

Electric Trade in the United States 1996

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Contacts

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Questions regarding the contents of this report may be directed to:

Electric Power Division
Office of Coal, Nuclear, Electric and Alternate Fuels
Energy Information Administration, EI-53
U.S. Department of Energy
1000 Independence Avenue, S.W.
Washington, DC 20585
FAX (202/254-5765)

Questions of a general nature should be directed to:

Robert Schnapp (202/426-1211),
Director of the Electric Power Division
Robert.Schnapp@eia.doe.gov

Betsy O'Brien (202/426-1180),
Chief of the Market Assessment Branch
Betsy.OBrien@eia.doe.gov

John Makens (202/426-1165),
Project Manager
John.Makens@eia.doe.gov

Principal data analyst and author for the *Electric Trade in United States* report was John W. Makens of the Electric Power Division.

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Executive Summary

In the past, wholesale trade in electricity played an important role for the U.S. electric utility industry in helping to reduce costs and for providing reliability support. Today, it has an even more important role in the new competitive electric power industry. For in 1996, the wholesale trade market totaled 2.3 trillion kilowatthours. This total, expressed in another way, means that 73 percent of total sales to ultimate consumers were part of a wholesale electricity trade transaction which linked together the contract path from source generation to end-use consumption (Table 3).

Participation in wholesale, or bulk power, transactions has increased through the regulatory actions of the Federal Energy Regulatory Commission's (FERC) when it started the process to authorize market competition for the wholesale trade sector of the electric power industry. Electric utilities, power marketers, and many industrial companies are buying and selling their power under the new rules for this market. There is now more power supply options (both for acquiring physical energy and financial protection). New competitive markets have also been proposed for electrical system support services. From this, the hope for the future is that competition will lead to improved reliability.

The Electric Power Industry and Wholesale Trade

This publication on electric trade data provides information on the electric power industry during 1996. The information furnished provide important information on the wholesale structure found within the U.S. electric power industry. The patterns of interutility trade in the report support analyses of wholesale power transactions and provide input for a broader understanding of bulk power market issues that defines the emerging national electric energy policies. The report includes information on the quantity of power purchased, sold, exchanged, and wheeled; the geographical locations of transactions and ownership classes involved; and the revenues and costs. The util-

ities covered in this publication include all U.S. electric utilities in the 50 States and the District of Columbia. Electric utilities fall into four basic ownership classifications: investor-owned (privately owned), publicly owned, cooperative, and power marketers. Publicly owned utilities may be Federally owned, State-owned, or municipally owned.

In 1996, there were 3,195 electric utilities in the United States and 65 power marketers (active reporters for a grand total of 3,260). Of these, 2,020 were publicly owned (including 10 Federal utilities), 932 were rural electric cooperatives, and 243 were investor-owned utilities (Table 1). Some of these electric utilities have service territories extending beyond a single county or parish. Others just serve a municipality or part of a county. Many of the Nation's electric utilities are exclusively distribution utilities, that is, they purchase wholesale power from other utilities and distribute, on their own distribution lines, the electricity to ultimate consumers. Power Marketers do not have service territories, but can provide their services anywhere. This operating capability will become a model for many in the future.

However, the counts and responsibilities of these utilities are changing as the restructuring activities that are reshaping the electric power industry alters the traditional practices and service territory boundaries. Electric utilities are merging with others or are being acquired. And, some of these electric utilities are being directed (State government initiatives) to sell off their generating assets and focus the regulated part of the company on transmission and/or distribution (for example, in California and Massachusetts). Part of the reason for this sell-off is that there is a high concentration of the nation's total utility generation assets owned by a small ownership class of utilities. The belief is that under market competition, this concentration of capability would represent too much market power influence over charged prices. Whether this become a trend that other States follow is a question that currently has no answer. But, there are fewer than 1,000 ¹ of the 3,200 utilities in the United States engaged in power generation. These utility generating asset holdings represents 91 percent of the total industry's net summer capability in 1996.²

¹ Energy Information Administration Form EIA-860, "Annual Electric Generator Report."

² Energy Information Administration, *Annual Energy Review 1996* DOE/EIA-0384(96)(Washington, DC) p. 228.

Table ES1. Comparison of Electric Trade Data by North American Electric Reliability Council Region for Years 1990, 1992, 1994, and 1996

NERC Region	Geographic Area	Billion Kilowatthours				Percent Change 1990-1996
		1996	1994	1992	1990	
Purchases by Investor-Owned Utilities						
ECAR.....	Indiana; Ohio; West Virginia; and portions of Kentucky, Maryland, Michigan, Pennsylvania, and Virginia	121.9	98.3	95.7	79.2	54.1
ERCOT.....	Portions of Texas	33.9	27.2	28.0	27.0	25.3
MAAC.....	Delaware; District of Columbia; New Jersey; and portions of Maryland, Pennsylvania, and Virginia	109.7	35.8	70.2	43.8	150.4
MAIN.....	Illinois; and portions of Iowa, Michigan, Missouri, and Wisconsin	37.9	71.3	28.6	21.8	73.5
MAPP(US).....	Minnesota; North Dakota; and portions of Iowa, Montana, Nebraska, South Dakota, Wisconsin, and Wyoming	36.3	31.0	26.4	20.0	81.8
NPCC(US).....	Connecticut; Maine; Massachusetts; New Hampshire; New York; Rhode Island; and Vermont	186.3	169.1	141.9	104.1	79.0
SERC.....	Alabama; Florida; Georgia; North Carolina; South Carolina; Tennessee; and portions of Kentucky, Mississippi, and Virginia	95.8	85.2	86.8	88.5	8.2
SPP.....	Arkansas; Louisiana; Kansas; Oklahoma; and portions of Mississippi, Missouri, New Mexico, and Texas	67.6	52.1	49.1	37.7	79.4
WSCC(US).....	Arizona; California; Colorado; Idaho; Nevada; Oregon; Utah; Washington; and portions of Montana, Nebraska, New Mexico, South Dakota, and Wyoming	200.2	142.4	132.0	141.3	41.7
Contiguous U.S. Total.....		889.6	712.5	658.6	563.3	57.9
Sales for Resale by Investor-Owned Utilities						
ECAR.....	Same as Above	152.8	114.6	132.0	117.6	30.0
ERCOT.....		10.8	8.8	8.0	9.7	11.5
MAAC.....		70.5	41.8	45.9	19.1	269.0
MAIN.....		51.2	46.1	26.5	29.2	75.0
MAPP.....		24.6	21.7	18.6	18.0	36.5
NPCC.....		106.0	102.4	95.5	70.5	50.2
SERC.....		95.8	86.5	89.3	93.5	2.5
SPP.....		58.2	50.0	45.3	35.5	63.7
WSCC.....		87.4	57.9	53.3	51.0	71.3
Contiguous U.S. Total.....		657.2	529.7	514.4	444.2	48.0

Notes: •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska System Coordinating Council is not included. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

Changing Electric Power Industry

The electric power industry is undergoing fundamental changes reflected by its evolving structure. For many years, the industry was dominated by locally franchised, vertically integrated utilities, regulated by State regulatory agencies. This picture has changed and the pace of restructuring of the electric power industry in the United States has increased, with elec-

tricity generation markets being opened first to competition. The initial start that moved the industry toward competition stemmed from the unanticipated operational impacts of the Public Utility Regulatory Policies Act of 1978 (PURPA), which encouraged the supply of wholesale power to electric utilities from nontraditional sources (i.e., renewable energy sources). The FERC released two regulatory actions (Orders 888 and 889)³ that will alter wholesale trading practices and transmission access.

³ Federal Energy Regulatory Commission, *Promoting Wholesale Competition Through Open Access Nondiscriminatory Transmission Services by Public Utilities*, Order No. 888 and 889 issued in April 1996.

Trading Highlights

A large amount of the electricity generated in the United States is traded under wholesale purchases and sales for resale contracts. The vast majority of wholesale transactions for investor-owned, Federal, and cooperative utilities involve utilities within the same NERC regional boundaries (See Table 5). Much of the historical differences between intra- and interregional wholesale power transactions result from the independent development of multiple transmission links among clusters of neighboring utilities. The criteria that justified this construction could be described as being based upon the line use for reliability support, then, capacity transactions, and later split-the-savings energy transactions. Today, competitive market transactions are having the largest impact on interregional trade. There was a 216 percent increase in interregional trade by investor-owned utilities and a 51 percent increase by cooperatives since 1990. The impact of competition has also been felt in the firm and nonfirm categories of electricity transactions. The shift is evident in the percent change from 1990 to 1996. Nonfirm purchases and sale for resale increased by 126 and 79 percent, respectively, while firm purchases rose by 14 percent and sales for resale by 20 percent (Table 6).

In 1996, there was an increase of 23 percent in purchased power and exchanges received over the prior year. This trend held for sales for resale and exchanges delivered (26 percent). This percent increase from the year earlier was the largest single year increase and represents a significant increase in wholesale trade transactions when compared to all the prior year changes. The NERC regions of ERCOT,

MAAC, NPCC, and WSCC all showed major increases. None of the contiguous NERC regions showed any declines (Table 4). Much of this change can be attributed to a shift in the electric utility industry's practices. Competition in the wholesale transaction markets had started to replace split-the-savings trading and exchange trades are disappearing.

Electricity purchases by investor-owned utilities have increased by 58 percent between 1990 and 1996. This change is illustrated in a regional comparison of purchases and sales for resale by investor-owned electric utilities (Table ES1) for 1990, 1992, 1994, and 1996. Transactions by investor-owned electric utilities represent over 51 percent of the transactions in the bulk power market (Table 2). Purchases from all sources by major investor-owned utilities totaled 369.9 billion kilowatthours of firm power for \$18.6 billion and 496.6 billion kilowatthours of nonfirm energy for \$13.6 billion in 1996 (Table 8). When miscellaneous transactions are included, these investor-owned utilities paid a total of \$33.0 billion dollars for the purchase of 889.6 billion kilowatthours.

Investor-owned utilities exchanged approximately 69 billion kilowatthours of electricity with other utilities for both receipts and deliveries (Table 10). The most exchange activity occurred in ERCOT and WSCC, with 34 and 23 billion kilowatthours each in receipts and deliveries, respectively. Trade in the two regions accounted for 82 percent of exchanges with other utilities.

Table ES2. Electricity Data, by Source

Form	Data Utilized
Form EIA-412, "Annual Report of Public Electric Utilities ".....	Detailed transactions for sales for resale and purchases.
Form EIA-861, "Annual Electric Utility Report ".....	Aggregated transactions for sales for resale, purchases, exchanges, and wheeling.
Form FE-781R, "Annual Report of International Electrical Export/Import Data ".....	Detailed transactions for exports from and imports to the United States
FERC Form 1, "Annual Report of Major Public Utilities, Licensees and Others ".....	Detailed transactions for sales for resale, purchases, exchanges, and wheeling
FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees ".....	Detailed transactions for sales for resale, purchases, exchanges, and wheeling.
RUS Form 7, "Financial and Statistical Reports Reports--Electric Distribution Borrowers ".....	Detailed transactions for purchases.
RUS Form 12a through 12i, "Electric Power Supply Borrowers, " and REA Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities ".....	Detailed transactions for purchases.

atives purchased 332.5 billion kilowatthours for \$13.1 billion dollars (Table 14). The exchanges reported with noninvestor-owned utilities in 1996 (Table 11), were mostly by Federal utilities, accounting for about

Federal utilities purchased 11.2 billion kilowatthours for \$208.5 million dollars (Table 25), but sold 196.3 billion kilowatthours for \$5.4 billion dollars. Cooper-

half of the exchanges. The next largest sector was the cooperative grouping.

Sources of Information

The publication *Electric Trade in the United States 1996* draws information from multiple sources of data collected by different Federal agencies. The list of sources is identified in Table ES2. To assist the reader, information on compilation of the data, limitations of coverage, and quality have been provided at the end of Chapter 1 and in the Technical Notes, Glossary of Terms, and other Appendices at the end of the publication.

1. Introduction

Background

Wholesale trade in electricity plays an important role for the U.S. electric utility industry. Wholesale, or bulk power, transactions allow electric utilities to reduce power costs, increase power supply options, and improve reliability. In 1996, the wholesale trade market totaled 2.3 trillion kilowatthours, over 73 percent of total sales to ultimate consumers.

This publication, *Electric Trade in the United States 1996 (ELECTRA)*, is the sixth in a series of reports on wholesale power transactions prepared by the Office of Coal, Nuclear, Electric and Alternate Fuels, Energy Information Administration (EIA). The electric trade data are published biennially. The first report presented 1986 data, and this report provides information on the electric power industry during 1996.

The electric trade data collected and presented in this report furnish important information on the wholesale structure found within the U.S. electric power industry. The patterns of interutility trade in the report support analyses of wholesale power transactions and provide input for a broader understanding of bulk power market issues that define the emerging national electric energy policies. The report includes information on the quantity of power purchased, sold, exchanged, and wheeled; the geographical locations of transactions and ownership classes involved; and the revenues and costs.

The Electric Power Industry Structure

The utilities covered in this publication include all U.S. electric utilities in the 50 States and the District of Columbia. Electric utilities fall into four basic ownership classifications: investor-owned (privately owned), publicly owned, cooperative, and power marketers. Publicly owned utilities may be Federally owned, State-owned, or municipally owned. In 1996, there were 3,195 electric utilities in the United States. Of these, 2,020 were publicly owned (including 10

Federal utilities), 932 were rural electric cooperatives, and 243 were investor-owned utilities (Table 1). Some of these electric utilities have service territories extending beyond a single county or parish. Others just serve a municipality or part of a county. Most counties in the United States have more than a single utility and some parts of the country have multiple electric utilities operating in a county. Many of the Nation's electric utilities are exclusively distribution utilities, that is, they purchase wholesale power from other utilities and distribute, on their own distribution lines, the electricity to ultimate consumers. For example, fewer than 1,000⁴ of the 3,195 utilities in the United States are engaged in power generation. In order to move electricity from utilities with generating capability to the distribution utilities, an extensive system of high voltage transmission lines is operated by the Nation's largest utilities. This transmission network permits the electric trade between utilities, because without it electricity could not be moved from power plants to the thousands of distribution systems and millions of consumers of electric power.

Investor-Owned Utilities

There are several basic organizational forms among investor-owned companies. The most prevalent is the single corporation. Another common form is the holding company in which a parent company is established to own one or more operating utility companies which are integrated with one another. The Public Utility Holding Company Act of 1935 requires that the utilities owned by a holding company operate as a single integrated utility system.

Most of the investor-owned utilities sell power at retail rates to several different classes of customers and at wholesale rates to investor-owned, Federal, State, and local government utilities, public utility districts, and rural electric cooperatives. A wholesale customer can be a distribution utility with little or no generating capacity of its own or another integrated utility that purchases power to supplement its own generation or for economic reasons.

⁴ Energy Information Administration Form EIA-860, "Annual Electric Generator Report."

Publicly Owned Utilities

Publicly owned electric utilities represent 62 percent of the total number of U.S. electric utilities but accounted for only 15 percent of sales to ultimate consumers in 1996. Publicly owned utilities include Federal utilities, State and other government owned utilities (irrigation districts, public power districts, and State authorities and other organizations), and municipal utilities.

Federal power plants generate more than 9 percent of the total electricity in the United States that is sold to the power grids. Federal generated energy comes primarily from hydroelectric facilities operated by the U. S. Army Corps of Engineers and the Bureau of Reclamation of the U.S. Department of Interior. Electricity is also generated by the Bureau of Indian Affairs and the International Boundary and Water Commission. Energy generated by these producers is marketed (along with any of their own generation) by the five Federal power marketing administrations: Bonneville (in the northwestern United States), Southeastern, Southwestern, Western Area, and Alaska (sold in 1998). The power marketing administrations are part of the U.S. Department of Energy and operate in all States except those in the Northeast, upper Midwest, and Hawaii. The Tennessee Valley Authority generates electricity from coal and nuclear power as well as hydropower. It is the largest Federal power producer and markets electricity in both the wholesale and retail markets. In addition, the U.S. Department of Defense sells a small quantity of power, generated by Federal nonutilities, to the power grid.

Approximately 15 percent of the electricity generated by Federal utilities is sold to retail customers which are usually large industrial customers or Federal installations. Most of the remaining energy is sold to publicly owned utilities and rural cooperatives for resale. These wholesale customers have a legal preference right to Federal electricity. Only the surplus remaining after meeting the energy requirements of preference customers is sold to the investor-owned utilities.

Municipal utilities account for 57 percent of the number of electric utilities in the United States, but produce less than 5 percent of total net generation provided by electric utilities. Municipal utilities tend to be concentrated in cities where the loads are small. They exist in every State except Hawaii, but are concentrated, predominately in the Midwest and Southeast. In general, municipal utilities tend to have lower costs than investor-owned utilities because they generally have access to bonds supported by tax based funds and do not pay certain taxes or dividends. They also have high-density service areas.

The other publicly owned utilities include State authorities, public power districts, irrigation districts, and other State organizations. State authorities are

utilities that function in a manner similar to Federal utilities. They generate or purchase electricity from other utilities and market large quantities wholesale to groups of utilities within their States at lower prices than the individual utilities would otherwise pay. The public power districts tend to be concentrated in Nebraska, Washington, Oregon, Arizona, and California. Appendix Tables B2 through B4 contain listings of the public power municipals, State authorities, and Federal utilities used in this publication.

Rural Electric Cooperatives

Most rural electric cooperative utilities are formed and owned by groups of residents in rural areas to supply power to those areas. Some cooperatives may be owned by a number of other cooperatives. (There are really three types of cooperatives: (1) distribution only; (2) distribution with power supply; and (3) generation and transmission.) Cooperatives currently operate in 46 States, and represent 29 percent of the total utilities in the country. Most distribution cooperatives resemble municipal utilities in that they often do not generate electricity, but purchase it from other utilities. The other type (generating and transmission cooperatives) are usually referred to as power supply cooperatives. These cooperatives are usually owned by the distribution cooperatives to whom they supply wholesale power. Distribution cooperatives resemble Federal utilities by supplying electricity to other utility customers from their generating capability. Cooperatives accounted for more than 8 percent of sales to ultimate consumers and almost 6 percent of net generation produced by electric utilities in 1996.

Power Marketers

Actions initiated by the Federal Energy Regulatory Commission (FERC) has changed the composition and nomenclature of the electric utility industry. FERC has modified its regulatory requirements to permit business entities to file for rate tariffs in order to buy and sell electricity at wholesale among all electric utilities.⁵ These new entities are called *power marketers* --members do not have to own or operate generation, transmission, or distribution facilities, but are considered electric utilities by the FERC. Table 1 shows a count of 65 active power marketers in 1996. These power marketers purchased over 216 billion kilowatthours and sold more than 214 billion kilowatthours (Table 2). Thus, the now active entry of marketers combined with new power generator not only constitutes a strong change to the electric utility industry, but also propels the industry on its path to market competition.

⁵ On May 19, 1986, the FERC approved the rate tariff for Citizens Energy Corp. (EL86-2-000), which became the first marketer. Only 3 more authorizations were granted before 1990.

The Edison Electric Institute (EEI) noted in its' publication, *Power Marketers Yearbook 1996*, that "power marketer is a regulatory classification encompassing a wide variety of businesses" and provided " a breakout of marketers based on their business activities, or those of their corporate affiliates.⁶ " (The classifications are identified in the footnote.) The structure proposed by EEI represents one approach to describing these new participants and the diversity of trading activities in the new competitive markets. Yet, even this structural classification does not describe the magnitude of physical and financial transactions which may or may not link actual physical transactions with risk management protection options or are just strict financial resales done to maintain a daily balanced trade position. Some or all of these classifications may become accepted as standard nomenclature to describe these new participants in the electric power industry. However, the classifications do help by putting into perspective what may be the primary emphasis in the types of trades made by these power marketers.

The count of power marketers shown in Table 1 differs from the list of power marketers granted approved tariffs by the Federal Energy Regulatory Commission. Table 1 shows the count of power marketers that did enter into and make trade transactions while Appendix Table B7 lists, by company, the reported aggregated totals. Within these transactions totals reported in Table 2, there is present, for power marketers, a disconnect from the data reported by the investor-owned, public, and cooperative utilities reported in the detailed tables of this publication. The detailed reporting of counter party transactions among power marketers is not collected since these companies are not obligated to report on the principal forms (Table ES2) used to produce this publication. Table 2 does identify the aggregate total of all power marketer transactions, but the estimates cover both physical and financial (commercial paper sales and resale of a product, but without taking physical possession of the product) trades.

On the whole, power marketers do not generate or actually use electricity. They purchase it and move the

ownership along to another power marketer via a resale (financial) or sell it to a party which will take physical possession for the eventual consumption of that energy. The total megawatthours of booked financial transactions (included in this is the buying and selling of electric future options) are high when compared to the original physical purchase of the generated electricity. Investor-owned utilities' purchase power and sales for resale transactions with power marketers are over one-fourth what Table 2 shows for the combined physical and financial trades made by power marketers. Yet, this number should not be considered as final, since many utilities are active traders and are using more and more risk management tools in association with their trades. EEI has estimated that of the power marketers transactions, they purchased and resold among themselves 47 and 49 percent of the reported transactions, respectively, while investor-owned utilities were involved in 31 percent of the purchases and 30 percent of sales for this same total set of transactions.⁷

Changing Electric Power Industry

The electric power industry is undergoing fundamental changes reflected by its evolving structure. For many years, the industry was dominated by locally franchised, vertically integrated utilities, regulated by State regulatory agencies. This picture has changed and the pace of restructuring of the electric power industry in the United States has increased, with electricity generation markets being opened first to competition. The initial start that moved the industry toward competition stemmed from the unanticipated operational impacts of the Public Utility Regulatory Policies Act of 1978 (PURPA), which encouraged the supply of wholesale power to electric utilities from nontraditional sources (i.e., renewable energy sources).⁸

⁶ *Electric Utility Affiliates*-- any company in which an electric utility (including investor-owned utilities, foreign utilities, public power and cooperatives) has a 10-percent voting interest, or has been found to be affiliated by the FERC. *Energy Consultants*-- companies providing energy management, regulatory, and/or engineering services to wholesale and end-use customers or utilities. *Entrepreneurs*--start-up companies not otherwise engaged in energy-related businesses. *Financial Intermediaries*-- companies (often affiliated with large financial institutions) primarily engaged in commodity trading and risk management activities. *Fuel Suppliers*-- companies engaged in the production, transportation, marketing, and/or retail sales of various fuels (natural gas, oil, coal, etc.)-- predominantly natural gas marketers. *Industrials*-- large industrial customers engaged in the sale of excess cogeneration capacity or in procuring energy for own needs. *Nonutility Generators*-- companies engaged in the development and operation of generation projects not in a utility's rate base (cogenerators, small power producers, exempt wholesale generators etc.) *Telecom Companies*-- telecommunication companies not otherwise engaged in energy-related business. Edison Electric Institute, *Power Marketers Yearbook 1996*, Washington, DC, 1997), pg., 19.

⁷ Edison Electric Institute, *Power Marketers Yearbook 1996*, (Washington, DC, 1997), pg., 16.

⁸ PURPA's primary objective was to encourage improvements in energy efficiency through the expanded use of cogeneration and by creating a market for electricity produced from unconventional sources like renewables and waste fuels. While preserving the industry's vertically integrated structure, PURPA aimed at a modest modification by adding the obligation to look to nontraditional supplies in conjunction with utilities' existing and proposed generating capabilities. No changes, therefore, were postulated to the cost-based pricing of electricity regulation. Yet, by encouraging nonutility power generation and by making such output easily marketable on a wholesale basis, PURPA's provisions introduced several, far-reaching operational and regulatory changes in the electric utility industry. In the evolving wholesale market for electric power, PURPA's most notable contribution was to introduce competition while taking future supply options into account. For a further discussion on this subject, see Energy Information Administration *The Changing Structure of the Electric Power Industry: An Update*, DOE/EIA-0562(96)(Washington DC, December 1996).

Nonutility Generation in Electric Trade

While the inroads made by nonutility power generators into the generation monopoly were a positive force, the impact on utilities and prices came from increasing the generating capability in the United States from these sources. The electricity-related provisions of the Energy Policy Act of 1992 (EPACT) then became the catalyst for accelerating the pace of competition in electricity trade at the wholesale level.

More specifically, the EPACT provisions amended the Public Utility Holding Company Act of 1935, the Federal Power Act of 1935, and the PURPA provisions in the areas that govern, among other things, the future of nonutility power generation and the associated wholesale power transactions. Of the several EPACT provisions that affect electric utilities, the two designed to further industry competition are: (1) creating a new class of exempt wholesale generators (EWGs) and (2) expanding the authority of the FERC to order open transmission access under Section 211 of the Federal Power Act. The responsibility to determine the EWG status and to ensure the availability of transmission facilities in a nondiscriminatory manner was entrusted to the FERC.

Based on the above legislative mandate and regulatory rulemaking procedures, the FERC has pushed to introduce wholesale competition in electricity. Its two landmark rulings, Order No. 888 and Order No. 889,⁹ issued in April 1996, require all public utilities that own, control, or operate transmission facilities to file nondiscriminatory open-access tariffs that would be applied to all parties contracting for transmission service (Appendix A). Since these Orders were issued, activity to open electricity markets to competition has increased significantly at the State and Federal levels.

The growing role of nonutility generators (NUG) in electricity supply reflects the acceptance of alternative power supplies in the wholesale electric power market. The near monopoly of electric generation by regulated electric utilities has ended, as many new participants generate electricity and sell power to electric utilities, thus changing long-established institutional relationships.

Differences remain between traditional electric utilities and nonutility power generators for many reasons, including the passage of new legislation and the application of regulations designed specifically for nonutility generators. For example, a traditional definition of a utility might simply include any business entity

whose principal business is generating and selling electricity. This definition would exclude industrial generators and cogenerators, the principal nonutility generators organizations producing power but which are primarily engaged in business activities other than power sales.

A more common definition of an electric utility includes three elements: a franchised service territory; the obligation to serve all customers within this exclusive area; and the regulations that constitute this compact. This definition, however, ignores utilities without retail customers such as generation and transmission companies. All generators of electricity without a service area and with a contractual obligation to serve would be considered nonutilities under this definition. Even with this definition, there are various classes of nonutility generators, some of which reflect regulatory distinctions and others, which have evolved over time and may be less precise and overlapping: independent power producers (IPP), nonutility generators (NUG),¹⁰ small power producers (SPP), qualifying facilities (QF), and industrial power producers. Despite the variety of definitions, nonutility power producers are generally considered to be the nontraditional producers of electric energy (i.e., producers that are neither traditional Federal, State, investor-owned, cooperative, nor municipal utilities).

The Federal Government and other users of electric generation data are interested in this nontraditional generation group because, as nonutility power producers increase their level of production of electric energy, the group becomes a more important segment of the U. S. electric power industry. Nonutility power producers sold over 230 billion kilowatthours in 1996 (Table 2). As one of the fastest growing segments of the electric power industry, nonutility power producers may be responsible for a significant portion of new power plant construction. This group is, therefore, of great interest to analysts of the electric power industry. Analysis of the electric utility industry is complicated by the changing structure of the industry--which now includes a significant number and wide range of nonutility participants--and by the changing mix of transactions that characterize electric trade.

Transmission Services and Energy Broker/Marketers

The Energy Policy Act of 1992 (EPACT) amended the Federal Power Act (FPA) to allow any electric utility to apply to the FERC for an order requiring another utility to provide transmission services (wheeling). Prior to EPACT, FERC could not mandate an electric utility to provide wheeling services for wholesale electric trade. This change in the law will permit operators of electric generating equipment to sell wholesale power (sales for resale) to noncontiguous

⁹ Final Order No. 888 is described in Docket Nos. RM95-8-000 and RM94-7001, Promoting Wholesale Competition through Open Access Non-discriminatory Transmission Services by Public Utilities; Recover of Stranded Costs by Public Utilities and Transmitting Utilities. Order No. 889 is found under Docket No. RM95-9-000, Open Access Same-Time Information System and Standards of Conduct.

¹⁰ No specific legislative or regulatory definition exists for the term "nonutility." Therefore, it cannot be assumed that if an entity does not qualify as a utility that it is then a nonutility.

Table 1. Number of Electric Utilities by Class of Ownership Within NERC Region, 1996

NERC Region	Power Marketers	Investor-Owned	Federal ¹	State and Other Government	Municipals	Cooperatives	U.S. Total
Number of Utilities							
ASCC.....	0	23	1	7	30	21	82
ECAR.....	3	43	0	4	222	109	381
ERCOT.....	15	6	0	3	63	60	147
MAAC.....	6	18	0	0	50	19	93
MAIN.....	4	18	1	0	148	46	217
MAPP.....	4	14	0	37	452	182	689
NPCC.....	12	55	0	3	123	10	203
SERC.....	8	19	2	4	316	189	538
SPP.....	2	17	1	8	289	157	474
WSCC.....	11	27	5	79	172	139	433
Hawaii.....	0	3	0	0	0	0	3
U.S. Total.....	65	243	10	145	1,865	932	3,260
Percent							
ASCC.....	0	9	10	5	2	2	3
ECAR.....	5	18	0	3	12	12	12
ERCOT.....	23	2	0	2	3	6	5
MAAC.....	9	7	0	0	3	2	3
MAIN.....	6	7	10	0	8	5	7
MAPP.....	6	6	0	26	24	20	21
NPCC.....	18	23	0	2	7	1	6
SERC.....	12	8	20	3	17	20	17
SPP.....	3	7	10	6	15	17	15
WSCC.....	17	11	50	54	9	15	13
Hawaii.....	0	1	0	0	0	0	*

¹ The Federal Government both produces electricity and sells it at wholesale. Federal producers include the U.S. Army Corps of Engineers, Bureau of Indian Affairs, Bureau of Reclamation, and the International Boundary and Water Commission. The power marketing administrations of the U.S. Department of Energy are also federally owned utilities; they include the Alaska, Bonneville, Southeastern, Southwestern, and Western Area Power Administrations. The Tennessee Valley Authority both generates and markets electricity.

* The value of the number is less than 0.5 percent.

Notes: •NERC is the North American Electric Reliability Council. See glossary for a list of regions. •Power Marketers are classified as electric utilities. The authorization to participate in wholesale trade is given by the FERC. •Percentages may not total 100 because of independent rounding.

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

utilities. The amendment to the FPA will also affect electricity marketers, a relatively new group under FERC's jurisdiction. Marketers are business entities engaged in buying and selling electricity, but with no generating or transmission facilities. Marketers take ownership of the electricity and are involved in inter-

state trade. A number of energy marketers that may be involved in interstate electricity trade have filed with FERC and have had their rates authorized. When ownership of the electricity is not taken, then those transactions are not regulated by FERC (the parties handling the transactions are called brokers).

Figure 1. North American Electric Reliability Council Region Map for the United States

The Interconnected Networks

The U.S. bulk power system has evolved into three major networks (power grids), which also include smaller groupings or power pools. The major networks consist of extra-high voltage connections between individual utilities designed to permit the transfer of electrical energy from one part of the network to another. These transfers are restricted, on occasion, because of a lack of contractual arrangements or because of inadequate transmission capability (See Appendix C).

The three networks are (1) the Eastern Interconnected System, consisting of the eastern two-thirds of the United States; (2) the Western Interconnected System consisting primarily of the Southwest and areas west of the Rocky Mountains; and (3) the Texas Interconnected System. The latter is not interconnected with the other two networks (except by certain direct current lines). The two other networks have limited interconnections to each other. Both the Western and Texas Interconnect are linked with different parts of Mexico. The Eastern and Western Interconnects are completely integrated with most of Canada or have links to the Quebec Province power grid. Virtually all U.S. utilities are interconnected with at least one other utility by these three major grids. The exceptions are in Alaska and Hawaii. The interconnected utilities within each power grid coordinate operations and planning, and buy and sell power among themselves for the benefit of the customers.

Overall reliability planning and coordination of the interconnected power systems are the responsibility of the North American Electric Reliability Council (NERC). The NERC was voluntarily formed in 1968 by the electric utility industry as a result of the 1965 power failure in the Northeast. The regional councils cover the 48 contiguous States, part of Alaska,¹¹ and portions of Canada and Mexico (Figure 1) and are responsible for the overall coordination of bulk power policies that affect the reliability and adequacy of service in their areas. These councils also regularly exchange operating and planning information among their member utilities. The boundaries of the NERC regions follow the service areas of the electric utilities in the region. The service area of many electric utilities do not follow State boundaries. Hence, electric trade data are not available by State, but are presented by NERC regions, except for Hawaii

Wholesale Trade Transactions

Wholesale electricity trade has become a major contributor to systems operations in the U.S. electric utility industry. In this publication, wholesale, or bulk power, transactions are categorized and defined in accordance with FERC reporting requirements. Wholesale power transactions include purchases, sales for resale, exchanges, and wheeling (i.e., transmission services). Purchase transactions involve buying power from electric utilities and nonutility producers of electricity. Sales for resale transactions refer to power sold by one electric utility to one or more utilities for distribution to ultimate consumers. Exchanges involve trading electric energy when supply and demand conditions are mutually advantageous and reversible for the participating parties. Exchanges are often based on time-dependent excess capacity or diversity in load requirements. With exchange transactions, monetary repayment or replacement of energy may extend over several years.

¹¹ The Alaska System Coordinating Council (ASCC) is an affiliate member of NERC.

Table 2. Energy Account Balance by Class of Ownership, 1996
(Million Kilowatthours)

Item	Power Marketers	Investor-Owned	Federal ¹	State and Other Government	Municipals	Cooperatives	U.S. Total
Source of Energy							
Net Generation	44	2,272,095	309,182	196,028	145,904	176,735	3,099,989
Purchases from Utilities	216,405	667,356	12,539	86,469	298,684	400,126	1,681,579
Purchases from							
Nonutilities	1,382	224,571	2,143	486	1,344	474	230,400
Net Exchange ²	-20	-360	-15,505	2,497	1,328	363	-11,697
Received	1,912	70,440	34,432	10,531	13,093	26,235	156,642
Delivered	1,932	70,800	49,936	8,034	11,765	25,872	168,339
Net Wheeling ³	0	4,930	1,913	150	101	230	7,324
Received	0	305,254	69,050	9,666	25,103	8,712	417,784
Delivered	0	300,324	67,137	9,516	25,002	8,482	410,460
Disposition of Energy							
Sales to Ultimate Consumers	3,418	2,342,808	45,626	102,197	348,730	258,448	3,101,227
Requirements and Nonrequirements							
Sales for Resale	214,130	644,246	249,259	168,114	76,322	293,239	1,645,309
Energy Furnished							
Without Charge	0	3,152	230	1,234	1,417	173	6,205
Energy Used by Utility	0	5,301	1,369	5,454	1,282	480	13,886
Energy Losses ⁴	187	171,855	13,711	8,501	19,069	25,559	238,882

¹ Federal authorities use different accounting methods for reporting energy received from Federal generating assets; the energy may be reported as generation or purchases.

² Reported as power exchange in account 555, "Purchased Power Transactions," of the FERC Uniform System of Accounts.

³ Reported as transmission services in account 456, "Transmission For Others," and in account 565, "Transmission By Others," of the FERC Uniform System of Accounts.

⁴ These values are not measured; however, they represent losses and unaccounted for energy. These values are calculated in order that source and disposition of energy are equivalent.

Notes: •Annual net generation data shown here should be used only in comparison with other Form EIA-861 data. Total annual net generation data are published by the Energy Information Administration from its Form EIA-759, "Monthly Power Plant Report." •Source and disposition are the aggregation of data reported for each utility; these data are not additive due to double counting. Purchases from utilities, net exchange and net wheeling (except for imports) are included in net generation. Sales for resale are included in sales to ultimate consumers. •Imports and exports are included in purchases, sales for resale, net exchanges, and/or wheeling. •Due to the complexity of electric power transactions that involve specifics of contracts, simultaneous energy transactions, the unintended receipt and delivery of energy (inadvertent flow) and losses, uniformity in reporting the classification and quantity of each transaction among utilities may not exist. •Power Marketers are classified as electric utilities. The authorization to participate in wholesale trade is given by the FERC. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

Most bulk power transfers involve neighboring utilities whose systems are directly interconnected. At other times, however, bulk power transfers involve a third utility situated between two unconnected utilities that want to enter into a bulk power transaction. In that transaction, the third (intervening) utility allows its transmission lines to be used for bulk power transfers between the two other utilities. This intervening utility is providing a form of transmission service known as wheeling. Wheeling is generally defined as the movement of electricity from one system to another over the transmission facilities of an intervening system. (Technically, there is two-party wheeling: (1) seller and wheeler and (2) purchaser.) Wheeling is conducted under terms and conditions that ensure safety and reliability and that prevent the wheeling utility from being unfairly burdened with added costs.

Table 3 provides an overview of wholesale and retail transactions in the electric utility system by NERC region. The table includes data on net generation, purchases, energy losses, sales to ultimate consumers, and electric trade transactions. Electricity is purchased by all classes of electric utilities. Purchases from nonutilities accounted for over 7 percent of sales

to consumers in 1996. These purchases are made generally by utilities in whose service territories the nonutilities are located. Losses represent energy lost in transmission, distribution, and power unaccounted for, which amounted to nearly 8 percent of sales to consumers in 1996. Electricity inflows--purchases, exchanges-in, and wheeling-in--represent 73 percent of sales to consumers. Table 4 presents a historical view of electric trade flows (including net generation) and how components of electric trade changed for years 1988 through 1996.

Chapters 1 through 4 of this publication focus on purchases, sales for resale, exchanges, and wheeling of electricity (columns 4 and 5 of Table 3). Data for energy flows represent the summations of flows of energy between utilities in accordance with the provisions of their service agreements. These flows represent accounting transactions rather than metered flows. Detailed coverage of wholesale trade activities by NERC region for each class of ownership is presented in Chapters 2 through 4. The electricity transactions reported in the remaining chapters do not include transmission and distribution losses.

Categories of Wholesale Trade Transactions

There are two main types of bulk power transactions: coordination transactions and requirement transactions. Coordination transactions are interruptible and generally represent short term sales as contrasted to requirement transactions which usually are established for longer periods of time. Requirement transactions cover power supply contracts in which firm

service equates to the energy needs required by a designated customer base plus coverage of associated electrical losses and the electrical energy is supplied by other utilities. The duration of the sale and the type of capacity sold are key factors in determining the type and value of the transaction. The length of the sale can be 1 hour, several months, a year, or longer. Another type of transaction is an exchange in which the energy usually is returned in kind at a date agreed upon by both utilities.

Table 3. Components of Source and Disposition of Electricity by NERC Region, 1996

NERC Region	Net Generation	Energy Furnished and Used by Utility	Nonutility Purchases	Purchases, Exchange In, Wheeling In ¹	Sales for Resale, Exchange Out, Wheeling Out ²	Total Region Energy Loss	Sales to Ultimate Consumer
Energy (million kWh)							
ASCC.....	5,178	36	5	4,252	4,257	364	4,779
ECAR.....	528,214	1,258	15,861	267,574	292,869	33,689	483,750
ERCOT.....	218,497	315	25,220	221,729	212,683	16,227	236,131
MAAC.....	200,713	3,604	23,892	137,554	113,460	16,078	229,013
MAIN.....	231,315	786	517	78,449	72,968	16,424	220,042
MAPP.....	132,689	653	736	127,606	108,282	14,194	137,767
NPCC.....	185,521	794	56,207	269,310	249,748	18,656	241,366
SERC.....	740,784	2,472	31,276	436,039	442,377	48,083	715,118
SPP.....	276,205	1,100	6,090	198,805	181,240	21,551	277,115
WSCC.....	574,878	9,053	67,028	514,684	546,219	53,067	547,156
Hawaii.....	5,994	20	3,568	4	7	549	8,991
U.S. Total.....	3,099,989	20,092	230,400	2,256,006	2,224,109	238,882	3,101,227
Percent							
ASCC.....	*	*	*	*	*	*	*
ECAR.....	17	6	7	12	13	14	16
ERCOT.....	7	2	11	10	10	7	8
MAAC.....	6	18	10	6	5	7	7
MAIN.....	7	4	*	3	3	7	7
MAPP.....	4	3	*	6	5	6	4
NPCC.....	6	4	24	12	11	8	8
SERC.....	24	12	14	19	20	20	23
SPP.....	9	5	3	9	8	9	9
WSCC.....	19	45	29	23	25	22	18
Hawaii.....	*	*	2	*	*	*	*

¹ Includes all trade into and within the region and purchases, exchange in, and wheeling in for all utilities operating within the region.

² Includes all trade out of and within the region and sales for resale, exchange out, and wheeling out for all utilities operating within the region.

* The value of the number is less than 0.5 percent.

Notes: •Annual net generation data shown here should be used only in comparison with other Form EIA-861 data. Total annual net generation data are published by the Energy Information Administration from its Form EIA-759, "Monthly Power Plant Report." •NERC is the North American Electric Reliability Council. See glossary for a list of regions. •Table includes data from Power Marketers. •Totals may not equal sum of components because of independent rounding. Percentages may not total 100 because of independent rounding.

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

Firm sales usually involve the sale of capacity, meaning that either the associated energy will be taken by the purchaser or the purchaser will pay for the capacity during those periods when the energy is not taken. This payment is called a demand charge. The delivery is scheduled as part of the normal operating conditions of the affected electric systems. Firm capacity may be made available from the selling utility's entire pool of generating facilities or from a specific generating unit. The capacity offered in these transactions is usually for a specified period of time and negotiated in advance of the trade. The associated energy purchased through a capacity sale usually has a separate cost from the demand charge.

One of the most common types of firm power transactions involves the transfer of full or partial requirements power. Requirement contracts involve electric utilities that have either insufficient or no generating

capability to satisfy their customer load. These utilities negotiate long-term, firm power contracts in which the terms and conditions obligate the selling electric utility to provide the buying electric utility a level of service equivalent to the seller's requirement to support its retail customers. An electric utility purchasing requirement power may have contracts with more than one electric utility in order to cover their customer base.

