8630	4.6616	4.7361	5.8002
1980	6.9522	7.1256	6.9758	6.2049	6.9233	6.9421	6.6547	5.9949	7.5998

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.5841	0.8035	0.8815	0.6790	0.7439	0.8862	0.8218	0.8758	0.9277
1971	0.6246	0.8529	0.8951	0.7210	0.7580	0.8807	0.8788	0.9366	0.9220
1972	0.6246	0.8508	0.8898	0.7192	0.7574	0.8720	0.8788	0.9366	0.9129
1973	0.7445	1.0986	1.0239	0.9104	0.8626	1.1502	1.0476	1.1164	1.2041
1974	1.7035	2.4194	2.3494	2.0868	2.2386	2.2357	2.2486	1.9345	2.2693
1975	2.0257	2.6176	2.5319	2.5547	2.4485	2.5807	2.4378	1.8213	2.6331
1976	2.3824	2.6768	2.7218	2.7528	2.4879	2.6553	2.6018	2.2740	2.4194
1977	2.5397	2.9739	3.0193	3.1237	2.9776	2.9731	2.8879	2.8032	2.6311
1978	2.3623	3.1432	3.2313	3.3360	3.2147	3.2246	3.0901	3.1823	2.9275
1979	3.9035	4.7097	4.7570	4.5402	5.0839	4.8036	5.0321	5.1443	4.4666
1980	5.9227	6.8915	6.9937	6.8020	6.7799	6.7087	6.3695	6.7404	6.4618

TABLE C-21 KEROSENE PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.7951	0.8455	0.7874	0.7437	0.7973	1.0318	1.0230	0.7358	0.8611
1971	0.7938	0.8402	0.8421	0.7898	0.8472	1.0607	1.0516	0.7842	0.8775
1972	0.7891	0.8320	0.8421	0.7878	0.8451	1.0741	1.0649	0.7828	0.8767
1973	0.9844	1.0973	1.0038	0.9972	0.9343	1.4308	1.4185	0.9508	0.9985
1974	2.1674	2.3460	1.9820	2.3693	2.2767	2.6581	2.3824	2.2840	2.4179
1975	2.3704	2.9465	2.4285	2.5471	2.5029	2.7986	2.5491	2.5047	2.4836
1976	2.6045	3.2181	2.5723	2.5267	2.5100	2.9486	2.6719	2.5369	2.6527
1977	2.9799	2.9638	2.7250	2.9203	2.8682	3.2625	2.9870	2.9040	3.0020
1978	3.1464	3.2470	2.9985	3.1265	2.9907	3.5402	3.2590	3.0714	3.1546
1979	4.5747	5.2002	4.8126	4.4510	4.6278	5.0393	4.8160	5.0248	5.1084
1980	6.8008	7.2627	6.0917	6.6684	6.6350	7.7483	6.9168	7.2030	7.0355

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.6179	0.9156	0.7376	0.7747	0.6323	0.7770	0.8096	0.7434	0.6802
1971	0.6129	0.9412	0.7842	0.8195	0.6493	0.7722	0.8657	0.7950	0.6992
1972	0.6052	0.9531	0.7822	0.8176	0.6460	0.7646	0.8657	0.7950	0.7081
1973	0.7740	1.2696	0.8927	0.9136	0.7818	1.0085	1.0320	0.9476	0.9432
1974	2.3877	2.3284	2.2785	2.3265	2.2556	2.4931	2.2276	2.1460	2.0812
1975	2.4476	2.5801	2.5229	2.5947	2.2943	2.7812	2.2710	2.2521	2.3500
1976	2.7107	2.8549	2.5243	2.4080	2.4984	2.9118	2.4711	2.8446	2.6027
1977	3.1052	3.1537	2.9022	3.0331	2.9555	3.0416	2.8315	3.1041	2.7351
1978	3.3463	3.2793	2.9800	3.2303	3.1917	3.4375	3.1635	3.3233	2.8120
1979	4.8820	4.8594	4.5978	4.5354	4.5861	5.1674	5.6067	4.8129	4.0985
1980	6.9865	7.3111	6.6150	6.8064	6.8197	7.2168	7.3462	6.9373	6.3143

YEAR	VA	VT	WA	WI	WV	WY	US
1970	0.6516	0.9117	0.8369	0.8282	0.7735	0.8462	0.7742
1971	0.6924	0.9681	0.8603	0.8551	0.8219	0.8416	0.8049
1972	0.6907	0.9658	0.8712	0.8544	0.8199	0.8327	0.8057
1973	0.7636	1.2225	1.1605	1.1581	0.9063	1.0982	0.9894
1974	2.0417	2.4046	1.8746	2.3114	2.1768	2.5750	2.1421
1975	2.3667	2.6461	2.3111	2.4023	2.4521	2.7144	2.3507
1976	2.4835	2.8918	2.6278	2.6175	2.6063	2.8652	2.5990
1977	2.9105	3.1274	3.1282	2.9945	3.1337	3.1795	2.9240
1978	3.0974	3.2451	3.4359	3.1471	3.3124	3.4554	3.0853
1979	4.5088	4.7196	4.4739	4.7614	4.7749	4.9816	4.8367
1980	6.6404	7.0708	6.8889	6.7971	7.0322	7.5121	6.7542

TABLE C-23 JET FUEL PRICES: TRANSPORTATION SECTOR^(a)
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.7667	0.6793	0.8163	0.7978	0.7667	0.7978	0.7822	0.7993	0.7993
1971	0.8059	0.7141	0.8578	0.8385	0.8059	0.8385	0.8222	0.8400	0.8400
1972	0.8030	0.7119	0.8548	0.8356	0.8030	0.8356	0.8193	0.8370	0.8370
1973	0.9526	0.8437	1.0141	0.9911	0.9526	0.9911	0.9719	0.9933	0.9933
1974	1.6422	1.4548	1.7481	1.7089	1.6422	1.7089	1.6756	1.7119	1.7119
1975	2.1415	1.8978	2.2793	2.2289	2.1415	2.2289	2.1852	2.2326	2.2326
1976	2.4340	2.0440	2.4083	2.4481	2.4340	2.4481	2.3879	2.3722	2.3722
1977	2.7423	2.3760	2.8044	2.8428	2.7423	2.8428	2.7469	2.8019	2.8019
1978	2.9949	2.6840	3.2368	3.0613	2.9949	3.0613	3.0925	3.1058	3.1058
1979	3.9668	3.6300	4.4827	4.2809	3.9668	4.2809	4.1449	4.3364	4.3364
1980	6.5057	5.9520	7.1886	6.9007	6.5057	6.9007	6.7825	7.0906	7.0906

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.7993	0.7993	0.7667	0.8052	0.7978	0.7741	0.7741	0.8052	0.6793
1971	0.8400	0.8400	0.8059	0.8459	0.8385	0.8133	0.8133	0.8459	0.7141
1972	0.8370	0.8370	0.8030	0.8430	0.8356	0.8104	0.8104	0.8430	0.7119
1973	0.9933	0.9933	0.9526	1.0000	0.9911	0.9615	0.9615	1.0000	0.8437
1974	1.7119	1.7119	1.6422	1.7237	1.7089	1.6570	1.6570	1.7237	1.4548
1975	2.2326	2.2326	2.1415	2.2481	2.2289	2.1615	2.1615	2.2481	1.8978
1976	2.3722	2.3722	2.4340	2.4552	2.4481	2.4412	2.4412	2.4552	2.0440
1977	2.8019	2.8019	2.7423	2.8820	2.8428	2.7631	2.7631	2.8820	2.3760
1978	3.1058	3.1058	2.9949	3.1130	3.0613	2.9761	2.9761	3.1130	2.6840
1979	4.3364	4.3364	3.9668	4.3186	4.2809	4.0641	4.0641	4.3186	3.6300
1980	7.0906	7.0906	6.5057	6.9102	6.9007	6.6141	6.6141	6.9102	5.9520

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.8163	0.7822	0.7993	0.7822	0.7741	0.8052	0.8052	0.6793	0.7978
1971	0.8578	0.8222	0.8400	0.8222	0.8133	0.8459	0.8459	0.7141	0.8385
1972	0.8548	0.8193	0.8370	0.8193	0.8104	0.8430	0.8430	0.7119	0.8356
1973	1.0141	0.9719	0.9933	0.9719	0.9615	1.0000	1.0000	0.8437	0.9911
1974	1.7481	1.6756	1.7119	1.6756	1.6570	1.7237	1.7237	1.4548	1.7089
1975	2.2793	2.1852	2.4326	2.1852	2.1615	2.2481	2.2481	1.8978	2.2289
1976	2.4083	2.3879	2.3722	2.3879	2.4412	2.4552	2.4552	2.0440	2.4481
1977	2.8044	2.7469	2.8019	2.7469	2.7631	2.8820	2.8820	2.3760	2.8428
1978	3.2368	3.0925	3.1058	3.0925	2.9761	3.1130	3.1130	2.6840	3.0613
1979	4.4827	4.1449	4.3364	4.1449	4.0641	4.3186	4.3186	3.6300	4.2809
1980	7.1886	6.7825	7.0906	6.7825	6.6141	6.9102	6.9102	5.9520	6.9007

(a) Data are wholesale regional prices assigned to states.