Nonfirm sales, sometimes called energy, economy, or interruptible sales, rarely have a demand or capacity charge included in the price of the transaction. These transactions are typically for short periods and subject to curtailment or cessation of delivery by the supplier in accordance with prior agreements or under specified conditions. Electric utilities engage in these transactions in order to gain operational savings, such as avoiding the use of more expensive fuels and

selling electricity generated by the spillage of excess reservoir water through a water-driven turbine-generator.

In addition to domestic wholesale transactions, U.S. utilities have engaged in international trade agreements with utilities from Canada and Mexico that cover a number of transaction options. These options include purchasing nonfirm energy from relatively inexpensive renewable resources, such as hydroelectric facilities in Canada and geothermal facilities in Mexico; acquiring additional generating capability to support the requirements for supply at U.S. electric utilities; the holding of reservoir water to be turned into electricity; and sharing the benefits of coordinated planning between the systems. Total imports from Canada and Mexico equaled 1.5 percent of total sales to ultimate consumers in the United States (Table 3 and 18). Exports represented 0.3 percent of utility net generation in the United States.

Regional Receipts and Deliveries of Wholesale Power

A large amount of the electricity generated in the United States is traded under wholesale purchases and sales for resale contracts. The vast majority of wholesale transactions for investor-owned, Federal, and cooperative utilities involve utilities within the same NERC regional boundaries. Many of the differences between intra- and interregional wholesale power transactions result from the historical development of multiple transmission links among clusters of neighboring utilities. In addition, the development of shared interconnection and coordination agreements among these groups of utilities help delineate the regional operating boundaries of electric utilities.

In 1996, there was an increase of 23 percent in purchased power and exchanges received over the prior year. This trend held for sales for resale and exchanges delivered (26 percent). This percent increase from the year earlier was the largest single year increase and represents a significant increase in wholesale trade transactions when compared to all the prior year changes. The NERC regions of ERCOT, MAAC, NPCC, and WSCC all showed major increases. None of the contiguous NERC regions showed any declines (Table 4). A shift in the electric utility industry's practices happened. Competition in the wholesale transaction markets had started to replace split-the-savings trading.

Investor-owned electric utilities have led the other classes in both intra- and interregional purchases and sales for resale. Interregional sources provided nearly 15 percent of investor-owned purchases in 1996, up from 7 percent in 1994. Cooperatives made interre-

gional purchases of over 7 percent while Federal utilities purchased dropped 83 percent (Table 5).

As shown in Table 6, both firm and nonfirm sales for resale represented just over 96 percent of investor-owned utilities resale transactions. Firm purchases accounted for 42 percent of the total while nonfirm were at a higher level (56 percent). (There was very little miscellaneous sales for resale and purchased power transactions.) Utilities in NPCC followed by the WSCC region purchased the most electricity in the firm category and reverse positions for the nonfirm category. Utilities in the ECAR region sold the most in both categories in 1996. The impact of competition has also been felt in the firm and nonfirm categories of electricity transactions. The shift is evident in the percent change from 1990 to 1996. Nonfirm purchases and sale for resale increased by 126 and 79 percent, respectively, while firm purchases rose by 14 percent and sales for resale by 20 percent (Table 6).

Table 7 shows wheeling trade in the U.S. by NERC Region for the years 1988 through 1996. Utilities in the WSCC region continued to do the most wheeling. The level of which is more than double the next region (NPCC) and represented close to 40 percent of all wheeling.

National and Regional Highlights

The FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others," is used to collect annual data on electricity trade by quantity, cost, and revenue from investor-owned utilities. These data were used to construct the tables in Chapters 1 and 2 and show the quantity and value of firm and nonfirm electricity trade reported.

Purchases from all sources by major investor-owned utilities totaled 369.9 billion kilowatthours of firm power for \$18.6 billion and 496.6 billion kilowatthours of nonfirm energy for \$13.6 billion in 1996 (Table 8).

Investor-owned utilities exchanged approximately 69 billion kilowatthours of electricity with other utilities for both receipts and deliveries (Table 10). The most exchange activity occurred in ERCOT and WSCC, with 34 and 23 billion kilowatthours each in receipts and deliveries, respectively. Investor-owned electric utilities in the two regions accounted for 82 percent of exchanges with other utilities.

The exchanges reported with noninvestor-owned utilities in 1996 (Table 11), were mostly by Federal utilities, accounting for nearly half of the exchanges.

Table 4. Electric Trade in the United States by NERC Region and Hawaii, 1988 Through 1996
(Million Kilowatthours)

Year	Net Generation	Percent Change from Year Earlier	Purchases & Exchanges Received ¹	Percent Change from Year Earlier	Purchases & Exch. Rec. as Percent of Net Generation ¹	Sales to Ultimate Consumers	Percent Change from Year Earlier	Sales for Resale & Exchanges Delivered ²	Percent Change from Year Earlier	Sales for Resale & Exch. Del. as Percent of Sales to Ultimate Consumers ²
All Utilities in ASCC										
1996.....	5,178	5.1	3,437	0.0	66.4	4,779	3.2	3,437	2.3	71.9
1995.....	4,925	.2	3,438	5.5	69.8	4,631	2.2	3,359	3.3	72.5
1994.....	4,913	5.4	3,257	26.1	66.3	4,533	3.6	3,251	31.1	71.7
1993.....	4,660	-1.6	2,582	1.6	55.4	4,374	.8	2,480	-2.4	56.7
1992.....	4,735	1.8	2,543	7.6	53.7	4,338	2.0	2,542	8.8	58.6
1991.....	4,654	-1	2,363	.6	50.8	4,255	.0	2,336	.2	54.9
1990.....	4,660	1.8	2,347	2.9	50.4	4,253	2.7	2,330	3.8	54.8
1989.....	4,575	2.6	2,281	4.5	49.8	4,142	2.4	2,244	3.1	54.2
1988.....	4,460	1.1	2,183	4.9	48.9	4,045	2.6	2,177	3.8	53.8
All Utilities in ECAR										
1996.....	528,214	3.7	223,608	16.1	42.3	483,750	1.4	233,347	22.5	48.2
1995.....	509,468	3.5	192,620	14.6	37.8	477,126	3.8	190,512	13.0	39.9
1994.....	492,074	-5	168,139	-1.2	34.2	459,747	2.8	168,558	-9.0	36.7
1993.....	494,602	2.3	170,205	7.4	34.4	447,062	4.1	185,300	2.3	41.4
1992.....	483,530	-9	158,417	-4.2	32.8	429,591	-2	181,111	-5.3	42.2
1991.....	488,102	.6	165,313	-21.4	33.9	430,314	2.8	191,274	-22.2	44.4
1990.....	485,128	-5	210,322	13.8	43.3	418,732	.9	245,897	9.3	58.7
1989.....	487,659	.1	184,902	8.1	37.9	414,977	1.7	224,880	3.3	54.2
1988.....	487,040	5.1	170,991	13.4	35.1	408,171	4.7	217,724	12.4	53.3
All Utilities in ERCOT										
1996.....	218,497	3.8	226,921	83.6	103.9	236,131	6.1	192,674	99.6	81.6
1995.....	210,596	3.1	123,618	5.6	58.7	222,465	1.7	96,532	8.6	43.4
1994.....	204,256	3.1	117,023	-6	57.3	218,781	3.1	88,896	.8	40.6
1993.....	198,187	4.1	117,775	11.1	59.4	212,182	4.4	88,169	11.8	41.5
1992.....	190,442	-8	105,972	-4	55.6	203,206	-5	78,876	-2.4	38.8
1991.....	192,000	1.8	106,408	12.1	55.4	204,319	1.1	80,853	17.9	39.6
1990.....	188,586	1.9	94,932	2.0	50.3	202,090	3.3	68,580	1.8	33.9
1989.....	185,011	3.1	93,087	-7	50.3	195,648	1.7	67,372	.1	34.4
1988.....	179,442	3.3	93,782	4.0	52.3	192,367	4.3	67,269	1.7	35.0
All Utilities in HI										
1996.....	5,994	2.5	3,572	1.4	59.6	8,991	2.1	7	-39.0	0.1
1995.....	5,851	2.1	3,522	2.3	60.2	8,806	2.5	11	69.9	.1
1994.....	5,728	-1.1	3,444	10.9	60.1	8,593	3.2	6	26.9	.1
1993.....	5,790	-11.7	3,106	33.4	53.6	8,325	-1	5	65.5	.1
1992.....	6,555	-6.2	2,328	45.1	35.5	8,332	2.2	3	-39.2	.0
1991.....	6,991	-9.8	1,605	124.8	22.9	8,154	2.3	5	10.4	.1
1990.....	7,746	.7	714	57.9	9.2	7,968	4.2	5	38.6	.1
1989.....	7,692	2.6	452	-9.1	5.9	7,649	3.2	3	-96.3	.0
1988.....	7,499	5.6	497	3.3	6.6	7,411	5.4	89	6.6	1.2
All Utilities in MAAC										
1996.....	200,713	-1.5	141,174	41.7	70.3	229,013	0.6	93,282	63.3	40.7
1995.....	203,801	-1.2	99,614	19.8	48.9	227,532	1.7	57,120	17.8	25.1
1994.....	206,221	.3	83,121	4.0	40.3	223,635	1.6	48,485	2.0	21.7
1993.....	205,552	6.3	79,918	-3.5	38.9	220,037	4.4	47,526	-4.3	21.6
1992.....	193,330	-2.0	82,808	5.2	42.8	210,799	-9	49,637	9.2	23.5
1991.....	197,235	2.0	78,747	6.9	39.9	212,728	2.4	45,447	3.6	21.4
1990.....	193,393	-3	73,631	-5.5	38.1	207,770	.2	43,847	-6.6	21.1
1989.....	193,889	1.0	77,882	13.0	40.2	207,325	2.3	46,930	16.9	22.6
1988.....	191,874	3.4	68,904	7.3	35.9	202,705	5.8	40,141	-2.4	19.8
All Utilities in MAIN										
1996.....	231,315	0.8	71,270	16.6	30.8	220,042	0.6	65,418	18.4	29.7
1995.....	229,424	3.4	61,115	-9	26.6	218,728	2.1	55,271	2.8	25.3
1994.....	221,770	2.1	61,661	-2.0	27.8	214,304	3.5	53,774	-6.6	25.1
1993.....	217,284	8.5	62,911	20.2	28.9	207,004	3.2	57,590	54.4	27.8
1992.....	200,288	-3.2	52,321	-4.1	26.1	200,571	-6	37,302	-16.2	18.6
1991.....	206,906	2.6	54,585	-20.1	26.4	201,815	4.5	44,527	-28.4	22.1
1990.....	201,653	.5	68,308	9.2	33.9	193,068	2.5	62,174	4.7	32.2

See notes and footnotes at end of table.

Table 4. Electric Trade in the United States by NERC Region and Hawaii, 1988 Through 1996
(Million Kilowatthours) (Continued)

Year	Net Generation	Percent Change from Year Earlier	Purchases & Exchanges Received ¹	Percent Change from Year Earlier	Purchases & Exch. Rec. as Percent of Net Generation ¹	Sales to Ultimate Consumers	Percent Change from Year Earlier	Sales for Resale & Exchanges Delivered ²	Percent Change from Year Earlier	Sales for Resale & Exch. Del. as Percent of Sales to Ultimate Consumers ²
All Utilities in MAIN										
1989	200,660	1.0	62,575	10.1	31.2	188,425	1.6	59,407	8.1	31.5
1988	198,666	7.3	56,841	4.1	28.6	185,430	4.9	54,957	13.3	29.6
All Utilities in MAPP										
1996	132,689	1.6	110,598	15.9	83.3	137,767	2.4	91,825	16.0	66.6
1995	130,637	4.8	95,413	6.0	73.0	134,495	4.3	79,179	6.4	58.9
1994	124,607	-2	90,020	-2.6	72.2	128,935	3.9	74,417	-9.5	57.7
1993	124,808	4.0	92,441	-18.7	74.1	124,142	5.8	82,194	-22.0	66.2
1992	120,053	-2.4	113,672	8.1	94.7	117,283	-2.7	105,352	7.4	89.8
1991	122,991	1.9	105,175	-2.1	85.5	120,522	4.0	98,084	-3.7	81.4
1990	120,750	3.7	107,416	2.3	89.0	115,912	1.9	101,829	4.6	87.8
1989	116,410	-1.5	105,038	-1.8	90.2	113,692	.5	97,303	-4.3	85.6
1988	118,238	-3.4	106,950	9.3	90.4	113,136	8.1	101,686	.6	89.9
All Utilities in NPCC										
1996	185,521	1.4	261,814	24.8	141.1	241,366	1.2	186,348	39.7	77.2
1995	183,021	-3.4	209,724	5.7	114.6	238,492	-1	133,367	2.7	55.9
1994	189,546	-2.9	198,467	9.2	104.7	238,679	1.1	129,903	6.9	54.4
1993	195,140	-3.9	181,770	8.9	93.1	236,012	1.1	121,556	2.9	51.5
1992	202,978	-6.9	166,884	8.2	82.2	233,395	-1	118,108	-1.7	50.6
1991	218,053	-4.3	154,206	8.8	70.7	233,643	-4	120,113	1.6	51.4
1990	227,866	-2.5	141,784	.5	62.2	234,542	.4	118,194	-3.3	50.4
1989	233,624	4.3	141,102	.6	60.4	233,573	2.0	122,287	4.8	52.4
1988	223,996	5.6	140,299	.9	62.6	228,883	5.5	116,647	1.3	51.0
All Utilities in SERC										
1996	740,784	5.2	430,051	8.6	58.0	715,118	4.2	406,952	11.5	56.9
1995	703,899	3.8	396,027	6.3	56.3	686,458	4.6	364,803	6.2	53.1
1994	678,423	1.6	372,527	.3	54.9	656,478	2.9	343,568	-1.5	52.3
1993	667,464	4.6	371,528	5.7	55.7	638,223	4.8	348,749	5.1	54.6
1992	637,803	1.1	351,478	-5	55.1	609,139	1.2	331,739	-1.5	54.5
1991	630,562	3.1	353,214	-9	56.0	601,988	2.3	336,719	-7	55.9
1990	611,708	-1	356,296	-1.3	58.3	588,223	2.9	339,058	-4.0	57.6
1989	612,643	7.2	360,938	7.4	58.9	571,569	4.8	353,363	11.0	61.8
1988	571,541	2.1	336,170	2.3	58.8	545,250	4.3	318,412	-2.1	58.4
All Utilities in SPP										
1996	276,205	0.6	178,913	17.2	64.8	277,115	3.8	155,370	12.8	56.1
1995	274,475	5.6	152,607	2.7	55.6	266,912	3.8	137,801	5.6	51.6
1994	260,025	1.2	148,574	5.1	57.1	257,183	2.9	130,540	3.3	50.8
1993	256,901	5.9	141,319	9.9	55.0	249,891	6.2	126,397	9.1	50.6
1992	242,514	-8	128,586	.5	53.0	235,320	-1.3	115,901	1.2	49.3
1991	244,415	-1	127,898	6.1	52.3	238,328	.9	114,484	4.9	48.0
1990	244,762	2.4	120,583	.0	49.3	236,253	5.9	109,113	-4.9	46.2
1989	239,032	2.4	120,646	9.4	50.5	223,134	2.2	114,760	8.5	51.4
1988	233,396	.7	110,226	4.0	47.2	218,281	3.1	105,777	-1.3	48.5
All Utilities in WSCC										
1996	574,878	5.3	417,263	19.2	72.6	547,156	3.7	384,989	21.0	70.4
1995	546,208	1.6	349,960	1.7	64.1	527,641	.8	318,030	5.2	60.3
1994	537,399	1.9	344,109	-9	64.0	523,696	1.8	302,363	-1.2	57.7
1993	527,428	.9	347,224	-1.1	65.8	514,212	.6	306,168	-1	59.5
1992	522,863	-1	351,255	-2.1	67.2	511,352	1.1	306,540	-5.1	59.9
1991	523,468	-2.2	358,894	-1.7	68.6	505,936	.4	322,943	-3.9	63.8
1990	535,242	.9	364,977	13.7	68.2	503,744	3.5	336,091	10.0	66.7
1989	530,205	3.0	321,048	12.4	60.5	486,675	3.0	305,522	12.9	62.8
1988	514,622	5.8	285,590	-2	55.5	472,386	5.6	270,525	.2	57.3

See notes and footnotes at end of table.

Table 4. Electric Trade in the United States by NERC Region and Hawaii, 1988 Through 1996
(Million Kilowatthours) (Continued)

Year	Net Generation	Percent Change from Year Earlier	Purchases & Exchanges Received ¹	Percent Change from Year Earlier	Purchases & Exch. Rec. as Percent of Net Generation ¹	Sales to Ultimate Consumers	Percent Change from Year Earlier	Sales for Resale & Exchanges Delivered ²	Percent Change from Year Earlier	Sales for Resale & Exch. Del. as Percent of Sales to Ultimate Consumers ²
U.S. Total										
1996.....	3,099,989	3.3	2,068,621	22.6	66.7	3,101,227	2.9	1,813,648	26.3	58.5
1995.....	3,002,304	2.6	1,687,659	6.1	56.2	3,013,287	2.7	1,435,985	6.9	47.7
1994.....	2,924,961	.9	1,590,342	1.3	54.4	2,934,563	2.5	1,343,761	-1.6	45.8
1993.....	2,897,815	3.3	1,570,780	3.6	54.2	2,861,464	3.5	1,366,133	2.9	47.7
1992.....	2,805,092	-1.1	1,516,264	.5	54.0	2,763,324	.0	1,327,111	-2.2	48.0
1991.....	2,835,377	.5	1,508,408	-2.1	53.2	2,762,003	1.8	1,356,785	-4.9	49.1
1990.....	2,821,493	.4	1,541,310	4.8	54.6	2,712,555	2.5	1,427,118	2.4	52.6
1989.....	2,811,398	2.9	1,469,952	7.1	52.3	2,646,809	2.7	1,394,071	7.6	52.7
1988.....	2,730,774	3.8	1,372,433	4.0	50.3	2,578,062	4.9	1,295,403	2.0	50.3

¹ Includes all transactions received from outside and within the region by all utilities operating within the region.

² Includes all transactions delivered out of and within the region by all utilities operating within the region.

Notes:•NERC is the North American Electric Reliability Council. See glossary for a list of regions. •Table includes data from Power Marketers. •Percentages may not total 100 because of independent rounding.

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

Table 5. Intra- and Interregional Purchases and Sales for Resale by Selected Ownership Classes, 1990, 1992, 1994, and 1996
(Million Kilowatthours)

Type of Transaction /Ownership Class	Intraregional					Interregional				
	1996	1994	1992	1990	Total Percent Difference 1990-1996	1996	1994	1992	1990	Total Percent Difference 1990-1996
Purchases										
Investor-Owned.....	757,356 ^R	636,893	598,671	521,524	45.2	132,238	75,597	59,927	41,827	216.2
Federal ¹	13,747	17,827	17,948	8,476	62.2	452	1,576	1,705	2,637	-82.9
Cooperatives.....	308,528	289,444	266,864	257,467	19.8	24,003	16,766	14,234	15,905	50.9
Sales for Resale²										
Investor-Owned.....	547,442	467,479	452,442	373,897	46.4	109,583	62,206	61,928	70,284	55.9
Federal ¹	176,980	184,991	174,156	185,801	-4.7	16,456	13,255	12,973	11,764	39.9

¹ Federal authorities use different accounting methods for reporting energy received from Federal generating assets; the energy may be reported as generation or purchases. Federal data are presented as an aggregated fiscal year which ends on September 30.

² Detailed information for sales for resale by cooperative utilities is collected but not processed by the Rural Utilities Service, for prior years.

^R Revised.

Notes: •Excludes accounting adjustments to data which allows the actual linkage of dollars and quantity to the year in trade.

Sources: Energy Information Administration, Survey Management Division, calculated from data reported on Federal Energy Regulatory Commission (FERC) Form 1, "Annual Report of Major Electric Utilities, Licensees and Others," FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees"; Form EIA-412, "Annual Report of Public Electric Utilities"; Rural Utilities System (RUS), formerly Rural Electrification Administration (REA). For years 1990 and 1992, REA Form 7, "Financial and Statistical Report," REA Forms 12a through 12i, "Electric Power Supply Borrowers," and REA Forms 12c through 12g, "Electric Distribution Borrowers with Generating Facilities." For years 1994 and 1996, substitute RUS for REA in form name."

Table 6. Firm and Nonfirm Purchases and Sales for Resale by Investor-Owned Utilities, by NERC Region, 1990, 1992, 1994, and 1996
(Million Kilowatthours)

NERC Region	Firm					Nonfirm				
	1996	1994	1992	1990	Percent Change 1990-1996	1996	1994	1992	1990	Percent Change 1990-1996
Purchases by Investor-Owned Utilities										
ECAR.....	54,450	58,274	46,741	47,191	15.4	57,124	30,378	39,531	22,196	157.4
ERCOT.....	14,115	17,340	22,716	22,285	-36.7	19,715	9,574	5,141	3,399	480.0
MAAC.....	21,927	20,802	28,244	25,925	-15.4	86,235	47,385	38,994	14,340	501.3
MAIN.....	17,080	22,716	11,547	12,463	37.0	20,704	13,120	17,002	9,307	122.5
MAPP.....	16,833	15,373	13,652	6,193	171.8	14,180	10,103	12,701	13,744	3.2
NPCC.....	90,553	73,064	74,925	65,349	38.6	95,696	95,632	66,934	38,682	147.4
SERC.....	63,465	58,077	57,671	59,834	6.1	32,143	27,079	29,019	28,642	12.2
SPP.....	11,328	9,836	3,941	6,886	64.5	53,873	40,683	44,138	30,227	78.2
WSCC.....	80,111	86,251	83,037	78,397	2.2	116,896	52,536	46,206	59,163	97.6
Contiguous U.S. Total.....	369,860	361,733	342,472	324,524	14.0	496,567	326,490	299,666	219,700	126.0
Sales for Resale by Investor-Owned Utilities										
ECAR.....	80,710	77,159	78,719	75,359	7.1	65,332	37,339	53,251	42,054	55.4
ERCOT.....	8,028	5,901	6,599	8,232	-2.5	2,789	2,916	1,392	1,405	98.6
MAAC.....	29,819	9,994	13,978	6,372	367.9	32,028	32,141	28,411	9,186	248.7
MAIN.....	27,511	22,343	16,375	22,325	23.2	23,643	19,426	10,170	6,884	243.5
MAPP.....	9,563	7,909	9,828	6,789	40.9	9,262	8,205	8,728	11,175	-17.1
NPCC.....	50,322	52,985	53,816	47,578	5.8	51,615	43,311	37,964	19,337	166.9
SERC.....	42,640	35,234	42,960	44,051	-3.2	53,550	50,838	46,339	49,429	8.3
SPP.....	25,584	18,665	17,139	15,586	64.1	32,295	31,148	27,944	19,960	61.8
WSCC.....	30,196	27,894	29,962	27,516	9.7	57,193	29,955	23,210	23,380	144.6
Contiguous U.S. Total.....	304,372	258,084	269,376	253,809	19.9	327,707	255,279	237,409	182,809	79.3

Notes: •Miscellaneous transactions for the Purchased Power and Sales for Resale categories have been excluded. See Chapter 2 for a discussion of miscellaneous transactions. •Includes accounting adjustments to data (no dollars associated with megawatthour adjustments). Table 8 shows actual trade booked in 1996, but Table 6 shows adjustments (to include coming from prior year obligations) that affect the overall accounts of the utility. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See Glossary for a list of regions.

Source: Federal Energy Regulatory Commission (FERC) Form 1, "Annual Report of Major Electric Utilities, Licensees and Others," and FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

Tables

National and regional aggregates are presented at the end of this chapter for data covering:

- Purchases, sales for resale, and exchanges by investor-owned utilities with all ownership classes (Tables 8 through 10)
- Exchanges by noninvestor-owned utilities (Table 11)
- Wheeling transactions of investor-owned utilities (Tables 12 and 13)
- Regional purchases by cooperative borrowers (Table 14)
- Trading within and between regions by investor-owned utilities (Tables 15 and 16)
- Transactions of investor-owned utilities in Alaska and Hawaii (Table 17)
- U.S. electricity trade with Canada and Mexico (Table 18).

Sources of Data, 1996

Summary information for the United States are provided in Tables 1 through 4 and are obtained from the Form EIA-861 "Annual Electric Utility Report," which is a mandatory report filed by all U.S. electric utilities. The survey represents the collection of data from the complete universe of electric utilities. All other electric utility surveys cited in this publication represent subsets from the Form EIA-861 universe. Tables 5 through 36 include detailed information developed from direct filings of different surveys by 212 of the 243 investor-owned electric utilities; 504 of the 2,020 State and municipal electric utilities; 811 of the 932 cooperative electric utilities, and 8 of the 10 Federal utilities.¹² The detailed data represent subsets of the universe data provided in Tables 1 through 4. (The requirements for filing are discussed below.) Of the total number of electric utilities identified, but not required to file a detailed data collection form with a Federal agency, most have little generating capability and usually purchase part or all of their electrical energy from one or more of the electric

¹² The two Federal utilities that do not file the Form EIA-412 do not sell wholesale power. Electricity produced by these utilities is marketed by one or more of the Federal power marketing administrations.

utilities who did file. However, some do buy from cogenerators, cooperatives, or other utilities not required to file. The summary quantity of purchases made by these utilities are included in this publication (Tables 22, 31, and 35). These utilities were identified by matching the names of filing utilities and all the utilities listed on these filings with the universe frame of Form EIA-861, "Annual Electric Utility Report." Chapters 2 through 4 provide detailed data on individual electric utilities developed from the direct filings. However, if the direct filing indicates no wholesale trade transactions, then those electric utilities were not shown in the respective tables.

Some data for this publication come from sources outside of EIA. These include: (1) the Federal Energy Regulatory Commission (FERC), (2) the Rural Utilities Service (RUS) in the Department of Agriculture, and (3) the Office of Fossil Energy (FE) in the Department of Energy (see Table ES2). These agencies manage all aspects of their respective surveys and data base maintenance including quality control, frame maintenance, formatting of survey information, survey forms development, handling of nonresponse, and data imputation.

Chapter 1 gives an overview of bulk power trade and provides national and regional electric trade data by all ownership classes. These data come from several forms, as no form was specifically designed to collect electricity trade information from all ownership classes. International trade data are from Form FE-781R, "Annual Report of International Electrical Export/Import Data," (Table 18).

Chapter 2 presents data on bulk power transactions of "Major" and "Minor" investor-owned utilities. Major investor-owned electric utilities are defined as those private utilities that have had, in the past 3 consecutive calendar years, sales or transmission services that exceeded one of the following: 1 billion kilowatthours of total annual sales, 100,000 kilowatthours of annual sales for resale, 500,000 kilowatthours of annual gross interchange-out or 500,000 kilowatthours of transmission for others (wheeling). The criteria for classification as a minor utility are: (1) total annual sales of 10 million kilowatthours or more in the previous calendar year, and (2) not being classified as a major utility.

The investor-owned utilities shown in this publication report on FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others" and FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

The FERC forms are primarily financial reporting forms. The wholesale data are collected on 4 of the approximately 75 survey schedules of the FERC Form 1. The wholesale electricity trade schedules are sales for resale, purchased power, summary of interchange, and transmission of electricity for or by others. These electricity transactions are shown by utility class of ownership in Tables 19 through 24.

The investor-owned electric utilities that fall below the filing criteria for the FERC Forms 1 and 1-F are not required to file. Appendix Table B1 lists the major and minor utilities that file FERC Forms 1 and 1-F.

Data in Chapter 3 cover wholesale electricity trade for the 504 public utilities that report wholesale transactions on Form EIA-412, "Annual Report of Public Electric Utilities," which is used to collect data on purchased power and sales for resale transactions. The public utilities report information by fiscal year; therefore, consistent totals cannot be provided for these classes of ownership. Public electric utilities are required to submit Form EIA-412 when their generation, transmission, or distribution of electricity results in 120 million kilowatthours of sales to ultimate consumers and/or 120 million kilowatthours of sales for resale. Data on exchanges and wheeling in this chapter are reported on Form EIA-861, "Annual Electric Utility Report."

Chapter 4 presents data submitted to the Rural Utilities Service (RUS) of the U.S. Department of Agriculture by cooperative borrowers. The RUS collects information from all utilities that have "borrowed" under the RUS loan guarantee programs and uses the information to verify and administer its loan programs. Appendix Table B5 lists cooperative borrowers. Data covering electricity trade for cooperative borrowers are reported for a calendar-year basis on several closely related RUS forms: RUS Form 7, "Financial and Statistical Report," RUS Forms 12a through 12i, "Electric Power Supply Borrowers," and RUS Forms 12c through 12g, "Electric Distribution Borrowers with Generating Facilities." These forms are used to collect data on purchased power. Sales for resale transactions are not available in a machine-readable format from the RUS.

Compilation of Data

The Federal Government recognizes that wholesale trade data needs to be consolidated and automated. The EIA examined the data and initiated a process with the FERC to correct deficiencies. Responsibility for correcting errors and making contact with the FERC Form 1 respondents rests with the FERC. Principal among the problems with existing wholesale trade data are: (1) inconsistencies in reporting mutual transactions by buyers and sellers, (2) lack of uniformity and standardization in reporting, (3) lack of uniformity in reporting requirements among various forms including reporting periods, and (4) multiple and sometimes overlapping reporting and aggregation of individual transactions.

Many of these errors are identified by automated intraform range, arithmetic and logic checks, and interform consistency edits (for example, cross-checking between submissions of the respondents).

Table 7. Wheeling Trade in the United States by NERC Region, 1988 Through 1996
(Million Kilowatthours)

Wheeling	1996	1995	1994	1993	1992	1991	1990	1989	1988
All Utilities in ECAR									
Wheeling Received ¹	59,827	33,128	30,861	31,191	31,803	30,293	32,841	21,098	15,121
Wheeling Delivered ²	59,522	32,893	30,630	30,994	31,618	30,161	32,753	20,994	15,036
Wheeling Net.....	305	236	231	197	186	132	88	104	85
All Utilities in ERCOT									
Wheeling Received ¹	20,027	34,237	24,069	26,716	24,077	20,934	16,481	9,414	7,861
Wheeling Delivered ²	20,009	34,239	24,088	26,686	24,090	20,937	16,496	9,297	7,913
Wheeling Net.....	18	-1	-19	31	-13	-2	-14	117	-53
All Utilities in MAAC									
Wheeling Received ¹	20,272	14,915	11,789	13,132	9,868	5,842	5,774	8,385	7,482
Wheeling Delivered ²	20,177	14,548	11,720	13,030	9,779	5,842	5,774	8,360	7,465
Wheeling Net.....	95	367	69	103	88	—	—	24	16
All Utilities in MAIN									
Wheeling Received ¹	7,695	6,270	4,877	5,018	3,489	3,819	1,451	1,215	1,915
Wheeling Delivered ²	7,550	6,175	4,810	4,951	3,404	3,739	1,414	1,205	1,906
Wheeling Net.....	145	96	67	67	85	80	37	10	10
All Utilities in MAPP									
Wheeling Received ¹	17,744	17,816	19,038	16,781	11,661	9,484	8,477	9,208	7,804
Wheeling Delivered ²	16,457	16,596	18,417	16,130	10,847	7,935	7,656	8,197	6,705
Wheeling Net.....	1,287	1,220	620	651	814	1,549	821	1,012	1,098
All Utilities in NPCC									
Wheeling Received ¹	63,703	59,890	68,883	67,815	60,687	57,173	48,613	42,897	38,365
Wheeling Delivered ²	63,400	59,626	68,587	67,553	60,495	56,925	48,399	42,351	38,089
Wheeling Net.....	303	264	296	262	191	248	214	546	276
All Utilities in SERC									
Wheeling Received ¹	37,264	30,769	25,134	27,132	27,211	28,457	29,291	22,726	12,354
Wheeling Delivered ²	35,425	28,880	23,514	25,324	25,408	27,447	28,174	21,885	11,743
Wheeling Net.....	1,839	1,889	1,620	1,808	1,803	1,010	1,117	841	611
All Utilities in SPP									
Wheeling Received ¹	25,982	23,502	23,545	25,528	21,749	22,150	27,091	19,591	20,089
Wheeling Delivered ²	25,870	23,406	23,448	25,419	21,639	22,078	26,985	19,924	19,956
Wheeling Net.....	112	96	97	109	110	72	105	-333	133
All Utilities in WSCC									
Wheeling Received ¹	164,449	134,610	127,915	137,931	127,514	144,466	152,097	164,824	157,755
Wheeling Delivered ²	161,230	131,758	126,672	136,489	125,023	142,592	148,388	163,623	157,682
Wheeling Net.....	3,219	2,852	1,243	1,441	2,492	1,874	3,708	1,200	74
Contiguous U.S. Total									
Wheeling Received ¹	417,784	355,916	336,805	351,701	318,538	323,133	322,667	299,822	269,170
Wheeling Delivered ²	410,460	348,900	332,580	347,032	312,782	318,170	316,591	296,297	266,909
Wheeling Net.....	7,324	7,016	4,225	4,668	5,756	4,963	6,077	3,525	2,262

¹ Includes all transactions received from outside and within the region by all utilities operating within the region.

² Includes all transactions delivered out of and within the region by all utilities operating within the region.

—Not Applicable

Notes: •The States of Alaska and Hawaii are not included. •Aggregate 1992 bulk power data supplied by investor-owned electric utilities were matched to original filings made to the FERC. The FERC has again required investor-owned electric utilities to refile 1992 bulk power data. These revised data are shown in Tables 5-24 and represent the reclassification of data among purchased power, exchanges, and sales for resale accounts. The difference between the data series are the result of the reclassifications and adjustments made to the data. •Table includes data from Power Marketers. •NERC is the North American Electric Reliability Council. See glossary for a list of regions.

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

The Technical Notes provide more information on data linkages, revisions, and correction procedures used in editing data on wholesale electricity trade. In

addition, the corrections to these problems also serve as the foundation for future analytical work to improve reporting on EIA forms.

Limitations of Data Coverage, Reliability, and Quality

Electricity transactions have a wide range of terms and conditions designed to accommodate prevailing circumstances. Because of the lack of standardization in contract terminology, reporting of each transaction is not consistent across the industry. The lack of uniformity, combined with the complexity of the transactions, affects the accuracy of the data. This is further complicated by the accounting of simultaneous energy transactions, the receipt and delivery of energy caused by inadvertent flow, and the losses associated with transmission.

In developing the data base for ELECTRA, EIA has made a major effort to detect and correct respondent reporting errors, data processing issues, and problems with data interpretation. However, some error correction issues cannot be addressed by EIA since they involve survey design, operations decisions, and quality control procedures beyond EIA's control. A discussion of the error detection methods and the correction process used by EIA is described in the Technical Notes to this publication. The data within ELECTRA come from survey filings that are available to the public from the respective agency that is responsible for the survey form.

The major sources of incompatibility between data collection forms include: (1) different reporting years, (2) different reporting requirements, (3) different reporting of mutual transactions by purchasers and sellers, (4) lack of uniformity and standardization in the definitions of terms used in the industry, and (5) multiple reporting of individual transactions. The single greatest source of incompatibility is the different "reporting year" requirements of Form EIA-412 compared with the other forms. The annual data reported on Form EIA-412 by a public utility are based on that utility's fiscal year. The annual data reported on Form EIA-861, FERC Form 1, RUS Form 7, and RUS Form 12 are based on the calendar year.

The second largest source of incompatibility is the difference in reporting requirements among the forms. The four types of electric trade transactions and the forms used to collect them are as follows:

- Purchases--FERC Forms 1 and 1-F, Form EIA-412, RUS Form 7, RUS Form 12
- Sales for Resale--FERC Forms 1 and 1-F, Form EIA-412
- Exchanges--FERC Forms 1 and 1-F
- Wheeling--FERC Forms 1 and 1-F

Form EIA-861 is also used to gather information on all four types of transactions; the data, however, are submitted on energy flows rather than financial performance. EIA-861 data are at an aggregate level and do not identify buyers and sellers. These differences make it impossible to disaggregate the types of electric trade transactions across ownership classes for all

forms. This publication provides significantly more complete information on the investor-owned utilities than other ownership classes because of the greater detail collected on FERC Form 1.

Data received from FERC, RUS, and FE can be inconsistent with similar data collected by EIA. Some data elements from the survey forms used are not consistent within the same respondent filing (aggregations of detailed information within individual schedules accounts do not equal summary schedule accounts). Therefore, the detailed transaction information was used for the basis of aggregation and comparison. In other cases, megawatthours or revenue data may not sum to the totals reported to EIA. EIA attempts to resolve such inconsistencies, which often are related to how accounting adjustments (both positive and negative for dollars and megawatthours) are treated or accepted under the regulatory oversight. When cross form consistency cannot be achieved, the data used in ELECTRA is as "reported."

The data on wholesale electricity trade are collected on Federal survey data forms that are accounting-system based. These forms were designed for regulatory purposes to meet administrative and rate case needs of individual utilities as opposed to overall aggregate industry statistical and analytical purposes.

Data for the Commonwealth of Puerto Rico and the U.S. Trust Territories are excluded in this publication. Geographical location and electrical system isolation limit the usefulness of any wholesale trade data from these areas.

Average Unit Cost and Unit Revenue

This publication presents annual summations of electricity transactions (energy) with the corresponding revenue and cost information. Dividing cost or revenue by the transaction quantity gives the average cost or average revenue per unit of energy. However, it does not necessarily indicate the price specified in contracts.

Wholesale sales are transaction-specific and lose relevance when aggregated to classes of ownership and geographic regions. The price that any one utility charges another for wholesale energy comprises numerous system-specific factors. For example, the price of purchased power can consist of demand charges, energy charges, and facility charges. A demand charge is a fixed charge determined according to the maximum capacity demanded by the purchasing utility during a specified period of time. Demand charges, being fixed, are unaffected by the number of kilowatthours of energy purchased; therefore, the average charge per kilowatthour decreases as the volume of energy sales increases.

In addition to demand charges, wholesale electricity transactions are frequently subject to facility charges that include transmission, generation, and other system operating charges. These charges typically vary by ownership class, system characteristics, and region.

Furthermore, demand charges and energy charges are affected by time of delivery, quantity of energy, and reliability of supply. Typically, energy delivered during peak periods costs more than energy delivered during off-peak periods. Firm power, which can have a level of reliability similar to that given to a supplier's customers, costs more than economy energy. Economy energy is interruptible on short notice and replaces the more expensive firm power energy that is available to the purchaser.

For electric trade transactions, the average revenue or cost per unit of energy, calculated by dividing the revenue or cost by the associated energy, is not a substitute for total price. Electric trade transactions are comprised of various energy transactions of different value. Differences in average revenue or cost per unit of energy may represent a difference in the operating conditions rather than a difference in price structure. The quantity and value numbers presented represent the summation of all trade in that category for a year. Individual prices associated with a particular trade, the impact of seasonal and peak usage, and contract specific conditions cannot be separated from the aggregate. The reader is cautioned against using unit revenue or cost as a substitute for true price.

Account Adjustments

Utilities must adjust the current year data to reflect not only the corrections in accounting for physical flows but also any regulatory and court decisions. Rate case rebates, meter adjustments, and inadvertent power flow corrections are examples of these changes.

Both negative and positive adjustments are present in the revenue, cost, and quantity of trade numbers. Negative and positive numbers in the interchange tables represent a direction of flow--positive is a receipt and negative is a delivery. In the purchased power and sales for resale tables, data (either positive or negative) represent either the booking of accounting adjustments or reversal in payments and energy flows.

Transmission of power from generating facilities under joint ownership can be reported in several ways. Typically, joint owners operate with interconnected transmission networks under mutually beneficial service agreements. The actual transfer of energy across transmission systems is usually considered a nonmonetary transaction and not a wholesale transaction. When a joint owner lacks an interconnected path to the generating facility, the actual flow of energy is subject to the transmission service of the wheeling third party, accounted for as a monetary transaction, and reported as "Transmission For Others."

In some of the tables, data categorized as "Other" include power pool data, international trade transactions, and any nonutility generated electricity purchased. This information is often reported in a manner that prevents the identification of the buyer and/or seller.

Appendices

Appendix A identifies the regulatory guidance provided by FERC through its Uniform System of Accounts and selected instructions provided on FERC Form 1.

Appendix B contains the location, NERC region, and data source of each utility for the 1996 filings used in this report. The information is presented by the utility forms: (1) FERC Form 1 and 1-F (Investor-Owned); (2) Form EIA-412 (Federal, State and Other Government Utilities, and Municipalities); (3) RUS Form 7 and RUS Form 12 (Cooperatives); (4) Form EIA-861 (Wheeling and Exchanges for Noninvestor-Owned Utilities); and (5) Energy Marketing (brokering-where ownership of power is transferred) Groups under FERC jurisdictional authority.

Appendix C contains a description of the fundamentals of electric power transmission, the control and operation of electric systems, and an overview of integrating NUGs into the power grid.

Technical Notes (Appendix D) describe the linkages and revisions made to the various data collection systems used in preparing this publication. The Notes also explain data quality and correction procedures used. Copies of the collected data are available to the public. See "Obtaining Copies of the Data" in the Notes for further information.

Glossary

A glossary of terms has been included to assist non-technical as well as technical users in understanding the statistical data in this publication.

Table 8. Electricity Purchases by Investor-Owned Utilities, by NERC Region, 1996

Sellers by Ownership Class	Demand Charge Only ¹ (dollars)	Firm				Purchases (thousand kWh)
		Demand Cost (dollars)	Energy Cost (dollars)	Other Cost (dollars)	Total Cost (dollars)	
Investor-Owned Utilities in ECAR						
Investor-Owned	120,893	316,677,024	598,361,380	-27,460,718	887,577,686	32,824,870
Federal	—	—	—	—	—	—
State and Other						
Government	33,214	—	—	—	—	—
Municipals	—	7,958,234	20,343,719	—	28,301,953	1,495,395
Cooperatives	—	1,805,370	14,692,269	—	16,497,639	657,342
Other ²	4,720	546,386,761	399,652,286	-789,285	945,249,762	19,471,920
Total	158,827	872,827,389	1,033,049,654	-28,250,003	1,877,627,040	54,449,527
Investor-Owned Utilities in ERCOT						
Investor-Owned	1,084,720	73,970,672	56,697,260	1,263,578	131,931,510	2,590,549
Federal	—	—	—	—	—	—
State and Other						
Government	—	3,153,658	9,124,177	1,088,337	13,366,172	371,740
Municipals	—	—	—	—	—	—
Cooperatives	—	—	—	—	—	—
Other ²	—	275,569,553	278,263,858	—	553,833,411	11,152,716
Total	1,084,720	352,693,883	344,085,295	2,351,915	699,131,093	14,115,005
Investor-Owned Utilities in MAAC						
Investor-Owned	4,261,649	269,215,682	411,239,727	676,363	681,131,772	13,925,950
Federal	—	—	—	—	—	—
State and Other						
Government	—	396,211	1,955,514	—	2,351,725	99,399
Municipals	—	1,786,213	5,766,443	—	7,552,656	244,802
Cooperatives	—	1,941,811	9,652,283	—	11,594,094	457,012
Other ²	—	45,027,054	179,794,496	330,506	225,152,056	7,199,971
Total	4,261,649	318,366,971	608,408,463	1,006,869	927,782,303	21,927,134
Investor-Owned Utilities in MAIN						
Investor-Owned	1,312,500	103,873,327	265,151,205	8,843	369,033,375	14,770,331
Federal	—	3,237,123	23,099,199	—	26,336,322	1,048,494
State and Other						
Government	—	—	—	—	—	—
Municipals	—	42,770	1,094,469	—	1,137,239	57,350
Cooperatives	2,209,661	884,077	2,577,905	—	3,461,982	119,450
Other ²	—	2,320,595	24,958,538	—	27,279,133	1,083,880
Total	3,522,161	110,357,892	316,881,316	8,843	427,248,051	17,079,505
Investor-Owned Utilities in MAPP						
Investor-Owned	—	43,513,233	46,534,444	1,133,465	91,181,142	3,012,638
Federal	—	—	—	—	—	—
State and Other						
Government	—	20,162,367	8,978,704	—	29,141,071	840,643
Municipals	82,750	989,886	605,550	—	1,595,436	23,445
Cooperatives	1,995,851	82,410,862	50,200,045	645,959	133,256,866	4,945,045
Other ²	—	77,434,495	116,818,908	408,471	194,661,874	8,010,856
Total	2,078,601	224,510,843	223,137,651	2,187,895	449,836,389	16,832,627

See notes and footnotes at end of table.

Table 8. Electricity Purchases by Investor-Owned Utilities, by NERC Region, 1996
(Continued)

Sellers by Ownership Class	Nonfirm			Miscellaneous ²		Region Total	
	Energy Cost (dollars)	Other Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
Investor-Owned Utilities in ECAR							
Investor-Owned	480,208,960	14,481,159	20,103,844	302,127,013	10,086,118	1,684,515,711	63,014,832
Federal	9,701,788	—	443,138	—	—	9,701,788	443,138
State and Other							
Government	3,912,615	—	252,514	—	—	3,945,829	252,514
Municipals	494,242	—	48,914	—	-552	28,796,195	1,543,757
Cooperatives	10,421,673	—	544,095	—	—	26,919,312	1,201,437
Other ³	675,649,657	-3,717	35,731,439	5,038,604	288,186	1,625,939,026	55,491,545
Total	1,180,388,935	14,477,442	57,123,944	307,165,617	10,373,752	3,379,817,861	121,947,223
Investor-Owned Utilities in ERCOT							
Investor-Owned	13,860,178	147,784	432,711	-70,176	—	146,954,016	3,023,260
Federal	728,007	—	24,144	—	—	728,007	24,144
State and Other							
Government	4,222,825	34,035	236,407	—	—	17,623,032	608,147
Municipals	44,718,672	103,885	2,275,931	1,340	—	44,823,897	2,275,931
Cooperatives	904,013	-95,072	53,099	—	—	808,941	53,099
Other ³	377,486,373	185,771	16,692,443	-55	44,617	931,505,500	27,889,776
Total	441,920,068	376,403	19,714,735	-68,891	44,617	1,142,443,393	33,874,357
Investor-Owned Utilities in MAAC							
Investor-Owned	519,859,316	149,550,261	26,774,258	40,229,959	1,577,873	1,395,032,957	42,278,081
Federal	29,337	—	—	—	—	29,337	—
State and Other							
Government	919,382	—	55,524	—	—	3,271,107	154,923
Municipals	122,254,720	1,335,030	2,106,740	—	—	131,142,406	2,351,542
Cooperatives	2,514,690	—	177,289	5,538,905	—	19,647,689	634,301
Other ³	1,827,167,070	170,987,202	57,121,634	25,997,836	-26,208	2,249,304,164	64,295,397
Total	2,472,744,515	321,872,493	86,235,445	71,766,700	1,551,665	3,798,427,660	109,714,244
Investor-Owned Utilities in MAIN							
Investor-Owned	226,079,598	6,268,910	12,352,307	—	—	602,694,383	27,122,638
Federal	14,160,202	—	907,240	—	—	40,496,524	1,955,734
State and Other							
Government	115,587	—	6,170	—	—	115,587	6,170
Municipals	1,177,584	—	39,980	—	—	2,314,823	97,330
Cooperatives	41,281,789	1,900,000	2,760,532	—	23,588	48,853,432	2,903,570
Other ³	98,020,334	—	4,637,507	-124,226	91,306	125,175,241	5,812,693
Total	380,835,094	8,168,910	20,703,736	-124,226	114,894	819,649,990	37,898,135
Investor-Owned Utilities in MAPP							
Investor-Owned	56,401,591	179,195	3,047,838	216,303,805	5,316,876	364,065,733	11,377,352
Federal	42,405,092	15,656	3,367,041	—	-55,656	42,420,748	3,311,385
State and Other							
Government	32,220,769	82,701,712	4,176,156	—	—	144,063,552	5,016,799
Municipals	7,759,309	3,387	493,239	—	—	9,440,882	516,684
Cooperatives	36,346,910	9,468	2,221,922	171,617	—	171,780,712	7,166,967
Other ³	18,153,791	37,131	873,988	109,544	1,042	212,962,340	8,885,886
Total	193,287,462	82,946,549	14,180,184	216,584,966	5,262,262	944,733,967	36,275,073

See notes and footnotes at end of table.

Table 8. Electricity Purchases by Investor-Owned Utilities, by NERC Region, 1996
(Continued)

Sellers by Ownership Class	Demand Charge Only ¹ (dollars)	Firm				Purchases (thousand kWh)
		Demand Cost (dollars)	Energy Cost (dollars)	Other Cost (dollars)	Total Cost (dollars)	
Investor-Owned Utilities in NPCC						
Investor-Owned	10,099,103	1,480,737,343	817,100,234	273,180,613	2,571,018,190	43,283,912
Federal	—	—	—	—	—	—
State and Other						
Government	12,944,171	111,591,161	184,291,829	19,538,959	315,421,949	16,815,741
Municipals	—	5,618,355	3,254,744	—	8,873,099	117,245
Cooperatives	—	52,815	—	—	52,815	558
Other ²	-5,783,837	700,222,057	1,079,343,421	13,040,972	1,792,606,450	30,335,298
Total	17,259,437	2,298,221,731	2,083,990,228	305,760,544	4,687,972,503	90,552,754
Investor-Owned Utilities in SERC						
Investor-Owned	6,141,978	159,735,710	218,581,581	-1,213,541	377,103,750	11,436,748
Federal	—	—	—	—	—	—
State and Other						
Government	—	78,304,596	36,415,739	—	114,720,335	2,184,977
Municipals	492,480	237,771,983	82,191,130	958,055	320,921,168	6,172,721
Cooperatives	16,650	27,108,974	56,303,499	-1,311	83,411,162	2,878,624
Other ²	325,000	1,376,252,241	1,002,905,582	2,955	2,379,160,778	40,791,487
Total	6,976,108	1,879,173,504	1,396,397,531	-253,842	3,275,317,193	63,464,557
Investor-Owned Utilities in SPP						
Investor-Owned	—	657,445,214	73,721,635	-1,819,643	729,347,206	9,788,779
Federal	—	—	—	—	—	—
State and Other						
Government	—	1,558,688	4,845,099	—	6,403,787	320,705
Municipals	992,250	2,745,029	1,173,322	—	3,918,351	78,450
Cooperatives	25,000	14,768,582	14,410,646	—	29,179,228	683,451
Other ²	—	5,441,316	7,575,802	—	13,017,118	456,396
Total	1,017,250	681,958,829	101,726,504	-1,819,643	781,865,690	11,327,781
Investor-Owned Utilities in WSCC						
Investor-Owned	36,838,560	309,422,113	175,597,281	73,709	485,093,103	10,386,267
Federal	88,159,629	5,740,790	28,951,876	-204,602	34,488,064	1,388,868
State and Other						
Government	1,394,500	59,455,181	49,620,969	1,029,062	110,105,212	2,735,288
Municipals	2,388,200	41,758,248	52,049,113	-1,078,788	92,728,573	1,476,871
Cooperatives	—	121,246,097	65,684,865	—	186,930,962	4,078,648
Other ²	14,321,461	1,525,146,162	3,046,109,326	7,648,671	4,578,904,159	60,044,712
Total	143,102,350	2,062,768,591	3,418,013,430	7,468,052	5,488,250,073	80,110,654
Contiguous U.S. Total						
Investor-Owned	59,859,403	3,414,590,318	2,662,984,747	245,842,669	6,323,417,734	142,020,044
Federal	88,159,629	8,977,913	52,051,075	-204,602	60,824,386	2,437,362
State and Other						
Government	14,371,885	274,621,862	295,232,031	21,656,358	591,510,251	23,368,493
Municipals	3,955,680	298,670,718	166,478,490	-120,733	465,028,475	9,666,279
Cooperatives	4,247,162	250,218,588	213,521,512	644,648	464,384,748	13,820,130
Other ²	8,867,344	4,553,800,234	6,135,422,217	20,642,290	10,709,864,741	178,547,236
Total	179,461,103	8,800,879,633	9,525,690,072	288,460,630	18,615,030,335	369,859,544

See notes and footnotes at end of table.

Table 8. Electricity Purchases by Investor-Owned Utilities, by NERC Region, 1996
(Continued)

Sellers by Ownership Class	Nonfirm			Miscellaneous ²		Region Total	
	Energy Cost (dollars)	Other Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
Investor-Owned Utilities in NPCC							
Investor-Owned	574,422,752	524,206,293	33,488,665	13,903,111	565	3,693,649,449	76,773,142
Federal	—	—	—	—	—	—	—
State and Other							
Government	17,465,458	31,453	820,081	182,680	26,058	346,045,711	17,661,880
Municipals	74,456,071	333,086	1,041,596	—	—	83,662,256	1,158,841
Cooperatives	1,416,245	11,320,777	240,549	—	—	12,789,837	241,107
Other ³	3,029,038,366	122,182,535	60,105,285	8,136,256	-5,686	4,946,179,770	90,434,897
Total	3,696,798,892	658,074,144	95,696,176	22,222,047	20,937	9,082,327,023	186,269,867
Investor-Owned Utilities in SERC							
Investor-Owned	354,796,455	61,681	13,740,001	—	-3,602	738,103,864	25,173,147
Federal	16,390,608	—	812,569	—	—	16,390,608	812,569
State and Other							
Government	3,796,047	—	154,404	—	—	118,516,382	2,339,381
Municipals	24,650,633	170	1,150,987	—	—	346,064,451	7,323,708
Cooperatives	40,846,684	2,855	2,250,175	—	5,179	124,277,351	5,133,978
Other ³	316,220,962	4,448,621	14,034,770	—	187,566	2,700,155,361	55,013,823
Total	756,701,389	4,513,327	32,142,906	—	189,143	4,043,508,017	95,796,606
Investor-Owned Utilities in SPP							
Investor-Owned	140,518,717	136,949	7,845,062	8,357,642	551,012	878,360,514	18,184,853
Federal	169,431,486	9,600	8,268,074	2,118	94	169,443,204	8,268,168
State and Other							
Government	21,780,248	3,305,851	1,375,969	59,380	2,934	31,549,266	1,699,608
Municipals	9,552,051	1,461,625	537,294	5,746	62,467	15,930,023	678,211
Cooperatives	144,256,028	22,787,500	7,300,646	2,934	1,132,568	196,250,690	9,116,665
Other ³	700,299,720	193,575,763	28,545,919	13,424,263	674,081	920,316,864	29,676,396
Total	1,185,838,250	221,277,288	53,872,964	21,852,083	2,423,156	2,211,850,561	67,623,901
Investor-Owned Utilities in WSCC							
Investor-Owned	355,116,977	434,616	22,630,566	1,033,017	228,243	878,516,273	33,245,076
Federal	323,318,249	426,616	23,524,952	3,833,708	—	450,226,266	24,913,820
State and Other							
Government	272,317,739	20,250	26,439,942	39,914,715	2,994,294	423,752,416	32,169,524
Municipals	84,352,400	515,526	4,000,407	-4,152,516	-74,262	175,832,183	5,403,016
Cooperatives	34,613,378	1,000,400	2,395,079	75,238	—	222,619,978	6,473,727
Other ³	862,280,581	48,167,456	37,905,530	-75,068,196	38,834	5,428,605,461	97,989,076
Total	1,931,999,324	50,564,864	116,896,476	-34,364,034	3,187,109	7,579,552,577	200,194,239
Contiguous U.S. Total							
Investor-Owned	2,721,264,544	695,466,848	140,415,252	581,884,371	17,757,085	10,381,892,900	300,192,381
Federal	576,164,769	451,872	37,347,158	3,835,826	-55,562	729,436,482	39,728,958
State and Other							
Government	356,750,670	86,093,301	33,517,167	40,156,775	3,023,286	1,088,882,882	59,908,946
Municipals	369,415,682	3,752,709	11,695,088	-4,145,430	-12,347	838,007,116	21,349,020
Cooperatives	312,601,410	36,925,928	17,943,386	5,788,694	1,161,335	823,947,942	32,924,851
Other ³	7,904,316,854	539,580,762	255,648,515	-22,485,974	1,293,738	19,140,143,727	435,489,489
Total	12,240,513,929	1,362,271,420	496,566,566	605,034,262	23,167,535	33,002,311,049	889,593,645

¹ Monetary settlements from contracts where electricity is not taken.

² Includes other transactions involving line and substation rentals, system support charges, and special contract transactions.

³ Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See glossary for a list of regions. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

Table 9. Electricity Sales for Resale by Investor-Owned Utilities, by NERC Region, 1996

Purchasers by Ownership Class	Demand Charge Only ¹ (dollars)	Firm				Sales (thousand kWh)
		Demand Revenue (dollars)	Energy Revenue (dollars)	Other Revenue (dollars)	Total Revenue (dollars)	
Investor-Owned Utilities in ECAR						
Investor-Owned	556,381	436,983,128	887,941,603	-11,662,658	1,313,262,073	50,338,284
Federal	—	685,213	2,146,095	—	2,831,308	106,165
State and Other						
Government	—	18,980,799	36,050,233	-3,784,151	51,246,881	2,188,568
Municipals	1,929,277	213,401,969	262,633,416	-18,126,352	457,909,033	13,644,282
Cooperatives	—	88,170,391	107,295,362	-2,361,258	193,104,495	6,330,969
Other ²	333,334	17,119,359	152,737,058	10,231	169,866,648	8,102,135
Total	2,818,992	775,340,859	1,448,803,767	-35,924,188	2,188,220,438	80,710,403
Investor-Owned Utilities in ERCOT						
Investor-Owned	2,574,672	78,691,608	15,346,711	36,085,551	130,123,870	2,438,089
Federal	—	—	—	—	—	—
State and Other						
Government	—	—	—	—	—	—
Municipals	—	6,917,484	5,320,411	9,151,256	21,389,151	675,054
Cooperatives	—	99,514,118	66,588,491	24,979,168	191,081,777	4,196,820
Other ²	—	2,358,490	16,135,316	183,635	18,677,441	717,751
Total	2,574,672	187,481,700	103,390,929	70,399,610	361,272,239	8,027,714
Investor-Owned Utilities in MAAC						
Investor-Owned	—	55,643,194	319,387,139	339,338	375,369,671	14,986,879
Federal	—	680,346	7,809,442	—	8,489,788	402,463
State and Other						
Government	—	502,272	5,439,920	—	5,942,192	282,667
Municipals	—	28,679,489	49,319,706	-456,714	77,542,481	2,091,109
Cooperatives	—	85,196,527	95,102,775	-5,948,270	174,351,032	3,601,810
Other ²	628,990	36,756,200	194,136,375	357,094	231,249,669	8,453,692
Total	628,990	207,458,028	671,195,357	-5,708,552	872,944,833	29,818,620
Investor-Owned Utilities in MAIN						
Investor-Owned	30,000	108,897,678	267,905,735	-697,175	376,106,238	13,749,697
Federal	—	—	—	—	—	—
State and Other						
Government	—	—	—	—	—	—
Municipals	53,760	103,230,481	165,158,042	-15,664,580	252,723,943	7,656,870
Cooperatives	—	65,675,199	39,815,875	381,604	105,872,678	2,535,308
Other ²	-1,194,972	2,178,692	59,614,015	2,720	61,795,427	3,568,740
Total	-1,111,212	279,982,050	532,493,667	-15,977,431	796,498,286	27,510,615
Investor-Owned Utilities in MAPP						
Investor-Owned	808,975	41,731,087	85,621,748	-162,423	127,190,412	6,199,491
Federal	—	—	—	—	—	—
State and Other						
Government	—	5,533	2,876	416	8,825	261
Municipals	—	40,296,771	49,037,379	4,721,040	94,055,190	3,066,097
Cooperatives	69,200	1,672,262	3,182,777	216,157	5,071,196	182,378
Other ²	161,245	909,437	1,566,805	18,791	2,495,033	115,020
Total	1,039,420	84,615,090	139,411,585	4,793,981	228,820,656	9,563,247

See notes and footnotes at end of table.

Table 9. Electricity Sales for Resale by Investor-Owned Utilities, by NERC Region, 1996
(Continued)

Purchasers by Ownership Class	Nonfirm			Miscellaneous ²		Region Total	
	Energy Revenue (dollars)	Other Revenue (dollars)	Sales (thousand kWh)	Revenue (dollars)	Sales (thousand kWh)	Revenue (dollars)	Sales (thousand kWh)
Investor-Owned Utilities in ECAR							
Investor-Owned	583,817,936	30,637,900	22,692,419	141,355,885	761,716	2,069,630,175	73,792,419
Federal	23,453,845	1,915,903	1,022,684	—	—	28,201,056	1,128,849
State and Other							
Government	8,799,874	1,104,760	467,455	—	—	61,151,515	2,656,023
Municipals	13,272,336	2,823,723	701,778	5,400	—	475,939,769	14,346,060
Cooperatives	27,938,026	1,788,128	1,457,608	—	637	222,830,649	7,789,214
Other ³	698,966,236	3,962,440	38,989,636	56,464,590	6,011,148	929,593,248	53,102,919
Total	1,356,248,253	42,232,854	65,331,580	197,825,875	6,773,501	3,787,346,412	152,815,484
Investor-Owned Utilities in ERCOT							
Investor-Owned	18,207,454	1,893,076	641,556	1,115	—	152,800,187	3,079,645
Federal	—	—	—	—	—	—	—
State and Other							
Government	4,912,622	49,581	168,394	—	—	4,962,203	168,394
Municipals	14,553,881	1,611,506	577,132	-7,725	—	37,546,813	1,252,186
Cooperatives	2,829,939	103,659	131,106	—	—	194,015,375	4,327,926
Other ³	31,766,056	471,161	1,271,287	1,156,309	580	52,070,967	1,989,618
Total	72,269,952	4,128,983	2,789,475	1,149,699	580	441,395,545	10,817,769
Investor-Owned Utilities in MAAC							
Investor-Owned	238,620,814	198,398,593	14,607,012	122,974,917	5,506,297	935,363,995	35,100,188
Federal	—	—	—	—	—	8,489,788	402,463
State and Other							
Government	79,108	—	4,088	—	—	6,021,300	286,755
Municipals	19,454,313	214,169	758,337	—	21,701	97,210,963	2,871,147
Cooperatives	805,642	—	36,595	—	—	175,156,674	3,638,405
Other ³	359,648,796	12,646,460	16,622,012	82,299,755	3,145,496	686,473,670	28,221,200
Total	618,608,673	211,259,222	32,028,044	205,274,672	8,673,494	1,908,716,390	70,520,158
Investor-Owned Utilities in MAIN							
Investor-Owned	197,739,370	1,415,774	11,768,946	—	1,551	575,291,382	25,520,194
Federal	13,118,068	—	762,047	—	—	13,118,068	762,047
State and Other							
Government	—	—	—	—	—	—	—
Municipals	57,645,269	2,008,500	2,077,760	—	—	312,431,472	9,734,630
Cooperatives	34,067,843	—	1,135,492	—	—	139,940,521	3,670,800
Other ³	91,389,185	344,050	7,898,876	—	—	152,333,690	11,467,616
Total	393,959,735	3,768,324	23,643,121	—	1,551	1,193,115,133	51,155,287
Investor-Owned Utilities in MAPP							
Investor-Owned	73,590,298	2,088,780	4,925,794	173,395,725	5,728,200	377,074,190	16,853,485
Federal	940,794	925	75,098	—	—	941,719	75,098
State and Other							
Government	9,107,319	55,303	532,541	—	—	9,171,447	532,802
Municipals	14,466,686	354,290	898,245	-1,507	—	108,874,659	3,964,342
Cooperatives	31,851,952	1,224,981	2,139,012	—	—	38,217,329	2,321,390
Other ³	9,446,117	444,446	691,317	-44,706	-7,463	12,502,135	798,874
Total	139,403,166	4,168,725	9,262,007	173,349,512	5,720,737	546,781,479	24,545,991

See notes and footnotes at end of table.

Table 9. Electricity Sales for Resale by Investor-Owned Utilities, by NERC Region, 1996
(Continued)

Purchasers by Ownership Class	Demand Charge Only ¹ (dollars)	Firm				Sales (thousand kWh)
		Demand Revenue (dollars)	Energy Revenue (dollars)	Other Revenue (dollars)	Total Revenue (dollars)	
Investor-Owned Utilities in NPCC						
Investor-Owned	20,050	1,450,013,010	794,823,216	291,244,671	2,536,080,897	42,892,312
Federal	—	—	—	—	—	—
State and Other						
Government	—	439,137	8,663,431	—	9,102,568	492,971
Municipals	470,006	81,261,669	49,190,251	5,004,670	135,456,590	2,731,690
Cooperatives	2,460	20,054,027	36,509,178	-2,272,316	54,290,889	755,680
Other ²	—	34,528,821	57,886,691	763,578	93,179,090	3,449,211
Total	492,516	1,586,296,664	947,072,767	294,740,603	2,828,110,034	50,321,864
Investor-Owned Utilities in SERC						
Investor-Owned	6,169,800	125,301,468	198,046,391	-2,136,657	321,211,202	9,604,046
Federal	—	70,000	3,825,579	—	3,895,579	182,074
State and Other						
Government	—	1,706,921	15,655,315	363,947	17,726,183	705,943
Municipals	107,121	277,511,177	239,965,906	6,322,845	523,799,928	12,788,798
Cooperatives	28,623	557,212,314	287,667,728	22,426,189	867,306,231	15,834,431
Other ²	60,000	25,050,336	89,575,092	73,651	114,699,079	3,524,860
Total	6,365,544	986,852,216	834,736,011	27,049,975	1,848,638,202	42,640,152
Investor-Owned Utilities in SPP						
Investor-Owned	1,992,039	43,911,987	22,815,542	7,553,066	74,280,595	2,358,024
Federal	—	1,094,585	1,850,425	119,163	3,064,173	81,469
State and Other						
Government	166,320	20,635,355	16,258,825	-1,511,677	35,382,503	948,393
Municipals	122,816	67,240,503	124,891,077	11,803,205	203,934,785	5,898,869
Cooperatives	8,671,098	172,923,584	125,834,381	88,230,659	386,988,624	11,557,278
Other ²	82,500	49,757,739	99,616,351	13,926,485	163,300,575	4,739,639
Total	11,034,773	355,563,753	391,266,601	120,120,901	866,951,255	25,583,672
Investor-Owned Utilities in WSCC						
Investor-Owned	21,024,600	303,794,955	195,633,598	3,971,096	503,399,649	11,696,131
Federal	2,061,254	57,383,194	51,377,295	-54,587	108,705,902	2,404,166
State and Other						
Government	661,254	182,596,010	107,556,253	8,400,863	298,553,126	5,610,060
Municipals	462,500	107,892,808	75,386,113	1,024,397	184,303,318	3,777,721
Cooperatives	750	58,457,189	53,962,930	-7,050,553	105,369,566	2,672,694
Other ²	985,461	49,992,986	48,535,490	14,024,723	112,553,199	4,034,997
Total	25,195,819	760,117,142	532,451,679	20,315,939	1,312,884,760	30,195,769
Contiguous U.S. Total						
Investor-Owned	33,176,517	2,644,968,115	2,787,521,683	324,534,809	5,757,024,607	154,262,953
Federal	2,061,254	59,913,338	67,008,836	64,576	126,986,750	3,176,337
State and Other						
Government	827,574	224,866,027	189,626,853	3,469,398	417,962,278	10,228,863
Municipals	3,145,480	926,432,351	1,020,902,301	3,779,767	1,951,114,419	52,330,490
Cooperatives	8,772,131	1,148,875,611	815,959,497	118,601,380	2,083,436,488	47,667,368
Other ²	1,056,558	218,652,060	719,803,193	29,360,908	967,816,161	36,706,045
Total	49,039,514	5,223,707,502	5,600,822,363	479,810,838	11,304,340,703	304,372,056

See notes and footnotes at end of table.

Table 9. Electricity Sales for Resale by Investor-Owned Utilities, by NERC Region, 1996
(Continued)

Purchasers by Ownership Class	Nonfirm			Miscellaneous ²		Region Total	
	Energy Revenue (dollars)	Other Revenue (dollars)	Sales (thousand kWh)	Revenue (dollars)	Sales (thousand kWh)	Revenue (dollars)	Sales (thousand kWh)
Investor-Owned Utilities in NPCC							
Investor-Owned	309,678,914	421,651,486	16,717,805	189,008,300	3,964,681	3,456,439,647	63,574,798
Federal	—	—	—	—	—	—	—
State and Other							
Government	4,179,653	1,666,039	168,447	190,000	—	15,138,260	661,418
Municipals	52,318,952	54,887,784	2,379,094	5,125,827	—	248,259,159	5,110,784
Cooperatives	1,311,662	660,942	64,779	68,609	-216	56,334,562	820,243
Other ³	771,858,414	57,224,402	32,284,600	7,976,862	14,906	930,238,768	35,748,717
Total	1,139,347,595	536,090,653	51,614,725	202,369,598	3,979,371	4,706,410,396	105,915,960
Investor-Owned Utilities in SERC							
Investor-Owned	1,268,581,110	-1,153,716	28,672,171	—	3,200	1,594,808,396	38,279,417
Federal	7,330,738	5,000	276,139	—	-1,402	11,231,317	456,811
State and Other							
Government	3,478,170	—	127,302	—	29	21,204,353	833,274
Municipals	214,859,293	-7,528,406	5,890,309	1,371	—	731,239,307	18,679,107
Cooperatives	91,320,774	38,899,242	3,622,986	—	800	997,554,870	19,458,217
Other ³	333,109,408	12,943,097	14,961,345	-21,514,146	-412,194	439,297,438	18,074,011
Total	1,918,679,493	43,165,217	53,550,252	-21,512,775	-409,567	3,795,335,681	95,780,837
Investor-Owned Utilities in SPP							
Investor-Owned	215,461,381	2,010,684	7,706,349	4,477	4,054	293,749,176	10,068,427
Federal	3,101,391	-488,917	102,457	—	2	5,676,647	183,928
State and Other							
Government	8,761,841	18,668	353,995	423,497	911	44,752,829	1,303,299
Municipals	35,124,710	5,635,048	1,609,557	2,505,901	75,819	247,323,260	7,584,245
Cooperatives	39,241,862	58,320	2,301,081	13,788,979	2,193	448,748,883	13,860,552
Other ³	474,622,310	1,510,704	20,222,024	6,101,946	239,567	645,618,035	25,201,230
Total	776,313,495	8,744,507	32,295,463	22,824,800	322,546	1,685,868,830	58,201,681
Investor-Owned Utilities in WSCC							
Investor-Owned	365,119,139	43,120	24,272,117	420,552	24,023	890,007,060	35,992,271
Federal	22,978,000	—	1,279,465	-12,918,364	—	120,826,792	3,683,631
State and Other							
Government	58,411,185	34,720	4,071,317	-1,516	—	357,658,769	9,681,377
Municipals	52,929,646	-31,637	3,843,103	-6,848	—	237,656,979	7,620,824
Cooperatives	20,453,594	473,217	1,420,294	12,751	—	126,309,878	4,092,988
Other ³	343,177,477	—	22,306,520	-2,433,152	349	454,282,985	26,341,866
Total	863,069,041	519,420	57,192,816	-14,926,577	24,372	2,186,742,463	87,412,957
Contiguous U.S. Total							
Investor-Owned	3,270,816,416	656,985,697	132,004,169	627,160,971	15,993,722	10,345,164,208	302,260,844
Federal	70,922,836	1,432,911	3,517,890	-12,918,364	-1,400	188,485,387	6,692,827
State and Other							
Government	97,729,772	2,929,071	5,893,539	611,981	940	520,060,676	16,123,342
Municipals	474,625,086	59,974,977	18,735,315	7,622,419	97,520	2,496,482,381	71,163,325
Cooperatives	249,821,294	43,208,489	12,308,953	13,870,339	3,414	2,399,108,741	59,979,735
Other ³	3,113,983,999	89,546,760	155,247,617	130,007,458	8,992,389	4,302,410,936	200,946,051
Total	7,277,899,403	854,077,905	327,707,483	766,354,804	25,086,585	20,251,712,329	657,166,124

¹ Monetary settlements from contracts where electricity is not taken.

² Includes other transactions involving line and substation rentals, system support charges, and special contract transactions.

³ Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See glossary for a list of regions. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

Table 10. Investor-Owned Utility Exchanges of Electricity with All Ownership Classes, by NERC Region, 1996

Exchange by Investor-Owned Utilities with Other Utilities	Received ² (thousand kWh)	Delivered ³ (thousand kWh)	Demand Charge (dollars)	Energy Charge (dollars)	Other Charge (dollars)	Settlement (dollars)
Investor-Owned Utilities in ECAR						
Investor-Owned	753,864	716,291	—	278,423	-29,238	249,185
Federal	—	—	—	—	—	—
State and Other						
Government	—	—	—	—	—	—
Municipals	58,002	58,694	—	—	—	—
Cooperatives	127,534	160,537	—	—	-24,192	-24,192
Other ¹	38,962	61,339	—	—	—	—
Total	978,362	996,861	—	278,423	-53,430	224,993
Investor-Owned Utilities in ERCOT						
Investor-Owned	17,517,694	16,517,066	—	—	83,340	83,340
Federal	—	—	—	—	—	—
State and Other						
Government	1,510,767	2,284,857	—	—	—	—
Municipals	3,183	9,425	—	—	—	—
Cooperatives	77,210	226,777	—	3	62,317	62,320
Other ¹	14,451,875	14,541,286	—	-106,677	—	-106,677
Total	33,560,729	33,579,411	—	-106,674	145,657	38,983
Investor-Owned Utilities in MAIN						
Investor-Owned	65,727	5,337	—	6,980	2,271	9,251
Federal	—	—	—	—	—	—
State and Other						
Government	—	—	—	—	—	—
Municipals	1,520	34,415	—	-634,056	-1,928	-635,984
Cooperatives	17,565	27,433	—	—	-221,415	-221,415
Other ¹	33,973	72,930	—	—	—	—
Total	118,785	140,115	—	-627,076	-221,072	-848,148
Investor-Owned Utilities in MAPP						
Investor-Owned	—	—	—	—	—	—
Federal	72,055	33,590	—	—	102,695	102,695
State and Other						
Government	23,351	78	—	—	—	—
Municipals	—	—	—	—	—	—
Cooperatives	11,047	32,913	—	—	—	—
Other ¹	143,228	5,812	—	—	—	—
Total	249,681	72,393	—	—	102,695	102,695

See notes and footnotes at end of table.

Table 10. Investor-Owned Utility Exchanges of Electricity with All Ownership Classes, by NERC Region, 1996 (Continued)

Exchange by Investor-Owned Utilities with Other Utilities	Received ² (thousand kWh)	Delivered ³ (thousand kWh)	Demand Charge (dollars)	Energy Charge (dollars)	Other Charge (dollars)	Settlement (dollars)
Investor-Owned Utilities in NPCC						
Investor-Owned	634,778	188,270	—	977,123	10,705,840	11,682,963
Federal	—	—	—	—	—	—
State and Other						
Government	367,740	549,774	6,169,721	—	2,400,000	8,569,721
Municipals	—	—	—	—	—	—
Cooperatives	—	—	—	—	—	—
Other ¹	56,063	16,709	—	—	1,017,392	1,017,392
Total	1,058,581	754,753	6,169,721	977,123	14,123,232	21,270,076
Investor-Owned Utilities in SERC						
Investor-Owned	33,299	27,202	—	—	—	—
Federal	23,465	16,785	—	—	—	—
State and Other						
Government	243,864	249,484	—	—	—	—
Municipals	2,879,972	2,578,714	-693,801	3,547,369	—	2,853,568
Cooperatives	3,437,368	2,907,350	-785,761	4,601,447	—	3,815,686
Other ¹	1,818,471	2,711,816	—	-1,027,064	—	-1,027,064
Total	8,436,439	8,491,351	-1,479,562	7,121,752	—	5,642,190
Investor-Owned Utilities in SPP						
Investor-Owned	72,922	85,304	1,570,000	11,514	19,399	1,600,913
Federal	113,414	117,819	73,875	—	—	73,875
State and Other						
Government	646,134	645,065	—	—	—	—
Municipals	—	2,328	—	—	—	—
Cooperatives	49,114	51,477	—	-19,331	—	-19,331
Other ¹	1,076,336	1,058,730	—	—	-9,560	-9,560
Total	1,957,920	1,960,723	1,643,875	-7,817	9,839	1,645,897
Investor-Owned Utilities in WSCC						
Investor-Owned	3,776,421	3,807,986	1,260,000	-54,800	-23,425	1,181,775
Federal	16,597,879	17,468,462	3,653,393	15,396,145	-34,433,329	-15,383,791
State and Other						
Government	1,073,690	974,703	—	7,556,226	-629,795	6,926,431
Municipals	506,142	598,297	—	-81,584	-290,135	-371,719
Cooperatives	133,545	79,181	—	—	265,639	265,639
Other ¹	684,432	559,721	—	6,410,845	38,046	6,448,891
Total	22,772,109	23,488,350	4,913,393	29,226,832	-35,072,999	-932,774
Contiguous U.S. Total						
Investor-Owned	22,854,705	21,347,456	2,830,000	1,219,240	10,758,187	14,807,427
Federal	16,806,813	17,636,656	3,727,268	15,396,145	-34,330,634	-15,207,221
State and Other						
Government	3,865,546	4,703,961	6,169,721	7,556,226	1,770,205	15,496,152
Municipals	3,448,819	3,281,873	-693,801	2,831,729	-292,063	1,845,865
Cooperatives	3,853,383	3,485,668	-785,761	4,582,119	82,349	3,878,707
Other ¹	18,303,340	19,028,343	—	5,277,104	1,045,878	6,322,982
Total	69,132,606	69,483,957	11,247,427	36,862,563	-20,966,078	27,143,912

¹ Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

² Includes all transactions received from outside and within the region by all utilities operating within the region.

³ Includes all transactions delivered out of and within the region by all utilities operating within the region.

—Not Applicable

Notes: •The States of Alaska and Hawaii are not included. •The terms of settlement may include transferring and/or exchanging quantities of electricity with no dollar value assigned. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See glossary for a list of regions. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

Table 11. Noninvestor-Owned Utility Exchanges of Electricity, by NERC Region, 1996
(Million Kilowatthours)

Exchanges with Other Utilities	NERC Region of Noninvestor-Owned Utility									Contiguous U.S. Total
	ECAR	ERCOT	MAAC	MAIN	MAPP	NPCC	SERC	SPP	WSCC	
Federal										
Received ¹	—	—	—	—	—	—	22,657	858	10,917	34,432
Delivered ²	—	—	—	—	—	—	33,385	389	16,162	49,936
Net.....	—	—	—	—	—	—	-10,728	468	-5,245	-15,505
State and Other										
Government										
Received ¹	—	—	—	—	—	795	38	109	5,407	6,349
Delivered ²	—	—	—	—	—	310	46	21	2,791	3,168
Net.....	—	—	—	—	—	485	-8	88	2,616	3,181
Municipals										
Received ¹	33	320	474	—	25	1,633	1,163	439	9,006	13,093
Delivered ²	80	282	22	—	29	502	642	743	9,464	11,765
Net.....	-47	38	452	—	-5	1,130	521	-304	-457	1,328
Cooperatives										
Received ¹	349	21,473	—	133	2,216	—	53	381	1,530	26,136
Delivered ²	304	21,369	—	190	2,348	—	47	307	1,210	25,776
Net.....	46	104	—	-57	-133	—	6	74	320	360
Power										
Marketers										
Received ¹	412	946	—	—	—	181	370	—	2	1,912
Delivered ²	396	1,405	—	—	—	122	8	—	2	1,932
Net.....	16	-458	—	—	—	60	362	—	—	-20
Region Total										
Received ¹	795	22,739	474	133	2,240	2,609	24,282	1,787	26,862	81,922
Delivered ²	779	23,056	22	190	2,378	934	34,128	1,461	29,629	92,577
Net.....	15	-316	452	-57	-137	1,675	-9,846	326	-2,767	-10,655

¹ Includes all transactions received from outside and within the region by all utilities operating within the region.

² Includes all transactions delivered out of and within the region by all utilities operating within the region.