TABLE C-23 JET FUEL PRICES: TRANSPORTATION SECTOR (a)
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.7993	0.8052	0.8052	0.7822	0.7630	0.7978	0.7978	0.7630	0.7741
1971	0.8400	0.8459	0.8459	0.8222	0.8015	0.8385	0.8385	0.8015	0.8133
1972	0.8370	0.8430	0.8430	0.8193	0.7993	0.8356	0.8356	0.7993	0.8104
1973	0.9933	1.0000	1.0000	0.9719	0.9481	0.9911	0.9911	0.9481	0.9615
1974	1.7119	1.7237	1.7237	1.6756	1.6341	1.7089	1.7089	1.6341	1.6570
1975	2.2326	2.2481	2.2481	2.1852	2.1311	2.2289	2.2289	2.1311	2.1615
1976	2.3722	2.4552	2.4552	2.3879	2.3125	2.4481	2.4481	2.3125	2.4412
1977	2.8019	2.8820	2.8820	2.7469	2.6560	2.8428	2.8428	2.6560	2.7631
1978	3.1058	3.1130	3.1130	3.0925	3.0251	3.0613	3.0613	3.0251	2.9761
1979	4.3364	4.3186	4.3186	4.1449	4.0789	4.2809	4.2809	4.0789	4.0641
1980	7.0906	6.9102	6.9102	6.7825	6.6411	6.9007	6.9007	6.6411	6.6141

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.8163	0.7667	0.7630	0.7822	0.7993	0.8052	0.6793	0.8163	0.7978
1971	0.8578	0.8059	0.8015	0.8222	0.8400	0.8459	0.7141	0.8578	0.8385
1972	0.8548	0.8030	0.7993	0.8193	0.8370	0.8430	0.7119	0.8548	0.8356
1973	1.0141	0.9526	0.9481	0.9719	0.9933	1.0000	0.8437	1.0141	0.9911
1974	1.7481	1.6422	1.6341	1.6756	1.7119	1.7237	1.4548	1.7481	1.7089
1975	2.2793	2.1415	2.1311	2.1852	2.2326	2.2481	1.8978	2.2793	2.2289
1976	2.4083	2.4340	2.3125	2.3879	2.3722	2.4552	2.0440	2.4083	2.4481
1977	2.8044	2.7423	2.6560	2.7469	2.8019	2.8820	2.3760	2.8044	2.8428
1978	3.2368	2.9949	3.0251	3.0925	3.1058	3.1130	2.6840	3.2368	3.0613
1979	4.4827	3.9668	4.0789	4.1449	4.3364	4.3186	3.6300	4.4827	4.2809
1980	7.1886	6.5057	6.6411	6.7825	7.0906	6.9102	5.9520	7.1886	6.9007

YEAR	VA	VT	WA	WI	WV	WY	US
1970	0.7993	0.7822	0.7667	0.7741	0.7993	0.7978	0.7781
1971	0.8400	0.8222	0.8059	0.8133	0.8400	0.8385	0.8180
1972	0.8370	0.8193	0.8030	0.8104	0.8370	0.8356	0.8156
1973	0.9933	0.9719	0.9526	0.9615	0.9933	0.9911	0.9678
1974	1.7119	1.6756	1.6422	1.6570	1.7119	1.7089	1.6687
1975	2.2326	2.1852	2.1415	2.1615	2.2326	2.2289	2.1761
1976	2.3722	2.3879	2.4340	2.4412	2.3722	2.4481	2.3934
1977	2.8019	2.7469	2.7423	2.7631	2.8019	2.8428	2.7511
1978	3.1058	3.0925	2.9949	2.9761	3.1058	3.0613	3.0440
1979	4.3364	4.1449	3.9668	4.0641	4.3364	4.2809	4.1473
1980	7.0906	6.7825	6.5057	6.6141	7.0906	6.9007	6.7636

(a) Data are wholesale regional prices assigned to states.

TABLE C-22 KEROSENE PRICES: ELECTRIC UTILITY SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.0	0.0	0.0	0.0	1.6044	0.0	1.5170	0.0	0.0
1971	0.0	0.0	0.0	0.0	1.6274	0.0	1.5415	0.0	0.0
1972	0.0	0.0	0.0	0.0	1.6356	0.0	1.5481	0.0	0.0
1973	0.0	0.0	0.0	0.0	1.7681	0.0	1.6674	0.0	0.0
1974	0.0	0.0	0.0	0.0	2.4018	0.0	2.3211	0.0	0.0
1975	0.0	0.0	0.0	2.5886	2.3743	0.0	2.4187	0.0	0.0
1976	0.0	0.0	0.0	0.0	2.5116	0.0	2.0798	0.0	0.0
1977	0.0	0.0	0.0	0.0	2.6388	0.0	2.2851	0.0	0.0
1978	0.0	0.0	0.0	0.0	2.9146	0.0	1.4476	0.0	0.0
1979	0.0	0.0	0.0	0.0	3.3330	0.0	4.3146	0.0	0.0
1980	0.0	0.0	0.0	0.0	5.3761	0.0	6.0697	0.0	0.0
YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.0	0.0	0.0	0.0	0.0	1.6607	0.0	0.0	0.0
1971	0.0	0.0	0.0	0.0	0.0	1.6852	0.0	0.0	0.0
1972	0.0	0.0	0.0	0.0	0.0	1.6933	0.0	0.0	0.0
1973	0.0	0.0	0.0	0.0	0.0	1.8333	0.0	0.0	0.0
1974	0.0	0.0	0.0	0.0	0.0	2.5091	0.0	0.0	0.0
1975	2.4536	0.0	0.0	0.0	0.0	2.5029	0.0	0.0	0.0
1976	0.0	0.0	0.0	0.0	0.0	2.6111	0.0	0.0	0.0
1977	0.0	0.0	0.0	0.0	0.0	2.9933	2.4903	0.0	0.0
1978	0.0	0.0	0.0	0.0	0.0	3.0930	0.0	0.0	0.0
1979	0.0	0.0	0.0	0.0	0.0	5.1256	0.0	0.0	0.0
1980	0.0	0.0	0.0	0.0	0.0	9.8946	0.0	0.0	0.0
YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.0	1.6030	1.5763	0.0	1.5607	0.0	0.0	0.0	0.0
1971	0.0	1.6259	1.5948	0.0	1.5837	0.0	0.0	0.0	0.0
1972	0.0	1.6341	1.6044	0.0	1.5911	0.0	0.0	0.0	0.0
1973	0.0	1.7659	1.7319	0.0	1.7141	0.0	0.0	0.0	0.0
1974	0.0	2.3115	2.2677	0.0	2.2594	0.0	0.0	0.0	0.0
1975	0.0	2.3756	2.4256	0.0	2.2790	0.0	0.0	0.0	0.0
1976	0.0	2.5941	2.4132	0.0	2.4876	0.0	0.0	0.0	0.0
1977	0.0	2.8432	2.7395	0.0	2.9077	0.0	0.0	0.0	0.0
1978	0.0	3.1450	2.8107	0.0	2.9577	0.0	0.0	0.0	0.0
1979	0.0	4.9187	0.0	0.0	5.3341	0.0	0.0	0.0	0.0
1980	0.0	6.5380	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE C-22 KEROSENE PRICES: ELECTRIC UTILITY SECTOR
(\$/MILLION BTU)

YFAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.0	0.0	0.0	1.5437	1.5541	0.0	0.0	1.5933	1.6163
1971	0.0	0.0	0.0	1.5637	1.5756	0.0	0.0	1.6156	1.6400
1972	0.0	0.0	0.0	1.5704	1.5815	0.0	0.0	1.6237	1.6474
1973	0.0	0.0	0.0	1.6933	1.7052	0.0	0.0	1.7533	1.7822
1974	0.0	0.0	0.0	2.1151	2.2832	0.0	0.0	2.3453	2.3333
1975	0.0	0.0	0.0	2.3198	2.2928	0.0	0.0	2.3570	2.4144
1976	0.0	0.0	0.0	2.4792	2.4034	0.0	0.0	2.5184	2.6117
1977	0.0	0.0	0.0	2.8761	2.7786	0.0	0.0	2.7972	3.0826
1978	0.0	0.0	0.0	3.1479	2.9821	0.0	0.0	2.8119	3.0097
1979	0.0	0.0	0.0	5.7755	4.6203	0.0	0.0	4.4774	0.0
1980	0.0	0.0	0.0	6.9195	6.1946	0.0	0.0	6.5302	0.0

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.0	0.0	1.6452	0.0	0.0	0.0	0.0	0.0	0.0
1971	0.0	0.0	1.6696	0.0	0.0	0.0	0.0	0.0	0.0
1972	0.0	0.0	1.6763	0.0	0.0	0.0	0.0	0.0	0.0
1973	0.0	0.0	1.8156	0.0	0.0	0.0	0.0	0.0	0.0
1974	0.0	2.4546	2.3872	0.0	0.0	0.0	0.0	0.0	0.0
1975	0.0	0.0	2.5350	0.0	0.0	0.0	0.0	0.0	0.0
1976	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1977	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1978	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1979	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

YEAR	VA	VT	WA	WI	WV	WY	US
1970	0.0	1.6400	1.7467	1.5481	1.6785	0.0	1.3944
1971	0.0	1.6644	1.7815	1.5696	1.7052	0.0	1.4142
1972	0.0	1.6726	1.7970	1.5748	1.7133	0.0	1.4207
1973	0.0	1.8104	1.9385	1.6978	1.8533	0.0	1.5349
1974	0.0	2.4205	2.6262	1.9018	2.4737	0.0	2.3664
1975	0.0	2.5502	2.6537	2.4529	2.5650	0.0	2.3890
1976	0.0	2.5350	2.6600	2.5718	2.6845	0.0	2.5082
1977	0.0	3.2074	2.7700	2.6737	3.0139	0.0	2.7562
1978	0.0	0.0	2.9591	0.0	3.3321	0.0	2.9367
1979	0.0	6.6109	4.9678	0.0	6.2633	0.0	4.2651
1980	0.0	6.8421	0.0	0.0	6.7870	0.0	6.0633