—Not Applicable

Notes: •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska System Coordinating Council is not included. See glossary for a list of regions. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

Table 12. Electricity Wheeling for All Ownership Classes by Investor-Owned Utilities, by NERC Region, 1996

Wheeling through Investor-Owned Utility Service Territories	NERC Region of Investor-Owned Utility									Contiguous U.S. Total
	ECAR	ERCOT	MAAC	MAIN	MAPP	NPCC	SERC	SPP	WSCC	
Investor-Owned										
Wheeled Energy										
Rec. (thousand kWh)	21,875,056	7,783,307	11,022,251	810,109	3,431,303	24,408,440	5,754,324	2,556,960	9,345,448	86,987,198
Del. (thousand kWh)	21,825,507	7,783,307	11,022,251	780,946	3,384,915	29,313,153	5,724,325	2,536,425	9,150,919	91,521,748
Revenue										
Demand (dollars)	27,005,021	17,178,928	16,412,705	430,859	4,750,177	65,928,668	7,605,098	7,667,054	19,676,781	166,655,291
Energy (dollars)	14,035,750	31,495	6,055,457	1,107,657	1,266,857	15,369,650	682,727	2,552,219	9,574,281	50,676,093
Other (dollars)	32,370,134	2,797,595	11,019,621	380,349	-1,050,918	33,183,313	5,548,305	290,354	1,584,749	86,123,502
Total (dollars)	73,410,905	20,008,018	33,487,783	1,918,865	4,966,116	114,481,631	13,836,130	10,509,627	30,835,811	303,454,886
Federal Authorities										
Wheeled Energy										
Rec. (thousand kWh)	285,593	—	—	—	1,419,680	—	4,009,444	100,225	17,536,897	23,351,839
Del. (thousand kWh)	282,389	—	—	—	1,059,298	—	2,850,758	100,153	17,253,840	21,546,438
Revenue										
Demand (dollars)	805,303	—	—	—	672,816	—	10,510,815	104,978	52,959,124	65,053,036
Energy (dollars)	65,004	—	—	—	495,057	—	782,527	9,082	8,703,673	10,055,343
Other (dollars)	—	—	—	-6,035	—	—	4,108,683	662,617	3,915,109	8,680,374
Total (dollars)	870,307	—	—	-6,035	1,167,873	—	15,402,025	776,677	65,577,906	83,788,753
State and Other										
Government										
Wheeled Energy										
Rec. (thousand kWh)	986,646	181,511	—	—	1,187,682	2,896,410	391,700	2,952,184	21,149,227	29,745,360
Del. (thousand kWh)	970,226	181,511	—	—	1,133,296	12,600,287	376,249	2,946,552	20,648,258	38,856,379
Revenue										
Demand (dollars)	728,929	745,114	—	—	416,052	21,754,059	1,293,981	7,874,506	31,781,534	64,594,175
Energy (dollars)	-23,056	1,310	—	—	2,893,100	246,528,484	2,719	56,475	8,812,828	258,271,860
Other (dollars)	1,241,645	851,427	—	—	117,703	8,868,111	-128,692	340,289	779,891	12,070,374
Total (dollars)	1,947,518	1,597,851	—	—	3,426,855	277,150,654	1,168,008	8,271,270	41,374,253	334,936,409
Municipals										
Wheeled Energy										
Rec. (thousand kWh)	5,305,540	3,192,869	832,784	3,073,786	1,856,646	6,921,681	4,441,599	2,595,410	13,145,523	41,365,838
Del. (thousand kWh)	5,113,465	3,191,311	832,784	3,018,790	2,181,648	6,967,167	4,117,907	2,595,410	12,940,460	40,958,942
Revenue										
Demand (dollars)	18,775,335	3,907,772	4,731,867	10,256,498	5,192,606	12,118,332	26,606,630	7,508,767	38,270,806	127,368,613
Energy (dollars)	2,680,262	5,829	318,756	240,525	2,124,972	66,138	5,456,602	315,838	1,396,010	12,604,932
Other (dollars)	3,512,160	3,311,081	7,920	127,080	530,692	6,128,296	-1,032,202	3,341	787,815	13,376,183
Total (dollars)	24,967,757	7,224,682	5,058,543	10,624,103	7,848,270	18,312,766	31,031,030	7,827,946	40,454,631	153,349,728
Cooperatives										
Wheeled Energy										
Rec. (thousand kWh)	16,608,222	2,374,184	3,830,028	1,624,143	6,698,341	416,026	11,534,247	13,139,088	4,479,452	60,703,731
Del. (thousand kWh)	16,425,860	2,374,184	3,740,859	1,568,274	6,678,954	402,216	11,389,878	13,129,459	4,459,653	60,169,337
Revenue										
Demand (dollars)	27,463,992	11,138,699	14,240,765	10,161,045	8,988,204	1,268,495	35,803,873	37,352,484	10,352,951	156,770,508
Energy (dollars)	1,333,548	5,211	—	7,685	3,722,346	—	9,501,980	2,941,189	152,244	17,664,203
Other (dollars)	9,617,287	452,741	—	2,500	407,135	423,283	8,832,496	14,764,871	1,431,748	35,932,061
Total (dollars)	38,414,827	11,596,651	14,240,765	10,171,230	13,117,685	1,691,778	54,138,349	55,058,544	11,936,943	210,366,772
Other¹										
Wheeled Energy										
Rec. (thousand kWh)	10,442,036	8,067,665	4,587,412	1,701,518	1,912,103	25,877,860	3,838,262	3,345,110	5,311,224	65,083,190
Del. (thousand kWh)	10,581,269	8,047,990	4,581,534	1,700,173	909,828	12,136,656	3,778,986	3,329,424	5,286,661	50,352,521
Revenue										
Demand (dollars)	16,017,531	17,481,944	3,806,324	3,183,138	1,485,909	36,888,857	6,598,559	959,248	7,189,943	93,611,453
Energy (dollars)	7,824,785	73,914	6,399,174	3,124,162	1,597,787	11,214,144	2,579,769	5,203,292	7,734,924	45,751,951
Other (dollars)	7,388,890	3,690,084	7,484,312	990,029	2,426,945	115,713,770	3,004,934	25,491,628	4,311,143	170,501,735
Total (dollars)	31,231,206	21,245,942	17,689,810	7,297,329	5,510,641	163,816,771	12,183,262	31,654,168	19,236,010	309,865,139
Region Total										
Wheeled Energy										
Rec. (thousand kWh)	55,503,093	21,599,536	20,272,475	7,209,556	16,505,755	60,520,417	29,969,576	24,688,977	70,967,771	307,237,156
Del. (thousand kWh)	55,198,716	21,578,303	20,177,428	7,068,183	15,347,939	61,419,479	28,238,103	24,637,423	69,739,791	303,405,365
Revenue										
Demand (dollars)	90,796,111	50,452,457	39,191,661	24,031,540	21,505,764	137,958,411	88,418,956	61,467,037	160,231,139	674,053,076
Energy (dollars)	25,916,293	117,759	12,773,387	4,480,029	12,100,119	273,178,416	19,006,324	11,078,095	36,373,960	395,024,382
Other (dollars)	54,130,116	11,102,928	18,511,853	1,493,923	2,431,557	164,316,773	20,333,524	41,553,100	12,810,455	326,684,229
Total (dollars)	170,842,520	61,673,144	70,476,901	30,005,492	36,037,440	575,453,600	127,758,804	114,098,232	209,415,554	1,395,761,687

¹ Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •Wheeling (transmission services) is reported in account 456, "Transmission For Others," and in account 565, "Transmission By Others," of the FERC Uniform System of Accounts. •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See glossary for a list of regions. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

Table 13. Electricity Wheeling by All Ownership Classes to Investor-Owned Utilities, by NERC Region, 1996

Wheeling to Investor-Owned Utility Service Territories	NERC Region of Investor-Owned Utility									Contiguous U.S. Total
	ECAR	ERCOT	MAAC	MAIN	MAPP	NPCC	SERC	SPP	WSCC	
Investor-Owned										
Wheeled Energy										
Rec. (thousand kWh)	—	—	—	2,215,066	—	99,036	—	—	14,221,257	16,535,359
Del. (thousand kWh)	7,749,504	306,458	8,117,468	3,269,842	2,037,787	27,184,462	943,404	2,511,583	22,129,563	74,250,071
Cost										
Demand (dollars)	2,500,726	13,348,474	144,643	1,528,482	2,153,409	62,222,196	289,038	8,247,465	29,614,211	120,048,644
Energy (dollars)	75,727	—	—	5,380,008	435,322	20,820,174	40,055	2,193,655	8,712,430	37,657,371
Other (dollars)	19,884,970	11,963,661	5,105,976	217,673	1,584,854	93,434,832	412,397	5,772,894	8,910,739	147,287,996
Total (dollars)	22,461,423	25,312,135	5,250,619	7,126,163	4,173,585	176,477,202	741,490	16,214,014	47,237,380	304,994,011
Federal Authorities										
Wheeled Energy										
Rec. (thousand kWh)	2,264	—	—	—	—	—	—	—	9,048,866	9,051,130
Del. (thousand kWh)	6,974	—	—	—	926,452	—	—	832	43,505,882	44,440,140
Cost										
Demand (dollars)	—	—	—	—	22,534	—	—	1,200,000	67,495,162	68,717,696
Energy (dollars)	4,528	—	—	—	1,038,746	—	—	51,786	30,818,571	31,913,631
Other (dollars)	483,968	—	—	7,536	—	—	39,159	69,672	21,261,376	21,861,711
Total (dollars)	488,496	—	—	7,536	1,061,280	—	39,159	1,321,458	119,575,109	122,493,038
State and Other										
Government										
Wheeled Energy										
Rec. (thousand kWh)	—	—	—	—	—	—	—	—	1,088,578	1,088,578
Del. (thousand kWh)	—	165,277	—	—	363,540	3,499,658	136,795	31,705	8,290,361	12,487,336
Cost										
Demand (dollars)	—	486,512	—	—	1,783,148	4,408,982	826,260	—	3,535,678	11,040,580
Energy (dollars)	—	972	—	—	—	30,096,268	—	56,239	1,051,836	31,205,315
Other (dollars)	-23,000	769,176	—	—	—	2,369,101	62,474	55,068	-8,045	3,224,774
Total (dollars)	-23,000	1,256,660	—	—	1,783,148	36,874,351	888,734	111,307	4,579,469	45,470,669
Municipals										
Wheeled Energy										
Rec. (thousand kWh)	—	—	—	—	—	—	—	—	437,552	437,552
Del. (thousand kWh)	619,593	2,204,021	—	3,161	—	63,077	4,219,382	991	763,991	7,874,216
Cost										
Demand (dollars)	—	1,242,628	—	—	—	144,508	118,663	160,650	1,473,189	3,139,638
Energy (dollars)	—	2,439	—	—	—	—	239,225	-15,866	876,685	1,102,483
Other (dollars)	61,432	588,800	17,010	—	—	926,506	—	561,200	-477,050	1,677,898
Total (dollars)	61,432	1,833,867	17,010	—	—	1,071,014	357,888	705,984	1,872,824	5,920,019
Cooperatives										
Wheeled Energy										
Rec. (thousand kWh)	416,370	—	—	—	—	—	—	—	66,510	482,880
Del. (thousand kWh)	926,902	50,887	—	246,974	515,120	—	59,751	38,522	387,224	2,225,380
Cost										
Demand (dollars)	1,174,072	41,661	—	—	277,340	2,022	177,946	749,661	1,817,473	4,240,175
Energy (dollars)	3,625	512	—	7,405	408,156	—	1,339	50,301	2,447,573	2,918,911
Other (dollars)	706,109	13,142	—	—	530,045	1,188,069	9,816	364,324	2,096,422	4,907,927
Total (dollars)	1,883,806	55,315	—	7,405	1,215,541	1,190,091	189,101	1,164,286	6,361,468	12,067,013
Other¹										
Wheeled Energy										
Rec. (thousand kWh)	—	—	—	264,868	—	185,622	—	534,658	19,377,106	20,362,254
Del. (thousand kWh)	8,207,502	2,548,999	—	264,824	—	6,447,477	4,145,562	552,125	19,969,435	42,135,924
Cost										
Demand (dollars)	12,225	-12,457,348	15,166,638	421,177	—	11,833,623	11,156,733	1,912,891	1,171,501	29,217,440
Energy (dollars)	27,766	8,604	—	414,618	383,173	3,606,544	29,062	212,707	869,820	5,552,294
Other (dollars)	400,075	1,779,525	891,781	-2,330	5,511,679	11,726,546	-446,766	28,204,157	5,901,468	53,966,135
Total (dollars)	440,066	-10,669,219	16,058,419	833,465	5,894,852	27,166,713	10,739,029	30,329,755	7,942,789	88,735,869
Region Total										
Wheeled Energy										
Rec. (thousand kWh)	418,634	—	—	2,479,934	—	284,658	—	534,658	44,239,869	47,957,753
Del. (thousand kWh)	17,510,475	5,275,642	8,117,468	3,784,801	3,842,899	37,194,674	9,504,894	3,135,758	95,046,456	183,413,067
Cost										
Demand (dollars)	3,687,023	2,661,927	15,311,281	1,949,659	4,236,431	78,611,331	12,568,640	12,270,667	105,107,214	236,404,173
Energy (dollars)	111,646	12,527	—	5,802,031	2,265,397	54,522,986	309,681	2,548,822	44,776,915	110,350,005
Other (dollars)	21,513,554	15,114,304	6,014,767	222,879	7,626,578	109,645,054	77,080	35,027,315	37,684,910	232,926,441
Total (dollars)	25,312,223	17,788,758	21,326,048	7,974,569	14,128,406	242,779,371	12,955,401	49,846,804	187,569,039	579,680,619

¹ Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •Wheeling (transmission services) is reported in account 456, "Transmission For Others," and in account 565, "Transmission By Others," of the FERC Uniform System of Accounts. •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. See glossary for a list of regions. Total quantity of wheeling may not be reported. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

Table 14. Purchases by Cooperative Borrowers, by NERC Region, 1996

Seller by Ownership Class	NERC Region of Cooperatives				
	ECAR	ERCOT	MAAC	MAIN	MAPP
Investor-Owned					
Purchases (thousand kWh).....	3,459,119	3,384,867	2,848,717	552,151	1,816,230
Cost (dollars).....	108,629,675	138,951,349	135,696,188	17,939,281	41,429,392
Federal Authorities					
Purchases (thousand kWh).....	5,308,130	230,569	—	41,350	4,217,334
Cost (dollars).....	123,635,421	4,928,671	—	919,968	57,616,356
State and Other					
Government					
Purchases (thousand kWh).....	—	725,350	461,911	—	2,880,263
Cost (dollars).....	—	28,281,007	3,116,770	—	95,259,492
Municipals					
Purchases (thousand kWh).....	1,600,774	27,476	—	—	170,369
Cost (dollars).....	34,443,452	518,622	—	91,000	3,936,127
Cooperatives					
Purchases (thousand kWh).....	28,481,343	8,763,691	3,647,719	8,613,562	24,939,303
Cost (dollars).....	1,485,689,196	349,005,583	200,491,600	344,574,923	860,724,238
Other¹					
Purchases (thousand kWh).....	617,845	1,661,132	416,868	114	2,276,483
Cost (dollars).....	14,403,686	46,939,886	20,158,842	10,111	53,414,568
Region Total					
Purchases (thousand kWh).....	39,467,211	14,793,085	7,375,215	9,207,177	36,299,982
Cost (dollars).....	1,766,801,430	568,625,118	359,463,400	363,535,283	1,112,380,173

NERC Region of Cooperatives					Contiguous U.S. Total
NPCC	SERC	SPP	WSCC		
Investor-Owned					
Purchases (thousand kWh).....	685,702	18,846,927	8,215,883	1,620,729	41,430,325
Cost (dollars).....	53,281,024	822,685,232	283,865,049	60,017,033	1,662,494,223
Federal Authorities					
Purchases (thousand kWh).....	—	33,647,634	3,423,479	9,058,350	55,926,846
Cost (dollars).....	—	1,403,177,323	60,889,387	221,424,781	1,872,591,907
State and Other					
Government					
Purchases (thousand kWh).....	185,004	8,499,258	4,400,453	302,953	17,455,192
Cost (dollars).....	3,397,005	319,132,053	103,232,009	7,662,085	560,080,421
Municipals					
Purchases (thousand kWh).....	9,510	224,443	4,057,128	152	6,089,852
Cost (dollars).....	677,169	15,015,375	37,648,359	2,184	92,332,288
Cooperatives					
Purchases (thousand kWh).....	—	63,316,834	43,068,363	15,928,599	196,759,414
Cost (dollars).....	—	2,947,291,726	1,633,959,615	626,365,896	8,448,102,777
Other¹					
Purchases (thousand kWh).....	110,586	2,493,771	1,965,472	5,327,160	14,869,431
Cost (dollars).....	4,735,321	93,174,103	79,809,760	104,163,377	416,809,654
Region Total					
Purchases (thousand kWh).....	990,802	127,028,867	65,130,778	32,237,943	332,531,060
Cost (dollars).....	62,090,519	5,600,475,812	2,199,404,179	1,019,635,356	13,052,411,270

¹ Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See glossary for a list of regions. •Totals may not equal sum of components because of independent rounding.

Source: Rural Utilities Service, RUS Form 7, "Financial and Statistical Report," RUS Form 12a through 12i, "Electric Power Supply Borrowers," Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities."

Table 15. Receipts by Investor-Owned Utilities Within and Between NERC Regions, 1996

NERC Region of Investor-Owned Utilities/ Type of Transaction	Source of Electricity from All Ownership Classes by NERC Region			
	ECAR		ERCOT	
	Energy (thousand kWh)	Cost (dollars)	Energy (thousand kWh)	Cost (dollars)
ECAR				
Firm Purchases	50,077,566	1,774,691,104	—	—
Nonfirm Purchases	51,092,368	1,064,132,206	462,742	9,574,775
Miscellaneous Purchases ¹	10,143,510	307,165,617	12	—
Exchanges Received ²	510,343	-374,075	—	—
Wheeling By Others ³	416,370	20,611,831	—	—
ERCOT				
Firm Purchases	—	—	14,115,005	699,131,093
Nonfirm Purchases	—	—	18,332,767	412,316,782
Miscellaneous Purchases ¹	—	—	44,617	-68,891
Exchanges Received ²	—	—	28,796,672	38,983
Wheeling By Others ³	—	—	—	17,339,969
MAAC				
Firm Purchases	3,172,152	94,050,093	—	—
Nonfirm Purchases	4,627,065	222,436,846	622,386	12,575,326
Miscellaneous Purchases ¹	—	51,453	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	—
MAIN				
Firm Purchases	532,797	15,953,984	377,524	8,146,791
Nonfirm Purchases	1,799,716	44,094,441	207,872	5,450,431
Miscellaneous Purchases ¹	—	3,000	—	—
Exchanges Received ²	100	2,333	—	—
Wheeling By Others ³	2,494	2,095,321	—	—
MAPP				
Firm Purchases	—	—	—	—
Nonfirm Purchases	6,664	220,435	26,437	794,764
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	—
NPCC				
Firm Purchases	—	—	—	—
Nonfirm Purchases	222,749	3,483,040	3,550	205,895
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	55,966	—	—
SERC				
Firm Purchases	8,868,947	281,447,316	21,600	478,260
Nonfirm Purchases	238,308	3,576,019	687,541	14,591,580
Miscellaneous Purchases ¹	10,400	—	—	—
Exchanges Received ²	24,888	—	—	—
Wheeling By Others ³	—	138,701	—	1,825
SPP				
Firm Purchases	421,972	14,511,726	—	—
Nonfirm Purchases	6,405	108,611	1,791,088	37,248,584
Miscellaneous Purchases ¹	—	—	35,478	373,877
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	9,533,903
WSCC				
Firm Purchases	13	307	—	—
Nonfirm Purchases	89,751	1,350,961	1,232,752	17,968,080
Miscellaneous Purchases ¹	—	—	22	—
Exchanges Received ²	—	—	23,838	—
Wheeling By Others ³	—	—	96	96
Region Total				
Firm Purchases Deliveries.....	63,073,447	2,180,654,530	14,514,129	707,756,144
Nonfirm Purchases Deliveries.....	58,083,026	1,339,402,559	23,367,135	510,726,217
Misc Purchases Deliveries ¹	10,153,910	307,220,070	80,129	304,986
Exchanges Received Deliveries ²	535,331	-371,742	28,820,510	38,983
Wheeling By Others Deliveries ³	418,864	22,901,819	96	26,875,793

See notes and footnotes at end of table.

Table 15. Receipts by Investor-Owned Utilities Within and Between NERC Regions, 1996
(Continued)

NERC Region of Investor-Owned Utilities/ Type of Transaction	Source of Electricity from All Ownership Classes by NERC Region			
	MAAC		MAIN	
	Energy (thousand kWh)	Cost (dollars)	Energy (thousand kWh)	Cost (dollars)
ECAR				
Firm Purchases	533,279	10,343,852	1,615,736	33,119,380
Nonfirm Purchases	2,696,083	60,789,568	1,228,746	19,025,922
Miscellaneous Purchases ¹	229,579	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	566,129	—	—
ERCOT				
Firm Purchases	—	—	—	—
Nonfirm Purchases	—	—	—	—
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	—
MAAC				
Firm Purchases	11,416,230	435,537,212	43,034	1,676,153
Nonfirm Purchases	63,857,417	2,148,479,472	6,105,635	105,170,479
Miscellaneous Purchases ¹	1,579,665	71,590,552	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	21,309,038	—	—
MAIN				
Firm Purchases	475,210	14,217,826	7,748,124	233,841,585
Nonfirm Purchases	52,092	1,649,808	11,606,254	222,160,545
Miscellaneous Purchases ¹	—	—	114,894	-127,226
Exchanges Received ²	—	—	118,685	-850,481
Wheeling By Others ³	—	509,006	404,942	1,796,466
MAPP				
Firm Purchases	—	—	565,733	23,735,052
Nonfirm Purchases	—	—	837,811	20,255,741
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	312,799
NPCC				
Firm Purchases	3,819,758	289,760,796	—	—
Nonfirm Purchases	6,840,196	159,081,640	—	—
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	3,402,990	—	—
SERC				
Firm Purchases	2,516,491	55,592,141	404,290	14,752,745
Nonfirm Purchases	606,662	11,762,144	69,399	867,732
Miscellaneous Purchases ¹	990	—	44,898	—
Exchanges Received ²	226,200	-1,027,064	—	—
Wheeling By Others ³	—	150,318	—	—
SPP				
Firm Purchases	—	—	311,890	12,134,329
Nonfirm Purchases	19,484	427,639	2,986,472	51,485,212
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	2,700	16,005
Wheeling By Others ³	—	—	—	16,842
WSCC				
Firm Purchases	381,412	16,933,536	457,280	8,275,549
Nonfirm Purchases	49,260	1,098,240	478,727	7,837,884
Miscellaneous Purchases ¹	800	—	130	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	—
Region Total				
Firm Purchases Deliveries.....	19,142,380	822,385,363	11,146,087	327,534,793
Nonfirm Purchases Deliveries.....	74,121,194	2,383,288,511	23,313,044	426,803,515
Misc Purchases Deliveries ¹	1,811,034	71,590,552	159,922	-127,226
Exchanges Received Deliveries ²	226,200	-1,027,064	121,385	-834,476
Wheeling By Others Deliveries ³	—	25,937,481	404,942	2,126,107

See notes and footnotes at end of table.

Table 15. Receipts by Investor-Owned Utilities Within and Between NERC Regions, 1996
(Continued)

NERC Region of Investor-Owned Utilities/ Type of Transaction	Source of Electricity from All Ownership Classes by NERC Region			
	MAPP		NPCC	
	Energy (thousand kWh)	Cost (dollars)	Energy (thousand kWh)	Cost (dollars)
ECAR				
Firm Purchases	—	—	1,993,460	52,970,207
Nonfirm Purchases	800	13,600	82,654	3,291,844
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	2,425
ERCOT				
Firm Purchases	—	—	—	—
Nonfirm Purchases	—	—	—	—
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	—
MAAC				
Firm Purchases	4,870,951	304,228,087	2,028,223	85,325,725
Nonfirm Purchases	59,974	1,227,004	2,274,337	102,929,745
Miscellaneous Purchases ¹	—	—	-28,000	179,890
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	17,010	—	—
MAIN				
Firm Purchases	3,873,907	64,669,314	—	—
Nonfirm Purchases	3,884,727	58,727,808	—	—
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	2,072,498	2,991,494	—	—
MAPP				
Firm Purchases	14,859,426	391,631,724	239,138	5,173,126
Nonfirm Purchases	9,038,753	193,127,546	472	7,593
Miscellaneous Purchases ¹	5,317,918	216,584,966	—	—
Exchanges Received ²	177,626	—	—	—
Wheeling By Others ³	—	12,752,947	—	—
NPCC				
Firm Purchases	—	—	86,281,627	4,384,833,214
Nonfirm Purchases	—	—	88,501,910	4,180,889,157
Miscellaneous Purchases ¹	—	—	20,937	22,222,047
Exchanges Received ²	—	—	1,058,581	21,270,076
Wheeling By Others ³	—	—	284,658	239,320,415
SERC				
Firm Purchases	77,951	4,826,403	875,881	44,777,342
Nonfirm Purchases	5,345	107,990	108,138	2,595,162
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	—
SPP				
Firm Purchases	307,265	6,022,091	—	—
Nonfirm Purchases	1,526,165	22,750,612	11	194
Miscellaneous Purchases ¹	10,812	1,010,408	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	70,864	—	—
WSCC				
Firm Purchases	102,365	3,513,563	350,543	14,699,462
Nonfirm Purchases	102,352	1,829,531	153,375	3,471,722
Miscellaneous Purchases ¹	—	—	—	-53,318
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	—
Region Total				
Firm Purchases Deliveries.....	24,091,865	774,891,182	91,768,872	4,587,779,076
Nonfirm Purchases Deliveries.....	14,618,116	277,784,091	91,120,897	4,293,185,417
Misc Purchases Deliveries ¹	5,328,730	217,595,374	-7,063	22,348,619
Exchanges Received Deliveries ²	177,626	—	1,058,581	21,270,076
Wheeling By Others Deliveries ³	2,072,498	15,832,315	284,658	239,322,840

See notes and footnotes at end of table.

Table 15. Receipts by Investor-Owned Utilities Within and Between NERC Regions, 1996
(Continued)

NERC Region of Investor-Owned Utilities/ Type of Transaction	Source of Electricity from All Ownership Classes by NERC Region			
	SERC		SPP	
	Energy (thousand kWh)	Cost (dollars)	Energy (thousand kWh)	Cost (dollars)
ECAR				
Firm Purchases	206,492	5,578,701	7,440	240,472
Nonfirm Purchases	1,545,899	37,408,839	4,156	146,785
Miscellaneous Purchases ¹	651	—	—	—
Exchanges Received ²	468,019	599,068	—	—
Wheeling By Others ³	2,264	4,123,723	—	8,115
ERCOT				
Firm Purchases	—	—	—	1,084,720
Nonfirm Purchases	—	—	1,322,285	28,681,305
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	4,764,057	—
Wheeling By Others ³	—	—	—	448,789
MAAC				
Firm Purchases	348,839	10,253,266	—	—
Nonfirm Purchases	8,311,396	178,431,398	—	—
Miscellaneous Purchases ¹	—	-55,195	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	—
MAIN				
Firm Purchases	1,095,801	28,501,143	2,976,142	65,439,569
Nonfirm Purchases	1,164,439	27,313,456	115,614	2,401,904
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	2,123	—	580,159
MAPP				
Firm Purchases	—	—	—	—
Nonfirm Purchases	25,993	723,898	464,572	12,638,962
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	—
NPCC				
Firm Purchases	—	—	62,400	1,431,871
Nonfirm Purchases	—	—	105	2,205
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	—
SERC				
Firm Purchases	46,016,473	2,637,217,636	8,364	255,702
Nonfirm Purchases	29,815,320	711,922,955	373,294	10,049,774
Miscellaneous Purchases ¹	132,855	—	—	—
Exchanges Received ²	8,185,351	6,669,254	—	—
Wheeling By Others ³	—	12,649,247	—	15,310
SPP				
Firm Purchases	8,127,820	657,989,950	1,681,041	67,266,285
Nonfirm Purchases	8,751,979	184,478,593	37,679,767	1,089,665,553
Miscellaneous Purchases ¹	—	—	1,946,427	14,895,768
Exchanges Received ²	—	—	1,955,220	1,629,892
Wheeling By Others ³	—	3,810,589	534,658	35,939,299
WSCC				
Firm Purchases	—	—	435,461	29,764,851
Nonfirm Purchases	82,680	1,306,258	342,490	6,290,555
Miscellaneous Purchases ¹	—	—	—	392
Exchanges Received ²	—	—	1,284	—
Wheeling By Others ³	—	—	—	170,533
Region Total				
Firm Purchases Deliveries.....	55,795,425	3,339,540,696	5,170,848	165,483,470
Nonfirm Purchases Deliveries.....	49,697,706	1,141,585,397	40,302,283	1,149,877,043
Misc Purchases Deliveries ¹	133,506	-55,195	1,946,427	14,896,160
Exchanges Received Deliveries ²	8,653,370	7,268,322	6,720,561	1,629,892
Wheeling By Others Deliveries ³	2,264	20,585,682	534,658	37,162,205

See notes and footnotes at end of table.

Table 15. Receipts by Investor-Owned Utilities Within and Between NERC Regions, 1996
(Continued)

NERC Region of Investor-Owned Utilities/ Type of Transaction	Source of Electricity from All Ownership Classes by NERC Region			
	WSCC		Contiguous U.S. Total	
	Energy (thousand kWh)	Cost (dollars)	Energy (thousand kWh)	Cost (dollars)
ECAR				
Firm Purchases	15,554	842,151	54,449,527	1,877,785,867
Nonfirm Purchases	10,496	482,838	57,123,944	1,194,866,377
Miscellaneous Purchases ¹	—	—	10,373,752	307,165,617
Exchanges Received ²	—	—	978,362	224,993
Wheeling By Others ³	—	—	418,634	25,312,223
ERCOT				
Firm Purchases	—	—	14,115,005	700,215,813
Nonfirm Purchases	59,683	1,298,384	19,714,735	442,296,471
Miscellaneous Purchases ¹	—	—	44,617	-68,891
Exchanges Received ²	—	—	33,560,729	38,983
Wheeling By Others ³	—	—	—	17,788,758
MAAC				
Firm Purchases	47,705	973,416	21,927,134	932,043,952
Nonfirm Purchases	377,235	23,366,738	86,235,445	2,794,617,008
Miscellaneous Purchases ¹	—	—	1,551,665	71,766,700
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	21,326,048
MAIN				
Firm Purchases	—	—	17,079,505	430,770,212
Nonfirm Purchases	1,868,914	26,979,860	20,699,628	388,778,253
Miscellaneous Purchases ¹	—	—	114,894	-124,226
Exchanges Received ²	—	—	118,785	-848,148
Wheeling By Others ³	—	—	2,479,934	7,974,569
MAPP				
Firm Purchases	1,165,837	31,240,258	16,830,134	451,780,160
Nonfirm Purchases	3,779,482	48,465,072	14,180,184	276,234,011
Miscellaneous Purchases ¹	-55,656	—	5,262,262	216,584,966
Exchanges Received ²	72,055	102,695	249,681	102,695
Wheeling By Others ³	—	1,062,660	—	14,128,406
NPCC				
Firm Purchases	—	—	90,163,785	4,676,025,881
Nonfirm Purchases	127,666	11,211,099	95,696,176	4,354,873,036
Miscellaneous Purchases ¹	—	—	20,937	22,222,047
Exchanges Received ²	—	—	1,058,581	21,270,076
Wheeling By Others ³	—	—	284,658	242,779,371
SERC				
Firm Purchases	2,064,675	84,678,579	60,854,672	3,124,026,124
Nonfirm Purchases	38,884	760,084	31,942,891	756,233,440
Miscellaneous Purchases ¹	—	—	189,143	—
Exchanges Received ²	—	—	8,436,439	5,642,190
Wheeling By Others ³	—	—	—	12,955,401
SPP				
Firm Purchases	477,793	24,958,559	11,327,781	782,882,940
Nonfirm Purchases	1,111,593	20,950,540	53,872,964	1,407,115,538
Miscellaneous Purchases ¹	430,439	5,572,030	2,423,156	21,852,083
Exchanges Received ²	—	—	1,957,920	1,645,897
Wheeling By Others ³	—	475,307	534,658	49,846,804
WSCC				
Firm Purchases	78,383,580	5,558,165,155	80,110,654	5,631,352,423
Nonfirm Purchases	114,365,089	1,941,410,957	116,896,476	1,982,564,188
Miscellaneous Purchases ¹	3,186,157	-34,311,108	3,187,109	-34,364,034
Exchanges Received ²	22,746,987	-932,774	22,772,109	-932,774
Wheeling By Others ³	44,239,773	187,398,410	44,239,869	187,569,039
Region Total				
Firm Purchases Deliveries.....	82,155,144	5,700,858,118	366,858,197	18,606,883,372
Nonfirm Purchases Deliveries.....	121,739,042	2,074,925,572	496,362,443	13,597,578,322
Misc Purchases Deliveries ¹	3,560,940	-28,739,078	23,167,535	605,034,262
Exchanges Received Deliveries ²	22,819,042	-830,079	69,132,606	27,143,912
Wheeling By Others Deliveries ³	44,239,773	188,936,377	47,957,753	579,680,619

¹ Miscellaneous purchases include other transactions involving line and substation rentals, system support charges, and special contract transactions.

² Reported as Power Exchange in account 555, "Purchased Power Transactions," of the FERC Uniform System of Accounts.

³ Reported as transmission services in account 456, "Transmission For Others," and in account 565, "Transmission By Others," of the FERC Uniform System of Accounts. Total quantity of wheeling may not be reported.

—Not Applicable

Notes: •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See glossary for a list of regions. •The isolated service territories of the same utility are assigned one NERC Region identification. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others."

•FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

Table 16. Deliveries by Investor-Owned Utilities Within and Between NERC Regions, 1996

NERC Region of Investor-Owned Utilities/ Type of Transaction	Destination of Electricity to All Ownership Classes by NERC Region			
	ECAR		ERCOT	
	Energy (thousand kWh)	Revenue (dollars)	Energy (thousand kWh)	Revenue (dollars)
ECAR				
Firm Sales.....	62,704,322	1,642,818,744	347,629	7,009,165
Nonfirm Sales.....	57,031,895	1,209,720,109	453,542	10,302,502
Miscellaneous Sales ¹	4,635,116	176,349,000	1,376,669	11,214,563
Exchanges Delivered ²	544,581	—	—	—
Wheeling For Others ³	32,789,310	103,852,901	362,430	1,263,376
ERCOT				
Firm Sales.....	—	—	6,889,809	296,120,861
Nonfirm Sales.....	—	—	2,630,318	72,432,906
Miscellaneous Sales ¹	—	—	580	1,148,584
Exchanges Delivered ²	—	—	29,753,391	—
Wheeling For Others ³	—	11,318	17,980,790	44,515,239
MAAC				
Firm Sales.....	1,700,443	36,840,608	72,710	2,177,540
Nonfirm Sales.....	35,999	1,348,568	173,794	4,499,827
Miscellaneous Sales ¹	1,386,051	30,996,045	36,315	833,180
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	3,411,406	2,237,439	36,977	84,698
MAIN				
Firm Sales.....	2,129,834	48,379,616	234,556	5,267,361
Nonfirm Sales.....	1,226,394	19,631,794	335,767	7,029,115
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	91,982	134,045	215,796	428,665
MAPP				
Firm Sales.....	—	—	—	—
Nonfirm Sales.....	7,375	136,726	48,708	815,626
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	—	—	13,687	24,161
NPCC				
Firm Sales.....	7,445	147,627	1,500	28,500
Nonfirm Sales.....	196,465	5,019,563	2,172	46,936
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	76,414	186,110	808	3,555
SERC				
Firm Sales.....	800,063	19,613,639	43,568	1,147,606
Nonfirm Sales.....	178,071	3,894,317	197,961	4,322,082
Miscellaneous Sales ¹	800	—	—	—
Exchanges Delivered ²	24,195	—	—	—
Wheeling For Others ³	1,007,255	2,257,775	238,328	577,951
SPP				
Firm Sales.....	—	—	2,245,623	85,837,473
Nonfirm Sales.....	110,735	1,738,088	1,818,421	40,048,576
Miscellaneous Sales ¹	—	—	9,464	272,350
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	205,671	308,786	561,071	5,081,692
WSCC				
Firm Sales.....	—	4,500	335,814	14,389,329
Nonfirm Sales.....	78,186	1,246,067	2,389,242	37,714,356
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	6,620	—
Wheeling For Others ³	—	—	190,000	213,068
Region Total				
Firm Sales Receipts.....	67,342,107	1,747,804,734	10,171,209	411,977,835
Nonfirm Sales Receipts.....	58,865,120	1,242,735,232	8,049,925	177,211,926
Miscellaneous Sales Receipts ¹	6,021,967	207,345,045	1,423,028	13,468,677
Exchanges Delivered Receipts ²	568,776	—	29,760,011	—
Wheeling For Others Receipts ³	37,582,038	108,988,374	19,599,887	52,192,405

See notes and footnotes at end of table.

Table 16. Deliveries by Investor-Owned Utilities Within and Between NERC Regions, 1996
(Continued)

NERC Region of Investor-Owned Utilities/ Type of Transaction	Destination of Electricity to All Ownership Classes by NERC Region			
	MAAC		MAIN	
	Energy (thousand kWh)	Revenue (dollars)	Energy (thousand kWh)	Revenue (dollars)
ECAR				
Firm Sales.....	7,567,596	265,993,656	985,645	21,892,125
Nonfirm Sales.....	4,116,020	86,180,893	1,470,115	39,607,418
Miscellaneous Sales ¹	131,702	973,524	—	—
Exchanges Delivered ²	—	—	100	—
Wheeling For Others ³	15,058,872	41,884,762	800,128	2,727,294
ERCOT				
Firm Sales.....	—	—	—	—
Nonfirm Sales.....	—	—	—	—
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	—	—	—	—
MAAC				
Firm Sales.....	20,146,272	651,121,324	1,168,914	31,603,280
Nonfirm Sales.....	28,924,190	758,540,454	30,119	1,030,126
Miscellaneous Sales ¹	5,499,350	134,006,107	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	14,244,270	60,484,956	—	—
MAIN				
Firm Sales.....	1,525	34,058	20,683,244	635,666,649
Nonfirm Sales.....	5,768,989	89,290,395	12,436,971	187,606,197
Miscellaneous Sales ¹	—	—	1,551	—
Exchanges Delivered ²	—	—	140,115	—
Wheeling For Others ³	—	—	6,145,151	28,747,641
MAPP				
Firm Sales.....	—	—	4,159,548	70,145,213
Nonfirm Sales.....	—	—	2,566,721	35,812,507
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	—	—	2,151,255	4,976,487
NPCC				
Firm Sales.....	1,457,258	71,380,098	—	—
Nonfirm Sales.....	286,641	10,344,330	—	—
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	303,446	1,115,588	—	—
SERC				
Firm Sales.....	3,815,216	82,828,387	179,308	4,572,789
Nonfirm Sales.....	2,102,544	40,879,624	193,870	4,262,304
Miscellaneous Sales ¹	—	—	3,200	—
Exchanges Delivered ²	234,900	—	—	—
Wheeling For Others ³	3,653,339	3,634,807	—	53,594
SPP				
Firm Sales.....	—	—	1,461,630	36,707,744
Nonfirm Sales.....	—	—	1,378,838	23,443,379
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	1,380	—
Wheeling For Others ³	—	—	327,204	866,912
WSCC				
Firm Sales.....	128,332	2,716,065	—	20,700
Nonfirm Sales.....	254,083	4,092,768	677,023	8,880,697
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	—	12	59,789	253,407
Region Total				
Firm Sales Receipts.....	33,116,199	1,074,073,588	28,638,289	800,608,500
Nonfirm Sales Receipts.....	41,452,467	989,328,464	18,753,657	300,642,628
Miscellaneous Sales Receipts ¹	5,631,052	134,979,631	4,751	—
Exchanges Delivered Receipts ²	234,900	—	141,595	—
Wheeling For Others Receipts ³	33,259,927	107,120,125	9,483,527	37,625,335

See notes and footnotes at end of table.

Table 16. Deliveries by Investor-Owned Utilities Within and Between NERC Regions, 1996
(Continued)

NERC Region of Investor-Owned Utilities/ Type of Transaction	Destination of Electricity to All Ownership Classes by NERC Region			
	MAPP		NPCC	
	Energy (thousand kWh)	Revenue (dollars)	Energy (thousand kWh)	Revenue (dollars)
ECAR				
Firm Sales.....	67,200	1,357,440	215,380	3,482,279
Nonfirm Sales.....	644	9,055	42,281	1,043,377
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	—	—	11,150	-31,109
ERCOT				
Firm Sales.....	—	—	—	—
Nonfirm Sales.....	—	—	—	—
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	—	—	155,836	143,562
MAAC				
Firm Sales.....	—	—	3,399,305	77,154,026
Nonfirm Sales.....	101,775	2,262,124	2,663,275	59,856,694
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	—	—	1,359,037	4,039,138
MAIN				
Firm Sales.....	1,331,977	46,413,322	—	—
Nonfirm Sales.....	720,965	17,314,411	1,250	24,250
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	53,011	206,297	—	—
MAPP				
Firm Sales.....	4,975,170	150,526,417	—	—
Nonfirm Sales.....	4,603,218	77,749,606	68,233	752,973
Miscellaneous Sales ¹	5,720,737	173,349,295	—	—
Exchanges Delivered ²	38,803	—	—	—
Wheeling For Others ³	11,244,646	28,979,139	—	—
NPCC				
Firm Sales.....	—	—	48,850,867	2,756,937,094
Nonfirm Sales.....	—	—	50,983,608	1,657,676,217
Miscellaneous Sales ¹	—	—	3,979,371	202,369,598
Exchanges Delivered ²	—	—	754,753	—
Wheeling For Others ³	—	—	61,038,654	574,148,037
SERC				
Firm Sales.....	—	—	6,170	169,709
Nonfirm Sales.....	—	—	—	—
Miscellaneous Sales ¹	16,800	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	—	—	—	—
SPP				
Firm Sales.....	—	—	—	—
Nonfirm Sales.....	158,618	3,882,031	—	—
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	203,582	112,558	—	—
WSCC				
Firm Sales.....	237,681	7,169,980	1,123,877	47,815,880
Nonfirm Sales.....	167,475	2,526,832	148,633	2,500,881
Miscellaneous Sales ¹	—	232	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	38,758	257,400	180	6,970
Region Total				
Firm Sales Receipts.....	6,612,028	205,467,159	53,595,599	2,885,558,988
Nonfirm Sales Receipts.....	5,752,695	103,744,059	53,907,280	1,721,854,392
Miscellaneous Sales Receipts ¹	5,737,537	173,349,527	3,979,371	202,369,598
Exchanges Delivered Receipts ²	38,803	—	754,753	—
Wheeling For Others Receipts ³	11,539,997	29,555,394	62,564,857	578,306,598

See notes and footnotes at end of table.

Table 16. Deliveries by Investor-Owned Utilities Within and Between NERC Regions, 1996
(Continued)

NERC Region of Investor-Owned Utilities/ Type of Transaction	Destination of Electricity to All Ownership Classes by NERC Region			
	SERC		SPP	
	Energy (thousand kWh)	Revenue (dollars)	Energy (thousand kWh)	Revenue (dollars)
ECAR				
Firm Sales.....	8,397,902	234,080,548	424,729	14,405,473
Nonfirm Sales.....	1,982,175	47,144,045	234,908	4,473,708
Miscellaneous Sales ¹	629,846	9,288,788	—	—
Exchanges Delivered ²	452,180	—	—	—
Wheeling For Others ³	6,176,826	21,145,296	—	—
ERCOT				
Firm Sales.....	—	—	1,137,905	67,726,050
Nonfirm Sales.....	—	—	159,157	3,966,029
Miscellaneous Sales ¹	—	—	—	1,115
Exchanges Delivered ²	—	—	3,826,020	—
Wheeling For Others ³	—	—	3,441,677	17,003,025
MAAC				
Firm Sales.....	3,212,570	71,797,184	118,406	2,879,861
Nonfirm Sales.....	76,987	1,860,560	615	6,711
Miscellaneous Sales ¹	1,751,778	39,439,340	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	1,125,738	3,630,670	—	—
MAIN				
Firm Sales.....	—	—	3,129,479	59,626,068
Nonfirm Sales.....	1,235,766	22,226,132	1,917,019	54,605,765
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	163,980	254,038	397,463	233,442
MAPP				
Firm Sales.....	—	—	428,529	9,188,446
Nonfirm Sales.....	59,419	869,817	1,829,164	26,047,884
Miscellaneous Sales ¹	—	—	—	217
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	81,001	225,731	234,922	550,350
NPCC				
Firm Sales.....	4,794	109,231	—	—
Nonfirm Sales.....	44,525	1,269,695	62,400	99,711
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	—	—	—	—
SERC				
Firm Sales.....	37,587,627	1,724,218,460	15,563	1,619,022
Nonfirm Sales.....	41,902,925	1,216,645,959	8,955,965	691,461,032
Miscellaneous Sales ¹	-430,367	-21,512,775	—	—
Exchanges Delivered ²	8,232,256	—	—	—
Wheeling For Others ³	21,651,447	112,867,540	171,651	1,929,463
SPP				
Firm Sales.....	286,118	18,839,756	21,438,564	727,120,442
Nonfirm Sales.....	262,072	5,831,217	27,852,531	681,904,436
Miscellaneous Sales ¹	1,600	6,720,424	311,482	15,832,026
Exchanges Delivered ²	—	—	1,941,667	—
Wheeling For Others ³	44,935	1,090,184	22,716,706	105,935,054
WSCC				
Firm Sales.....	870,930	14,221,429	434,614	23,195,046
Nonfirm Sales.....	1,032,050	17,391,098	1,311,320	17,933,643
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	968	—
Wheeling For Others ³	1,562,351	4,685,506	151,566	1,978,622
Region Total				
Firm Sales Receipts.....	50,359,941	2,063,266,608	27,127,789	905,760,408
Nonfirm Sales Receipts.....	46,595,919	1,313,238,523	42,323,079	1,480,498,919
Miscellaneous Sales Receipts ¹	1,952,857	33,935,777	311,482	15,833,358
Exchanges Delivered Receipts ²	8,684,436	—	5,768,655	—
Wheeling For Others Receipts ³	30,806,278	143,898,965	27,113,985	127,629,956

See notes and footnotes at end of table.

Table 16. Deliveries by Investor-Owned Utilities Within and Between NERC Regions, 1996
(Continued)

NERC Region of Investor-Owned Utilities/ Type of Transaction	Destination of Electricity to All Ownership Classes by NERC Region			
	WSCC		Contiguous U.S. Total	
	Energy (thousand kWh)	Revenue (dollars)	Energy (thousand kWh)	Revenue (dollars)
ECAR				
Firm Sales.....	—	—	80,710,403	2,191,039,430
Nonfirm Sales.....	—	—	65,331,580	1,398,481,107
Miscellaneous Sales ¹	168	—	6,773,501	197,825,875
Exchanges Delivered ²	—	—	996,861	—
Wheeling For Others ³	—	—	55,198,716	170,842,520
ERCOT				
Firm Sales.....	—	—	8,027,714	363,846,911
Nonfirm Sales.....	—	—	2,789,475	76,398,935
Miscellaneous Sales ¹	—	—	580	1,149,699
Exchanges Delivered ²	—	—	33,579,411	—
Wheeling For Others ³	—	—	21,578,303	61,673,144
MAAC				
Firm Sales.....	—	—	29,818,620	873,573,823
Nonfirm Sales.....	21,290	462,831	32,028,044	829,867,895
Miscellaneous Sales ¹	—	—	8,673,494	205,274,672
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	—	—	20,177,428	70,476,901
MAIN				
Firm Sales.....	—	—	27,510,615	795,387,074
Nonfirm Sales.....	—	—	23,643,121	397,728,059
Miscellaneous Sales ¹	—	—	1,551	—
Exchanges Delivered ²	—	—	140,115	—
Wheeling For Others ³	800	1,364	7,068,183	30,005,492
MAPP				
Firm Sales.....	—	—	9,563,247	229,860,076
Nonfirm Sales.....	79,169	1,386,752	9,262,007	143,571,891
Miscellaneous Sales ¹	—	—	5,720,737	173,349,512
Exchanges Delivered ²	33,590	—	72,393	—
Wheeling For Others ³	1,622,428	1,281,572	15,347,939	36,037,440
NPCC				
Firm Sales.....	—	—	50,321,864	2,828,602,550
Nonfirm Sales.....	38,914	981,796	51,614,725	1,675,438,248
Miscellaneous Sales ¹	—	—	3,979,371	202,369,598
Exchanges Delivered ²	—	—	754,753	—
Wheeling For Others ³	157	310	61,419,479	575,453,600
SERC				
Firm Sales.....	—	—	42,447,515	1,834,169,612
Nonfirm Sales.....	18,916	379,392	53,550,252	1,961,844,710
Miscellaneous Sales ¹	—	—	-409,567	-21,512,775
Exchanges Delivered ²	—	—	8,491,351	—
Wheeling For Others ³	1,034,665	2,797,397	27,756,685	124,118,527
SPP				
Firm Sales.....	151,737	9,480,613	25,583,672	877,986,028
Nonfirm Sales.....	714,248	28,210,275	32,295,463	785,058,002
Miscellaneous Sales ¹	—	—	322,546	22,824,800
Exchanges Delivered ²	17,676	—	1,960,723	—
Wheeling For Others ³	578,254	703,046	24,637,423	114,098,232
WSCC				
Firm Sales.....	27,064,521	1,228,547,650	30,195,769	1,338,080,579
Nonfirm Sales.....	51,134,804	771,302,119	57,192,816	863,588,461
Miscellaneous Sales ¹	24,372	-14,926,809	24,372	-14,926,577
Exchanges Delivered ²	23,480,762	—	23,488,350	—
Wheeling For Others ³	67,737,147	202,020,569	69,739,791	209,415,554
Region Total				
Firm Sales Receipts.....	27,216,258	1,238,028,263	304,179,419	11,332,546,083
Nonfirm Sales Receipts.....	52,007,341	802,723,165	327,707,483	8,131,977,308
Miscellaneous Sales Receipts ¹	24,540	-14,926,809	25,086,585	766,354,804
Exchanges Delivered Receipts ²	23,532,028	—	69,483,957	—
Wheeling For Others Receipts ³	70,973,451	206,804,258	302,923,947	1,392,121,410

¹ Miscellaneous sales include other transactions involving line and substation rentals, system support charges, and special contract transactions.

² Reported as Power Exchange in account 555, "Purchased Power Transactions," of the FERC Uniform System of Accounts.

³ Reported as transmission services in account 456, "Transmission For Others," and in account 565, "Transmission By Others," of the FERC Uniform System of Accounts. Total quantity of wheeling may not be reported.

—Not Applicable

Notes: •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See glossary for a list of regions. •The isolated service territories of the same utility are assigned one NERC Region identification. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others."

•FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

Table 17. Electricity Transactions by Investor-Owned Utilities in Alaska and Hawaii, 1996

Type of Transaction	Alaska		Hawaii	
	Energy (thousand kWh)	Cost (dollars)	Energy (thousand kWh)	Cost (dollars)

Received

Firm Purchases	—	—	82,536	7,005,413
Nonfirm Purchases	260,307	8,873,948	3,113,701	247,560,091
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	4,111	—
Wheeling By Other ³	—	—	—	—

	Alaska		Hawaii	
	Energy (thousand kWh)	Revenue (dollars)	Energy (thousand kWh)	Revenue (dollars)

Delivered

Firm Sales	—	—	—	—
Nonfirm Sales	—	—	—	—
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	6,648	-133,042
Wheeling For Others ³	—	—	—	—

¹ Miscellaneous purchases include other transactions involving line and substation rentals, system support charges, and special contract transactions.

² Reported as Power Exchange in account 555, "Purchased Power Transactions," of the FERC Uniform System of Accounts.

³ Reported as transmission services in account 456, "Transmission For Others," and in account 565, "Transmission By Others," of the FERC Uniform System of Accounts. Total quantity of wheeling may not be reported.

—Not Applicable

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

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

Table 18. U.S. Electricity Trade with Canada and Mexico by NERC Region, 1996

Province, Country/ Type of Transaction	U.S. NERC Region					Region Total
	NPCC	ECAR	ERCOT	MAPP	WSCC	
New Brunswick, Canada						
Imports From (thousand kWh)	2,894,544	--	--	--	--	2,894,544
Cost (dollars)	68,755,616	--	--	--	--	68,755,616
Exports To (thousand kWh).....	312,726	--	--	--	--	312,726
Revenue (dollars)	665,865	--	--	--	--	665,865
Quebec, Canada						
Imports From (thousand kWh)	14,988,194	--	--	--	--	14,988,194
Cost (dollars)	324,841,148	--	--	--	--	324,841,148
Exports To (thousand kWh).....	718,680	--	--	--	--	718,680
Revenue (dollars)	19,359,417	--	--	--	--	19,359,417
Ontario, Canada						
Imports From (thousand kWh)	2,665,684	2,110,820	--	--	--	4,776,504
Cost (dollars)	38,654,729	54,537,592	--	--	--	93,192,321
Exports To (thousand kWh).....	494,082	209,243	--	--	--	703,325
Revenue (dollars)	4,314,170	3,390,900	--	--	--	7,705,070
Manitoba, Canada						
Imports From (thousand kWh)	--	--	--	11,534,423	--	11,534,423
Cost (dollars)	--	--	--	211,134,501	--	211,134,501
Exports To (thousand kWh).....	--	--	--	591,143	--	591,143
Revenue (dollars)	--	--	--	3,795,879	--	3,795,879
Saskatchewan, Canada						
Imports From (thousand kWh)	--	--	--	318,015	--	318,015
Cost (dollars)	--	--	--	2,431,995	--	2,431,995
Exports To (thousand kWh).....	--	--	--	57,763	--	57,763
Revenue (dollars)	--	--	--	381,885	--	381,885
Alberta, Canada						
Imports From (thousand kWh)	--	--	--	--	--	--
Cost (dollars)	--	--	--	--	--	--
Exports To (thousand kWh).....	--	--	--	107	3,188	3,295
Revenue (dollars)	--	--	--	6,841	136,750	143,591
British Columbia, Canada						
Imports From (thousand kWh)	--	--	--	--	10,768,584	10,768,584
Cost (dollars)	--	--	--	--	85,141,894	85,141,894
Exports To (thousand kWh).....	--	--	--	--	5,317,688	5,317,688
Revenue (dollars)	--	--	--	--	11,208,537	11,208,537
Canada						
Imports From (thousand kWh)	20,548,422	2,110,820	--	11,852,438	10,768,584	45,280,264
Cost (dollars)	432,051,493	54,537,592	--	213,566,496	85,141,894	785,297,475
Exports To (thousand kWh).....	1,525,488	209,243	--	649,013	5,320,876	7,704,620
Revenue (dollars)	24,339,452	3,390,900	--	4,184,605	11,345,287	43,260,244
Mexico						
Imports From (thousand kWh)	--	--	5,566	--	1,257,786	1,263,152
Cost (dollars)	--	--	133,434	--	45,056,465	45,189,799
Exports To (thousand kWh).....	--	--	2,395	--	1,313,230	1,315,625
Revenue (dollars)	--	--	206,100	--	53,834,050	54,040,150
Contiguous U.S. Total						
Imports To (thousand kWh)	20,548,422	2,110,820	5,566	11,852,438	12,026,370	46,543,416
Cost (dollars)	432,051,493	54,537,592	133,434	213,566,496	130,198,359	830,487,274
Exports From (thousand kWh)	1,525,488	209,243	2,395	649,013	6,634,106	9,020,245
Revenue (dollars)	24,339,452	3,390,900	206,100	4,184,605	65,179,337	97,300,394

—Not Applicable

Notes: •The values do not reflect a large portion of U.S.-Canadian electricity trade that occurs on an exchange basis; i.e., energy imported is returned in kind with no monetary consideration. This "zero-cost" of imported and exported energy distorts the price-per-kilowatt-hour calculation. •The States of Alaska and Hawaii are not included. •NERC is the North American Electric Reliability Council. The Alaska Systems Coordinating Council is not included. See glossary for a list of regions. •Totals may not equal sum of components because of independent rounding.

Source: Office of Fossil Energy, Form FE-781R "Annual Report of International Electrical Export/Import Data."

2. Bulk Power Transactions by Investor-Owned Utilities

Overview

This chapter presents data for individual investor-owned utilities on purchased power, sales for resale, exchanges, and wheeling. Sales for resale are generally sales to other investor-owned utilities, public power municipals, and cooperatives under obligations to support wholesale requirement customers. These sales represent one of the most active parts of the electricity trade market. Purchases are generally made from other investor-owned utilities and Federal power marketing authorities. These purchases are made in order to take advantage of cheaper rates generally coming from hydroelectric generation, to supplement or replace internal power supplies, and for handling longer-term energy emergencies. Exchanges cover in-kind transfers, and wheeling (transmission for and by others) describes transmission services provided by utilities to other utilities. The tables present data for individual utilities aggregated to show trade with different classes of ownership.

Data are from the FERC Form 1, which is the only data source that identifies individual utilities involved in exchanges and wheeling.¹³

Tables

This chapter presents data on:

- Energy purchases and cost, with cost data shown for demand, energy, and other (Table 19).
- Sales for resale and revenue, with revenue data shown for demand, energy, and other (Table 20).
- Exchanges of power by ownership class, identifying quantities transferred with any monetary settlement (Table 21). Nonmonetary settlements that may have occurred are not shown. Exchanges

are transactions where electricity provided to one utility is returned in kind at a later date. In these transactions, the value of the electricity may or may not have been priced at the same level. Additional money or electricity could have been involved in the exchanges, but the details of the transactions are not collected on the FERC forms.

- Electricity purchases by investor-owned utilities not listed elsewhere (Table 22). (These utilities are not listed elsewhere because of their small size and/or their power was purchased from cooperatives.)
- Wheeling through and to service territories of investor-owned utilities (Tables 23 and 24).

In each table, the investor-owned utilities are listed by State according to their corporate mailing addresses.

Summary

Differences are present in all wholesale trade categories. Some are based on the diversity of the cost of energy coming from the individual mix of generating facilities that developed over time as the electric utility industry met local and regional changes in load. This includes development of inexpensive local natural resources. In other cases, differences can be explained because some electric utilities are requirement customers of others and lack generation capability so they cannot sell electricity.

The data indicate a great diversity in wholesale electricity trade and a complex market for electricity. The diversity represent differences in the influence of geographical location; the ability to access multiple parts of the transmission grid; the support of reliability and stability standards; and the load requirements coming from varied customer compositions of service territories.

¹³ This is not the case for other data collected on exchanges and wheeling. Only aggregated data are collected on exchanges and wheeling on Form EIA-861, "Annual Electric Utility Report" and Form EIA-412, "Annual Report of Public Electric Utilities" starting in 1989.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996

Source of Electricity by Ownership Class	Alabama Alabama Power Co	Alabama Southern Electric Generating Co ⁵	Alaska Alaska Electric Light & Power ⁴	Arizona Ajo Improvement Co ⁸	Arizona Arizona Public Service Co	Arizona Century Power Corp ⁵	Arizona Citizens Utilities Co
Investor-Owned							
Purchases (thousand kWh)	3,166,368	—	—	—	1,893,156	—	—
Cost (dollars).....	86,838,975	—	—	—	39,278,601	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	10,620,273	—	—
Energy.....	86,838,975	—	—	—	28,658,328	—	—
Other ²	—	—	—	—	—	—	—
Federal							
Purchases (thousand kWh)	119,670	—	260,307	—	189,211	—	—
Cost (dollars).....	2,792,537	—	8,873,948	—	2,595,283	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	2,792,537	—	8,873,948	—	2,595,283	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	23,107	—	—	—	625,973	—	—
Cost (dollars).....	608,815	—	—	—	35,153,342	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	18,783,975	—	—
Energy.....	608,815	—	—	—	16,369,367	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	10,855	—	—	—	63,551	—	—
Cost (dollars).....	380,908	—	—	—	1,395,929	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	380,908	—	—	—	1,395,929	—	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	62,693	—	—	—	1,679	—	—
Cost (dollars).....	3,137,996	—	—	—	25,421	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	3,137,996	—	—	—	25,421	—	—
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	1,088,180	—	—	—	1,249,513	—	—
Cost (dollars).....	34,554,414	—	—	—	16,681,993	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	29,772,137	—	—	—	16,681,993	—	—
Other ²	4,782,277	—	—	—	—	—	—
Total							
Purchases (thousand kWh)	4,470,873	—	260,307	—	4,023,083	—	—
Cost (dollars).....	128,313,645	—	8,873,948	—	95,130,569	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	29,404,248	—	—
Energy.....	123,531,368	—	8,873,948	—	65,726,321	—	—
Other ²	4,782,277	—	—	—	—	—	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Arizona Tucson Electric Power Co	Arkansas Arkansas Power & Light Co	Arkansas Entergy Power Co	California Pacific Gas & Electric Co	California San Diego Gas & Electric Co	California Southern California Edison Co	Colorado Public Service Co of Colorado
Investor-Owned							
Purchases (thousand kWh)	335,835	3,640,653	—	838,361	2,602,610	3,008,290	1,790,785
Cost (dollars).....	4,957,081	250,254,298	—	16,000,322	97,006,716	88,805,531	57,415,933
Demand Charge Only ¹	—	—	—	800	—	16,900,000	—
Demand.....	—	219,885,243	—	—	58,043,006	22,152,406	30,675,028
Energy.....	4,957,081	30,369,055	—	15,999,522	38,963,710	49,753,125	26,964,873
Other ²	—	—	—	—	—	—	-223,968
Federal							
Purchases (thousand kWh)	102,556	1,759,605	—	—	1,235,587	4,486,113	101,659
Cost (dollars).....	1,109,400	36,071,071	—	—	12,427,449	81,174,821	868,072
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	3,006,900	—
Energy.....	1,109,400	36,071,071	—	—	12,427,449	78,159,666	868,072
Other ²	—	—	—	—	—	8,255	—
State and Other							
Government							
Purchases (thousand kWh)	107,014	67	—	5,035,133	862,788	525,589	1,112,952
Cost (dollars).....	1,525,768	2,417	—	43,224,391	15,269,173	8,415,764	54,348,392
Demand Charge Only ¹	—	—	—	—	—	900,000	—
Demand.....	—	—	—	158,176	—	19,160	35,812,316
Energy.....	1,525,768	2,417	—	43,066,215	15,269,173	7,496,604	18,536,076
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	71,399	76,508	—	170,499	349,701	872,622	6,093
Cost (dollars).....	1,113,956	1,469,850	—	4,391,162	7,975,358	42,105,177	196,718
Demand Charge Only ¹	—	—	—	1,365,000	—	—	—
Demand.....	—	—	—	40,800	2,268,090	6,346,427	109,753
Energy.....	1,113,956	1,469,850	—	2,985,362	5,707,268	41,032,967	86,965
Other ²	—	—	—	—	—	-5,274,217	—
Cooperative							
Purchases (thousand kWh)	116,974	2,748,708	—	478,252	120	3,591	3,378,170
Cost (dollars).....	2,250,134	52,914,424	—	4,844,387	19,426	64,522	152,646,631
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	172,224	—	—	103,664,873
Energy.....	2,250,134	52,914,424	—	4,672,163	19,426	53,722	48,981,758
Other ²	—	—	—	—	—	10,800	—
Other³							
Purchases (thousand kWh)	196,541	3,588,546	—	27,804,245	5,012,261	29,676,068	2,829,470
Cost (dollars).....	3,884,860	92,112,805	—	1,766,853,498	175,675,969	2,484,752,527	173,703,611
Demand Charge Only ¹	144,000	—	—	—	—	—	—
Demand.....	—	—	—	520,790,705	60,608,899	667,728,889	137,493,414
Energy.....	3,593,628	92,113,466	—	1,245,568,735	115,067,070	1,780,084,156	35,926,034
Other ²	147,232	-661	—	494,058	—	36,939,482	284,163
Total							
Purchases (thousand kWh)	930,319	11,814,087	—	34,326,490	10,063,067	38,572,273	9,219,129
Cost (dollars).....	14,841,199	432,824,865	—	1,835,313,760	308,374,091	2,705,318,342	439,179,357
Demand Charge Only ¹	144,000	—	—	1,365,800	—	17,800,000	—
Demand.....	—	219,885,243	—	521,161,905	120,919,995	699,253,782	307,755,384
Energy.....	14,549,967	212,940,283	—	1,312,291,997	187,454,096	1,956,580,240	131,363,778
Other ²	147,232	-661	—	494,058	—	31,684,320	60,195

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Colorado Utilicorp United Inc	Connecticut Connecticut Light & Power Co	Connecticut Connecticut Yankee Atomic Power Co ⁵	Connecticut United Illuminating Co	Delaware Delmarva Power & Light Co	District of Columbia Potomac Electric Power Co	Florida Florida Power & Light Co
Investor-Owned							
Purchases (thousand kWh)	—	6,808,970	—	348,147	2,415,285	8,963,342	1,199,112
Cost (dollars).....	—	225,516,103	—	21,579,170	52,073,579	296,054,391	22,091,871
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	18,175,551	—	—	—
Energy.....	—	125,820,717	—	3,403,619	52,073,579	172,899,503	22,091,871
Other ²	—	99,695,386	—	—	—	123,154,888	—
Federal							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars).....	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	—	123,075	—	9,085	—	—	338,985
Cost (dollars).....	—	3,273,074	—	62,477	—	—	17,000,875
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	11,691,540
Energy.....	—	3,090,394	—	62,477	—	—	5,248,136
Other ²	—	182,680	—	—	—	—	61,199
Municipal							
Purchases (thousand kWh)	—	213,580	—	—	39,688	—	3,597,971
Cost (dollars).....	—	16,474,325	—	—	2,076,307	—	131,659,235
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	77,135,218
Energy.....	—	16,474,325	—	—	1,223,241	—	55,251,123
Other ²	—	—	—	—	853,066	—	-727,106
Cooperative							
Purchases (thousand kWh)	—	16,076	—	—	—	—	547,656
Cost (dollars).....	—	321,913	—	—	—	5,538,905	10,382,000
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	321,913	—	—	—	—	10,378,931
Other ²	—	—	—	—	—	5,538,905	3,069
Other³							
Purchases (thousand kWh)	—	13,816,386	—	996,189	3,740,747	7,325,617	13,067,225
Cost (dollars).....	—	599,070,680	—	54,207,721	124,560,385	160,171,074	648,195,208
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	28,633,525	30,449,978	—	381,392,342
Energy.....	—	527,905,594	—	23,618,196	89,172,129	144,896,345	255,014,840
Other ²	—	71,165,086	—	1,956,000	4,938,278	15,274,729	11,788,026
Total							
Purchases (thousand kWh)	—	20,978,087	—	1,353,421	6,195,720	16,288,959	18,750,949
Cost (dollars).....	—	844,656,095	—	75,849,368	178,710,271	461,764,370	829,329,189
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	46,809,076	30,449,978	—	470,219,100
Energy.....	—	673,612,943	—	27,084,292	142,468,949	317,795,848	347,984,901
Other ²	—	171,043,152	—	1,956,000	5,791,344	143,968,522	11,125,188

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Florida	Florida	Florida	Georgia	Georgia	Hawaii	Hawaii
	Florida Power Corp	Gulf Power Co	Tampa Electric Co	Georgia Power Co	Savannah Electric & Power Co	Citizens Utilities Co ⁴	Hawaiian Electric Co Inc ⁴
Investor-Owned							
Purchases (thousand kWh)	815,579	96,478	79,632	3,431,658	23,345	—	—
Cost (dollars).....	30,408,653	2,809,356	3,383,147	103,815,124	707,334	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	5,656,404	—	—	642,143	—	—	—
Energy.....	24,752,249	2,809,356	3,341,401	103,172,981	707,334	—	—
Other ²	—	—	41,746	—	—	—	—
Federal							
Purchases (thousand kWh)	34,439	23,308	—	179,306	8,935	—	—
Cost (dollars).....	318,492	542,007	—	4,213,046	208,494	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	318,492	542,007	—	4,213,046	208,494	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	313,636	4,695	—	1,538,155	1,725	—	—
Cost (dollars).....	13,425,380	127,133	—	84,609,777	45,463	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	6,915,056	—	—	59,683,000	—	—	—
Energy.....	6,510,324	127,133	—	24,926,777	45,463	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	325,602	2,079	47,514	52,409	711	—	—
Cost (dollars).....	10,605,731	63,641	2,336,565	1,148,739	23,676	—	—
Demand Charge Only ¹	—	—	492,480	—	—	—	—
Demand.....	—	—	109	6,809	—	—	—
Energy.....	10,605,731	63,641	1,843,806	1,141,930	23,676	—	—
Other ²	—	—	170	—	—	—	—
Cooperative							
Purchases (thousand kWh)	313,656	24,321	15,165	1,165,845	2,085	—	—
Cost (dollars).....	2,359,169	371,793	561,950	21,271,681	52,162	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	2,359,169	371,793	559,095	21,271,681	52,162	—	—
Other ²	—	—	2,855	—	—	—	—
Other³							
Purchases (thousand kWh)	9,351,972	1,209,019	773,517	8,197,388	2,673,402	—	3,113,701
Cost (dollars).....	477,085,961	39,462,389	42,717,386	171,573,073	59,903,755	—	247,560,091
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	271,465,173	8,814,954	24,850,773	—	339,579	—	—
Energy.....	205,620,788	30,647,435	17,866,613	171,573,073	59,564,176	—	141,250,205
Other ²	—	—	—	—	—	—	106,309,886
Total							
Purchases (thousand kWh)	11,154,884	1,359,900	915,828	14,564,761	2,710,203	—	3,113,701
Cost (dollars).....	534,203,386	43,376,319	48,999,048	386,631,440	60,940,884	—	247,560,091
Demand Charge Only ¹	—	—	492,480	—	—	—	—
Demand.....	284,036,633	8,814,954	24,850,882	60,331,952	339,579	—	—
Energy.....	250,166,753	34,561,365	23,610,915	326,299,488	60,601,305	—	141,250,205
Other ²	—	—	44,771	—	—	—	106,309,886

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Hawaii Maui Electric Co Ltd ⁴	Idaho Citizens Utilities Co ⁴	Idaho Idaho Power Co	Illinois Central Illinois Light Co	Illinois Central Illinois Public Service Co	Illinois Commonwealth Edison Co	Illinois Electric Energy Inc
Investor-Owned							
Purchases (thousand kWh)	—	—	1,027,143	293,550	1,334,655	5,826,135	3,746,993
Cost (dollars).....	—	—	21,143,451	9,127,275	24,815,777	199,104,936	59,162,543
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	719,458	4,550,000	5,166,724	30,131,701	—
Energy.....	—	—	20,423,993	4,577,275	19,649,053	168,973,235	59,162,543
Other ²	—	—	—	—	—	—	—
Federal							
Purchases (thousand kWh)	—	—	1,019,344	—	387,158	—	21,588
Cost (dollars).....	—	—	8,124,179	—	7,380,352	—	498,219
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	8,124,179	—	7,380,352	—	498,219
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	—	—	51,805	—	—	—	—
Cost (dollars).....	—	—	1,397,131	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	1,397,131	—	—	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	—	—	57,367	12,413	24,435	—	—
Cost (dollars).....	—	—	897,545	212,573	445,180	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	2,250	—	—
Energy.....	—	—	897,545	212,573	442,930	—	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	—	—	3,392	—	55,687	—	—
Cost (dollars).....	—	—	52,587	—	636,253	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	52,587	—	636,253	—	—
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	82,536	—	827,910	71,432	856,094	2,094,916	179,687
Cost (dollars).....	7,005,413	—	37,423,104	1,564,370	20,225,194	40,331,860	1,726,685
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	1,914,224	—	2,303,773	92,107	478,448	55,200	—
Energy.....	5,091,189	—	35,119,331	1,472,263	19,746,746	40,276,660	1,671,861
Other ²	—	—	—	—	—	—	54,824
Total							
Purchases (thousand kWh)	82,536	—	2,986,961	377,395	2,658,029	7,921,051	3,948,268
Cost (dollars).....	7,005,413	—	69,037,997	10,904,218	53,502,756	239,436,796	61,387,447
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	1,914,224	—	3,023,231	4,642,107	5,647,422	30,186,901	—
Energy.....	5,091,189	—	66,014,766	6,262,111	47,855,334	209,249,895	61,332,623
Other ²	—	—	—	—	—	—	54,824

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Illinois Illinois Power Co	Illinois Mt Carmel Public Utility Co	Indiana Alcoa Generating Corp ⁴	Indiana Commonwealth Edison of Indiana ⁵	Indiana Indiana Michigan Power Co	Indiana Indianapolis Power & Light Co	Indiana Northern Indiana Public Service Co
Investor-Owned							
Purchases (thousand kWh)	2,016,411	192,594	285,122	—	4,152,447	193,104	840,598
Cost (dollars).....	33,472,125	6,889,181	5,605,778	—	103,078,761	17,917,747	15,422,572
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	5,640,026	3,360,785	5,605,778	—	25,703	14,412,225	202,000
Energy.....	27,832,099	3,528,396	—	—	103,053,058	3,505,522	15,220,572
Other ²	—	—	—	—	—	—	—
Federal							
Purchases (thousand kWh)	526,949	—	—	—	43,526	—	—
Cost (dollars).....	14,572,446	—	—	—	1,003,886	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	3,063,623	—	—	—	—	—	—
Energy.....	11,508,823	—	—	—	1,003,886	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars).....	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	32,915	—	—	—	105	—	—
Cost (dollars).....	692,059	—	—	—	66,672	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	40,520	—	—	—	—	—	—
Energy.....	651,539	—	—	—	66,672	—	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	59,952	—	—	—	4,498	6,904	11,890
Cost (dollars).....	1,351,592	—	—	—	51,967	107,883	280,211
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	198,071	—	—	—	—	—	35,470
Energy.....	1,153,521	—	—	—	51,967	107,883	244,741
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	725,583	—	—	—	3,379,462	10,403	1,964,588
Cost (dollars).....	15,118,133	—	—	—	34,485,631	339,830	37,394,890
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	3,000	—	—	—	—	18,703	1,063,792
Energy.....	15,115,133	—	—	—	34,485,631	321,127	36,331,098
Other ²	—	—	—	—	—	—	—
Total							
Purchases (thousand kWh)	3,361,810	192,594	285,122	—	7,580,038	210,411	2,817,076
Cost (dollars).....	65,206,355	6,889,181	5,605,778	—	138,686,917	18,365,460	53,097,673
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	8,945,240	3,360,785	5,605,778	—	25,703	14,430,928	1,301,262
Energy.....	56,261,115	3,528,396	—	—	138,661,214	3,934,532	51,796,411
Other ²	—	—	—	—	—	—	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Indiana PSI Energy Inc	Indiana Southern Indiana Gas & Electric Co	Iowa Interstate Power Co	Iowa Iowa Electric Light & Power Co	Iowa Iowa Southern Utilities Co	Iowa Iowa- Illinois Gas & Electric Co	Iowa Midwest Power Systems Inc
Investor-Owned							
Purchases (thousand kWh)	6,941,485	238,030	1,169,350	—	—	—	—
Cost (dollars).....	124,764,773	3,920,966	28,655,232	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	2,616,612	381,982	13,575,000	—	—	—	—
Energy.....	122,148,161	3,513,677	13,993,084	—	—	—	—
Other ²	—	25,307	1,087,148	—	—	—	—
Federal							
Purchases (thousand kWh)	—	—	105,948	—	—	—	—
Cost (dollars).....	—	—	1,507,161	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	1,507,161	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	220,798	—	43,952	—	—	—	—
Cost (dollars).....	3,593,680	—	679,784	—	—	—	—
Demand Charge Only ¹	16,607	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	3,577,073	—	679,784	—	—	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	1,268	—	75,157	—	—	—	—
Cost (dollars).....	33,175	—	1,236,950	—	—	—	—
Demand Charge Only ¹	—	—	35,950	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	33,175	—	1,201,000	—	—	—	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	132,772	174,940	991,521	—	—	—	—
Cost (dollars).....	2,925,994	2,780,309	27,394,008	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	89,000	—	13,151,250	—	—	—	—
Energy.....	2,836,994	2,780,309	13,603,422	—	—	—	—
Other ²	—	—	639,336	—	—	—	—
Other³							
Purchases (thousand kWh)	1,093,676	63,048	114,455	—	—	—	—
Cost (dollars).....	24,554,948	1,593,752	2,082,416	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	168,310	—	—	—	—	—	—
Energy.....	24,386,638	1,593,752	2,082,416	—	—	—	—
Other ²	—	—	—	—	—	—	—
Total							
Purchases (thousand kWh)	8,389,999	476,018	2,500,383	—	—	—	—
Cost (dollars).....	155,872,570	8,295,027	61,555,551	—	—	—	—
Demand Charge Only ¹	16,607	—	35,950	—	—	—	—
Demand.....	2,873,922	381,982	26,726,250	—	—	—	—
Energy.....	152,982,041	7,887,738	33,066,867	—	—	—	—
Other ²	—	25,307	1,726,484	—	—	—	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Kansas Kansas Gas & Electric Co	Kansas Western Resources Inc	Kentucky Kentucky Power Co	Kentucky Kentucky Utilities Co	Kentucky Louisville Gas & Electric Co	Kentucky Union Light Heat & Power Co	Louisiana Catalyst Old River Hydro ⁵
Investor-Owned							
Purchases (thousand kWh)	230,166	101,956	2,609,497	1,638,768	383,041	3,601,370	—
Cost (dollars).....	5,295,819	2,247,407	69,921,845	33,161,161	6,125,582	143,566,440	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	9,634	15,996,724	—	67,100,540	—
Energy.....	5,295,819	2,247,407	69,912,211	17,164,437	3,099,148	100,838,362	—
Other ²	—	—	—	—	3,026,434	-24,372,462	—
Federal							
Purchases (thousand kWh)	—	—	15,626	400	74,811	—	—
Cost (dollars).....	—	—	363,537	19,355	2,522,687	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	363,537	19,355	2,522,687	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	475	596,463	—	—	—	—	—
Cost (dollars).....	4,988	8,211,403	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	4,988	8,211,403	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	—	16,385	21	1,495,395	2,182	—	—
Cost (dollars).....	—	2,121,309	1,951	28,301,953	29,895	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	1,382,884	—	7,958,234	—	—	—
Energy.....	—	738,425	1,951	20,343,719	29,895	—	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	97,840	1,682	—	9,200	152,811	—	—
Cost (dollars).....	1,338,508	65,722	-23	161,882	3,119,199	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	1,338,508	65,722	-23	161,882	3,119,199	—	—
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	183,782	99,370	1,901,959	21,826	177,397	—	—
Cost (dollars).....	4,843,415	1,873,719	26,197,546	846,071	4,829,018	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	229,210	—	—	—
Energy.....	4,843,415	1,873,719	26,197,546	616,861	4,829,018	—	—
Other ²	—	—	—	—	—	—	—
Total							
Purchases (thousand kWh)	512,263	815,856	4,527,103	3,165,589	790,242	3,601,370	—
Cost (dollars).....	11,482,730	14,519,560	96,484,856	62,490,422	16,626,381	143,566,440	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	1,382,884	9,634	24,184,168	—	67,100,540	—
Energy.....	11,482,730	13,136,676	96,475,222	38,306,254	13,599,947	100,838,362	—
Other ²	—	—	—	—	3,026,434	-24,372,462	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Louisiana	Louisiana	Louisiana	Louisiana	Maine	Maine	Maine
	Central Louisiana Electric Co Inc	Louisiana Power & Light Co	New Orleans Public Service Inc	Southwestern Electric Power Co	Bangor Hydro-Electric Co	Central Maine Power Co	Maine Electric Power Co Inc
Investor-Owned							
Purchases (thousand kWh)	10,532	2,264,962	1,627,686	34,340	1,648,935	4,223,078	1,440
Cost (dollars).....	252,961	111,849,475	116,032,377	987,344	49,450,131	155,462,112	18,565
Demand Charge Only ¹	—	—	—	—	43,130	—	—
Demand.....	—	86,209,768	104,765,589	—	12,415,792	—	—
Energy.....	252,961	25,639,707	11,266,788	943,136	36,991,209	62,848,738	18,565
Other ²	—	—	—	44,208	—	92,613,374	—
Federal							
Purchases (thousand kWh)	—	2,338,619	456,977	—	—	—	—
Cost (dollars).....	—	47,951,721	9,371,819	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	47,951,721	9,371,819	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	3,470	3,757	17	10,736	—	—	—
Cost (dollars).....	838,237	696,621	616	205,042	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	838,237	696,621	616	205,042	—	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	24,270	101,366	19,657	66,402	—	707	—
Cost (dollars).....	654,757	1,945,728	378,632	101,108	—	17,724	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	654,757	1,945,728	378,632	101,108	—	17,724	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	259,822	1,119,411	218,844	1,777,036	—	—	—
Cost (dollars).....	5,155,353	19,819,753	3,873,414	17,836,128	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	5,155,353	19,819,753	3,873,414	17,836,128	—	—	—
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	2,505,020	6,954,157	1,860,711	887,634	353,070	5,198,292	2,104,164
Cost (dollars).....	50,877,033	221,058,700	46,792,915	15,896,605	29,288,937	350,298,967	52,561,728
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	48,688,903	221,058,700	46,792,915	14,025,771	29,288,937	334,201,668	52,552,479
Other ²	2,188,130	—	—	1,870,834	—	16,097,299	9,249
Total							
Purchases (thousand kWh)	2,803,114	12,782,272	4,183,892	2,776,148	2,002,005	9,422,077	2,105,604
Cost (dollars).....	57,778,341	403,321,998	176,449,773	35,026,227	78,739,068	505,778,803	52,580,293
Demand Charge Only ¹	—	—	—	—	43,130	—	—
Demand.....	—	86,209,768	104,765,589	—	12,415,792	—	—
Energy.....	55,590,211	317,112,230	71,684,184	33,111,185	66,280,146	397,068,130	52,571,044
Other ²	2,188,130	—	—	1,915,042	—	108,710,673	9,249

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Maine Maine Public Service Co	Maine Maine Yankee Atomic Power Co ⁵	Maryland Allegheny Generating Co ⁵	Maryland Baltimore Gas & Electric Co	Maryland Conowingo Power Co	Maryland Potomac Edison Co	Massachusetts Boston Edison Co
Investor-Owned							
Purchases (thousand kWh)	355,409	—	—	2,367,028	—	4,506,918	1,815,878
Cost (dollars).....	12,713,723	—	—	89,115,456	—	187,238,402	89,895,223
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	48,530,815	—	39,071,975	52,203,350
Energy.....	3,654,570	—	—	13,427,900	—	63,070,792	37,691,873
Other ²	9,059,153	—	—	27,156,741	—	85,095,635	—
Federal							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars).....	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars).....	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	480	—	—	—	—	374	—
Cost (dollars).....	14,160	—	—	—	—	4,695	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	14,160	—	—	—	—	4,695	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars).....	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	403,240	—	—	5,193,141	—	307,158	5,707,048
Cost (dollars).....	21,492,115	—	—	118,865,710	—	4,593,051	288,311,368
Demand Charge Only ¹	—	—	—	—	—	1,529	—
Demand.....	19,279	—	—	4,494,087	—	13,225	60,234,077
Energy.....	20,583,408	—	—	114,371,623	—	4,578,297	228,077,291
Other ²	889,428	—	—	—	—	—	—
Total							
Purchases (thousand kWh)	759,129	—	—	7,560,169	—	4,814,450	7,522,926
Cost (dollars).....	34,219,998	—	—	207,981,166	—	191,836,148	378,206,591
Demand Charge Only ¹	—	—	—	—	—	1,529	—
Demand.....	19,279	—	—	53,024,902	—	39,085,200	112,437,427
Energy.....	24,252,138	—	—	127,799,523	—	67,653,784	265,769,164
Other ²	9,948,581	—	—	27,156,741	—	85,095,635	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Massachusetts Cambridge Electric Light Co	Massachusetts Canal Electric Co	Massachusetts Commonwealth Electric Co	Massachusetts Eastern Edison Co ⁴	Massachusetts Fitchburg Gas & Electric Lght Co	Massachusetts Great Bay Power Co ⁵	Massachusetts Holyoke Power & Electric Co
Investor-Owned							
Purchases (thousand kWh)	668,301	—	1,954,647	2,723,815	118,978	—	959,225
Cost (dollars).....	39,906,347	2,237,550	120,654,217	184,820,283	5,200,285	—	27,242,935
Demand Charge Only ¹	405,820	2,237,550	3,865,347	—	—	—	—
Demand.....	30,769,952	—	84,694,660	134,216,531	3,506,264	—	—
Energy.....	8,730,575	—	34,710,912	50,603,752	1,694,021	—	17,612,354
Other ²	—	—	-2,616,702	—	—	—	9,630,581
Federal							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars).....	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars).....	12,000	—	—	—	—	—	—
Demand Charge Only ¹	12,000	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	—	—	—	237	—	—	—
Cost (dollars).....	—	—	—	22,759	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	16,377	—	—	—
Energy.....	—	—	—	6,382	—	—	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars).....	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	754,969	269,888	2,521,147	—	355,758	—	—
Cost (dollars).....	27,737,623	5,645,602	158,955,208	6	17,450,906	—	—
Demand Charge Only ¹	—	—	28,000	—	—	—	—
Demand.....	11,658,944	155,781	68,008,529	—	8,550,947	—	—
Energy.....	16,742,164	5,489,821	89,354,804	6	8,899,959	—	—
Other ²	-663,485	—	1,563,875	—	—	—	—
Total							
Purchases (thousand kWh)	1,423,270	269,888	4,475,794	2,724,052	474,736	—	959,225
Cost (dollars).....	67,655,970	7,883,152	279,609,425	184,843,048	22,651,191	—	27,242,935
Demand Charge Only ¹	417,820	2,237,550	3,893,347	—	—	—	—
Demand.....	42,428,896	155,781	152,703,189	134,232,908	12,057,211	—	—
Energy.....	25,472,739	5,489,821	124,065,716	50,610,140	10,593,980	—	17,612,354
Other ²	-663,485	—	-1,052,827	—	—	—	9,630,581