TABLE C-24 RESIDUAL FUEL PRICES: COMMERCIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.4559	0.5319	0.4558	0.4076	0.4520	0.3842	0.4427	0.6684	0.5164
1971	0.5953	0.6717	0.5921	0.5969	0.5839	0.5302	0.6197	0.8718	0.6734
1972	0.6465	0.7140	0.6294	0.6101	0.6285	0.5710	0.6868	0.9427	0.7197
1973	0.7774	0.8395	0.7495	0.7487	0.7504	0.6996	0.8521	1.1275	0.8589
1974	1.5452	1.7664	1.5582	1.3500	1.6867	1.5923	2.0689	2.3405	1.9258
1975	1.8900	1.7810	1.6672	1.9095	1.6932	1.4622	2.1681	2.6245	1.9079
1976	1.9376	1.7527	1.6804	1.9376	1.6112	1.8251	2.1033	2.5396	1.8363
1977	1.9472	2.0291	1.8685	2.0209	1.9324	1.8898	2.3848	2.5438	2.2258
1978	1.9252	1.9878	1.8578	2.1661	1.8016	1.9734	2.3636	3.2322	2.1002
1979	2.6802	2.6593	2.5539	2.5962	2.5145	2.9180	3.7999	4.7001	3.2297
1980	4.0592	4.0060	3.7626	4.1195	3.8429	3.1287	5.3840	6.5175	4.8979

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.3360	0.3641	0.5328	0.5341	0.3904	0.5702	0.4405	0.4323	0.3996
1971	0.5107	0.5221	0.6945	0.6913	0.5595	0.7222	0.6051	0.5904	0.6132
1972	0.5353	0.5705	0.7364	0.7434	0.6249	0.7973	0.6531	0.6271	0.6410
1973	0.6718	0.7117	0.8757	0.8863	0.7840	0.9516	0.7982	0.7608	0.8045
1974	1.4720	1.7973	1.7436	1.7924	2.1551	2.1665	1.8688	1.5468	1.7208
1975	1.7908	1.7290	1.9599	1.9583	2.0510	2.1828	1.8997	1.8802	2.1600
1976	1.7382	1.7624	2.0148	2.1403	1.6852	2.1000	1.8187	1.8685	2.0936
1977	2.0521	2.1324	2.1422	2.1783	2.1684	2.3487	2.1111	2.0619	2.3979
1978	1.8786	1.9284	2.2175	2.2255	2.4278	2.3315	2.2464	1.9075	2.3652
1979	2.8342	2.7002	3.2594	2.8376	2.7834	3.2691	3.0752	2.5520	3.1759
1980	3.8290	4.0142	4.4360	4.0155	4.6492	4.3342	3.8660	3.8221	4.4286

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.5745	0.4871	0.4695	0.3619	0.4840	0.4536	0.4629	0.4196	0.4871
1971	0.6848	0.6929	0.6360	0.5351	0.6636	0.6246	0.6490	0.5579	0.5156
1972	0.7469	0.7125	0.6995	0.5829	0.6945	0.6515	0.6654	0.6094	0.7125
1973	0.8661	0.8658	0.8558	0.7334	0.8383	0.7871	0.8040	0.7398	0.8658
1974	1.8640	2.0364	2.0299	1.8688	1.7615	1.7046	1.6346	1.7257	1.9778
1975	1.7583	2.1014	2.1275	1.8558	2.0234	1.7778	1.8607	1.8054	2.1005
1976	1.7833	2.0132	2.0084	1.8154	1.8701	1.7608	1.8460	1.6691	2.0318
1977	2.0406	2.3012	2.3569	2.2258	2.2438	2.0996	2.2110	1.9881	2.3271
1978	1.7598	2.1837	2.1998	2.0858	2.1757	2.1243	2.1147	1.8497	2.2051
1979	2.8164	3.3889	3.6604	3.1569	2.6026	2.8918	2.7863	2.5703	3.1211
1980	3.8011	4.3684	5.2566	4.4474	3.6246	3.3813	3.8820	3.7274	3.8081

TABLE C-24 RESIDUAL FUEL PRICES: COMMERCIAL SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.4144	0.9622	0.4227	0.4552	0.5229	0.4871	0.4871	0.4834	0.4946
1971	0.5921	1.0702	0.6620	0.6327	0.6961	0.6526	0.8133	0.6652	0.6750
1972	0.6369	1.0896	0.6219	0.6606	0.7601	0.7125	0.7125	0.7083	0.7301
1973	0.7883	1.1799	0.7584	0.8011	0.9210	0.8658	0.8658	0.8613	0.8898
1974	1.8217	1.6737	1.1694	1.7387	2.1079	1.9778	1.9778	1.8884	2.0478
1975	1.9648	1.9795	1.7810	1.8949	2.1941	2.1005	2.1005	2.0559	2.2153
1976	1.9586	1.8428	1.9505	1.8042	2.1419	2.0318	2.0318	2.0229	2.0020
1977	2.2815	1.9750	2.3438	2.2160	2.4471	2.3271	2.3271	2.3258	2.3782
1978	2.1356	2.0296	2.0505	2.0906	2.3507	2.2051	2.2051	2.2961	2.3876
1979	2.9925	2.8177	2.5347	3.0924	3.7313	3.7481	2.7834	3.1333	3.0605
1980	4.5522	3.4024	4.0556	4.3955	5.6829	4.6833	4.6833	5.0716	3.8664

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.4871	0.4024	0.5225	0.4201	0.3286	0.6360	0.3415	0.2986	0.5908
1971	0.5953	0.5514	0.6799	0.6051	0.5189	0.7970	0.5026	0.4831	0.6815
1972	0.7125	0.6002	0.7478	0.6607	0.5468	0.8259	0.5660	0.4958	0.7602
1973	0.8658	0.7357	0.9010	0.8237	0.6954	0.9564	0.7187	0.6310	0.8775
1974	1.9778	1.6298	2.1177	1.9664	1.6151	1.7517	1.8005	1.3386	1.9664
1975	2.1005	1.8900	2.1145	2.0966	1.8575	2.0624	1.9355	1.5468	1.8217
1976	2.0318	1.7833	1.9955	2.0631	1.8508	1.9167	1.9312	1.8283	1.7704
1977	2.3271	1.9832	2.3307	2.3372	2.2110	2.2045	2.1111	1.9734	2.1029
1978	2.2051	1.9445	2.2656	2.3764	2.0312	2.1613	2.1083	1.9686	1.5415
1979	2.6922	2.5546	3.3352	3.4172	2.7375	2.5232	2.8046	3.0089	2.6263
1980	5.1395	4.0598	5.2862	5.2596	4.2848	3.6099	4.0036	3.5827	3.2999

YEAR	VA	VT	WA	WI	WV	WY	US
1970	0.2782	0.4870	0.4160	0.5125	0.5232	0.4871	0.4992
1971	0.4603	0.6587	0.5514	0.6913	0.6539	0.6526	0.6642
1972	0.5030	0.7115	0.6004	0.7280	0.7266	0.7125	0.7067
1973	0.6558	0.8643	0.7273	0.8749	0.8659	0.8658	0.8662
1974	1.6883	2.0331	1.5631	1.7859	2.0787	1.9778	1.9292
1975	1.8493	1.9713	1.8217	2.1079	1.9648	2.1005	2.0329
1976	1.8251	1.9859	1.7093	1.9891	1.7881	2.0318	1.9796
1977	2.1569	2.3471	1.8587	2.2848	2.1160	2.3271	2.2680
1978	2.0424	2.2672	1.8706	2.2255	2.1131	2.2051	2.2212
1979	2.9299	3.1851	2.5787	2.8058	2.4444	3.1211	3.1012
1980	4.2847	4.7910	3.8826	4.0482	4.5319	3.8081	4.5713

TABLE C-25 RESIDUAL FUEL PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.4458	0.5201	0.4457	0.3986	0.4420	0.3757	0.4329	0.6536	0.5050
1971	0.5821	0.6569	0.5790	0.5837	0.5710	0.5185	0.6060	0.8526	0.6585
1972	0.6322	0.6982	0.6155	0.5966	0.6146	0.5584	0.6716	0.9219	0.7038
1973	0.7603	0.8210	0.7329	0.7322	0.7339	0.6841	0.8333	1.1026	0.8399
1974	1.5111	1.7274	1.5238	1.3202	1.6494	1.5572	2.0232	2.2888	1.8833
1975	1.8483	1.7417	1.6304	1.8673	1.6558	1.4299	2.1202	2.5666	1.8658
1976	1.9166	1.7337	1.6622	1.9166	1.5938	1.8053	2.0805	2.5121	1.8165
1977	1.8896	1.9691	1.8133	1.9612	1.8753	1.8339	2.3143	2.4686	2.1600
1978	1.9071	1.9691	1.8403	2.1457	1.7846	1.9548	2.3413	3.2018	2.0805
1979	2.4076	2.3888	2.2942	2.3321	2.2587	2.6212	3.4134	4.2220	2.9012
1980 (a)	3.6566	3.6087	3.3894	3.7109	3.4618	2.8184	4.8500	5.8710	4.4121