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Massachusetts Holyoke Water Power Co	Massachusetts Massachusetts Electric Co	Massachusetts Montaup Electric Co	Massachusetts New England Hydro Trans Elec Co ⁸	Massachusetts New England Power Co	Massachusetts Western Massachusetts Electric Co	Massachusetts Yankee Atomic Electric Co ⁸
Investor-Owned							
Purchases (thousand kWh)	956,642	16,758,972	2,193,719	—	3,728,723	1,689,393	—
Cost (dollars).....	27,129,065	1,120,629,286	114,776,354	—	190,914,339	59,772,509	—
Demand Charge Only ¹	—	—	25,055	—	—	—	—
Demand.....	—	572,136,679	85,441,148	—	25,337,007	—	—
Energy.....	17,576,441	354,866,616	29,310,151	—	53,252,740	30,409,678	—
Other ²	9,552,624	193,625,991	—	—	112,324,592	29,362,831	—
Federal							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars).....	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	—	—	12	—	—	32,495	—
Cost (dollars).....	—	—	10,600	—	—	947,263	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	10,000	—	—	—	—
Energy.....	—	—	600	—	—	947,263	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	—	417	76,390	—	—	2,235	—
Cost (dollars).....	—	42,523	6,556,153	—	—	99,620	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	4,102,521	—	—	—	—
Energy.....	—	42,523	2,453,632	—	—	99,620	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	—	—	—	—	—	3,771	—
Cost (dollars).....	—	—	—	—	—	75,510	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	75,510	—
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	33,738	1,666	1,371,821	—	5,185,287	2,197,238	—
Cost (dollars).....	1,059,428	37,031	56,199,214	—	317,995,448	81,144,693	—
Demand Charge Only ¹	—	—	558,273	—	—	—	—
Demand.....	—	—	28,566,546	—	22,587,024	—	—
Energy.....	1,058,662	37,031	27,074,395	—	258,263,241	85,619,334	—
Other ²	766	—	—	—	37,145,183	-4,474,641	—
Total							
Purchases (thousand kWh)	990,380	16,761,055	3,641,942	—	8,914,010	3,925,132	—
Cost (dollars).....	28,188,493	1,120,708,840	177,542,321	—	508,909,787	142,039,595	—
Demand Charge Only ¹	—	—	583,328	—	—	—	—
Demand.....	—	572,136,679	118,120,215	—	47,924,031	—	—
Energy.....	18,635,103	354,946,170	58,838,778	—	311,515,981	117,151,405	—
Other ²	9,553,390	193,625,991	—	—	149,469,775	24,888,190	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Michigan	Michigan	Michigan	Michigan	Michigan	Minnesota	Minnesota
	Consumers Power Co	Detroit Edison Co	Edison Sault Electric Co	Upper Peninsula Power Co	Wolverine Hydroelectric Corp ⁵	Minnesota Power & Light Co	Northern States Power Co
Investor-Owned							
Purchases (thousand kWh)	3,769,741	3,264,600	313,682	744,318	—	144,058	1,548,809
Cost (dollars).....	89,489,848	65,875,215	13,699,220	18,621,258	—	2,026,741	72,487,467
Demand Charge Only ¹	—	120,893	—	—	—	—	—
Demand.....	27,344,896	6,896,205	4,852,252	5,636,451	—	4,195	3,375,453
Energy.....	62,181,958	58,858,117	7,634,089	12,998,154	—	2,022,546	23,563,013
Other ²	-37,006	—	1,212,879	-13,347	—	—	45,549,001
Federal							
Purchases (thousand kWh)	—	—	130,475	—	—	1,912,497	252,332
Cost (dollars).....	—	—	1,641,557	—	—	21,439,602	4,174,439
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	1,641,557	—	—	21,439,602	4,158,783
Other ²	—	—	—	—	—	—	15,656
State and Other							
Government							
Purchases (thousand kWh)	9,739	21,977	—	—	—	253,926	406,834
Cost (dollars).....	41,787	293,755	—	—	—	3,268,129	13,704,353
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	8,101,967
Energy.....	41,787	293,755	—	—	—	3,268,129	5,547,786
Other ²	—	—	—	—	—	—	54,600
Municipal							
Purchases (thousand kWh)	-1,046	468	—	1,427	—	4,036	27,604
Cost (dollars).....	—	—	—	54,226	—	161,439	610,858
Demand Charge Only ¹	—	—	—	—	—	40,500	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	54,226	—	120,939	607,471
Other ²	—	—	—	—	—	—	3,387
Cooperative							
Purchases (thousand kWh)	—	—	8	—	—	3,044,004	766,208
Cost (dollars).....	—	—	749	—	—	67,998,537	25,745,239
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	41,119,955	16,212,838
Energy.....	—	—	749	—	—	26,878,582	9,516,310
Other ²	—	—	—	—	—	—	16,091
Other³							
Purchases (thousand kWh)	12,606,307	1,862,318	168,828	11,390	—	1,520,652	6,244,510
Cost (dollars).....	701,479,727	64,859,729	3,503,040	172,663	—	20,155,779	168,570,914
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	446,119,155	8,821,441	780,000	—	—	2,231,222	72,055,343
Energy.....	256,153,574	52,306,957	2,723,040	172,663	—	17,924,557	96,117,253
Other ²	-793,002	3,731,331	—	—	—	—	398,318
Total							
Purchases (thousand kWh)	16,384,741	5,149,363	612,993	757,135	—	6,879,173	9,246,297
Cost (dollars).....	791,011,362	131,028,699	18,844,566	18,848,147	—	115,050,227	285,293,270
Demand Charge Only ¹	—	120,893	—	—	—	40,500	—
Demand.....	473,464,051	15,717,646	5,632,252	5,636,451	—	43,355,372	99,745,601
Energy.....	318,377,319	111,458,829	11,999,435	13,225,043	—	71,654,355	139,510,616
Other ²	-830,008	3,731,331	1,212,879	-13,347	—	—	46,037,053

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Minnesota	Mississippi	Mississippi	Mississippi	Missouri	Missouri	Missouri
	Otter Tail Power Co	Mississippi Power & Light Co	Mississippi Power Co	Systems Energy Resources Inc ⁵	Empire District Electric Co	Kansas City Power & Light Co	St Joseph Light & Power Co
Investor-Owned							
Purchases (thousand kWh)	68,321	3,184,985	66,145	—	919,803	734,345	148,151
Cost (dollars).....	1,282,905	225,689,833	2,009,327	—	20,801,071	14,148,365	2,930,521
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	203,368,496	10,189	—	5,559,857	—	—
Energy.....	1,282,905	22,321,337	1,999,138	—	15,194,720	13,348,365	2,930,521
Other ²	—	—	—	—	46,494	800,000	—
Federal							
Purchases (thousand kWh)	237,036	1,006,980	25,315	—	—	—	—
Cost (dollars).....	3,309,755	20,637,841	590,742	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	3,309,755	20,637,841	590,742	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	239,534	39	4,888	—	47,461	106,162	307,265
Cost (dollars).....	3,283,938	1,405	128,809	—	773,874	1,856,258	6,022,091
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	338,688	—	1,220,000
Energy.....	3,283,938	1,405	128,809	—	435,186	1,856,258	4,802,091
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	159,252	43,584	2,012	—	125,757	30,138	18,216
Cost (dollars).....	2,390,566	837,623	65,653	—	1,883,637	3,334,474	237,100
Demand Charge Only ¹	—	—	—	—	—	992,250	—
Demand.....	—	—	—	—	1,315,440	46,705	—
Energy.....	2,390,566	837,623	65,653	—	568,197	853,919	237,100
Other ²	—	—	—	—	—	1,441,600	—
Cooperative							
Purchases (thousand kWh)	206,731	482,373	10,886	—	560,674	290,773	11,220
Cost (dollars).....	4,824,569	8,537,561	164,172	—	18,409,497	31,569,919	336,610
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	1,174,671	—	—	—	7,082,740	—	—
Energy.....	3,649,898	8,537,561	164,172	—	11,326,757	8,782,419	336,610
Other ²	—	—	—	—	—	22,787,500	—
Other³							
Purchases (thousand kWh)	768,587	722,743	2,123,427	—	314,696	59,525	17,582
Cost (dollars).....	13,286,407	17,107,753	48,246,268	—	5,456,128	1,574,657	385,433
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	1,681,107	—	4,090,615	—	—	—	91,686
Energy.....	11,605,300	17,107,753	44,152,698	—	5,440,778	1,574,657	293,747
Other ²	—	—	2,955	—	15,350	—	—
Total							
Purchases (thousand kWh)	1,679,461	5,440,704	2,232,673	—	1,968,391	1,220,943	502,434
Cost (dollars).....	28,378,140	272,812,016	51,204,971	—	47,324,207	52,483,673	9,911,755
Demand Charge Only ¹	—	—	—	—	—	992,250	—
Demand.....	2,855,778	203,368,496	4,100,804	—	14,296,725	46,705	1,311,686
Energy.....	25,522,362	69,443,520	47,101,212	—	32,965,638	26,415,618	8,600,069
Other ²	—	—	2,955	—	61,844	25,029,100	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Missouri	Missouri	Montana	Nevada	Nevada	New Hampshire	New Hampshire
	Union Electric Co	UtiliCorp United Inc	Montana Power Co	Nevada Power Co	Sierra Pacific Power Co	Concord Electric Co ⁴	Connecticut Valley Electric Co ⁴
Investor-Owned							
Purchases (thousand kWh)	7,906,023	2,773,707	662,288	2,427,819	2,509,712	507,338	128,899
Cost (dollars).....	149,017,017	76,692,128	10,830,103	59,038,411	65,541,214	34,800,717	10,536,583
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	40,383,872	31,764,781	—	19,004,200	27,876,000	17,259,687	7,654,596
Energy.....	108,633,145	47,151,169	10,782,103	40,038,502	37,417,430	8,183,978	2,417,748
Other ²	—	-2,223,822	48,000	-4,291	247,784	9,357,052	464,239
Federal							
Purchases (thousand kWh)	521,545	37,125	949,541	313,638	28,586	—	—
Cost (dollars).....	11,763,876	510,122	18,127,691	4,946,381	385,564	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	173,500	—	—	—	—	—	—
Energy.....	11,590,376	500,522	18,091,493	4,614,217	385,564	—	—
Other ²	—	9,600	36,198	332,164	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	—	275,444	1,746	1,574,722	46,880	—	—
Cost (dollars).....	—	3,527,241	29,637	29,326,539	1,937,445	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	4,379,261	—	—	—
Energy.....	—	3,527,241	29,637	23,686,152	1,937,445	—	—
Other ²	—	—	—	1,261,126	—	—	—
Municipal							
Purchases (thousand kWh)	8,047	26,561	27,408	145,215	214,327	—	2,061
Cost (dollars).....	110,247	494,810	439,324	6,906,694	1,568,282	—	169,593
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	6,877	2,878,186	—	—	32,509
Energy.....	110,247	474,785	432,447	4,028,508	1,568,282	—	137,084
Other ²	—	20,025	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	59,498	124,280	183,950	7,005	133,255	—	—
Cost (dollars).....	2,110,390	10,422,008	4,756,440	183,685	6,573,216	—	—
Demand Charge Only ¹	—	25,000	—	—	—	—	—
Demand.....	686,006	7,207,993	—	—	4,593,000	—	—
Energy.....	1,424,384	3,189,015	3,756,040	183,685	1,980,216	—	—
Other ²	—	—	1,000,400	—	—	—	—
Other³							
Purchases (thousand kWh)	410,027	284,900	822,834	2,685,605	880,079	—	38,085
Cost (dollars).....	13,162,460	4,989,662	31,217,631	163,467,040	44,121,018	—	3,970,060
Demand Charge Only ¹	—	—	—	13,431,600	—	—	—
Demand.....	947,866	353,392	6,974,532	81,202,602	2,543,803	—	—
Energy.....	12,214,594	4,663,285	24,285,597	67,496,244	41,163,813	—	3,970,060
Other ²	—	-27,015	-42,498	1,336,594	413,402	—	—
Total							
Purchases (thousand kWh)	8,905,140	3,522,017	2,647,767	7,154,004	3,812,839	507,338	169,045
Cost (dollars).....	176,163,990	96,635,971	65,400,826	263,868,750	120,126,739	34,800,717	14,676,236
Demand Charge Only ¹	—	25,000	—	13,431,600	—	—	—
Demand.....	42,191,244	39,326,166	6,981,409	107,464,249	35,012,803	17,259,687	7,687,105
Energy.....	133,972,746	59,506,017	57,377,317	140,047,308	84,452,750	8,183,978	6,524,892
Other ²	—	-2,221,212	1,042,100	2,925,593	661,186	9,357,052	464,239

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	New Hampshire Exeter & Hampton Electric Co ⁴	New Hampshire Granite State Electric Co ⁴	New Hampshire New England Trans Corp ⁸	New Hampshire New England Hydro-Trans Corp ⁸	New Hampshire North Atlantic Energy Corp ⁵	New Hampshire Public Service Co of NH	New Hampshire Unitil Power Corp
Investor-Owned							
Purchases (thousand kWh)	546,115	732,572	—	—	—	6,123,054	—
Cost (dollars).....	37,756,731	47,135,648	—	—	—	241,309,225	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	18,887,921	23,062,690	—	—	—	—	—
Energy.....	8,792,260	15,645,830	—	—	—	65,940,049	—
Other ²	10,076,550	8,427,128	—	—	—	175,369,176	—
Federal							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars).....	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	—	—	—	—	—	39,925	—
Cost (dollars).....	—	—	—	—	—	1,271,767	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	1,271,767	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	—	—	—	—	—	9,679	—
Cost (dollars).....	—	—	—	—	—	725,065	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	725,065	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	—	—	—	—	—	220,543	—
Cost (dollars).....	—	—	—	—	—	12,343,088	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	1,022,311	—
Other ²	—	—	—	—	—	11,320,777	—
Other³							
Purchases (thousand kWh)	—	1,085	—	—	—	3,112,435	—
Cost (dollars).....	—	27,165	—	—	—	138,011,628	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	27,165	—	—	—	138,011,628	—
Other ²	—	—	—	—	—	—	—
Total							
Purchases (thousand kWh)	546,115	733,657	—	—	—	9,505,636	—
Cost (dollars).....	37,756,731	47,162,813	—	—	—	393,660,773	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	18,887,921	23,062,690	—	—	—	—	—
Energy.....	8,792,260	15,672,995	—	—	—	206,970,820	—
Other ²	10,076,550	8,427,128	—	—	—	186,689,953	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	New Jersey Atlantic City Electric Co	New Jersey Jersey Central Power & Light Co	New Jersey Public Service Electric & Gas Co	New Jersey Rockland Electric Co ⁴	New Mexico Public Service Co of NM	New Mexico Texas- New Mexico Power Co ⁴	New York Central Hudson Gas & Electric Corp
Investor-Owned							
Purchases (thousand kWh)	1,761,459	4,667,637	4,870,951	1,395,174	839,636	—	929,284
Cost (dollars).....	61,692,346	193,568,103	304,228,087	69,588,233	29,126,348	—	18,795,951
Demand Charge Only ¹	—	1,301,022	—	—	—	—	—
Demand.....	—	134,860,057	48,861,651	22,421,022	14,040,000	—	956,822
Energy.....	32,184,457	57,601,643	255,366,436	46,076,887	15,022,820	—	17,839,129
Other ²	29,507,889	-194,619	—	1,090,324	63,528	—	—
Federal							
Purchases (thousand kWh)	—	—	—	—	39,299	—	—
Cost (dollars).....	—	—	—	—	512,586	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	450,711	—	—
Other ²	—	—	—	—	61,875	—	—
State and Other							
Government							
Purchases (thousand kWh)	—	—	—	—	65,125	—	578,145
Cost (dollars).....	—	—	—	—	944,574	—	13,127,490
Demand Charge Only ¹	—	—	—	—	—	—	1,350,521
Demand.....	—	—	—	—	—	—	32,715
Energy.....	—	—	—	—	937,246	—	11,744,254
Other ²	—	—	—	—	7,328	—	—
Municipal							
Purchases (thousand kWh)	17,410	2,018,771	—	—	24,026	—	—
Cost (dollars).....	1,246,516	118,618,594	—	—	462,967	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	1,213	—	—	—	—	—
Energy.....	764,552	118,617,381	—	—	420,977	—	—
Other ²	481,964	—	—	—	41,990	—	—
Cooperative							
Purchases (thousand kWh)	—	—	—	—	38,475	—	—
Cost (dollars).....	—	—	—	—	592,406	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	575,748	—	—
Other ²	—	—	—	—	16,658	—	—
Other³							
Purchases (thousand kWh)	4,126,697	5,355,581	15,615,515	—	770,773	—	675,452
Cost (dollars).....	278,162,307	303,833,339	338,774,829	—	14,550,124	—	19,214,476
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	4,373,724	—	—	—	—	266,430
Energy.....	112,109,038	296,511,261	338,666,787	—	14,562,433	—	18,661,329
Other ²	166,053,269	2,948,354	108,042	—	-12,309	—	286,717
Total							
Purchases (thousand kWh)	5,905,566	12,041,989	20,486,466	1,395,174	1,777,334	—	2,182,881
Cost (dollars).....	341,101,169	616,020,036	643,002,916	69,588,233	46,189,005	—	51,137,917
Demand Charge Only ¹	—	1,301,022	—	—	—	—	1,350,521
Demand.....	—	139,234,994	48,861,651	22,421,022	14,040,000	—	1,255,967
Energy.....	145,058,047	472,730,285	594,033,223	46,076,887	31,969,935	—	48,244,712
Other ²	196,043,122	2,753,735	108,042	1,090,324	179,070	—	286,717

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	New York Consolidated Edison Co-NY Inc	New York Long Island Lighting Co	New York Long Sault Inc ⁶	New York New York State Electric & Gas Corp	New York Niagara Mohawk Power Corp	New York Orange & Rockland Utilities Inc	New York Rochester Gas & Electric Corp
Investor-Owned							
Purchases (thousand kWh)	5,521,324	1,119,974	—	178,389	136,868	1,413,611	387,770
Cost (dollars).....	121,717,018	24,191,029	—	4,571,055	2,806,864	35,151,723	7,475,924
Demand Charge Only ¹	—	—	—	—	—	1,718,300	—
Demand.....	—	—	—	—	99,280	13	615,789
Energy.....	121,170,285	24,191,029	—	4,571,055	2,707,584	33,433,410	6,860,135
Other ²	546,733	—	—	—	—	—	—
Federal							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars).....	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	3,718,047	1,780,710	—	2,040,982	7,639,342	346,591	1,322,636
Cost (dollars).....	128,341,374	48,607,283	—	25,464,924	93,363,893	6,174,605	23,881,767
Demand Charge Only ¹	—	—	—	—	7,441,650	—	4,140,000
Demand.....	49,374,030	11,604,000	—	8,737,541	35,443,361	—	5,513,020
Energy.....	61,370,944	37,003,283	—	14,801,159	50,478,882	6,174,605	14,228,747
Other ²	17,596,400	—	—	1,926,224	—	—	—
Municipal							
Purchases (thousand kWh)	—	—	—	17	802,914	—	—
Cost (dollars).....	—	—	—	518	56,934,459	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	518	56,601,373	—	—
Other ²	—	—	—	—	333,086	—	—
Cooperative							
Purchases (thousand kWh)	—	—	—	159	—	—	—
Cost (dollars).....	—	—	—	-3,489	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	-3,489	—	—	—
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	17,056,676	4,487,005	—	4,770,536	14,963,789	1,024,927	726,959
Cost (dollars).....	1,013,192,294	219,615,294	—	327,991,688	1,033,541,664	32,212,036	15,026,305
Demand Charge Only ¹	-6,381,647	—	—	—	—	—	—
Demand.....	219,083,252	1,053,820	—	—	212,957,035	415,461	847,846
Energy.....	724,074,519	218,561,474	—	324,324,506	850,392,453	31,216,853	14,178,459
Other ²	76,416,170	—	—	3,667,182	-29,807,824	579,722	—
Total							
Purchases (thousand kWh)	26,296,047	7,387,689	—	6,990,083	23,542,913	2,785,129	2,437,365
Cost (dollars).....	1,263,250,686	292,413,606	—	358,024,696	1,186,646,880	73,538,364	46,383,996
Demand Charge Only ¹	-6,381,647	—	—	—	7,441,650	1,718,300	4,140,000
Demand.....	268,457,282	12,657,820	—	8,737,541	248,499,676	415,474	6,976,655
Energy.....	906,615,748	279,755,786	—	343,693,749	960,180,292	70,824,868	35,267,341
Other ²	94,559,303	—	—	5,593,406	-29,474,738	579,722	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	North Carolina Carolina Power & Light Co	North Carolina Cascade Power Company ⁵	North Carolina Duke Power Co	North Carolina Nantahala Power & Light Co	North Carolina Yadkin Inc ⁴	North Dakota MDU Resources Group Inc	Ohio AEP Generating Co
Investor-Owned							
Purchases (thousand kWh)	3,611,540	—	1,527,719	724,000	—	290,593	—
Cost (dollars).....	149,183,585	—	33,017,986	31,071,270	—	7,805,309	—
Demand Charge Only ¹	621,978	—	—	—	—	—	—
Demand.....	77,333,636	—	610,500	18,324,567	—	2,920,244	—
Energy.....	71,358,059	—	32,345,383	12,741,703	—	4,885,065	—
Other ²	-130,088	—	62,103	5,000	—	—	—
Federal							
Purchases (thousand kWh)	123,591	—	—	298,005	—	-44,013	—
Cost (dollars).....	2,651,515	—	—	5,073,775	—	183,778	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	2,651,515	—	—	5,073,775	—	183,778	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	35,620	—	69,517	—	—	6,742	—
Cost (dollars).....	883,657	—	1,490,344	—	—	92,554	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	15,000	—	—	—	—
Energy.....	883,657	—	1,475,344	—	—	92,554	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	602,317	—	2,661,535	—	—	2,267	—
Cost (dollars).....	44,471,216	—	153,752,542	—	—	37,302	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	33,719,184	—	126,901,906	—	—	—	—
Energy.....	11,242,226	—	25,892,581	—	—	37,302	—
Other ²	-490,194	—	958,055	—	—	—	—
Cooperative							
Purchases (thousand kWh)	5,934	—	45,370	—	—	491,400	—
Cost (dollars).....	153,725	—	-1,468,578	—	—	14,915,772	—
Demand Charge Only ¹	—	—	16,650	—	—	—	—
Demand.....	—	—	-2,065,000	—	—	10,220,581	—
Energy.....	153,725	—	581,083	—	—	4,695,191	—
Other ²	—	—	-1,311	—	—	—	—
Other³							
Purchases (thousand kWh)	2,917,979	—	965,283	—	—	—	—
Cost (dollars).....	214,193,977	—	33,108,289	-451,583	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	53,403,330	—	60,600	—	—	—	—
Energy.....	160,714,015	—	33,047,689	—	—	—	—
Other ²	76,632	—	—	-451,583	—	—	—
Total							
Purchases (thousand kWh)	7,296,981	—	5,269,424	1,022,005	—	746,989	—
Cost (dollars).....	411,537,675	—	219,900,583	35,693,462	—	23,034,715	—
Demand Charge Only ¹	621,978	—	16,650	—	—	—	—
Demand.....	164,456,150	—	125,523,006	18,324,567	—	13,140,825	—
Energy.....	247,003,197	—	93,342,080	17,815,478	—	9,893,890	—
Other ²	-543,650	—	1,018,847	-446,583	—	—	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Ohio Cincinnati Gas & Electric Co	Ohio Cleveland Electric Illuminating Co	Ohio Columbus Southern Power Co	Ohio Dayton Power & Light Co	Ohio Indiana-Kentucky Electric Corp ⁵	Ohio Ohio Edison Co	Ohio Ohio Power Co
Investor-Owned							
Purchases (thousand kWh)	2,763,066	1,278,403	338,979	625,240	—	2,656,821	1,304,978
Cost (dollars).....	51,493,822	106,311,329	7,564,734	12,854,195	—	53,330,949	31,286,767
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	1,184,083	86,942	22,267	1,255,523	—	1,879,958	37,123
Energy.....	50,309,739	106,224,387	7,542,467	11,606,412	—	51,382,225	31,249,644
Other ²	—	—	—	-7,740	—	68,766	—
Federal							
Purchases (thousand kWh)	1,850	—	37,920	—	—	—	62,834
Cost (dollars).....	59,825	—	872,789	—	—	—	1,456,283
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	59,825	—	872,789	—	—	—	1,456,283
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars).....	16,607	—	—	—	—	—	—
Demand Charge Only ¹	16,607	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	1,781	39,858	2,152	—	—	—	173
Cost (dollars).....	49,616	263,779	17,329	—	—	—	8,011
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	49,616	263,779	17,329	—	—	—	8,011
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	39,652	—	—	30,750	—	638,012	—
Cost (dollars).....	1,039,426	—	-57	463,268	—	15,976,956	11,658
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	1,680,900	—
Energy.....	1,039,426	—	-57	463,268	—	14,296,056	11,658
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	773,950	331,553	6,958,035	444,649	—	309,262	3,194,900
Cost (dollars).....	15,595,433	6,934,416	160,438,755	10,641,545	—	8,763,663	31,105,813
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	59,830	—	—	412,576	—	383,700	—
Energy.....	15,535,603	6,934,416	160,438,755	10,228,809	—	8,379,963	31,105,813
Other ²	—	—	—	160	—	—	—
Total							
Purchases (thousand kWh)	3,580,299	1,649,814	7,337,086	1,100,639	—	3,604,095	4,562,885
Cost (dollars).....	68,254,729	113,509,524	168,893,550	23,959,008	—	78,071,568	63,868,532
Demand Charge Only ¹	16,607	—	—	—	—	—	—
Demand.....	1,243,913	86,942	22,267	1,668,099	—	3,944,558	37,123
Energy.....	66,994,209	113,422,582	168,871,283	22,298,489	—	74,058,244	63,831,409
Other ²	—	—	—	-7,580	—	68,766	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Ohio	Ohio	Oklahoma	Oklahoma	Oregon	Oregon	Pennsylvania
	Ohio Valley Electric Corp	Toledo Edison Co	Oklahoma Gas & Electric Co	Public Service Co of Oklahoma	PacifiCorp	Portland General Electric Co	Citizens Electric Co ⁴
Investor-Owned							
Purchases (thousand kWh)	10,055,053	942,528	232,015	39,321	5,091,198	2,479,911	172,326
Cost (dollars).....	171,033,440	13,987,055	4,320,029	1,371,362	91,488,217	59,015,092	5,973,229
Demand Charge Only ¹	—	—	—	—	—	19,404,000	—
Demand.....	—	1,485,602	—	315,880	15,535,342	1,600,000	2,070,906
Energy.....	—	12,480,930	4,320,029	1,055,482	75,479,896	37,214,920	4,316,284
Other ²	171,033,440	20,523	—	—	472,979	796,172	-413,961
Federal							
Purchases (thousand kWh)	—	—	—	—	4,853,523	5,885,061	—
Cost (dollars).....	—	—	—	—	126,880,238	8,750,374	—
Demand Charge Only ¹	—	—	—	—	78,822,190	6,012,963	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	48,058,048	60,603,974	—
Other ²	—	—	—	—	—	-57,866,563	—
State and Other							
Government							
Purchases (thousand kWh)	—	—	13,139	21,127	5,422,232	5,298,238	—
Cost (dollars).....	—	—	250,836	455,128	60,244,740	70,229,247	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	152,293	—	—
Energy.....	—	—	250,836	455,128	33,710,965	56,323,689	—
Other ²	—	—	—	—	26,381,482	13,905,558	—
Municipal							
Purchases (thousand kWh)	—	—	—	—	1,268,576	238,305	—
Cost (dollars).....	—	—	—	—	52,018,693	3,896,257	—
Demand Charge Only ¹	—	—	—	—	—	1,023,200	—
Demand.....	—	—	—	—	30,108,115	—	—
Energy.....	—	—	—	—	21,910,578	2,873,057	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	—	—	131,314	5,128	2,098,264	—	—
Cost (dollars).....	—	—	2,895,183	108,107	50,107,785	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	477,849	—	12,816,000	—	—
Energy.....	—	—	2,417,334	108,107	37,291,785	—	—
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	—	-31,510	3,187,947	1,718,273	6,935,939	7,984,142	—
Cost (dollars).....	—	10,482,960	214,603,934	39,185,046	181,624,054	100,819,318	—
Demand Charge Only ¹	—	—	—	—	2,127	—	—
Demand.....	—	155,147	—	4,996,238	43,280,809	1,130,734	—
Energy.....	—	10,327,813	30,772,375	35,457,739	137,552,626	103,939,555	—
Other ²	—	—	183,831,559	-1,268,931	788,492	-4,250,971	—
Total							
Purchases (thousand kWh)	10,055,053	911,018	3,564,415	1,783,849	25,669,732	21,885,657	172,326
Cost (dollars).....	171,033,440	24,470,015	222,069,982	41,119,643	562,363,727	242,710,288	5,973,229
Demand Charge Only ¹	—	—	—	—	78,824,317	26,440,163	—
Demand.....	—	1,640,749	477,849	5,312,118	101,892,559	2,730,734	2,070,906
Energy.....	—	22,808,743	37,760,574	37,076,456	354,003,898	260,955,195	4,316,284
Other ²	171,033,440	20,523	183,831,559	-1,268,931	27,642,953	-47,415,804	-413,961

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Pennsylvania Duquesne Light Co	Pennsylvania Metropolitan Edison Co	Pennsylvania Pennsylvania Electric Co	Pennsylvania Pennsylvania Power & Light Co	Pennsylvania Pennsylvania Power Co	Pennsylvania Philadelphia Electric Co	Pennsylvania Pike County Light & Power Co ⁴
Investor-Owned							
Purchases (thousand kWh)	610,424	654,883	141,649	2,219,677	1,040,663	12,648,670	—
Cost (dollars).....	12,390,499	26,383,899	8,671,214	64,270,524	15,851,354	223,413,896	—
Demand Charge Only ¹	—	2,104,250	856,377	—	—	—	—
Demand.....	46,140	6,051,128	4,279,353	—	—	2,140,750	—
Energy.....	12,344,359	18,228,521	3,535,231	54,115,456	15,851,354	221,273,146	—
Other ²	—	—	253	10,155,068	—	—	—
Federal							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars).....	—	—	—	—	—	29,337	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	29,337	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	—	15,882	6,397	44,648	—	87,996	—
Cost (dollars).....	—	252,344	-67,335	699,587	—	2,386,511	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	169,299	166,912	—	—	60,000	—
Energy.....	—	83,045	-234,247	699,587	—	2,326,511	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	—	4,277	211	25,867	—	245,318	—
Cost (dollars).....	—	85,139	9,806	1,552,315	—	7,553,729	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	1,785,000	—
Energy.....	—	85,139	9,806	1,552,315	—	5,768,729	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	—	—	29,098	148,191	—	457,012	—
Cost (dollars).....	—	—	312,822	2,201,868	—	11,594,094	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	1,941,811	—
Energy.....	—	—	312,822	2,201,868	—	9,652,283	—
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	968,781	3,867,278	3,506,074	7,093,876	762	8,470,871	—
Cost (dollars).....	20,033,519	210,578,649	201,005,203	281,903,956	13,502	231,340,042	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	3,112,123	1,747,149	—	—	849,993	—
Energy.....	20,033,519	199,104,184	199,705,463	281,934,687	13,502	230,490,049	—
Other ²	—	8,362,342	-447,409	-30,731	—	—	—
Total							
Purchases (thousand kWh)	1,579,205	4,542,320	3,683,429	9,532,259	1,041,425	21,909,867	—
Cost (dollars).....	32,424,018	237,300,031	209,931,710	350,628,250	15,864,856	476,317,609	—
Demand Charge Only ¹	—	2,104,250	856,377	—	—	—	—
Demand.....	46,140	9,332,550	6,193,414	—	—	6,777,554	—
Energy.....	32,377,878	217,500,889	203,329,075	340,503,913	15,864,856	469,540,055	—
Other ²	—	8,362,342	-447,156	10,124,337	—	—	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Pennsylvania Safe Harbor Water Power Corp ⁵	Pennsylvania Susquehanna Electric Co ⁵	Pennsylvania UGI Corp	Pennsylvania West Penn Power Co	Pennsylvania York Haven Power Co ⁵	Rhode Island Blackstone Valley Electric Co ⁴	Rhode Island Narragansett Electric Co
Investor-Owned							
Purchases (thousand kWh)	—	—	—	2,665,878	—	1,297,250	4,699,044
Cost (dollars).....	—	—	—	125,560,545	—	90,975,165	286,875,271
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	51,253,556	—	67,106,993	133,878,643
Energy.....	—	—	—	37,816,573	—	23,868,172	94,660,653
Other ²	—	—	—	36,490,416	—	—	58,335,975
Federal							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars).....	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars).....	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	—	—	—	504	—	—	—
Cost (dollars).....	—	—	—	6,279	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	6,279	—	—	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars).....	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	—	—	—	1,506,493	—	1,994	1,395
Cost (dollars).....	—	—	—	69,819,056	—	40,931	110,590
Demand Charge Only ¹	—	—	—	2,058	—	—	—
Demand.....	—	—	—	44,599,073	—	—	—
Energy.....	—	—	—	25,217,925	—	40,931	110,590
Other ²	—	—	—	—	—	—	—
Total							
Purchases (thousand kWh)	—	—	—	4,172,875	—	1,299,244	4,700,439
Cost (dollars).....	—	—	—	195,385,880	—	91,016,096	286,985,861
Demand Charge Only ¹	—	—	—	2,058	—	—	—
Demand.....	—	—	—	95,852,629	—	67,106,993	133,878,643
Energy.....	—	—	—	63,040,777	—	23,909,103	94,771,243
Other ²	—	—	—	36,490,416	—	—	58,335,975

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Rhode Island	Rhode Island	Rhode Island	South Carolina	South Carolina	South Carolina	South Dakota
	Newport Electric Corp	Ocean State Power #2 ⁵	Ocean State Power Co ⁵	Lockhart Power Co	South Carolina Electric & Gas Co	South Carolina Generating Co Inc ⁵	Black Hills Corp
Investor-Owned							
Purchases (thousand kWh)	557,700	—	—	283,027	4,314,799	—	368,598
Cost (dollars).....	36,505,373	—	—	12,796,127	101,573,689	—	20,472,038
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	26,474,812	—	—	6,351,945	102,000	—	16,210,734
Energy.....	10,091,133	—	—	7,704,891	101,471,689	—	4,261,304
Other ²	-60,572	—	—	-1,260,709	—	—	—
Federal							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars).....	—	—	—	—	—	—	-119,444
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	85,158
Energy.....	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	-204,602
State and Other							
Government							
Purchases (thousand kWh)	—	—	—	—	9,866	—	17,976
Cost (dollars).....	—	—	—	—	241,581	—	458,042
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	241,581	—	458,042
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	—	—	—	—	19,644	—	—
Cost (dollars).....	—	—	—	—	242,919	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	242,919	—	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	—	—	—	—	35,251	—	29,808
Cost (dollars).....	—	—	—	—	961,772	—	433,491
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	961,772	—	433,491
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	23	—	—	2,960	152,267	—	—
Cost (dollars).....	859	—	—	89,021	3,772,377	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	859	—	—	67,146	3,772,377	—	—
Other ²	—	—	—	21,875	—	—	—
Total							
Purchases (thousand kWh)	557,723	—	—	285,987	4,531,827	—	416,382
Cost (dollars).....	36,506,232	—	—	12,885,148	106,792,338	—	21,244,127
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	26,474,812	—	—	6,351,945	102,000	—	16,295,892
Energy.....	10,091,992	—	—	7,772,037	106,690,338	—	5,152,837
Other ²	-60,572	—	—	-1,238,834	—	—	-204,602

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	South Dakota Northwestern Public Service Co	Tennessee Kingsport Power Co ⁴	Tennessee Tapoco Inc ⁸	Texas Central Power & Light Co	Texas El Paso Electric Co	Texas Gulf States Utilities Co	Texas Houston Lighting & Power Co
Investor-Owned							
Purchases (thousand kWh)	48,268	1,927,778	—	89,466	643,537	1,232,393	201,943
Cost (dollars).....	898,007	59,513,458	—	1,996,692	18,508,826	21,805,614	7,741,328
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	27,674,474	—	—	6,120,000	—	—
Energy.....	898,007	35,474,098	—	1,989,000	12,386,571	21,805,614	7,741,328
Other ²	—	-3,635,114	—	7,692	2,255	—	—
Federal							
Purchases (thousand kWh)	24,261	—	—	24,144	—	2,589,688	—
Cost (dollars).....	438,021	—	—	728,007	5,228	53,091,713	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	438,021	—	—	728,007	—	53,091,713	—
Other ²	—	—	—	—	5,228	—	—
State and Other							
Government							
Purchases (thousand kWh)	42,835	—	—	67,233	71,757	311,052	132,090
Cost (dollars).....	608,806	—	—	1,275,494	1,167,822	8,643,729	2,201,292
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	608,806	—	—	1,241,843	1,146,911	5,337,878	2,201,292
Other ²	—	—	—	33,651	20,911	3,305,851	—
Municipal							
Purchases (thousand kWh)	32,295	—	—	51,275	17,221	113,944	2,035,627
Cost (dollars).....	462,490	—	—	1,305,435	412,598	2,198,324	39,984,548
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	462,490	—	—	1,262,044	411,675	2,198,324	39,984,548
Other ²	—	—	—	43,391	923	—	—
Cooperative							
Purchases (thousand kWh)	23,956	—	—	—	78	1,259,431	34,588
Cost (dollars).....	558,256	—	—	—	8,092	22,227,602	569,494
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	140,400	—	—	—	—	—	—
Energy.....	417,856	—	—	—	1,710	22,227,602	569,494
Other ²	—	—	—	—	6,382	—	—
Other³							
Purchases (thousand kWh)	—	—	—	2,734,970	-55	6,507,327	10,135,924
Cost (dollars).....	105,016	—	—	54,193,583	—	187,992,597	271,766,007
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	21,966,831
Energy.....	—	—	—	54,388,341	—	178,887,192	249,799,176
Other ²	105,016	—	—	-194,758	—	9,105,405	—
Total							
Purchases (thousand kWh)	171,615	1,927,778	—	2,967,088	732,538	12,013,835	12,540,172
Cost (dollars).....	3,070,596	59,513,458	—	59,499,211	20,102,566	295,959,579	322,262,669
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	140,400	27,674,474	—	—	6,120,000	—	21,966,831
Energy.....	2,825,180	35,474,098	—	59,609,235	13,946,867	283,548,323	300,295,838
Other ²	105,016	-3,635,114	—	-110,024	35,699	12,411,256	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Texas Southwestern Electric Service Co	Texas Southwestern Public Service Co	Texas Utilities Electric Co	Texas Texas- New Mexico Power Co	Texas West Texas Utilities Co	Vermont Central Vermont Public Service Corp	Vermont Citizens Utilities Co ⁴
Investor-Owned							
Purchases (thousand kWh)	724,763	563,804	109,553	3,352,857	31,749	3,220,016	—
Cost (dollars).....	36,166,652	8,798,568	3,181,014	133,475,502	2,103,472	136,523,614	—
Demand Charge Only ¹	—	—	—	—	1,084,720	1,803,901	—
Demand.....	18,479,439	790,500	—	69,456,813	—	84,317,745	—
Energy.....	16,423,635	—	3,111,098	64,018,689	1,018,752	52,762,812	—
Other ²	1,263,578	8,008,068	69,916	—	—	-2,360,844	—
Federal							
Purchases (thousand kWh)	—	94	—	—	—	—	—
Cost (dollars).....	—	2,118	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	—	—
Other ²	—	2,118	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	371,740	2,934	33,187	—	3,897	11,756	—
Cost (dollars).....	13,366,172	59,380	607,908	—	172,166	182,855	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	3,153,658	—	—	—	—	8,224	—
Energy.....	9,124,177	—	607,524	—	172,166	143,512	—
Other ²	1,088,337	59,380	384	—	—	31,119	—
Municipal							
Purchases (thousand kWh)	—	288	181,229	66	7,800	11,629	—
Cost (dollars).....	—	5,746	3,296,114	827	237,800	764,093	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	474,926	—
Energy.....	—	—	3,234,280	827	237,800	289,167	—
Other ²	—	5,746	61,834	—	—	—	—
Cooperative							
Purchases (thousand kWh)	—	53	18,511	—	—	—	—
Cost (dollars).....	—	2,934	239,447	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	334,519	—	—	—	—
Other ²	—	2,934	-95,072	—	—	—	—
Other³							
Purchases (thousand kWh)	15,260	671,262	12,071,811	2,516,077	1,423,403	161,711	—
Cost (dollars).....	—	11,285,355	525,678,938	63,004,866	29,289,627	12,811,907	—
Demand Charge Only ¹	—	—	—	743,734	—	—	—
Demand.....	—	—	228,336,202	26,186,301	—	1,815,669	—
Energy.....	—	—	297,251,939	43,437,191	29,000,027	10,808,741	—
Other ²	—	11,285,355	90,797	-7,362,360	289,600	187,497	—
Total							
Purchases (thousand kWh)	1,111,763	1,238,435	12,414,291	5,869,000	1,466,849	3,405,112	—
Cost (dollars).....	49,532,824	20,154,101	533,003,421	196,481,195	31,803,065	150,282,469	—
Demand Charge Only ¹	—	—	—	743,734	1,084,720	1,803,901	—
Demand.....	21,633,097	790,500	228,336,202	95,643,114	—	86,616,564	—
Energy.....	25,547,812	—	304,539,360	107,456,707	30,428,745	64,004,232	—
Other ²	2,351,915	19,363,601	127,859	-7,362,360	289,600	-2,142,228	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Vermont Green Mountain Power Corp	Vermont Vermont Electric Power Co Inc	Vermont Vermont Electric Trans Co ⁶	Vermont Vermont Marble Co ⁸	Vermont Vermont Yankee Nuclear Power Corp ⁵	Virginia Appalachian Power Co	Virginia Virginia Electric Power Co
Investor-Owned							
Purchases (thousand kWh)	710,626	863,375	—	—	—	823,283	5,833,745
Cost (dollars).....	30,261,493	32,029,130	—	—	—	17,673,227	158,267,332
Demand Charge Only ¹	—	—	—	—	—	—	5,520,000
Demand.....	28,700,560	19,310,833	—	—	—	45,541	50,704,326
Energy.....	4,519,152	11,880,528	—	—	—	17,627,686	102,043,006
Other ²	-2,958,219	837,769	—	—	—	—	—
Federal							
Purchases (thousand kWh)	—	—	—	—	—	75,696	—
Cost (dollars).....	—	—	—	—	—	1,761,869	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	1,761,869	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	18,636	—	—	—	—	—	810
Cost (dollars).....	1,301,482	—	—	—	—	—	15,747
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	868,270	—	—	—	—	—	—
Energy.....	433,212	—	—	—	—	—	15,747
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	35,683	—	—	—	—	245	1,059
Cost (dollars).....	1,659,018	—	—	—	—	9,363	96,326
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	992,022	—	—	—	—	—	8,757
Energy.....	666,996	—	—	—	—	9,363	87,569
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	558	—	—	—	—	—	2,905,043
Cost (dollars).....	52,815	—	—	—	—	-110	86,332,578
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	52,815	—	—	—	—	—	29,173,974
Energy.....	—	—	—	—	—	-110	57,158,604
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	1,643,824	—	—	—	—	16,348,597	12,412,513
Cost (dollars).....	63,641,402	—	—	—	—	313,569,535	939,473,432
Demand Charge Only ¹	11,537	—	—	—	—	—	325,000
Demand.....	14,737,740	—	—	—	—	—	631,834,875
Energy.....	47,950,365	—	—	—	—	313,569,535	307,313,557
Other ²	941,760	—	—	—	—	—	—
Total							
Purchases (thousand kWh)	2,409,327	863,375	—	—	—	17,247,821	21,153,170
Cost (dollars).....	96,916,210	32,029,130	—	—	—	333,013,884	1,184,185,415
Demand Charge Only ¹	11,537	—	—	—	—	—	5,845,000
Demand.....	45,351,407	19,310,833	—	—	—	45,541	711,721,932
Energy.....	53,569,725	11,880,528	—	—	—	332,968,343	466,618,483
Other ²	-2,016,459	837,769	—	—	—	—	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Washington	Washington	West Virginia	West Virginia	West Virginia	West Virginia	Wisconsin
	Puget Sound Power & Light Co	Washington Water Power Co	Kanawha Valley Power Co ⁵	Monongahela Power Co	UtiliCorp United Inc ⁴	Wheeling Power Co ⁴	Consolidated Water Power Co
Investor-Owned							
Purchases (thousand kWh)	2,571,156	1,744,140	—	1,377,417	—	1,865,918	1,087,654
Cost (dollars).....	98,030,904	24,210,901	—	66,828,097	—	59,040,190	23,429,788
Demand Charge Only ¹	—	138,888	—	—	—	—	—
Demand.....	49,515,048	—	—	27,801,601	—	19,387,688	5,573,783
Energy.....	48,515,856	24,072,013	—	18,807,860	—	39,652,502	17,856,005
Other ²	—	—	—	20,218,636	—	—	—
Federal							
Purchases (thousand kWh)	2,803,803	2,905,899	—	—	—	—	—
Cost (dollars).....	61,131,966	65,439,915	—	—	—	—	—
Demand Charge Only ¹	—	3,324,476	—	—	—	—	—
Demand.....	308,732	2,340,000	—	—	—	—	—
Energy.....	57,202,162	59,579,907	—	—	—	—	—
Other ²	3,621,072	195,532	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	9,066,882	2,282,712	—	—	—	—	—
Cost (dollars).....	82,800,029	17,892,758	—	—	—	—	—
Demand Charge Only ¹	212,500	282,000	—	—	—	—	—
Demand.....	—	150,000	—	—	—	—	—
Energy.....	82,587,529	17,460,758	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	1,377,193	499,447	—	277	—	—	—
Cost (dollars).....	46,672,377	5,378,319	—	3,477	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	46,156,851	5,378,319	—	3,477	—	—	—
Other ²	515,526	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	—	630	—	—	—	—	—
Cost (dollars).....	—	55,127	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	13,729	—	—	—	—	—
Other ²	—	41,398	—	—	—	—	—
Other³							
Purchases (thousand kWh)	4,795,186	4,374,174	—	1,531,028	—	4,413	7,500
Cost (dollars).....	137,688,106	76,933,516	—	72,471,464	—	1,392,132	121,558
Demand Charge Only ¹	—	—	—	1,133	—	—	—
Demand.....	168,221	—	—	43,562,599	—	—	—
Energy.....	192,259,326	76,822,209	—	28,907,732	—	85,019	121,558
Other ²	-54,739,441	111,307	—	—	—	1,307,113	—
Total							
Purchases (thousand kWh)	20,614,220	11,807,002	—	2,908,722	—	1,870,331	1,095,154
Cost (dollars).....	426,323,382	189,910,536	—	139,303,038	—	60,432,322	23,551,346
Demand Charge Only ¹	212,500	3,745,364	—	1,133	—	—	—
Demand.....	49,992,001	2,490,000	—	71,364,200	—	19,387,688	5,573,783
Energy.....	426,721,724	183,326,935	—	47,719,069	—	39,737,521	17,977,563
Other ²	-50,602,843	348,237	—	20,218,636	—	1,307,113	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1996 (Continued)

Source of Electricity by Ownership Class	Wisconsin Electric Power Co	Wisconsin Power & Light Co	Wisconsin Public Service Corp	Wisconsin River Power Co ⁵	Wyoming Cheyenne Light Fuel & Power Co ⁴
Investor-Owned					
Purchases (thousand kWh)	1,062,321	1,015,448	1,591,574	—	—
Cost (dollars).....	19,765,696	23,035,021	29,109,140	—	—
Demand Charge Only ¹	—	—	—	—	—
Demand.....	1,059,580	16,747	1,963,257	—	—
Energy.....	18,598,116	16,778,984	27,145,883	—	—
Other ²	108,000	6,239,290	—	—	—
Federal					
Purchases (thousand kWh)	—	498,494	—	—	—
Cost (dollars).....	—	6,281,631	—	—	—
Demand Charge Only ¹	—	—	—	—	—
Demand.....	—	—	—	—	—
Energy.....	—	6,281,631	—	—	—
Other ²	—	—	—	—	—
State and Other					
Government					
Purchases (thousand kWh)	—	6,170	—	—	—
Cost (dollars).....	—	115,587	—	—	—
Demand Charge Only ¹	—	—	—	—	—
Demand.....	—	—	—	—	—
Energy.....	—	115,587	—	—	—
Other ²	—	—	—	—	—
Municipal					
Purchases (thousand kWh)	4,755	12,765	78	—	—
Cost (dollars).....	118,587	670,226	2,412	—	—
Demand Charge Only ¹	—	—	—	—	—
Demand.....	—	—	—	—	—
Energy.....	118,587	670,226	2,412	—	—
Other ²	—	—	—	—	—
Cooperative					
Purchases (thousand kWh)	2,475	2,655,310	1,000	—	—
Cost (dollars).....	41,262	41,160,923	22,150	—	—
Demand Charge Only ¹	—	—	—	—	—
Demand.....	—	—	—	—	—
Energy.....	41,262	39,260,923	22,150	—	—
Other ²	—	1,900,000	—	—	—
Other³					
Purchases (thousand kWh)	682,847	272,301	420,643	—	—
Cost (dollars).....	16,290,003	6,008,305	8,598,413	—	—
Demand Charge Only ¹	—	—	—	—	—
Demand.....	499,200	—	244,774	—	—
Energy.....	15,787,803	6,190,355	8,353,639	—	—
Other ²	3,000	-182,050	—	—	—
Total					
Purchases (thousand kWh)	1,752,398	4,460,488	2,013,295	—	—
Cost (dollars).....	36,215,548	77,271,693	37,732,115	—	—
Demand Charge Only ¹	—	—	—	—	—
Demand.....	1,558,780	16,747	2,208,031	—	—
Energy.....	34,545,768	69,297,706	35,524,084	—	—
Other ²	111,000	7,957,240	—	—	—

¹ Monetary settlements from contracts where electricity is not taken.

² Includes other transactions involving line and substation rentals, system support charges, and special contract transactions.

³ Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

⁴ FERC Form 1 respondent with purchased power transactions, but no sales for resale transactions.

⁵ FERC Form 1 respondent with sales for resale transactions, but no purchased power transactions.

⁶ FERC Form 1 respondent with only wheeling.

⁷ FERC Form 1 respondent with only exchanges.

⁸ FERC Form 1 respondent with no purchased power, sales for resale, exchanges, or wheeling.

—Not Applicable

Notes: *For identification purposes, the utilities are listed in the State in which the corporate office is located. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996

Purchaser of Electricity by Ownership Class	Alabama Alabama Power Co	Alabama Southern Electric Generating Co ⁵	Alaska Alaska Electric Light & Power ⁴	Arizona Ajo Improvement Co ⁸	Arizona Arizona Public Service Co	Arizona Century Power Corp ⁵	Arizona Citizens Utilities Co
Investor-Owned							
Sales (thousand kWh)	5,040,888	5,559,212	—	—	1,789,693	—	—
Revenue (dollars)	219,804,540	151,543,206	—	—	63,240,463	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	31,205,532	—	—
Energy	219,804,540	151,543,206	—	—	32,034,931	—	—
Other ²	—	—	—	—	—	—	—
Federal							
Sales (thousand kWh)	37,076	—	—	—	53,443	—	—
Revenue (dollars)	1,071,386	—	—	—	6,330,305	—	—
Demand Charge Only ¹	—	—	—	—	5,004	—	—
Demand	—	—	—	—	5,349,651	—	—
Energy	1,071,386	—	—	—	975,650	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh)	4,205	—	—	—	276,917	—	—
Revenue (dollars)	124,360	—	—	—	8,876,910	—	—
Demand Charge Only ¹	—	—	—	—	5,004	—	—
Demand	—	—	—	—	4,040,929	—	—
Energy	124,360	—	—	—	4,830,977	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Sales (thousand kWh)	3,807,379	—	—	—	191,405	—	—
Revenue (dollars)	146,932,219	—	—	—	3,093,599	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	48,684,214	—	—	—	281,688	—	—
Energy	110,130,536	—	—	—	2,811,911	—	—
Other ²	-11,882,531	—	—	—	—	—	—
Cooperative							
Sales (thousand kWh)	532,364	—	—	—	263,000	—	—
Revenue (dollars)	19,813,950	—	—	—	3,315,555	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	8,238,239	—	—	—	—	—	—
Energy	13,633,129	—	—	—	3,315,555	—	—
Other ²	-2,057,418	—	—	—	—	—	—
Other³							
Sales (thousand kWh)	10,361,390	—	—	—	792,776	—	—
Revenue (dollars)	220,542,252	—	—	—	13,703,569	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	753,121	—	—
Energy	207,100,990	—	—	—	12,950,448	—	—
Other ²	13,441,262	—	—	—	—	—	—
Total							
Sales (thousand kWh)	19,783,302	5,559,212	—	—	3,367,234	—	—
Revenue (dollars)	608,288,707	151,543,206	—	—	98,560,401	—	—
Demand Charge Only ¹	—	—	—	—	10,008	—	—
Demand	56,922,453	—	—	—	41,630,921	—	—
Energy	551,864,941	151,543,206	—	—	56,919,472	—	—
Other ²	-498,687	—	—	—	—	—	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Arizona Tucson Electric Power Co	Arkansas Arkansas Power & Light Co	Arkansas Entergy Power Co	California Pacific Gas & Electric Co	California San Diego Gas & Electric Co	California Southern California Edison Co	Colorado Public Service Co of Colorado
Investor-Owned							
Sales (thousand kWh).....	1,372,035	2,282,763	—	255,598	184,514	551,587	1,226,785
Revenue (dollars).....	22,250,836	60,144,630	—	4,025,321	2,940,572	30,151,775	34,908,185
Demand Charge Only ¹	—	568,531	—	—	—	1,260,000	—
Demand.....	1,436,739	21,573,529	—	—	—	11,462,524	16,711,600
Energy.....	20,814,097	38,002,570	—	3,861,700	2,940,572	15,529,361	19,297,367
Other ²	—	—	—	163,621	—	1,899,890	-1,100,782
Federal							
Sales (thousand kWh).....	3,000	—	—	23,041	6,400	41,163	19,880
Revenue (dollars).....	61,678	—	—	-10,553,211	124,520	153,954	381,012
Demand Charge Only ¹	—	—	—	2,056,250	—	—	—
Demand.....	—	—	—	1,872	—	—	—
Energy.....	61,678	—	—	307,031	124,520	153,954	381,012
Other ²	—	—	—	-12,918,364	—	—	—
State and Other							
Government							
Sales (thousand kWh).....	706,250	—	—	341,381	10,386	243,853	39,823
Revenue (dollars).....	39,583,127	166,320	—	61,521,092	251,183	31,231,224	653,658
Demand Charge Only ¹	—	166,320	—	—	—	—	—
Demand.....	26,693,734	—	—	54,142,978	—	23,277,863	—
Energy.....	12,889,393	—	—	7,329,865	251,183	6,753,283	653,658
Other ²	—	—	—	48,249	—	1,200,078	—
Municipal							
Sales (thousand kWh).....	183,109	1,763,633	—	470,715	753	658,856	70,529
Revenue (dollars).....	2,850,916	76,104,968	—	24,681,658	51,307	21,434,435	2,196,279
Demand Charge Only ¹	—	122,816	—	—	20,000	262,500	—
Demand.....	—	21,772,335	—	16,217,786	—	11,346,765	923,408
Energy.....	2,850,916	54,209,817	—	8,314,202	31,307	9,431,992	1,389,711
Other ²	—	—	—	149,670	—	393,178	-116,840
Cooperative							
Sales (thousand kWh).....	148,939	936,389	—	—	200	11,864	1,761,456
Revenue (dollars).....	2,054,668	34,316,279	—	—	4,200	280,803	78,446,007
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	16,450,207	—	—	—	1,040	51,869,805
Energy.....	2,054,668	17,866,072	—	—	4,200	279,763	33,359,989
Other ²	—	—	—	—	—	—	-6,783,787
Other³							
Sales (thousand kWh).....	946,964	12,207,651	—	122,404	447,693	279,705	242,744
Revenue (dollars).....	14,712,001	285,366,592	—	2,180,501	9,888,514	6,167,840	3,892,710
Demand Charge Only ¹	—	—	—	—	262,500	—	—
Demand.....	—	15,448,780	—	45,512	745,700	840,000	—
Energy.....	14,712,001	265,741,377	—	2,119,364	8,880,314	5,661,538	3,892,710
Other ²	—	4,176,435	—	15,625	—	-333,698	—
Total							
Sales (thousand kWh).....	3,360,297	17,190,436	—	1,213,139	649,946	1,787,028	3,361,217
Revenue (dollars).....	81,513,226	456,098,789	—	81,855,361	13,260,296	89,420,031	120,477,851
Demand Charge Only ¹	—	857,667	—	2,056,250	282,500	1,522,500	—
Demand.....	28,130,473	75,244,851	—	70,408,148	745,700	46,928,192	69,504,813
Energy.....	53,382,753	375,819,836	—	21,932,162	12,232,096	37,809,891	58,974,447
Other ²	—	4,176,435	—	-12,541,199	—	3,159,448	-8,001,409

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Colorado Utilicorp United Inc	Connecticut Connecticut Light & Power Co	Connecticut Connecticut Yankee Atomic Power Co ⁵	Connecticut United Illuminating Co	Delaware Delmarva Power & Light Co	District of Columbia Potomac Electric Power Co	Florida Florida Power & Light Co
Investor-Owned							
Sales (thousand kWh)	—	1,122,593	2,770,212	722,555	51,180	3,933,883	407,985
Revenue (dollars)	—	52,460,371	207,659,698	28,621,486	1,269,639	92,882,849	15,601,035
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	7,255,665	—	118,096	22,997
Energy	—	23,579,319	14,692,949	21,365,821	1,269,639	122,666	15,578,038
Other ²	—	28,881,052	192,966,749	—	—	92,642,087	—
Federal							
Sales (thousand kWh)	—	—	—	—	—	—	25,888
Revenue (dollars)	—	—	—	—	—	—	986,352
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	986,352
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh)	—	39,050	—	—	—	—	7,507
Revenue (dollars)	—	2,448,976	—	—	—	—	318,655
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	171,948
Energy	—	1,201,133	—	—	—	—	13,436
Other ²	—	1,247,843	—	—	—	—	133,271
Municipal							
Sales (thousand kWh)	—	1,691,586	—	—	1,223,951	—	1,133,175
Revenue (dollars)	—	85,854,998	—	—	44,304,746	—	30,162,808
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	10,775,264	—	8,575,655
Energy	—	36,209,229	—	—	33,378,135	—	12,057,239
Other ²	—	49,645,769	—	—	151,347	—	9,529,914
Cooperative							
Sales (thousand kWh)	—	36,353	—	—	513,109	2,564,785	1,060,083
Revenue (dollars)	—	1,101,856	—	—	33,724,913	121,907,893	85,209,676
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	21,976,693	53,748,673	58,030,920
Energy	—	747,881	—	—	12,015,304	73,840,406	5,428,535
Other ²	—	353,975	—	—	-267,084	-5,681,186	21,750,221
Other³							
Sales (thousand kWh)	—	1,919,703	—	1,537,868	2,400,137	3,134,421	829,505
Revenue (dollars)	—	44,912,766	—	44,223,057	61,990,553	82,812,149	26,230,262
Demand Charge Only ¹	—	—	—	—	—	626,190	—
Demand	—	—	—	263,934	—	—	—
Energy	—	34,824,234	—	43,792,645	61,990,553	—	26,230,262
Other ²	—	10,088,532	—	166,478	—	82,185,959	—
Total							
Sales (thousand kWh)	—	4,809,285	2,770,212	2,260,423	4,188,377	9,633,089	3,464,143
Revenue (dollars)	—	186,778,967	207,659,698	72,844,543	141,289,851	297,602,891	158,508,788
Demand Charge Only ¹	—	—	—	—	—	626,190	—
Demand	—	—	—	7,519,599	32,751,957	53,866,769	66,801,520
Energy	—	96,561,796	14,692,949	65,158,466	108,653,631	73,963,072	60,293,862
Other ²	—	90,217,171	192,966,749	166,478	-115,737	169,146,860	31,413,406

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Florida	Florida	Florida	Georgia	Georgia	Hawaii	Hawaii
	Florida Power Corp	Gulf Power Co	Tampa Electric Co	Georgia Power Co	Savannah Electric & Power Co	Citizens Utilities Co ⁴	Hawaiian Electric Co Inc ⁴
Investor-Owned							
Sales (thousand kWh).....	191,414	1,214,780	1,325,205	1,705,354	63,724	—	—
Revenue (dollars).....	10,037,349	52,258,509	32,114,925	59,030,144	1,201,507	—	—
Demand Charge Only ¹	6,169,800	—	—	—	—	—	—
Demand.....	—	26,803,275	5,903,278	27,400,775	—	—	—
Energy.....	3,867,549	27,678,058	26,125,480	31,629,369	1,201,507	—	—
Other ²	—	-2,222,824	86,167	—	—	—	—
Federal							
Sales (thousand kWh).....	44,087	7,132	—	54,870	2,768	—	—
Revenue (dollars).....	869,453	185,968	—	1,585,594	79,991	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	869,453	185,968	—	1,585,594	79,991	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh).....	—	809	—	715,350	314	—	—
Revenue (dollars).....	—	21,882	—	17,991,980	9,291	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	1,534,973	—	—	—
Energy.....	—	21,882	—	16,236,882	9,291	—	—
Other ²	—	—	—	220,125	—	—	—
Municipal							
Sales (thousand kWh).....	1,337,516	194,247	1,333,790	1,361,893	13,469	—	—
Revenue (dollars).....	70,735,769	7,955,402	31,033,602	45,713,078	259,783	—	—
Demand Charge Only ¹	107,121	—	—	—	—	—	—
Demand.....	34,335,691	3,956,344	7,131,974	19,620,328	—	—	—
Energy.....	23,817,838	4,274,679	23,901,628	25,460,830	259,783	—	—
Other ²	12,475,119	-275,621	—	631,920	—	—	—
Cooperative							
Sales (thousand kWh).....	893,588	18,532	397,261	3,813,516	1,527	—	—
Revenue (dollars).....	71,189,766	679,888	9,642,419	164,600,772	44,843	—	—
Demand Charge Only ¹	—	3,623	—	—	—	—	—
Demand.....	39,522,070	70,200	2,122,418	94,587,776	—	—	—
Energy.....	18,761,957	606,065	7,520,001	70,012,996	44,843	—	—
Other ²	12,905,739	—	—	—	—	—	—
Other³							
Sales (thousand kWh).....	241,128	808,244	185,130	1,397,566	51,616	—	—
Revenue (dollars).....	6,464,341	19,860,764	20,504,928	42,544,835	3,532,244	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	953,948	15,221,004	70,282	1,642,953	—	—
Energy.....	6,658,459	18,906,816	5,283,924	42,474,553	1,889,291	—	—
Other ²	-194,118	—	—	—	—	—	—
Total							
Sales (thousand kWh).....	2,707,733	2,243,744	3,241,386	9,048,549	133,418	—	—
Revenue (dollars).....	159,296,678	80,962,413	93,295,874	331,466,403	5,127,659	—	—
Demand Charge Only ¹	6,276,921	3,623	—	—	—	—	—
Demand.....	73,857,761	31,783,767	30,378,674	143,214,134	1,642,953	—	—
Energy.....	53,975,256	51,673,468	62,831,033	187,400,224	3,484,706	—	—
Other ²	25,186,740	-2,498,445	86,167	852,045	—	—	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Hawaii Maui Electric Co Ltd ⁴	Idaho Citizens Utilities Co ⁴	Idaho Idaho Power Co	Illinois Central Illinois Light Co	Illinois Central Illinois Public Service Co	Illinois Commonwealth Edison Co	Illinois Electric Energy Inc
Investor-Owned							
Sales (thousand kWh).....	—	—	3,239,956	366,792	2,523,763	8,384,204	3,118,705
Revenue (dollars).....	—	—	51,178,600	7,591,079	60,065,354	133,319,237	64,127,154
Demand Charge Only ¹	—	—	201,760	—	—	—	—
Demand.....	—	—	4,095,000	702,750	9,898,645	2,781,563	32,410,347
Energy.....	—	—	46,881,840	6,888,329	48,290,961	130,537,674	31,310,989
Other ²	—	—	—	—	1,875,748	—	405,818
Federal							
Sales (thousand kWh).....	—	—	6,668	—	274,850	1,360	2,220
Revenue (dollars).....	—	—	140,429	—	5,406,966	24,217	29,609
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	140,429	—	5,406,966	24,217	29,609
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh).....	—	—	430,872	—	—	—	—
Revenue (dollars).....	—	—	8,136,962	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	2,373,000	—	—	—	—
Energy.....	—	—	5,763,962	—	—	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Sales (thousand kWh).....	—	—	201,127	79,566	1,273,256	1,815,643	—
Revenue (dollars).....	—	—	4,534,005	1,888,662	34,319,903	73,020,964	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	930,589	492,333	12,064,903	29,515,761	—
Energy.....	—	—	3,603,026	1,133,164	21,874,663	43,502,579	—
Other ²	—	—	390	263,165	380,337	2,624	—
Cooperative							
Sales (thousand kWh).....	—	—	78,612	—	794,652	206,100	—
Revenue (dollars).....	—	—	1,862,510	—	37,772,994	3,394,243	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	24,925,488	—	—
Energy.....	—	—	1,862,510	—	10,104,032	3,394,243	—
Other ²	—	—	—	—	2,743,474	—	—
Other³							
Sales (thousand kWh).....	—	—	313,048	312,072	1,120,915	1,770,893	—
Revenue (dollars).....	—	—	4,369,977	5,727,368	24,131,407	25,281,905	—
Demand Charge Only ¹	—	—	24,300	—	-1,194,972	—	—
Demand.....	—	—	—	8,000	1,668,839	274,533	—
Energy.....	—	—	4,345,677	5,719,368	23,802,540	25,007,372	—
Other ²	—	—	—	—	-145,000	—	—
Total							
Sales (thousand kWh).....	—	—	4,270,283	758,430	5,987,436	12,178,200	3,120,925
Revenue (dollars).....	—	—	70,222,483	15,207,109	161,696,624	235,040,566	64,156,763
Demand Charge Only ¹	—	—	226,060	—	-1,194,972	—	—
Demand.....	—	—	7,398,589	1,203,083	48,557,875	32,571,857	32,410,347
Energy.....	—	—	62,597,444	13,740,861	109,479,162	202,466,085	31,340,598
Other ²	—	—	390	263,165	4,854,559	2,624	405,818

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Illinois Illinois Power Co	Illinois Mt Carmel Public Utility Co	Indiana Alcoa Generating Corp ⁴	Indiana Commonwealth Edison of Indiana ⁵	Indiana Indiana Michigan Power Co	Indiana Indianapolis Power & Light Co	Indiana Northern Indiana Public Service Co
Investor-Owned							
Sales (thousand kWh)	2,933,873	—	10,451	1,851,957	3,263,655	108,116	627,825
Revenue (dollars)	62,957,515	—	172,441	94,137,394	91,992,297	1,785,676	10,524,928
Demand Charge Only ¹	—	—	—	—	54,203	—	—
Demand	10,262,916	—	—	17,859,226	34,448,013	—	352,000
Energy	52,694,599	—	172,441	76,278,168	49,313,591	1,785,676	10,172,928
Other ²	—	—	—	—	8,176,490	—	—
Federal							
Sales (thousand kWh)	380,634	—	—	—	105,190	—	—
Revenue (dollars)	5,925,831	—	—	—	3,035,435	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	5,925,831	—	—	—	2,684,929	—	—
Other ²	—	—	—	—	350,506	—	—
State and Other							
Government							
Sales (thousand kWh)	—	—	—	—	344,161	7,610	1,156
Revenue (dollars)	—	—	—	—	13,025,817	147,875	31,403
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	8,142,659	34,072	—
Energy	—	—	—	—	4,753,411	113,803	14,081
Other ²	—	—	—	—	129,747	—	17,322
Municipal							
Sales (thousand kWh)	40,474	3,542	—	—	2,314,309	—	256,386
Revenue (dollars)	2,085,828	129,755	—	—	84,698,254	—	11,976,658
Demand Charge Only ¹	—	—	—	—	—	—	1,929,277
Demand	105,644	59,761	—	—	55,789,897	—	3,732,948
Energy	1,980,184	54,199	—	—	29,749,660	—	8,845,339
Other ²	—	15,795	—	—	-841,303	—	-2,530,906
Cooperative							
Sales (thousand kWh)	1,157,622	—	—	—	992,699	290,215	53,481
Revenue (dollars)	49,124,390	—	—	—	28,786,663	5,430,239	6,408,381
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	31,755,904	—	—	—	15,023,304	707,717	4,856,608
Energy	17,368,486	—	—	—	13,825,014	4,841,785	1,551,773
Other ²	—	—	—	—	-61,655	-119,263	—
Other³							
Sales (thousand kWh)	941,655	—	—	—	11,719,629	348,283	739,498
Revenue (dollars)	17,468,787	—	—	—	169,939,578	7,089,350	14,331,090
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	1,066,726	424,071
Energy	17,468,787	—	—	—	160,505,137	6,022,624	13,907,019
Other ²	—	—	—	—	9,434,441	—	—
Total							
Sales (thousand kWh)	5,454,258	3,542	10,451	1,851,957	18,739,643	754,224	1,678,346
Revenue (dollars)	137,562,351	129,755	172,441	94,137,394	391,478,044	14,453,140	43,272,460
Demand Charge Only ¹	—	—	—	—	54,203	—	1,929,277
Demand	42,124,464	59,761	—	17,859,226	113,403,873	1,808,515	9,365,627
Energy	95,437,887	54,199	172,441	76,278,168	260,831,742	12,763,888	34,491,140
Other ²	—	15,795	—	—	17,188,226	-119,263	-2,513,584

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Indiana PSI Energy Inc	Indiana Southern Indiana Gas & Electric Co	Iowa Interstate Power Co	Iowa Iowa Electric Light & Power Co	Iowa Iowa Southern Utilities Co	Iowa Iowa- Illinois Gas & Electric Co	Iowa Midwest Power Systems Inc
Investor-Owned							
Sales (thousand kWh)	4,787,426	312,721	229,977	—	—	—	—
Revenue (dollars)	95,125,782	6,848,273	3,103,944	—	—	—	—
Demand Charge Only ¹	126,250	—	—	—	—	—	—
Demand	3,190,293	5,000	—	—	—	—	—
Energy	91,809,239	6,843,273	3,103,944	—	—	—	—
Other ²	—	—	—	—	—	—	—
Federal							
Sales (thousand kWh)	30,050	—	845	—	—	—	—
Revenue (dollars)	1,306,380	—	8,460	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	676,000	—	—	—	—	—	—
Energy	630,380	—	8,460	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh)	1,498,139	—	1,541	—	—	—	—
Revenue (dollars)	31,161,323	—	34,190	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	8,741,622	—	—	—	—	—	—
Energy	26,134,318	—	34,190	—	—	—	—
Other ²	-3,714,617	—	—	—	—	—	—
Municipal							
Sales (thousand kWh)	805,148	554,008	224,360	—	—	—	—
Revenue (dollars)	22,403,666	22,750,555	7,711,466	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	8,988,213	10,459,299	2,629,803	—	—	—	—
Energy	14,070,795	11,537,257	5,081,663	—	—	—	—
Other ²	-655,342	753,999	—	—	—	—	—
Cooperative							
Sales (thousand kWh)	1,679,588	200,596	10,726	—	—	—	—
Revenue (dollars)	51,358,183	5,151,442	1,286,590	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	23,458,797	2,201,780	1,060,979	—	—	—	—
Energy	28,356,703	2,949,662	225,611	—	—	—	—
Other ²	-457,317	—	—	—	—	—	—
Other³							
Sales (thousand kWh)	1,644,197	430,156	—	—	—	—	—
Revenue (dollars)	43,981,430	6,163,316	—	—	—	—	—
Demand Charge Only ¹	166,667	—	—	—	—	—	—
Demand	2,102,913	147,500	—	—	—	—	—
Energy	33,196,724	6,015,816	—	—	—	—	—
Other ²	8,515,126	—	—	—	—	—	—
Total							
Sales (thousand kWh)	10,444,548	1,497,481	467,449	—	—	—	—
Revenue (dollars)	245,336,764	40,913,586	12,144,650	—	—	—	—
Demand Charge Only ¹	292,917	—	—	—	—	—	—
Demand	47,157,838	12,813,579	3,690,782	—	—	—	—
Energy	194,198,159	27,346,008	8,453,868	—	—	—	—
Other ²	3,687,850	753,999	—	—	—	—	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Kansas Kansas Gas & Electric Co	Kansas Western Resources Inc	Kentucky Kentucky Power Co	Kentucky Kentucky Utilities Co	Kentucky Louisville Gas & Electric Co	Kentucky Union Light Heat & Power Co	Louisiana Catalyst Old River Hydro ⁵
Investor-Owned							
Sales (thousand kWh).....	784,358	131,446	519,011	830,986	505,040	—	882,003
Revenue (dollars).....	18,229,663	3,089,576	13,850,755	17,314,099	12,148,272	—	56,277,910
Demand Charge Only ¹	—	—	—	26,730	—	—	—
Demand.....	4,848,851	309,000	890,790	1,848,120	4,826,000	—	—
Energy.....	13,354,076	2,780,576	9,976,217	16,336,379	7,322,272	—	56,277,910
Other ²	26,736	—	2,983,748	-897,130	—	—	—
Federal							
Sales (thousand kWh).....	—	—	38,269	147,505	302,120	—	—
Revenue (dollars).....	—	—	1,102,249	3,058,945	5,784,389	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	974,020	3,058,945	5,784,389	—	—
Other ²	—	—	128,229	—	—	—	—
State and Other							
Government							
Sales (thousand kWh).....	3,480	496,934	26,673	—	235,105	—	—
Revenue (dollars).....	89,513	11,189,258	570,408	—	4,214,255	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	4,125,505	—	—	718,080	—	—
Energy.....	89,513	7,063,753	497,558	—	3,496,175	—	—
Other ²	—	—	72,850	—	—	—	—
Municipal							
Sales (thousand kWh).....	649,678	1,194,443	181,028	1,579,055	176,256	53,069	56,354
Revenue (dollars).....	15,558,938	32,131,558	5,425,414	47,801,426	4,284,704	2,300,431	3,597,880
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	1,780,936	12,324,608	2,447,835	23,078,906	1,826,500	756,605	—
Energy.....	13,612,020	19,872,546	2,636,181	36,910,731	2,458,204	1,683,868	3,597,880
Other ²	165,982	-65,596	341,398	-12,188,211	—	-140,042	—
Cooperative							
Sales (thousand kWh).....	108,559	1,301,271	127,593	44,575	429,617	—	—
Revenue (dollars).....	4,390,985	38,605,866	2,985,288	893,810	9,090,776	—	—
Demand Charge Only ¹	765,898	7,860,000	—	—	—	—	—
Demand.....	1,669,800	7,846,595	860,620	—	1,877,936	—	—
Energy.....	1,955,287	23,027,285	1,822,545	893,810	7,212,840	—	—
Other ²	—	-128,014	302,123	—	—	—	—
Other³							
Sales (thousand kWh).....	1,159,855	78,248	2,787,727	1,118,248	1,940,952	—	—
Revenue (dollars).....	19,250,756	1,613,394	33,206,678	20,140,074	32,331,948	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	12,706	—	—	—	—	—
Energy.....	19,250,756	1,600,688	29,794,720	20,140,074	32,331,948	—	—
Other ²	—	—	3,411,958	—	—	—	—
Total							
Sales (thousand kWh).....	2,705,930	3,202,342	3,680,301	3,720,369	3,589,090	53,069	938,357
Revenue (dollars).....	57,519,855	86,629,652	57,140,792	89,208,354	67,854,344	2,300,431	59,875,790
Demand Charge Only ¹	765,898	7,860,000	—	26,730	—	—	—
Demand.....	8,299,587	24,618,414	4,199,245	24,927,026	9,248,516	756,605	—
Energy.....	48,261,652	54,344,848	45,701,241	77,339,939	58,605,828	1,683,868	59,875,790
Other ²	192,718	-193,610	7,240,306	-13,085,341	—	-140,042	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Louisiana	Louisiana	Louisiana	Louisiana	Maine	Maine	Maine
	Central Louisiana Electric Co Inc	Louisiana Power & Light Co	New Orleans Public Service Inc	Southwestern Electric Power Co	Bangor Hydro-Electric Co	Central Maine Power Co	Maine Electric Power Co Inc
Investor-Owned							
Sales (thousand kWh).....	151	—	—	453,922	319,530	8,547	1,981,126
Revenue (dollars).....	4,477	3,265,796	—	11,451,347	7,394,002	325,523	49,192,518
Demand Charge Only ¹	—	23,188	—	1,295,320	—	—	—
Demand.....	—	1,975,820	—	315,880	18,744	—	—
Energy.....	—	—	—	9,840,147	7,184,218	322,103	49,192,518
Other ²	4,477	1,266,788	—	—	191,040	3,420	—
Federal							
Sales (thousand kWh).....	—	—	—	2,409	—	—	—
Revenue (dollars).....	—	—	—	63,530	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	63,530	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh).....	806	—	—	29,787	—	1,536	—
Revenue (dollars).....	29,918	690,519	—	740,571	—	145,341	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	690,519	—	740,571	—	145,341	—
Other ²	29,918	—	—	—	—	—	—
Municipal							
Sales (thousand kWh).....	367,733	—	—	696,364	197	172,840	—
Revenue (dollars).....	11,238,273	—	—	20,852,242	13,568	6,569,745	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	1,526,130	—	—	6,162,235	3,417	1,233,507	—
Energy.....	77,683	—	—	14,690,007	8,833	5,323,978	—
Other ²	9,634,460	—	—	—	1,318	12,260	—
Cooperative							
Sales (thousand kWh).....	2,193	—	—	3,090,540	4,289	9,235	—
Revenue (dollars).....	71,665	7,030,586	—	61,522,186	300,627	404,388	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	21,516,054	71,789	102,133	—
Energy.....	—	—	—	39,853,096	192,402	289,995	—
Other ²	71,665	7,030,586	—	153,036	36,436	12,260	—
Other³							
Sales (thousand kWh).....	250,100	1,125,497	278,061	3,088,806	45,265	2,189,217	124,478
Revenue (dollars).....	4,075,475	52,763,660	12,530,841	63,076,303	11,093,883	51,789,676	3,387,775
Demand Charge Only ¹	—	—	—	67,500	—	—	—
Demand.....	75,600	20,234,158	4,001,482	—	—	—	—
Energy.....	—	26,975,851	7,441,364	62,613,847	11,093,883	51,343,968	3,378,526
Other ²	3,999,875	5,553,651	1,087,995	394,956	—	445,708	9,249
Total							
Sales (thousand kWh).....	620,983	1,125,497	278,061	7,361,828	369,281	2,381,375	2,105,604
Revenue (dollars).....	15,419,808	63,750,561	12,530,841	157,706,179	18,802,080	59,234,673	52,580,293
Demand Charge Only ¹	—	23,188	—	1,362,820	—	—	—
Demand.....	1,601,730	22,209,978	4,001,482	27,994,169	93,950	1,335,640	—
Energy.....	77,683	27,666,370	7,441,364	127,801,198	18,479,336	57,425,385	52,571,044
Other ²	13,740,395	13,851,025	1,087,995	547,992	228,794	473,648	9,249

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Maine Maine Public Service Co	Maine Maine Yankee Atomic Power Co ⁵	Maryland Allegheny Generating Co ⁵	Maryland Baltimore Gas & Electric Co	Maryland Conowingo Power Co	Maryland Potomac Edison Co	Massachusetts Boston Edison Co
Investor-Owned							
Sales (thousand kWh)	79,612	4,736,406	—	2,576,547	—	1,196,617	1,558,061
Revenue (dollars)	1,868,290	173,992,714	83,402,000	57,051,251	—	58,731,362	89,262,338
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	150,746,799	—	—	—	5,922,369	72,049,222
Energy	1,804,327	23,245,915	—	57,051,251	—	52,755,775	17,213,116
Other ²	63,963	—	83,402,000	—	—	53,218	—
Federal							
Sales (thousand kWh)	—	—	—	—	—	—	—
Revenue (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh)	—	—	—	—	—	—	—
Revenue (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Sales (thousand kWh)	14,801	264,862	—	—	—	653,337	789,514
Revenue (dollars)	759,502	9,729,747	—	—	—	26,436,674	43,683,847
Demand Charge Only ¹	—	—	—	—	—	—	15,000
Demand	260,608	8,429,823	—	—	—	13,455,906	30,000,342
Energy	498,894	1,299,924	—	—	—	12,392,187	13,668,505
Other ²	—	—	—	—	—	588,581	—
Cooperative							
Sales (thousand kWh)	11,892	52,770	—	—	—	66,892	—
Revenue (dollars)	623,323	1,938,486	—	—	—	3,118,262	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	238,043	1,679,499	—	—	—	1,712,312	—
Energy	385,280	258,987	—	—	—	1,338,178	—
Other ²	—	—	—	—	—	67,772	—
Other³							
Sales (thousand kWh)	155,372	—	—	5,003,487	—	337,647	1,520,902
Revenue (dollars)	3,203,110	—	—	98,825,669	—	7,359,915	58,386,920
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	83,686	—	—	—	—	1,308,296	12,091,269
Energy	3,119,424	—	—	98,825,669	—	6,051,619	46,295,651
Other ²	—	—	—	—	—	—	—
Total							
Sales (thousand kWh)	261,677	5,054,038	—	7,580,034	—	2,254,493	3,868,477
Revenue (dollars)	6,454,225	185,660,947	83,402,000	155,876,920	—	95,646,213	191,333,105
Demand Charge Only ¹	—	—	—	—	—	—	15,000
Demand	582,337	160,856,121	—	—	—	22,398,883	114,140,833
Energy	5,807,925	24,804,826	—	155,876,920	—	72,537,759	77,177,272
Other ²	63,963	—	83,402,000	—	—	709,571	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Massachusetts Cambridge Electric Light Co	Massachusetts Canal Electric Co	Massachusetts Commonwealth Electric Co	Massachusetts Eastern Edison Co ⁴	Massachusetts Fitchburg Gas & Electric Lght Co	Massachusetts Great Bay Power Co ⁵	Massachusetts Holyoke Power & Electric Co
Investor-Owned							
Sales (thousand kWh)	—	3,175,902	16,715	—	—	433,884	956,642
Revenue (dollars)	—	178,583,552	420,575	—	—	12,798,893	27,129,065
Demand Charge Only ¹	—	8,279	—	—	—	—	—
Demand	—	92,583,065	29,215	—	—	10,840,201	—
Energy	—	84,664,284	391,360	—	—	1,958,692	17,576,441
Other ²	—	1,327,924	—	—	—	—	9,552,624
Federal							
Sales (thousand kWh)	—	—	—	—	—	—	—
Revenue (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh)	—	—	—	—	72	6,065	—
Revenue (dollars)	—	—	—	—	15,185	147,838	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	10,834	120,458	—
Energy	—	—	—	—	4,351	27,380	—
Other ²	—	—	—	—	—	—	—
Municipal							
Sales (thousand kWh)	99,450	—	—	—	—	204,006	2,583
Revenue (dollars)	5,950,403	—	—	—	—	4,785,215	113,870
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	3,987,324	—	—	—	—	3,864,269	—
Energy	1,880,984	—	—	—	—	920,946	30
Other ²	82,095	—	—	—	—	—	113,840
Cooperative							
Sales (thousand kWh)	—	—	—	—	—	—	—
Revenue (dollars)	—	-19,113	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	-19,113	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Other³							
Sales (thousand kWh)	113,216	—	836,224	—	18,890	550,436	—
Revenue (dollars)	2,503,813	—	17,729,682	—	810,708	12,537,678	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	145,286	—	—	10,052,846	—
Energy	2,436,257	—	17,584,396	—	810,708	2,484,832	—
Other ²	67,556	—	—	—	—	—	—
Total							
Sales (thousand kWh)	212,666	3,175,902	852,939	—	18,962	1,194,391	959,225
Revenue (dollars)	8,454,216	178,564,439	18,150,257	—	825,893	30,269,624	27,242,935
Demand Charge Only ¹	—	8,279	—	—	—	—	—
Demand	3,987,324	92,583,065	174,501	—	10,834	24,877,774	—
Energy	4,317,241	84,645,171	17,975,756	—	815,059	5,391,850	17,576,471
Other ²	149,651	1,327,924	—	—	—	—	9,666,464