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.3285	0.3560	0.5210	0.5224	0.3818	0.5576	0.4308	0.4227	0.3908
1971	0.4994	0.5106	0.6792	0.6760	0.5472	0.7062	0.5917	0.5774	0.5997
1972	0.5235	0.5579	0.7201	0.7270	0.6111	0.7797	0.6387	0.6133	0.6268
1973	0.6570	0.6959	0.8563	0.8668	0.7667	0.9306	0.7806	0.7440	0.7868
1974	1.4395	1.7576	1.7051	1.7528	2.1075	2.1187	1.8276	1.5126	1.6828
1975	1.7512	1.6908	1.9166	1.9151	2.0057	2.1346	1.8578	1.8387	2.1123
1976	1.7194	1.7433	1.9930	2.1171	1.6669	2.0773	1.7990	1.8483	2.0709
1977	1.9914	2.0694	2.0789	2.1139	2.1043	2.2793	2.0487	2.0009	2.3270
1978	1.8610	1.9103	2.1966	2.2045	2.4050	2.3095	2.2252	1.8896	2.3429
1979	2.5459	2.4255	2.9279	2.5490	2.5003	2.9366	2.7624	2.2925	2.8528
1980 (a)	3.4493	3.6161	3.9960	3.6173	4.1881	3.9043	3.4826	3.4431	3.9894

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.5618	0.4763	0.4591	0.3539	0.4733	0.4436	0.4527	0.4104	0.4763
1971	0.6696	0.6776	0.6219	0.5233	0.6490	0.6108	0.6346	0.5456	0.5042
1972	0.7304	0.6967	0.6841	0.5700	0.6792	0.6371	0.6507	0.5959	0.6967
1973	0.8469	0.8466	0.8369	0.7172	0.8198	0.7697	0.7862	0.7235	0.8466
1974	1.8228	1.9914	1.9851	1.8276	1.7226	1.6669	1.5985	1.6876	1.9341
1975	1.7194	2.0550	2.0805	1.8149	1.9787	1.7385	1.8196	1.7655	2.0541
1976	1.7640	1.9914	1.9866	1.7958	1.8498	1.7417	1.8260	1.6510	2.0098
1977	1.9803	2.2332	2.2873	2.1600	2.1775	2.0375	2.1457	1.9294	2.2583
1978	1.7433	2.1632	2.1791	2.0662	2.1552	2.1043	2.0948	1.8323	2.1844
1979	2.5300	3.0442	3.2881	2.8358	2.3379	2.5976	2.5028	2.3089	2.8037
1980 (a)	3.4241	3.9352	4.7352	4.0063	3.2651	3.0459	3.4970	3.3577	3.4304

(a) Data for 1980 are provisional estimates, and will be updated when data from Annual Survey of Manufactures become available.

TABLE C-25 RESIDUAL FUEL PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.4053	0.9410	0.4134	0.4452	0.5114	0.4763	0.4763	0.4728	0.4837
1971	0.5790	1.0466	0.6474	0.6187	0.6808	0.6382	0.7953	0.6506	0.6601
1972	0.6228	1.0656	0.6082	0.6460	0.7433	0.6967	0.6967	0.6927	0.7139
1973	0.7709	1.1539	0.7417	0.7834	0.9006	0.8466	0.8466	0.8423	0.8702
1974	1.7815	1.6367	1.1436	1.7003	2.0614	1.9341	1.9341	1.8467	2.0025
1975	1.9214	1.9357	1.7417	1.8530	2.1457	2.0541	2.0541	2.0105	2.1664
1976	1.9373	1.8228	1.9294	1.7846	2.1187	2.0098	2.0098	2.0009	1.9803
1977	2.2141	1.9166	2.2745	2.1505	2.3747	2.2583	2.2583	2.2570	2.3079
1978	2.1155	2.0105	2.0312	2.0709	2.3286	2.1844	2.1844	2.2745	2.3652
1979 (a)	2.6881	2.5311	2.2769	2.7779	3.3518	3.3668	2.5003	2.8146	2.7492
1980	4.1007	3.0649	3.6534	3.9596	5.1193	4.2188	4.2188	4.5686	3.4829

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.4763	0.3936	0.5110	0.4108	0.3213	0.6220	0.3340	0.2920	0.5777
1971	0.5821	0.5392	0.6649	0.5917	0.5074	0.7794	0.4915	0.4724	0.6665
1972	0.6967	0.5870	0.7313	0.6461	0.5347	0.8077	0.5535	0.4848	0.7434
1973	0.8466	0.7195	0.8812	0.8055	0.6801	0.9353	0.7028	0.6170	0.8582
1974	1.9341	1.5938	2.0709	1.9230	1.5794	1.7131	1.7608	1.3090	1.9230
1975	2.0541	1.8483	2.0678	2.0503	1.8165	1.8169	1.8928	1.5126	1.7815
1976	2.0098	1.7640	1.9739	2.0407	1.8308	1.8960	1.9103	1.8085	1.7512
1977	2.2583	1.9246	2.2618	2.2682	2.1457	2.1393	2.0487	1.9151	2.0407
1978	2.1844	1.9262	2.2443	2.3541	2.0121	2.1409	2.0884	1.9501	1.5270
1979 (a)	2.4184	2.2948	2.9960	3.0696	2.4590	2.2666	2.5193	2.7029	2.3591
1980	4.6298	3.6572	4.7619	4.7380	3.8598	3.2519	3.6066	3.2274	2.9726

YEAR	VA	VT	WA	WI	WV	WY	US
1970	0.2720	0.4762	0.4068	0.5012	0.5116	0.4763	0.4588
1971	0.4501	0.6442	0.5392	0.6760	0.6394	0.6382	0.6082
1972	0.4918	0.6958	0.5871	0.7119	0.7106	0.6967	0.6556
1973	0.6414	0.8452	0.7112	0.8556	0.8468	0.8466	0.7963
1974	1.6510	1.9882	1.5286	1.7465	2.0328	1.9341	1.8185
1975	1.8085	1.9278	1.7815	2.0614	1.9214	2.0541	1.9016
1976	1.8053	1.9644	1.6908	1.9676	1.7687	2.0098	1.8776
1977	2.0932	2.2777	1.8037	2.2173	2.0534	2.2583	2.1268
1978	2.0232	2.2459	1.8530	2.2045	2.0932	2.1844	2.0883
1979 (a)	2.6319	2.8611	2.3164	2.5204	2.1957	2.8037	2.7711
1980	3.8598	4.3159	3.4975	3.6467	4.0825	3.4304	3.8955

(a) Data for 1980 are provisional estimates, and will be updated when data from Annual Survey of Manufactures become available.

TABLE C-27 RESIDUAL FUEL PRICES: TRANSPORTATION SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.3691	0.4307	0.0	0.0	0.3660	0.3842	0.3585	0.0	0.4181
1971	0.4820	0.5439	0.0	0.0	0.4728	0.5302	0.5018	0.0	0.5453
1972	0.5235	0.5782	0.0	0.0	0.5089	0.5710	0.5561	0.0	0.5828
1973	0.6295	0.6798	0.0	0.0	0.6076	0.6996	0.6900	0.0	0.6955
1974	1.2512	1.4303	0.0	0.0	1.3658	1.5923	1.6753	0.0	1.5594
1975	1.5290	1.4409	0.0	0.0	1.3698	1.4622	1.7540	0.0	1.5435
1976	1.6214	1.4667	0.0	0.0	1.3483	1.8251	1.7600	0.0	1.5367
1977	1.5862	1.6529	0.0	0.0	1.5742	1.8898	1.9427	0.0	1.8132
1978	1.4939	1.5425	0.0	0.0	1.3980	1.9734	1.8341	0.0	1.6297
1979	2.2187	2.2014	0.0	0.0	2.0816	2.9180	3.1456	0.0	2.6736
1980	3.0408	3.0010	0.0	0.0	2.8789	3.1287	4.0333	0.0	3.6692

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.2721	0.2948	0.4314	0.5341	0.0	0.5063	0.3567	0.4323	0.0
1971	0.4136	0.4228	0.5624	0.6913	0.0	0.6412	0.4899	0.5904	0.0
1972	0.4334	0.4620	0.5963	0.7434	0.0	0.7078	0.5289	0.6271	0.0
1973	0.5440	0.5763	0.7091	0.8863	0.0	0.8449	0.6463	0.7608	0.0
1974	1.1919	1.4553	1.4119	1.7924	0.0	1.9235	1.5133	1.5468	0.0
1975	1.4488	1.3988	1.5856	1.9583	0.0	1.9370	1.5369	1.8802	0.0
1976	1.4546	1.4748	1.6860	2.1403	0.0	1.8980	1.5219	1.8685	0.0
1977	1.6716	1.7371	1.7451	2.1783	0.0	2.0920	1.7197	2.0619	0.0
1978	1.4578	1.4964	1.7207	2.2255	0.0	2.0235	1.7431	1.9075	0.0
1979	2.3462	2.2353	2.6982	2.8376	0.0	3.2691	2.5457	2.5520	0.0
1980	2.8684	3.0072	3.3231	4.0155	0.0	4.3342	2.8962	3.8221	0.0

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.4652	0.3944	0.3802	0.2930	0.3919	0.3673	0.4629	0.3398	0.0
1971	0.5545	0.5611	0.5150	0.4333	0.5373	0.5058	0.6490	0.4517	0.0
1972	0.6048	0.5769	0.5664	0.4720	0.5624	0.5275	0.6654	0.4935	0.0
1973	0.7013	0.7010	0.6930	0.5938	0.6788	0.6373	0.8040	0.5990	0.0
1974	1.5093	1.6489	1.6437	1.5133	1.4264	1.3803	1.6346	1.3974	0.0
1975	1.4225	1.7001	1.7212	1.5014	1.6369	1.4382	1.8607	1.4606	0.0
1976	1.4923	1.6847	1.6806	1.5192	1.5649	1.4734	1.8460	1.3967	0.0
1977	1.6623	1.8746	1.9200	1.8132	1.8278	1.7104	2.2110	1.6196	0.0
1978	1.3656	1.6945	1.7070	1.6185	1.6883	1.6484	2.1147	1.4354	0.0
1979	2.3315	2.8054	3.0302	2.6134	2.1545	2.3939	2.7863	2.1277	0.0
1980	2.8475	3.2725	3.9379	3.3317	2.7153	2.5330	3.8820	2.7923	0.0

TABLE C-27 RESIDUAL FUEL PRICES: TRANSPORTATION SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.3356	0.0	0.4227	0.0	0.4234	0.0	0.0	0.3915	0.4005
1971	0.4794	0.0	0.6620	0.0	0.5637	0.0	0.0	0.5387	0.5466
1972	0.5157	0.0	0.6219	0.0	0.6155	0.0	0.0	0.5736	0.5912
1973	0.6383	0.0	0.7584	0.0	0.7457	0.0	0.0	0.6974	0.7205
1974	1.4751	0.0	1.1694	0.0	1.7069	0.0	0.0	1.5291	1.6582
1975	1.5896	0.0	1.7810	0.0	1.7751	0.0	0.0	1.6632	1.7922
1976	1.6389	0.0	1.9505	0.0	1.7923	0.0	0.0	1.6927	1.6753
1977	1.8586	0.0	2.3438	0.0	1.9934	0.0	0.0	1.8946	1.9373
1978	1.6571	0.0	2.0505	0.0	1.8241	0.0	0.0	1.7817	1.8527
1979	2.4773	0.0	2.5347	0.0	3.0889	0.0	0.0	2.5938	2.5336
1980	3.4102	0.0	4.0556	0.0	4.2572	0.0	0.0	3.7993	2.8964
YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.0	0.3259	0.4231	0.3401	0.2661	0.0	0.0	0.2418	0.0
1971	0.0	0.4465	0.5505	0.4899	0.4201	0.0	0.0	0.3912	0.0
1972	0.0	0.4860	0.6055	0.5350	0.4427	0.0	0.0	0.4015	0.0
1973	0.0	0.5957	0.7296	0.6670	0.5631	0.0	0.0	0.5109	0.0
1974	0.0	1.3197	1.7148	1.5923	1.3078	0.0	0.0	1.0839	0.0
1975	0.0	1.5290	1.7106	1.6961	1.5027	0.0	0.0	1.2514	0.0
1976	0.0	1.4923	1.6699	1.7264	1.5488	0.0	0.0	1.5299	0.0
1977	0.0	1.6156	1.8986	1.9039	1.8011	0.0	0.0	1.6075	0.0
1978	0.0	1.5089	1.7581	1.8440	1.5761	0.0	0.0	1.5275	0.0
1979	0.0	2.1148	2.7610	2.8288	2.2662	0.0	0.0	2.4909	0.0
1980	0.0	3.0413	3.9600	3.9401	3.2098	0.0	0.0	2.6839	0.0
YEAR	VA	VT	WA	WI	WV	WY	US		
1970	0.2252	0.0	0.3369	0.4150	0.0	0.4871	0.3581		
1971	0.3727	0.0	0.4465	0.5597	0.0	0.6526	0.4891		
1972	0.4073	0.0	0.4862	0.5895	0.0	0.7125	0.5256		
1973	0.5311	0.0	0.5889	0.7084	0.0	0.8658	0.6378		
1974	1.3671	0.0	1.2657	1.4461	0.0	1.9778	1.4111		
1975	1.4961	0.0	1.4738	1.7054	0.0	2.1005	1.4525		
1976	1.5272	0.0	1.4304	1.6645	0.0	2.0318	1.5206		
1977	1.7571	0.0	1.5141	1.8612	0.0	2.3271	1.6828		
1978	1.5849	0.0	1.4515	1.7269	0.0	2.2051	1.5106		
1979	2.4254	0.0	2.1347	2.3227	0.0	3.1211	2.3749		
1980	3.2098	0.0	2.9086	3.0327	0.0	3.8081	3.0215		

TABLE C-26 RESIDUAL FUEL PRICES: ELECTRIC UTILITY SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	0.0	0.0	0.4186	0.6144	0.3977	0.3573	0.3734	0.4622	0.4590
1971	0.0	0.0	0.5916	0.5760	0.6229	0.5215	0.5337	0.6707	0.6660
1972	0.0	0.0	0.6383	0.8693	0.7842	0.5224	0.6493	0.6696	0.6650
1973	0.0	0.0	0.7122	1.0184	0.9408	0.8360	0.8527	0.7655	0.8078
1974	0.0	0.0	1.6415	1.7767	2.0087	1.8215	2.0589	1.9989	2.0331
1975	0.0	0.0	1.8583	2.0853	2.4965	1.9378	2.0211	2.0098	1.9662
1976	0.0	0.0	1.9155	2.2455	2.3385	1.6388	1.9357	1.9140	1.9103
1977	0.0	0.0	2.0009	2.2814	2.3715	1.9185	2.2384	2.2336	2.1951
1978	0.0	0.0	1.9248	2.2315	2.5801	1.8185	2.1237	2.1093	2.0537
1979	0.0	0.0	2.5011	2.8653	3.1435	2.4763	3.3197	3.2902	3.2650
1980	0.0	0.0	3.3442	4.4365	5.0285	4.3838	4.6986	4.4940	4.2705

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	0.3253	0.3050	0.3868	0.5551	0.0	0.5961	0.0	0.4957	0.0
1971	0.4202	0.5253	0.4644	0.6199	0.0	0.6016	0.0	0.6425	0.0
1972	0.5055	0.4892	0.5244	0.6192	0.0	0.6486	0.0	0.6248	0.0
1973	0.6808	0.5631	0.6392	0.8280	0.0	0.6738	0.0	0.7998	0.0
1974	1.7987	1.5674	0.7515	0.0	0.0	1.2419	0.0	1.5679	0.0
1975	1.8545	1.7378	1.5033	0.0	0.0	1.3500	0.0	1.6039	0.0
1976	1.8144	1.7548	1.5620	0.0	0.0	2.0374	0.0	1.6281	0.0
1977	2.1211	2.0492	1.8586	0.0	0.0	2.4450	0.0	1.9963	0.0
1978	1.9781	1.9400	2.1980	0.0	0.0	2.5306	0.0	1.8118	0.0
1979	2.8822	2.7848	2.5517	0.0	0.0	3.8222	0.0	2.1060	0.0
1980	3.7174	3.4711	3.7370	0.0	0.0	5.6000	0.0	4.5736	0.0

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	0.4942	0.3725	0.4324	0.3406	0.6248	0.7311	0.5424	0.4720	0.3257
1971	0.5151	0.6299	0.6275	0.3863	0.7284	0.8005	0.6452	0.6984	0.1636
1972	0.6929	0.6664	0.6265	0.3725	0.7647	0.8005	0.5504	0.6869	0.5373
1973	0.7377	0.7246	0.7262	0.3889	0.7797	0.8759	0.7684	0.8800	1.0126
1974	1.6559	1.9476	1.8422	1.6167	1.7263	1.8210	1.7678	1.6164	1.1720
1975	1.7301	1.9273	1.8514	1.7757	1.9690	1.9508	1.7596	1.6843	0.0
1976	1.7316	1.8113	1.8013	1.7584	2.1664	1.7475	1.7222	1.6955	0.0
1977	1.8911	2.1168	2.1365	2.0496	2.6116	2.0471	1.9811	1.7897	2.1440
1978	1.8201	1.8952	1.9887	2.0630	2.6264	2.0409	1.9779	1.7622	0.0
1979	2.7002	2.7906	3.0156	2.8567	3.1566	2.5511	2.4083	2.1804	0.0
1980	3.5756	3.8370	4.2112	4.3813	4.1034	4.4381	3.4522	3.0280	0.0

TABLE C-26 RESIDUAL FUEL PRICES: ELECTRIC UTILITY SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	0.7052	0.0	0.4850	0.3391	0.4486	0.2501	0.6006	0.4144	0.6811
1971	0.7598	0.0	0.5725	0.3422	0.7010	0.4606	0.7392	0.5299	0.7215
1972	0.5657	0.0	0.7319	0.3969	0.7221	0.6392	0.8126	0.6137	0.7408
1973	0.6035	0.0	0.6501	0.5845	0.8851	0.7711	1.1483	0.7981	0.8543
1974	1.7701	0.0	1.6633	1.9196	2.1319	1.5944	1.9546	2.0268	2.2510
1975	1.7750	0.0	1.7339	1.8394	2.1167	1.7075	1.9821	1.9419	2.1820
1976	0.0	0.0	1.7504	1.7411	2.0243	1.8377	2.0109	1.9062	1.8797
1977	0.0	0.0	1.7899	2.0566	2.3195	2.0423	2.1450	2.1875	2.3862
1978	1.9094	0.0	1.6755	1.9265	2.2009	2.1868	2.0242	2.0328	2.4296
1979	0.0	0.0	2.2448	2.6906	3.3712	3.1909	2.6733	2.9605	2.9293
1980	0.0	0.0	3.2135	3.8029	4.7901	4.3474	3.5843	4.2492	3.5794
YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	0.4706	0.0	0.4652	0.4328	0.4557	0.6940	0.0	0.5298	0.2524
1971	0.4344	0.0	0.7121	0.6577	0.6809	0.7870	0.0	0.5613	0.2594
1972	0.5448	0.0	0.7228	0.6566	0.7138	0.7760	0.0	0.7650	0.2684
1973	0.7039	0.0	0.8648	0.7064	0.6125	0.7930	0.0	0.8485	0.6476
1974	1.6390	0.0	2.0028	1.9301	1.1329	1.6624	0.0	1.5512	1.6331
1975	1.4612	0.0	2.0717	1.8384	1.1427	2.1900	0.0	1.8825	1.5901
1976	1.5253	0.0	1.9878	1.8406	1.4187	1.6916	0.0	1.7690	1.4836
1977	1.9620	0.0	2.3004	2.0668	1.7307	1.8347	0.0	1.9494	1.9765
1978	0.0	0.0	2.2057	2.0415	1.8951	2.0242	0.0	1.8777	1.6867
1979	2.2336	0.0	3.2510	3.1874	2.6017	2.2181	0.0	2.3387	2.6432
1980	0.0	0.0	4.5171	3.9710	3.4407	3.0682	0.0	3.8061	3.6933
YEAR	VA	VT	WA	WI	WV	WY	US		
1970	0.3109	0.0	0.0	0.5559	0.0	0.0	0.4015		
1971	0.3937	0.0	0.0	0.7238	0.0	0.0	0.5645		
1972	0.4560	0.0	0.3156	0.6638	0.0	0.0	0.6292		
1973	0.5467	0.0	0.7056	0.7898	0.0	0.0	0.7816		
1974	1.6452	0.0	0.7070	1.5108	0.0	0.0	1.8820		
1975	1.8618	0.0	0.0	1.6512	0.0	0.0	1.9991		
1976	1.7865	0.0	0.0	1.6861	0.0	0.0	1.9457		
1977	2.1406	0.0	0.0	2.0046	0.0	0.0	2.1929		
1978	1.9796	0.0	0.0	2.0338	2.7650	0.0	2.1200		
1979	2.9506	0.0	2.6075	2.4565	0.0	0.0	2.9849		
1980	3.9371	0.0	3.5818	4.2795	0.0	0.0	4.2638		

TABLE C-28 LIQUEFIED PETROLEUM GAS PRICES: RESIDENTIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	3.1922	2.3712	1.9910	1.9104	2.3482	1.7952	2.8321	2.3712	2.3712
1971	3.1390	2.1960	1.9215	2.4793	2.5693	1.7469	2.5550	2.7450	2.2235
1972	3.2900	2.1960	1.9764	2.7867	2.7450	1.8194	2.7889	2.4461	2.5254
1973	5.5300	4.0688	3.2671	3.5252	3.7284	3.3550	3.6459	3.6941	3.3220
1974	5.6984	4.0082	3.0749	4.2582	4.3928	2.7949	4.1841	3.6917	3.7888
1975	6.1336	4.3196	3.5142	5.5459	4.4477	3.3275	5.0078	4.5911	4.7276
1976	6.6956	4.1732	4.3928	5.6392	4.6179	3.8437	5.3318	4.7328	4.8713
1977	7.5002	4.7725	4.5898	7.1867	5.4640	4.0700	6.2600	4.7318	4.6100
1978	7.2819	5.0133	3.7700	5.5375	5.0660	4.3860	6.4067	5.6032	6.5900
1979	9.9742	6.0050	6.8200	6.7975	6.7300	6.0450	7.2075	8.4700	6.1100
1980	12.2300	7.7500	8.7700	8.4600	8.1500	7.3200	9.2100	9.9700	8.5300

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	2.4288	2.4634	3.2490	1.8758	2.3367	2.0371	2.1178	1.5763	2.4058
1971	2.9646	2.3750	4.3920	1.7491	2.7450	1.9391	2.0170	1.4691	2.2476
1972	3.1897	2.2904	3.3486	1.9259	2.8768	2.0598	2.1411	1.5614	2.4145
1973	4.5062	3.6899	5.6284	3.4401	5.8369	3.4159	3.8327	3.0508	3.9791
1974	5.4544	3.8656	5.7997	3.4776	3.1298	3.7078	3.2992	3.0749	4.1127
1975	6.3147	4.4001	6.2427	3.5449	4.1731	3.7192	3.9233	3.2960	4.1621
1976	6.0767	4.6674	6.8147	3.9755	4.3049	4.1810	4.1713	3.5142	4.7085
1977	7.0667	4.7800	7.1400	4.5167	5.2589	4.8109	4.6556	4.1450	5.0820
1978	7.0100	4.7850	7.2700	4.4980	5.3750	4.4983	4.6843	3.8950	5.2200
1979	7.7750	5.2900	9.5900	6.2225	6.7000	6.3671	6.3400	6.5500	5.8825
1980	10.3400	7.6400	12.3092	6.8600	7.8500	7.0700	7.3700	6.8300	8.3100

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	1.9680	3.0049	2.3712	2.6017	2.3136	2.0256	1.9680	2.2330	2.2215
1971	2.1411	2.9899	2.5990	2.1411	2.0039	1.9237	1.8995	2.1137	2.3607
1972	2.5474	3.0722	2.4705	3.8430	2.1535	2.0414	1.9520	2.1938	2.3003
1973	3.9425	4.4738	3.9531	4.1269	3.7570	3.6927	3.3370	3.7339	3.7338
1974	5.4910	4.6399	3.4337	5.0975	3.7476	3.4950	2.9754	3.8437	4.1621
1975	4.3928	4.9203	4.6142	4.7821	4.2939	4.2233	3.2631	4.0963	3.8766
1976	6.0401	5.2162	4.8320	4.8666	4.3415	4.6622	3.7758	4.3983	4.2994
1977	4.7275	5.4740	4.5267	5.6913	5.0471	4.7200	4.2567	4.8050	4.3850
1978	4.5550	5.8100	5.4467	6.0900	4.5317	4.7850	4.0320	4.3900	4.7150
1979	5.9500	8.3420	6.8000	9.0600	7.3171	5.9600	6.5300	6.1150	5.8000
1980	8.5400	8.9900	9.8100	10.0400	8.0800	7.3400	7.0600	8.3500	7.2100

TABLE C-28 LIQUEFIED PETROLEUM GAS PRICES: RESIDENTIAL SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	2.3712	2.0947	1.7261	2.7169	2.4864	1.7145	2.2099	2.7169	2.1408
1971	2.1455	2.0039	1.6831	2.5391	2.9179	1.5592	3.5868	1.9695	2.1118
1972	2.3546	2.0313	1.7897	2.6169	3.0195	1.6470	3.3672	2.6718	2.0377
1973	3.6711	3.5792	3.1043	4.2830	4.6856	3.2214	4.0911	3.7338	3.6004
1974	5.9083	3.5581	3.3275	4.7223	5.3262	3.4262	4.3928	4.3427	4.1319
1975	4.1359	3.5142	3.5697	4.7039	4.9419	4.1621	4.7692	4.4779	4.5259
1976	4.8006	4.1292	4.1819	4.4416	4.4751	4.2646	4.6838	4.9053	4.4772
1977	5.2150	4.7150	4.5967	5.5900	5.8650	4.5733	5.9050	5.7540	5.2133
1978	5.3500	4.6100	3.8657	5.5675	6.8050	5.0400	5.5400	5.7717	4.8944
1979	7.0050	6.2200	6.1700	7.8567	7.5867	5.2300	7.1800	7.2600	6.1560
1980	7.6700	7.4800	6.8200	9.2200	9.8300	7.1900	9.2800	8.2400	7.6600

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	1.6569	2.3482	2.4288	2.6017	2.5441	1.9795	2.3136	1.6800	2.2560
1971	1.6278	2.6242	2.3387	2.7816	2.3021	1.8611	2.0838	1.7156	1.8117
1972	1.5647	2.6627	2.9019	2.2692	2.4952	1.8922	2.2808	1.6958	2.7340
1973	2.7762	3.6899	3.4795	3.7338	3.6515	3.3110	3.8656	3.4690	4.8979
1974	3.2155	4.2353	4.1020	3.7338	4.0139	3.1683	3.5051	3.2232	3.5461
1975	3.1287	5.2713	4.4239	5.4910	4.2830	3.4126	3.8398	3.5005	4.9748
1976	4.1050	4.4449	5.3067	5.6557	5.3065	3.5903	4.1319	3.9535	4.1259
1977	4.2425	5.9300	5.6883	5.5450	5.2150	4.4125	4.9550	4.6500	5.0000
1978	4.3900	5.3300	5.4600	5.3250	5.1433	4.0725	4.6780	4.3200	5.0227
1979	5.5700	7.4200	7.4483	7.6400	7.0967	6.1025	6.3983	5.7700	6.7400
1980	7.2900	9.0000	9.0000	8.5700	7.4700	6.8500	7.6500	7.3900	8.6800

YEAR	VA	VT	WA	WI	WV	WY	US
1970	2.3597	2.8321	2.3482	2.1639	2.3367	2.0832	2.0878
1971	2.3351	2.5803	3.3035	1.9435	2.3607	1.8995	2.0530
1972	2.3424	2.5071	2.9756	2.1870	2.5620	1.9905	2.1518
1973	3.8071	3.6240	4.5758	3.6680	4.1099	2.8680	3.6167
1974	3.8525	5.9302	4.0633	3.6585	3.9151	3.3275	3.7269
1975	4.4314	4.7222	5.7326	4.1449	4.9693	4.2024	4.0115
1976	4.6335	4.9419	4.1731	4.2994	4.6838	4.2390	4.3791
1977	5.0586	6.0100	5.9300	4.9656	5.3450	4.4033	4.9053
1978	4.7729	5.4900	6.2067	4.5211	5.6000	4.2750	4.7625
1979	6.5586	7.8196	7.5300	6.8375	6.7050	6.3833	6.5234
1980	8.0700	9.2800	8.1200	7.6900	8.9400	7.2500	7.7903

TABLE C-29 LIQUEFIED PETROLEUM GAS PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	AK	AL	AR	AZ	CA	CO	CT	DC	DE
1970	1.3200	1.6224	1.2435	1.0626	1.4491	1.2498	1.4629	1.4253	1.4427
1971	1.3728	1.7157	1.3303	1.1406	1.5497	1.3003	1.4190	1.4676	1.4855
1972	1.3784	1.7212	1.3603	1.1443	1.5955	1.3527	1.4369	1.4803	1.4983
1973	1.4717	1.8185	1.4507	1.3017	1.7247	1.5518	1.4221	1.5896	1.6091
1974	2.5359	3.1049	2.7424	2.3070	2.6394	2.8246	2.3916	2.7918	2.8259
1975	2.7462	3.1631	2.6674	2.7023	2.9399	2.7382	2.9762	3.3669	3.6689
1976	3.0339	3.4419	2.8857	3.0144	3.1918	3.0349	3.3857	3.6286	3.8361
1977	3.4622	4.0480	3.3122	3.4791	3.8739	3.5767	3.6357	3.8493	3.8963
1978	3.6201	3.7765	3.4240	4.5800	4.1473	3.8428	3.8589	4.8422	4.9452
1979	3.9501	4.3917	3.7960	3.6670	4.1806	3.9854	4.1452	3.8987	3.8987
1980 (a)	5.4612	5.8033	5.5333	6.1653	5.8437	5.8938	5.7633	5.6638	5.7533

YEAR	FL	GA	HI	IA	ID	IL	IN	KS	KY
1970	1.3012	1.7043	1.3050	1.2062	1.5349	1.0863	1.4232	0.8764	1.5013
1971	1.3037	1.7710	1.3572	1.2966	1.6072	1.1604	1.5160	0.9493	1.6027
1972	1.3432	1.8222	1.3627	1.2831	1.6560	1.1641	1.5209	0.9126	1.6490
1973	1.4546	1.9205	1.4549	1.4211	1.7059	1.2700	1.5902	1.0355	1.7379
1974	2.4941	3.1226	2.5070	2.5868	2.5478	2.2230	2.8290	2.0799	2.7427
1975	2.5758	3.0430	2.7150	2.5525	3.2197	2.2320	2.9320	2.0080	3.0042
1976	2.8292	3.4156	2.9994	2.7794	3.1790	2.4542	3.0728	2.2916	3.3416
1977	2.9205	3.9596	3.4228	3.4023	3.7966	2.9796	3.7862	2.7834	3.6675
1978	3.3380	4.0443	3.3747	3.6162	4.1210	3.1114	3.9562	2.7874	3.8531
1979	4.8688	4.2582	4.1087	3.5803	3.9192	3.5392	3.9341	3.1078	4.1041
1980 (a)	5.6917	6.2184	5.3990	5.3162	5.8417	4.6690	5.6793	4.5406	5.3915

YEAR	LA	MA	MD	ME	MI	MN	MO	MS	MT
1970	1.1505	1.6572	1.2606	1.3777	1.4328	1.2462	1.2475	1.3950	1.3855
1971	1.1606	1.5048	1.2980	1.4699	1.4354	1.3317	1.3360	1.4558	1.4463
1972	1.1643	1.5238	1.3092	1.4885	1.4811	1.3360	1.2971	1.5022	1.4426
1973	1.2008	1.5082	1.4059	1.4732	1.5693	1.3829	1.3887	1.6335	1.5902
1974	2.4117	2.5363	2.4691	2.4775	2.5299	2.6093	2.6150	2.7762	2.4796
1975	2.6636	3.0487	2.7427	3.2933	2.5818	2.7043	2.4505	2.7874	2.5740
1976	2.9089	3.7341	3.0665	3.6475	2.9180	3.0033	2.7598	3.0441	2.9147
1977	3.2212	3.8556	3.4044	3.7662	3.5172	3.3812	3.3335	3.5843	3.2231
1978	3.6162	3.8098	3.9768	3.8383	3.3071	3.7352	3.6265	3.6322	2.8641
1979	3.9501	4.6177	3.7800	4.4682	3.9911	3.5848	3.7903	3.8473	4.1087
1980 (a)	5.7364	6.1119	5.0269	5.9701	5.3219	5.2212	5.3806	5.7472	5.1374

(a) Data for 1980 are provisional estimates, and will be updated when data from Annual Survey of Manufactures become available.

TABLE C-29 LIQUEFIED PETROLEUM GAS PRICES: INDUSTRIAL SECTOR
(\$/MILLION BTU)

YEAR	NC	ND	NE	NH	NJ	NM	NV	NY	OH
1970	1.4014	1.2591	1.1022	1.4827	1.5909	1.2055	1.0558	1.5010	1.4935
1971	1.4040	1.3343	1.1933	1.5137	1.5939	1.2863	1.1151	1.4679	1.5243
1972	1.4085	1.3385	1.1614	1.5469	1.5569	1.3101	0.9780	1.4367	1.5292
1973	1.5316	1.3842	1.3002	1.5100	1.6472	1.4831	1.2319	1.5142	1.6008
1974	2.4453	2.4124	2.4315	2.5393	3.4781	2.7306	1.9524	2.5707	2.8370
1975	2.6531	2.5453	2.4866	2.6214	3.7477	2.7915	2.2321	3.1990	3.0384
1976	2.6560	2.8768	2.7155	3.9543	4.0502	3.1438	2.3316	3.2753	3.2318
1977	3.2567	3.0942	3.1974	3.8603	3.7950	3.6564	3.0918	3.9887	3.7989
1978	3.6677	2.4829	3.3586	4.6831	3.8589	3.7249	2.8641	3.9356	3.7661
1979 (a)	3.5540	4.1909	3.3486	3.7595	4.0014	4.2874	3.9501	4.3141	4.3449
1980	5.0689	4.7660	5.0934	6.1192	6.1307	6.0085	4.6241	5.7249	5.9716

YEAR	OK	OR	PA	RI	SC	SD	TN	TX	UT
1970	1.1402	1.3127	1.4631	1.1848	1.5230	1.2765	1.2754	0.9756	1.3506
1971	1.2584	1.3890	1.4658	1.2701	1.6041	1.3139	1.3872	1.0507	1.3929
1972	1.2139	1.4305	1.4705	1.2980	1.6484	1.3357	1.3697	1.0786	1.2537
1973	1.3647	1.5103	1.5557	1.2670	1.7334	1.4112	1.4704	1.2303	1.3946
1974	2.7410	2.2788	2.2050	2.1307	2.7695	2.5245	2.5104	2.3476	2.1089
1975	2.6046	2.8882	2.9766	2.6094	2.9395	2.5792	2.4093	2.3570	2.5862
1976	2.9026	3.1542	3.3824	3.0767	3.1813	2.7600	2.7830	2.4838	2.9126
1977	3.7041	3.7745	3.6819	3.2391	3.3070	3.4325	3.3255	2.9245	3.4784
1978	3.9619	4.0180	3.8428	3.4617	3.6162	3.3689	3.4674	2.4680	3.4880
1979 (a)	4.0528	4.3198	4.2377	3.6670	3.7549	4.0733	3.9443	4.2525	4.3860
1980	5.8343	5.8995	5.8230	5.1346	5.4778	5.3690	5.2387	4.9175	5.5152

YEAR	VA	VT	WA	WI	WV	WY	US
1970	1.4859	1.3329	1.3459	1.4537	1.4253	1.2958	1.1085
1971	1.5635	1.2929	1.4166	1.5463	1.4763	1.3904	1.1695
1972	1.5768	1.3092	1.4591	1.5513	1.4891	1.3444	1.1883
1973	1.6832	1.2958	1.5180	1.6476	1.6247	1.4759	1.3225
1974	2.7132	2.1791	2.2829	2.8638	2.6106	2.3293	2.4509
1975	3.0398	2.8350	2.6921	2.8298	2.7031	2.6363	2.5423
1976	3.1276	3.2699	2.9260	2.8785	3.0750	3.0223	2.7355
1977	3.7111	3.3126	3.5670	3.7813	3.6248	3.4025	3.1839
1978	3.5807	3.6162	3.2865	3.9413	3.6986	3.5292	3.0853
1979 (a)	4.2422	3.8670	4.3655	4.1806	4.2183	3.9706	4.0759
1980	5.6771	5.2511	5.4199	5.9898	5.5320	5.6919	5.2400

(a) Data for 1980 are provisional estimates, and will be updated when data from Annual Survey of Manufactures become available.

APPENDIX D

CONVERSION FACTORS

APPENDIX D

CONVERSION FACTORS

Electricity:

All sectors	3412 Btu/Kilowatt Hour
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Natural Gas:

Residential, Commercial, Industrial, & Transportation Sectors	See Table D.1
Electric Utility Sector 1967-1972	See Table D.1
Electric Utility Sector 1973-1980	Conversion factors embedded in data

Metallurgical Coal:

Industrial Sector	26.0 Million Btu/Ton
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Steam Coal:

Residential & Industrial Sectors	See Table D.2
Electric Utility Sector	Conversion factors embedded in data

Distillate Fuel Oil:

Residential, Commercial, & Industrial Sectors	0.13869 million Btu/gallon
Electric Utility Sector	Conversion factors embedded in data

Motor Gasoline:

Transportation Sector	0.12507 million Btu/gallon
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Diesel:

Transportation	0.14 million Btu/gallon
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Kerosene:

Residential, Industrial, and Electric Utility Sectors	0.135 million Btu/gallon
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Jet Fuel:

Transportation	0.135 million Btu/gallon
----------------	--------------------------

Residual Fuel Oil:

Commercial, Industrial, and
Transportation Sectors

6.287 million Btu/barrel

Electric Utility

Conversion factors embedded
in data

Liquefied Petroleum Gas:

Residential Sector 1970-1978
 1979-1980

10.980 gallons/million Btu
10.917 gallons/million Btu

Industrial Sector 1970

0.955 million Btu/gallon

1971

0.0898 million Btu/gallon

1972

0.0895 million Btu/gallon

1973

0.0892 million Btu/gallon

1974

0.0888 million Btu/gallon

1975

0.0885 million Btu/gallon

1976

0.0884 million Btu/gallon

1977

0.0875 million Btu/gallon

1978

0.0874 million Btu/gallon

1979

0.0876 million Btu/gallon

1980

0.0876 million Btu/gallon

TABLE D.1. Natural Gas Btu Conversion Factors (Btu per Cubic Foot)

State	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	
Alaska	1010	1010	1010	1011	1010	1010	1000	1000	1005	1005	1005	1005	1005	1010	1005	1005	1005	1005	1000	1000	1003	
Alabama	1032	1032	1032	1027	1037	1034	1033	1031	1033	1033	1032	1032	1031	1029	1028	1029	1030	1031	1032.5	1028.4	1034	
Arkansas	1001	1001	1001	1000	1003	1001	1001	1001	1000	1000	1002	1002	1004	999	999	997	997	1021	1000.9	1017	1001	
Arizona	1076	1076	1076	1077	1075	1076	1076	1065	1076	1076	1068	1068	1059	1056	1065	1052	1052	1056	1064.7	1045.4	1049	
California	1070	1070	1070	1069	1071	1073	1072	1072	1069	1069	1062	1062	1054	1053	1056	1057	1053	1052	1053.2	1049.7	1046	
Colorado	903	903	903	908	898	912	913	908	987	987	981	981	974	962	967	913	914	900	875.9	892.4	993	
Connecticut	1026	1026	1026	1022	1030	1022	1022	1021	1016	1016	1016	1016	1016	1015	1012	1005	1008	1010	1013	1011.7	1022	
District of Columbia	1024	1024	1024	1025	1024	1024	1024	1024	1022	1022	1019	1019	1016	1013	1012	1012	1012	1016	1016	1016	1003	
Delaware	1043	1043	1043	1043	1043	1043	1042	1042	1042	1042	1031	1031	1020	1020	1020	1020	1025	1030	1030.9	1031.1	1035	
Florida	1034	1034	1034	1026	1041	1037	1039	1039	1048	1048	1045	1045	1041	1043	1043	1043	1041	1045	1047	1037.3	1041	
Georgia	1043	1043	1043	1043	1043	1040	1042	1042	1043	1043	1037	1037	1031	1030	1028	1027	1027	1027	1027.9	1039	1032	
Hawaii	0	0	0	0	0	0	0	0	0	0	0	0	962	935	921	947	911	949	958	950	963	
Iowa	1006	1006	1006	1007	1004	1010	1019	1021	1021	1021	1015	1015	1009	1012	1011	1008	1008	1004	1002.2	1002.3	1003	
Idaho	1069	1069	1069	1067	1071	1065	1080	1048	1023	1023	1042	1042	1061	1058	1042	1055	1057	1060	1053.4	1047.1	1053	
Illinois	1027	1027	1027	1023	1030	1029	1033	1033	1033	1033	1029	1029	1025	1023	1023	1026	1025	1028	1018.3	1024.4	1022	
Indiana	1000	1000	1000	1000	1000	999	1000	1000	1001	1001	1004	1004	1006	998	997	990	990	990	989	990.4	989	
Kansas	995	995	995	996	994	995	994	990	988	988	993	993	998	988	986	984	981	981	978.1	977.8	987	
Kentucky	1036	1036	1036	1045	1027	1028	1024	1024	1022	1022	1020	1020	1017	1019	1015	1008	1011	1011	1009.9	1009.4	1009	
Louisiana	1043	1043	1043	1035	1050	1042	1036	1033	1012	1012	1021	1021	1029	1031	1030	1037	1038	1038	1044.7	1036.9	1038	
Massachusetts	1015	1015	1015	1015	1014	1013	1013	1013	1012	1012	1012	1012	1012	1011	1009	1004	1006	1007	1009.1	1009.1	1016	
Maryland	1028	1028	1028	1029	1026	1025	1026	1024	1024	1024	1023	1023	1022	1020	1020	1013	1014	1016	1030.1	1044.8	1020	
Maine	0	0	0	0	0	0	1025	1025	1025	1029	1029	1021	1021	1012	1011	1011	1024	1024	1024	1000	1024	
Michigan	1013	1013	1013	1012	1013	1014	1017	1019	1015	1015	1015	1015	1015	1015	1010	1007	1012	1008	1006	1005.5	1005.3	1011
Minnesota	998	998	998	998	998	998	1005	1008	1010	1010	1006	1006	1002	999	1001	1001	998	997	996.7	995.3	997	
Missouri	1021	1021	1021	1020	1021	1020	1016	1018	1020	1020	1014	1014	1007	995	1005	1006	1003	1002	1003.8	979.5	1014	
Mississippi	1029	1029	1029	1022	1035	1029	1022	1023	1024	1024	1025	1025	1025	1024	1025	1023	1023	1025	1021.2	1024.3	1028	
Montana	1001	1001	1001	1000	1001	1001	1001	998	999	999	1016	1016	1032	1032	1022	1021	1014	1009	1000.5	990.1	1012	
North Carolina	1036	1036	1036	1036	1035	1033	1031	1029	1026	1026	1025	1025	1024	1027	1025	1018	1018	1019	1020.8	1021.9	1012	
North Dakota	1000	1000	1000	1000	1000	1000	1002	1006	1008	1008	1020	1020	1031	1024	1002	1001	1000	1000	1000	1000	1052	
Nebraska	991	991	991	991	990	991	996	996	998	998	1003	1003	1008	1005	1002	994	994	998	997.8	993.8	978	
New Hampshire	1002	1002	1002	1003	1001	1012	1009	1014	1009	1009	1010	1010	1010	1008	1007	1010	1010	1000	1007.3	1040	1020	
New Jersey	1048	1048	1048	1047	1048	1045	1042	1040	1037	1037	1032	1032	1026	1027	1026	1031	1034	1034	1035	1035.9	1033	
New Mexico	1109	1109	1109	1108	1109	1108	1108	1097	1098	1098	1091	1091	1083	1067	1062	1064	1057	1057	1055	1056.4	1043	
Nevada	1071	1071	1071	1072	1069	1062	1061	1051	1058	1058	1070	1070	1082	1067	1067	1067	1066	1049	1027.9	1013.9	1061	
New York	1027	1027	1027	1027	1027	1026	1022	1023	1021	1021	1021	1021	1021	1030	1023	1015	1014	1011	1011.9	1015.5	1025	
Ohio	1034	1034	1034	1034	1033	1033	1033	1033	1031	1031	1027	1027	1023	1025	1026	1023	1025	1024	1023	1024.9	1016	
Oklahoma	1026	1026	1026	1026	1026	1026	1024	1024	1023	1023	1028	1028	1032	1023	1032	1015	1014	1027	1023.9	1023.5	1023	
Oregon	1076	1076	1076	1078	1074	1070	1065	1059	1054	1054	1050	1050	1045	1059	1044	1039	1036	1042	1045.1	1044.8	1046	
Pennsylvania	1040	1040	1040	1040	1039	1038	1038	1034	1033	1033	1033	1033	1033	1036	1024	1025	1025	1021	1021.5	1020.6	1022	
Rhode Island	1043	1043	1043	1042	1044	1042	1042	1041	1042	1042	1032	1032	1021	1016	1013	1014	1013	1013	1012.9	1011.3	1021	
South Carolina	1044	1044	1044	1045	1043	1042	1046	1040	1036	1036	1032	1032	1028	1026	1025	1024	1023	1022	1032	1018.1	1033	
South Dakota	997	997	997	997	996	997	1000	1004	1005	1005	1005	1005	1004	1002	999	1000	999	1000	999.2	995.6	998	
Tennessee	1053	1053	1053	1055	1051	1046	1047	1042	1039	1039	1031	1031	1022	1022	1020	1031	1029	1031	1028	1032.6	1016	
Texas	1035	1035	1035	1037	1033	1037	1043	1044	1038	1038	1033	1033	1027	1027	1027	1026	1025	1027	1028.1	1032.5	1033	
Utah	925	925	925	926	923	925	921	924	925	925	932	932	938	945	952	950	948	950	956.2	959.8	1086	
Virginia	1035	1035	1035	1039	1033	1031	1030	1030	1031	1031	1029	1029	1026	1025	1022	1019	1019	1023	1020.8	1021.4	1016	
Vermont	0	0	0	0	0	0	1009	1009	1006	1033	1020	1020	1006	1006	1008	1008	1008	1008	1010.5	1010.1	990	
Washington	1077	1077	1077	1076	1077	1075	1068	1063	1038	1062	1059	1059	1055	1051	1047	1042	1041	1045	1047.6	1046.9	1052	
Wisconsin	1024	1024	1024	1025	1022	1018	1021	1023	1025	1025	1022	1022	1019	1015	1015	1020	1017	1015	1012.3	1012.9	1032	
West Virginia	1057	1057	1057	1060	1054	1071	1045	1042	1062	1038	1034	1034	1029	1030	1023	1037	1043	1042	1031.4	1023.7	1008	
Wyoming	923	923	923	926	919	926	958	950	960	960	992	992	1023	1017	996	934	950	937	913.7	929.2	1060	
United States	1032	1032	1032	1031	1032	1032	1033	1032	1031	1031	1029	1029	1027	1021	1024	1021	1020	1021	1019	1020.8	1026	

TABLE D.2. Conversion Factors for Steam Coal, Residential Sector
(million Btu per ton)

<u>Year</u>	<u>SCB/T^(a)</u>
1970-1972	26.00
1973	26.84
1974	26.12
1975	25.81
1976	25.87
1977	25.13
1978	25.07
1979	25.06
1980	25.97

(a) Million Btu per ton of Steam Coal

Source: EIA, Monthly Energy Review.

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