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Massachusetts Holyoke Water Power Co	Massachusetts Massachusetts Electric Co	Massachusetts Montaup Electric Co	Massachusetts New England Hydro Trans Elec Co ⁸	Massachusetts New England Power Co	Massachusetts Western Massachusetts Electric Co	Massachusetts Yankee Atomic Electric Co ⁸
Investor-Owned							
Sales (thousand kWh)	959,225	4,047	4,585,276	—	23,325,782	199,727	—
Revenue (dollars)	27,243,752	334,879	312,500,990	—	1,487,734,018	6,765,377	51,812,475
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	68,810	227,853,539	—	726,412,519	4,513	—
Energy	17,613,144	159,776	84,711,024	—	481,253,855	4,532,100	51,812,475
Other ²	9,630,608	106,293	-63,573	—	280,067,644	2,228,764	—
Federal							
Sales (thousand kWh)	—	—	—	—	—	—	—
Revenue (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh)	—	—	225	—	73,866	8,488	—
Revenue (dollars)	215	—	-6,030	—	1,699,255	295,249	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	675	—	—	—	—
Energy	—	—	-6,705	—	1,458,518	239,862	—
Other ²	215	—	—	—	240,737	55,387	—
Municipal							
Sales (thousand kWh)	—	73	141,786	—	834,640	59,667	—
Revenue (dollars)	—	7,685	8,684,297	—	45,949,236	1,890,944	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	5,177,431	—	14,266,580	—	—
Energy	—	5,903	3,525,302	—	18,677,104	1,281,233	—
Other ²	—	1,782	-18,436	—	13,005,552	609,711	—
Cooperative							
Sales (thousand kWh)	—	—	—	—	6,039	8,527	—
Revenue (dollars)	—	—	—	—	399,404	254,105	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	196,663	—	—
Energy	—	—	—	—	131,561	175,430	—
Other ²	—	—	—	—	71,180	78,675	—
Other³							
Sales (thousand kWh)	1,113,708	8,140	454,073	—	1,560,256	590,655	—
Revenue (dollars)	29,436,871	839,616	10,416,051	—	55,926,867	22,636,332	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	238,453	283,853	—	778,368	—	—
Energy	15,636,310	388,833	10,132,198	—	53,247,577	-14,955,524	—
Other ²	13,800,561	212,330	—	—	1,900,922	37,591,856	—
Total							
Sales (thousand kWh)	2,072,933	12,260	5,181,360	—	25,800,583	867,064	—
Revenue (dollars)	56,680,838	1,182,180	331,595,308	—	1,591,708,780	31,842,007	51,812,475
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	307,263	233,315,498	—	741,654,130	4,513	—
Energy	33,249,454	554,512	98,361,819	—	554,768,615	-8,726,899	51,812,475
Other ²	23,431,384	320,405	-82,009	—	295,286,035	40,564,393	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Michigan Consumers Power Co	Michigan Detroit Edison Co	Michigan Edison Sault Electric Co	Michigan Upper Peninsula Power Co	Michigan Wolverine Hydroelectric Corp ⁵	Minnesota Minnesota Power & Light Co	Minnesota Northern States Power Co
Investor-Owned							
Sales (thousand kWh).....	1,607,152	1,572,859	—	18,140	—	2,422,186	8,459,588
Revenue (dollars).....	40,338,496	35,793,991	—	732,091	—	53,390,906	224,795,495
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	11,565,292	9,788,943	—	320,441	—	18,233,198	4,290,376
Energy.....	32,677,226	26,005,144	—	454,765	—	36,461,860	47,109,611
Other ²	-3,904,022	-96	—	-43,115	—	-1,304,152	173,395,508
Federal							
Sales (thousand kWh).....	—	—	—	—	—	1,190	30,803
Revenue (dollars).....	—	—	—	—	—	16,780	379,858
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	16,780	379,858
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh).....	165,728	47,883	—	—	—	174,255	93,935
Revenue (dollars).....	4,139,887	939,094	—	—	—	2,481,399	2,350,271
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	1,305,684	38,682	—	—	—	—	—
Energy.....	2,834,203	844,308	—	—	—	2,481,399	2,350,271
Other ²	—	56,104	—	—	—	—	—
Municipal							
Sales (thousand kWh).....	458,812	519,665	—	84,977	—	695,859	906,494
Revenue (dollars).....	15,987,089	16,624,541	—	3,287,720	—	19,664,507	22,852,632
Demand Charge Only ¹	—	—	—	53,760	—	—	—
Demand.....	5,358,441	5,871,417	—	1,160,945	—	10,580,857	5,195,962
Energy.....	14,526,129	13,094,850	—	2,229,206	—	9,883,590	17,615,712
Other ²	-3,897,481	-2,341,726	—	-156,191	—	-799,940	40,958
Cooperative							
Sales (thousand kWh).....	71,005	878,355	166,818	40,777	—	260,880	185,798
Revenue (dollars).....	2,610,720	34,400,317	4,392,384	1,564,817	—	5,505,883	3,254,654
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	1,214,888	17,675,150	487,751	471,081	—	73,000	235,000
Energy.....	2,113,207	20,014,593	3,493,581	1,116,325	—	5,432,883	3,019,654
Other ²	-717,375	-3,289,426	411,052	-22,589	—	—	—
Other³							
Sales (thousand kWh).....	733,516	106,352	—	—	—	294,162	110,683
Revenue (dollars).....	18,602,587	1,692,277	—	—	—	4,356,399	1,332,126
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	3,958,269	247,764	—	—	—	498,097	62,400
Energy.....	13,810,788	1,444,513	—	—	—	3,965,370	1,269,726
Other ²	833,530	—	—	—	—	-107,068	—
Total							
Sales (thousand kWh).....	3,036,213	3,125,114	166,818	143,894	—	3,848,532	9,787,301
Revenue (dollars).....	81,678,779	89,450,220	4,392,384	5,584,628	—	85,415,874	254,965,036
Demand Charge Only ¹	—	—	—	53,760	—	—	—
Demand.....	23,402,574	33,621,956	487,751	1,952,467	—	29,385,152	9,783,738
Energy.....	65,961,553	61,403,408	3,493,581	3,800,296	—	58,241,882	71,744,832
Other ²	-7,685,348	-5,575,144	411,052	-221,895	—	-2,211,160	173,436,466

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Minnesota	Mississippi	Mississippi	Mississippi	Missouri	Missouri	Missouri
	Otter Tail Power Co	Mississippi Power & Light Co	Mississippi Power Co	Systems Energy Resources Inc ⁵	Empire District Electric Co	Kansas City Power & Light Co	St Joseph Light & Power Co
Investor-Owned							
Sales (thousand kWh)	311,469	—	180,553	8,301,980	184,384	2,146,068	58,432
Revenue (dollars)	5,050,739	—	3,291,403	671,537,092	3,686,654	35,791,876	1,063,000
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	-12,318	—	1,991,832	66,008	—
Energy	5,050,739	—	3,303,721	671,537,092	1,667,972	33,962,011	1,063,000
Other ²	—	—	—	—	26,850	1,763,857	—
Federal							
Sales (thousand kWh)	10,017	—	6,441	—	—	—	—
Revenue (dollars)	120,621	—	204,497	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	120,621	—	204,497	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh)	143,128	—	890	—	18,707	15,863	2,355
Revenue (dollars)	2,210,627	—	24,063	—	389,606	317,230	47,077
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	2,210,627	—	24,063	—	389,606	317,230	47,077
Other ²	—	—	—	—	—	—	—
Municipal							
Sales (thousand kWh)	60,413	—	73,339	—	247,695	966,689	700
Revenue (dollars)	1,091,726	791,449	2,064,995	—	8,914,168	22,947,561	24,600
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	104,720	—	-1,569	—	2,991,105	1,318,650	—
Energy	999,113	—	1,466,071	—	5,923,063	16,006,261	24,600
Other ²	-12,107	791,449	600,493	—	—	5,622,650	—
Cooperative							
Sales (thousand kWh)	82,546	—	2,433,956	—	14,979	617,134	9,765
Revenue (dollars)	1,311,120	6,686,728	93,252,998	—	580,417	9,302,731	179,156
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	400,000	—	310,253	807,820	—
Energy	1,311,120	—	53,152,124	—	270,164	8,494,911	179,156
Other ²	—	6,686,728	39,700,874	—	—	—	—
Other³							
Sales (thousand kWh)	29,091	1,888,950	732,907	—	16,379	426,277	7,904
Revenue (dollars)	452,992	81,562,940	23,005,128	—	505,347	7,083,564	133,067
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	8,806,019	3,744,502	—	—	—	—
Energy	452,992	70,364,316	19,260,626	—	505,347	7,083,564	133,067
Other ²	—	2,392,605	—	—	—	—	—
Total							
Sales (thousand kWh)	636,664	1,888,950	3,428,086	8,301,980	482,144	4,172,031	79,156
Revenue (dollars)	10,237,825	89,041,117	121,843,084	671,537,092	14,076,192	75,442,962	1,446,900
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	104,720	8,806,019	4,130,615	—	5,293,190	2,192,478	—
Energy	10,145,212	70,364,316	77,411,102	671,537,092	8,756,152	65,863,977	1,446,900
Other ²	-12,107	9,870,782	40,301,367	—	26,850	7,386,507	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Missouri Union Electric Co	Missouri UtiliCorp United Inc	Montana Montana Power Co	Nevada Nevada Power Co	Nevada Sierra Pacific Power Co	New Hampshire Concord Electric Co ⁴	New Hampshire Connecticut Valley Electric Co ⁴
Investor-Owned							
Sales (thousand kWh).....	2,727,860	312,873	1,893,912	67,658	91,368	—	—
Revenue (dollars).....	73,500,260	7,328,650	48,910,501	1,343,595	1,816,623	—	—
Demand Charge Only ¹	—	—	111,388	—	—	—	—
Demand.....	21,776,522	727,000	25,539,048	—	144,726	—	—
Energy.....	51,723,738	6,288,609	23,225,594	1,343,595	1,659,520	—	—
Other ²	—	313,041	34,471	—	12,377	—	—
Federal							
Sales (thousand kWh).....	102,983	43,685	444,459	700	43,420	—	—
Revenue (dollars).....	1,731,445	857,930	8,398,722	23,370	1,526,199	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	501,671	—	—
Energy.....	1,731,445	820,676	8,398,722	23,370	1,079,115	—	—
Other ²	—	37,254	—	—	-54,587	—	—
State and Other							
Government							
Sales (thousand kWh).....	—	15,768	7,470	341,830	104,860	—	—
Revenue (dollars).....	—	376,775	87,150	6,509,604	4,873,690	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	775,079	2,023,843	—	—
Energy.....	—	358,107	87,150	5,825,423	2,834,883	—	—
Other ²	—	18,668	—	-90,898	14,964	—	—
Municipal							
Sales (thousand kWh).....	1,536,117	425,780	620,814	71,378	382,405	—	—
Revenue (dollars).....	51,780,919	14,749,538	37,235,600	2,393,609	5,987,221	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	3,088,032	5,283,080	22,287,475	1,045,025	1,085,892	—	—
Energy.....	48,692,887	10,670,152	14,948,125	1,375,429	5,518,960	—	—
Other ²	—	-1,203,694	—	-26,845	-617,631	—	—
Cooperative							
Sales (thousand kWh).....	832,957	316,172	493,015	118,678	150,788	—	—
Revenue (dollars).....	28,278,455	8,850,740	18,102,256	4,435,439	1,508,250	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	31,101	2,651,468	4,977,555	1,295,239	—	—	—
Energy.....	28,247,354	6,079,804	13,124,701	3,406,966	1,508,163	—	—
Other ²	—	119,468	—	-266,766	87	—	—
Other³							
Sales (thousand kWh).....	3,594,462	344,475	529,430	74,814	50,191	—	—
Revenue (dollars).....	61,213,871	6,719,136	7,376,104	1,490,287	886,108	—	—
Demand Charge Only ¹	—	—	171,261	—	—	—	—
Demand.....	30,000	176,400	—	—	—	—	—
Energy.....	61,183,871	6,073,275	6,970,459	1,026,638	886,108	—	—
Other ²	—	469,461	234,384	463,649	—	—	—
Total							
Sales (thousand kWh).....	8,794,379	1,458,753	3,989,100	675,058	823,032	—	—
Revenue (dollars).....	216,504,950	38,882,769	120,110,333	16,195,904	16,598,091	—	—
Demand Charge Only ¹	—	—	282,649	—	—	—	—
Demand.....	24,925,655	8,837,948	52,804,078	3,115,343	3,756,132	—	—
Energy.....	191,579,295	30,290,623	66,754,751	13,001,421	13,486,749	—	—
Other ²	—	-245,802	268,855	79,140	-644,790	—	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	New Hampshire Exeter & Hampton Electric Co ⁴	New Hampshire Granite State Electric Co ⁴	New Hampshire New England Trans Corp ⁸	New Hampshire New England Hydro-Trans Corp ⁸	New Hampshire North Atlantic Energy Corp ⁵	New Hampshire Public Service Co of NH	New Hampshire Unitil Power Corp
Investor-Owned							
Sales (thousand kWh)	—	—	—	—	3,542,137	987,084	—
Revenue (dollars)	—	—	—	—	159,548,793	40,557,131	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	67,230	—
Energy	—	—	—	—	15,013,395	19,216,469	—
Other ²	—	—	—	—	144,535,398	21,273,432	—
Federal							
Sales (thousand kWh)	—	—	—	—	—	—	—
Revenue (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh)	—	—	—	—	—	14,924	—
Revenue (dollars)	—	—	—	—	—	458,855	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	396,224	—
Other ²	—	—	—	—	—	62,631	—
Municipal							
Sales (thousand kWh)	—	—	—	—	—	217,194	—
Revenue (dollars)	—	—	—	—	—	10,862,009	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	1,972,383	—
Energy	—	—	—	—	—	7,998,180	—
Other ²	—	—	—	—	—	891,446	—
Cooperative							
Sales (thousand kWh)	—	—	—	—	—	596,470	—
Revenue (dollars)	—	—	—	—	—	47,904,760	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	16,011,028	—
Energy	—	—	—	—	—	34,106,728	—
Other ²	—	—	—	—	—	-2,212,996	—
Other³							
Sales (thousand kWh)	—	—	—	—	—	5,319,320	—
Revenue (dollars)	—	—	—	—	—	201,693,051	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	201,511,696	—
Other ²	—	—	—	—	—	181,355	—
Total							
Sales (thousand kWh)	—	—	—	—	3,542,137	7,134,992	—
Revenue (dollars)	—	—	—	—	159,548,793	301,475,806	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	18,050,641	—
Energy	—	—	—	—	15,013,395	263,229,297	—
Other ²	—	—	—	—	144,535,398	20,195,868	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	New Jersey Atlantic City Electric Co	New Jersey Jersey Central Power & Light Co	New Jersey Public Service Electric & Gas Co	New Jersey Rockland Electric Co ⁴	New Mexico Public Service Co of NM	New Mexico Texas-New Mexico Power Co ⁴	New York Central Hudson Gas & Electric Corp
Investor-Owned							
Sales (thousand kWh)	208,961	5,382	—	—	3,095,674	—	84,208
Revenue (dollars)	5,802,405	369,508	—	—	79,928,634	—	2,519,628
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	29,134,781	—	22,885
Energy	5,658,760	369,508	—	—	50,555,126	—	2,496,743
Other ²	143,645	—	—	—	238,727	—	—
Federal							
Sales (thousand kWh)	—	—	—	—	15,755	—	—
Revenue (dollars)	—	—	—	—	424,273	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	424,273	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh)	—	—	—	—	98,707	—	200
Revenue (dollars)	—	—	—	—	1,097,611	—	15,309
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	9,509
Energy	—	—	—	—	1,097,501	—	5,800
Other ²	—	—	—	—	110	—	—
Municipal							
Sales (thousand kWh)	291,031	—	—	—	272,731	—	—
Revenue (dollars)	6,769,936	—	—	—	9,915,731	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	5,855,325	—	—
Energy	6,713,291	—	—	—	3,276,005	—	—
Other ²	56,645	—	—	—	784,401	—	—
Cooperative							
Sales (thousand kWh)	—	—	—	—	145,698	—	—
Revenue (dollars)	—	690	—	—	2,271,582	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	690	—	—	2,260,406	—	—
Other ²	—	—	—	—	11,176	—	—
Other³							
Sales (thousand kWh)	1,317,991	998,250	2,806,056	—	946,655	—	474,442
Revenue (dollars)	35,886,561	34,873,783	79,684,467	—	27,691,046	—	12,363,679
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	1,863,421	14,602,981	—	11,810,291	—	—
Energy	34,775,508	33,010,362	53,101,338	—	15,880,755	—	12,363,679
Other ²	1,111,053	—	11,980,148	—	—	—	—
Total							
Sales (thousand kWh)	1,817,983	1,003,632	2,806,056	—	4,575,220	—	558,850
Revenue (dollars)	48,458,902	35,243,981	79,684,467	—	121,328,877	—	14,898,616
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	1,863,421	14,602,981	—	46,800,397	—	32,394
Energy	47,147,559	33,380,560	53,101,338	—	73,494,066	—	14,866,222
Other ²	1,311,343	—	11,980,148	—	1,034,414	—	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	New York Consolidated Edison Co-NY Inc	New York Long Island Lighting Co	New York Long Sault Inc ⁶	New York New York State Electric & Gas Corp	New York Niagara Mohawk Power Corp	New York Orange & Rockland Utilities Inc	New York Rochester Gas & Electric Corp
Investor-Owned							
Sales (thousand kWh)	627,379	52,847	—	—	709,468	1,493,477	279,500
Revenue (dollars)	14,049,814	2,102,934	—	—	17,934,127	71,469,282	5,645,227
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	2,350	—	—	—	90,225	23,250,938	142,746
Energy	14,045,259	2,102,934	—	—	17,843,902	48,217,684	5,502,481
Other ²	2,205	—	—	—	—	660	—
Federal							
Sales (thousand kWh)	—	—	—	—	—	—	—
Revenue (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh)	2,375	—	—	—	301,763	—	184,646
Revenue (dollars)	270,870	—	—	—	5,492,676	—	3,425,485
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	269,951	—	27,710
Energy	57,050	—	—	—	5,222,725	—	3,397,775
Other ²	213,820	—	—	—	—	—	—
Municipal							
Sales (thousand kWh)	—	13,377	—	—	51,876	—	—
Revenue (dollars)	—	505,542	—	—	1,648,241	—	—
Demand Charge Only ¹	—	—	—	—	446,400	—	—
Demand	—	—	—	—	154,098	—	—
Energy	—	505,542	—	—	1,047,743	—	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Sales (thousand kWh)	—	—	—	—	—	—	—
Revenue (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Other³							
Sales (thousand kWh)	3,287,600	461,136	—	7,913,461	4,368,171	153,039	511,597
Revenue (dollars)	42,376,602	18,318,343	—	162,232,579	88,316,126	2,987,483	7,701,342
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	206,818	—	—	50,149	1,128,270	—	100,073
Energy	42,150,202	18,318,343	—	162,182,430	87,187,856	2,904,947	7,601,269
Other ²	19,582	—	—	—	—	82,536	—
Total							
Sales (thousand kWh)	3,917,354	527,360	—	7,913,461	5,431,278	1,646,516	975,743
Revenue (dollars)	56,697,286	20,926,819	—	162,232,579	113,391,170	74,456,765	16,772,054
Demand Charge Only ¹	—	—	—	—	446,400	—	—
Demand	209,168	—	—	50,149	1,642,544	23,250,938	270,529
Energy	56,252,511	20,926,819	—	162,182,430	111,302,226	51,122,631	16,501,525
Other ²	235,607	—	—	—	—	83,196	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	North Carolina Carolina Power & Light Co	North Carolina Cascade Power Company ⁵	North Carolina Duke Power Co	North Carolina Nantahala Power & Light Co	North Carolina Yadkin Inc ⁴	North Dakota MDU Resources Group Inc	Ohio AEP Generating Co
Investor-Owned							
Sales (thousand kWh).....	3,557,251	—	1,956,314	298,005	—	266,855	8,466,054
Revenue (dollars).....	69,523,702	—	108,933,207	5,253,789	—	4,361,701	225,767,206
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	302,462	—	61,808,568	—	—	—	40,413,072
Energy.....	69,324,461	—	48,278,355	5,253,789	—	4,361,701	185,354,134
Other ²	-103,221	—	-1,153,716	—	—	—	—
Federal							
Sales (thousand kWh).....	182,074	—	—	90,893	—	6,025	—
Revenue (dollars).....	3,895,579	—	—	2,228,359	—	69,151	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	70,000	—	—	—	—	—	—
Energy.....	3,825,579	—	—	2,223,359	—	69,151	—
Other ²	—	—	—	5,000	—	—	—
State and Other							
Government							
Sales (thousand kWh).....	38,166	—	43,286	—	—	29,203	—
Revenue (dollars).....	961,648	—	1,193,738	—	—	493,429	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	961,648	—	1,193,738	—	—	493,429	—
Other ²	—	—	—	—	—	—	—
Municipal							
Sales (thousand kWh).....	4,684,254	—	2,349,542	34,698	—	13,606	—
Revenue (dollars).....	184,757,783	—	113,100,458	1,357,051	—	210,339	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	52,326,581	—	50,635,074	966,607	—	—	—
Energy.....	142,067,002	—	67,454,570	341,059	—	210,339	—
Other ²	-9,635,800	—	-4,989,186	49,385	—	—	—
Cooperative							
Sales (thousand kWh).....	4,875,491	—	1,757,632	22,722	—	58,816	—
Revenue (dollars).....	280,467,456	—	115,592,310	888,010	—	1,118,156	—
Demand Charge Only ¹	—	—	25,000	—	—	—	—
Demand.....	170,667,404	—	91,977,678	636,045	—	—	—
Energy.....	111,153,835	—	23,589,632	216,187	—	1,118,156	—
Other ²	-1,353,783	—	—	35,778	—	—	—
Other³							
Sales (thousand kWh).....	46,080	—	720,592	28,625	—	30	—
Revenue (dollars).....	-12,546,180	—	21,964,486	1,147,360	—	755	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	1,200,000	792,077	—	—	—
Energy.....	11,813,374	—	18,223,100	281,632	—	755	—
Other ²	-24,359,554	—	2,541,386	73,651	—	—	—
Total							
Sales (thousand kWh).....	13,383,316	—	6,827,366	474,943	—	374,535	8,466,054
Revenue (dollars).....	527,059,988	—	360,784,199	10,874,569	—	6,253,531	225,767,206
Demand Charge Only ¹	—	—	25,000	—	—	—	—
Demand.....	223,366,447	—	205,621,320	2,394,729	—	—	40,413,072
Energy.....	339,145,899	—	158,739,395	8,316,026	—	6,253,531	185,354,134
Other ²	-35,452,358	—	-3,601,516	163,814	—	—	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Ohio Cincinnati Gas & Electric Co	Ohio Cleveland Electric Illuminating Co	Ohio Columbus Southern Power Co	Ohio Dayton Power & Light Co	Ohio Indiana-Kentucky Electric Corp ⁵	Ohio Ohio Edison Co	Ohio Ohio Power Co
Investor-Owned							
Sales (thousand kWh)	7,833,780	755,217	1,245,426	577,739	9,682,683	4,424,140	4,589,479
Revenue (dollars)	220,714,907	12,435,645	33,092,963	12,277,753	158,983,092	165,604,726	128,573,042
Demand Charge Only ¹	126,250	—	47,285	—	—	—	78,963
Demand	72,333,941	1,890	2,663,359	5,000	41,737,040	94,441,578	5,117,180
Energy	172,311,112	12,433,755	23,302,972	12,170,751	117,246,052	68,519,807	111,562,772
Other ²	-24,056,396	—	7,079,347	102,002	—	2,643,341	11,814,127
Federal							
Sales (thousand kWh)	76,115	—	91,629	—	—	—	152,442
Revenue (dollars)	1,524,928	—	2,637,916	—	—	—	4,401,022
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	9,213	—	—	—	—	—	—
Energy	1,515,715	—	2,333,422	—	—	—	3,893,056
Other ²	—	—	304,494	—	—	—	507,966
State and Other							
Government							
Sales (thousand kWh)	—	—	60,790	36,471	—	—	104,476
Revenue (dollars)	—	—	1,360,067	579,958	—	—	2,267,335
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	1,187,454	579,958	—	—	1,979,577
Other ²	—	—	172,613	—	—	—	287,758
Municipal							
Sales (thousand kWh)	838,725	23,522	683,344	780,222	—	154,725	1,173,336
Revenue (dollars)	23,562,799	561,889	21,395,308	17,755,253	—	5,137,794	34,737,431
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	5,392,157	713,731	6,958,996	4,811,204	—	1,845,611	13,098,665
Energy	19,624,733	-294,172	13,676,041	9,575,212	—	3,143,023	20,371,026
Other ²	-1,454,091	142,330	760,271	3,368,837	—	149,160	1,267,740
Cooperative							
Sales (thousand kWh)	176,150	—	294,651	—	—	—	1,172,069
Revenue (dollars)	3,638,137	—	7,127,306	—	—	—	24,483,754
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	67,750	—	2,059,906	—	—	—	3,435,479
Energy	3,570,387	—	4,351,006	—	—	—	19,853,708
Other ²	—	—	716,394	—	—	—	1,194,567
Other³							
Sales (thousand kWh)	720,585	1,376,523	2,427,238	656,294	—	2,480,843	13,901,100
Revenue (dollars)	15,602,264	32,374,316	27,881,948	13,116,848	—	41,757,363	332,239,562
Demand Charge Only ¹	166,667	—	—	—	—	—	—
Demand	108,941	85,828	—	16,128	—	727,281	—
Energy	15,348,280	32,288,488	19,757,699	13,099,920	—	41,030,082	318,695,346
Other ²	-21,624	—	8,124,249	800	—	—	13,544,216
Total							
Sales (thousand kWh)	9,645,355	2,155,262	4,803,078	2,050,726	9,682,683	7,059,708	21,092,902
Revenue (dollars)	265,043,035	45,371,850	93,495,508	43,729,812	158,983,092	212,499,883	526,702,146
Demand Charge Only ¹	292,917	—	47,285	—	—	—	78,963
Demand	77,912,002	801,449	11,682,261	4,832,332	41,737,040	97,014,470	21,651,324
Energy	212,370,227	44,428,071	64,608,594	35,425,841	117,246,052	112,692,912	476,355,485
Other ²	-25,532,111	142,330	17,157,368	3,471,639	—	2,792,501	28,616,374

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Ohio	Ohio	Oklahoma	Oklahoma	Oregon	Oregon	Pennsylvania
	Ohio Valley Electric Corp	Toledo Edison Co	Oklahoma Gas & Electric Co	Public Service Co of Oklahoma	PacifiCorp	Portland General Electric Co	Citizens Electric Co ⁴
Investor-Owned							
Sales (thousand kWh).....	5,342,601	1,602,535	288,128	43,783	12,006,353	3,372,147	—
Revenue (dollars).....	88,128,059	112,202,196	6,177,982	1,632,830	344,981,357	60,855,557	—
Demand Charge Only ¹	—	—	—	105,000	25,000	22,452	—
Demand.....	21,554,449	2,452	—	341,667	152,567,188	16,993,600	—
Energy.....	66,573,610	112,199,744	6,177,982	1,141,955	191,640,222	43,596,427	—
Other ²	—	—	—	44,208	748,947	243,078	—
Federal							
Sales (thousand kWh).....	—	—	41,492	81,469	2,125,683	528,089	—
Revenue (dollars).....	—	—	1,165,410	3,064,173	74,195,675	27,743,921	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	1,094,585	34,830,000	16,500,000	—
Energy.....	—	—	1,691,581	1,850,425	40,767,834	11,243,861	—
Other ²	—	—	-526,171	119,163	-1,402,159	60	—
State and Other							
Government							
Sales (thousand kWh).....	—	—	322,695	38,256	3,222,499	737,830	—
Revenue (dollars).....	—	—	8,738,132	5,088,337	82,219,331	10,985,648	—
Demand Charge Only ¹	—	—	—	—	—	338,000	—
Demand.....	—	—	2,254,320	3,176,683	26,756,547	—	—
Energy.....	—	—	8,605,172	908,392	55,740,539	10,619,568	—
Other ²	—	—	-2,121,360	1,003,262	-277,755	28,080	—
Municipal							
Sales (thousand kWh).....	—	473,712	167,622	38,284	2,150,970	1,483,713	—
Revenue (dollars).....	—	20,133,278	4,731,996	1,194,634	76,607,114	27,799,092	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	5,914,477	1,535,113	329,961	35,444,250	7,684,075	—
Energy.....	—	14,141,865	4,569,873	864,673	40,626,922	20,739,515	—
Other ²	—	76,936	-1,372,990	—	535,942	-624,498	—
Cooperative							
Sales (thousand kWh).....	—	905	1,153,315	70,680	837,392	36,730	—
Revenue (dollars).....	—	36,050	29,079,081	1,963,419	11,572,184	575,075	—
Demand Charge Only ¹	—	—	—	—	—	750	—
Demand.....	—	19,549	9,871,999	822,173	313,550	—	—
Energy.....	—	16,501	28,604,728	1,141,246	11,258,634	574,325	—
Other ²	—	—	-9,397,646	—	—	—	—
Other³							
Sales (thousand kWh).....	—	252,611	576,243	1,214,897	9,312,189	4,526,370	—
Revenue (dollars).....	—	4,269,859	10,248,035	26,341,213	149,226,989	67,859,929	—
Demand Charge Only ¹	—	—	—	—	21,000	242,500	—
Demand.....	—	26,604	—	—	5,980,350	—	—
Energy.....	—	4,243,255	10,248,035	26,173,728	143,466,068	67,455,815	—
Other ²	—	—	—	167,485	-240,429	161,614	—
Total							
Sales (thousand kWh).....	5,342,601	2,329,763	2,549,495	1,487,369	29,655,086	10,684,879	—
Revenue (dollars).....	88,128,059	136,641,383	60,140,636	39,284,606	738,802,650	195,819,222	—
Demand Charge Only ¹	—	—	—	105,000	46,000	603,702	—
Demand.....	21,554,449	5,963,082	13,661,432	5,765,069	255,891,885	41,177,675	—
Energy.....	66,573,610	130,601,365	59,897,371	32,080,419	483,500,219	154,229,511	—
Other ²	—	76,936	-13,418,167	1,334,118	-635,454	-191,666	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Pennsylvania Duquesne Light Co	Pennsylvania Metropolitan Edison Co	Pennsylvania Pennsylvania Electric Co	Pennsylvania Pennsylvania Power & Light Co	Pennsylvania Pennsylvania Power Co	Pennsylvania Philadelphia Electric Co	Pennsylvania Pike County Light & Power Co ⁴
Investor-Owned							
Sales (thousand kWh)	3,136,240	4,689	101,071	9,428,431	653,781	14,712,025	—
Revenue (dollars)	56,312,850	261,058	5,100,639	347,163,162	24,545,016	364,814,829	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	15,221,193	79,142	2,220,956	2,070,925	15,368,158	50,675,939	—
Energy	41,091,657	164,995	3,066,431	146,074,579	9,192,261	313,684,064	—
Other ²	—	16,921	-186,748	199,017,658	-15,403	454,826	—
Federal							
Sales (thousand kWh)	—	—	—	—	—	402,463	—
Revenue (dollars)	—	—	—	—	—	8,489,788	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	680,346	—
Energy	—	—	—	—	—	7,809,442	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh)	—	—	—	—	—	286,755	—
Revenue (dollars)	—	—	—	—	—	6,021,300	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	502,272	—
Energy	—	—	—	—	—	5,519,028	—
Other ²	—	—	—	—	—	—	—
Municipal							
Sales (thousand kWh)	12,808	95,793	376,264	755,539	130,509	128,569	—
Revenue (dollars)	857,283	1,456,172	12,156,031	29,822,917	5,650,189	2,701,161	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	471,607	355,969	5,431,171	11,698,656	2,112,378	418,429	—
Energy	384,240	1,100,203	7,175,397	18,124,261	3,537,811	2,282,732	—
Other ²	1,436	—	-450,537	—	—	—	—
Cooperative							
Sales (thousand kWh)	—	—	278,623	29,281	—	252,607	—
Revenue (dollars)	—	324	13,234,083	1,200,454	—	5,088,317	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	8,562,969	494,739	—	413,453	—
Energy	—	324	4,671,114	705,715	—	4,674,864	—
Other ²	—	—	—	—	—	—	—
Other³							
Sales (thousand kWh)	173,966	672,326	2,371,073	4,125,983	321,547	5,385,497	—
Revenue (dollars)	1,978,999	20,103,060	52,158,638	84,051,986	5,332,975	135,836,153	—
Demand Charge Only ¹	—	—	—	—	—	2,800	—
Demand	—	648,687	7,551,666	—	78,419	12,089,445	—
Energy	1,978,999	19,459,668	44,706,614	84,171,551	5,254,556	123,743,908	—
Other ²	—	-5,295	-99,642	-119,565	—	—	—
Total							
Sales (thousand kWh)	3,323,014	772,808	3,127,031	14,339,234	1,105,837	21,167,916	—
Revenue (dollars)	59,149,132	21,820,614	82,649,391	462,238,519	35,528,180	522,951,548	—
Demand Charge Only ¹	—	—	—	—	—	2,800	—
Demand	15,692,800	1,083,798	23,766,762	14,264,320	17,558,955	64,779,884	—
Energy	43,454,896	20,725,190	59,619,556	249,076,106	17,984,628	457,714,038	—
Other ²	1,436	11,626	-736,927	198,898,093	-15,403	454,826	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Pennsylvania Safe Harbor Water Power Corp ⁵	Pennsylvania Susquehanna Electric Co ⁵	Pennsylvania UGI Corp	Pennsylvania West Penn Power Co	Pennsylvania York Haven Power Co ⁵	Rhode Island Blackstone Valley Electric Co ⁴	Rhode Island Narragansett Electric Co
Investor-Owned							
Sales (thousand kWh)	1,577,873	2,382,152	—	2,623,891	117,994	—	586
Revenue (dollars)	30,332,830	24,333,922	—	109,543,904	6,744,613	—	75,375
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	478,136	—	8,422,927	—	—	—
Energy	—	23,801,447	—	84,893,737	6,744,613	—	67,787
Other ²	30,332,830	54,339	—	16,227,240	—	—	7,588
Federal							
Sales (thousand kWh)	—	—	—	—	—	—	—
Revenue (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh)	—	—	—	—	—	—	—
Revenue (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Sales (thousand kWh)	—	—	—	286,931	—	—	—
Revenue (dollars)	—	—	—	11,039,867	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	5,487,323	—	—	—
Energy	—	—	—	5,481,498	—	—	—
Other ²	—	—	—	71,046	—	—	—
Cooperative							
Sales (thousand kWh)	—	—	—	244,723	—	—	—
Revenue (dollars)	—	—	—	7,372,782	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	2,585,094	—	—	—
Energy	—	—	—	4,718,798	—	—	—
Other ²	—	—	—	68,890	—	—	—
Other³							
Sales (thousand kWh)	—	—	—	501,216	—	—	—
Revenue (dollars)	—	—	—	10,862,978	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	2,404,110	—	—	—
Energy	—	—	—	8,448,637	—	—	—
Other ²	—	—	—	10,231	—	—	—
Total							
Sales (thousand kWh)	1,577,873	2,382,152	—	3,656,761	117,994	—	586
Revenue (dollars)	30,332,830	24,333,922	—	138,819,531	6,744,613	—	75,375
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	478,136	—	18,899,454	—	—	—
Energy	—	23,801,447	—	103,542,670	6,744,613	—	67,787
Other ²	30,332,830	54,339	—	16,377,407	—	—	7,588

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Rhode Island Newport Electric Corp	Rhode Island Ocean State Power #2 ⁵	Rhode Island Ocean State Power Co ⁵	South Carolina Lockhart Power Co	South Carolina South Carolina Electric & Gas Co	South Carolina South Carolina Generating Co Inc ⁵	South Dakota Black Hills Corp
Investor-Owned							
Sales (thousand kWh)	—	—	1,933,490	—	196,119	4,037,199	176,850
Revenue (dollars)	—	—	97,108,785	—	5,101,504	95,343,567	2,006,863
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	74,221,834	—	256,500	—	—
Energy	—	—	18,956,711	—	4,845,004	95,343,567	2,006,863
Other ²	—	—	3,930,240	—	—	—	—
Federal							
Sales (thousand kWh)	—	—	—	—	—	—	—
Revenue (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh)	—	—	—	—	22,747	—	—
Revenue (dollars)	—	—	—	—	548,185	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	548,185	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Sales (thousand kWh)	—	—	—	137,586	887,322	—	181,766
Revenue (dollars)	—	—	—	6,446,052	34,396,010	—	8,188,628
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	4,111,857	18,269,596	—	4,261,440
Energy	—	—	—	2,484,465	16,566,604	—	4,025,900
Other ²	—	—	—	-150,270	-440,190	—	-98,712
Cooperative							
Sales (thousand kWh)	—	—	—	—	424,275	—	—
Revenue (dollars)	—	—	—	—	13,242,091	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	4,689,127	—	—
Energy	—	—	—	—	8,625,201	—	—
Other ²	—	—	—	—	-72,237	—	—
Other³							
Sales (thousand kWh)	—	—	—	—	387,764	—	72,250
Revenue (dollars)	—	—	—	—	9,883,866	—	977,860
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	9,883,866	—	977,860
Other ²	—	—	—	—	—	—	—
Total							
Sales (thousand kWh)	—	—	1,933,490	137,586	1,918,227	4,037,199	430,866
Revenue (dollars)	—	—	97,108,785	6,446,052	63,171,656	95,343,567	11,173,351
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	74,221,834	4,111,857	23,215,223	—	4,261,440
Energy	—	—	18,956,711	2,484,465	40,468,860	95,343,567	7,010,623
Other ²	—	—	3,930,240	-150,270	-512,427	—	-98,712

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	South Dakota Northwestern Public Service Co	Tennessee Kingsport Power Co ⁴	Tennessee Tapoco Inc ⁸	Texas Central Power & Light Co	Texas El Paso Electric Co	Texas Gulf States Utilities Co	Texas Houston Lighting & Power Co
Investor-Owned							
Sales (thousand kWh).....	31,318	—	—	323,895	721,851	3,320	321,394
Revenue (dollars).....	428,949	—	—	9,486,043	16,043,530	56,341	21,995,047
Demand Charge Only ¹	—	—	—	—	—	—	2,574,672
Demand.....	—	—	—	—	5,400,000	—	12,103,270
Energy.....	428,949	—	—	7,592,967	7,714,017	56,341	7,317,105
Other ²	—	—	—	1,893,076	2,929,513	—	—
Federal							
Sales (thousand kWh).....	2,980	—	—	—	—	—	—
Revenue (dollars).....	34,227	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	34,227	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh).....	5,557	—	—	14,771	684,319	296,668	66,409
Revenue (dollars).....	85,509	—	—	510,201	45,816,675	15,680,792	2,037,875
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	5,533	—	—	—	34,542,000	11,078,847	—
Energy.....	79,560	—	—	460,620	4,184,709	4,601,945	2,037,875
Other ²	416	—	—	49,581	7,089,966	—	—
Municipal							
Sales (thousand kWh).....	17,435	—	—	161,091	37,450	177,679	362,605
Revenue (dollars).....	448,140	—	—	6,502,373	342,344	7,924,525	9,195,704
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	232,100	—	—	1,473,442	—	3,436,141	—
Energy.....	209,973	—	—	3,415,229	342,315	4,488,384	9,195,704
Other ²	6,067	—	—	1,613,702	29	—	—
Cooperative							
Sales (thousand kWh).....	18,031	—	—	809,530	40,592	456,206	82,425
Revenue (dollars).....	224,535	—	—	36,721,455	1,797,937	18,893,328	1,621,042
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	23,795,958	—	7,580,553	—
Energy.....	224,535	—	—	12,792,510	1,323,232	11,312,775	1,621,042
Other ²	—	—	—	132,987	474,705	—	—
Other³							
Sales (thousand kWh).....	13	—	—	720,000	1,027,340	1,869,403	435,305
Revenue (dollars).....	89,773	—	—	18,944,305	43,116,131	54,400,578	9,986,498
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	330	—	—	2,324,437	27,690,472	936,594	—
Energy.....	140	—	—	16,164,098	3,659,023	52,491,790	9,986,498
Other ²	89,303	—	—	455,770	11,766,636	972,194	—
Total							
Sales (thousand kWh).....	75,334	—	—	2,029,287	2,511,552	2,803,276	1,268,138
Revenue (dollars).....	1,311,133	—	—	72,164,377	107,116,617	96,955,564	44,836,166
Demand Charge Only ¹	—	—	—	—	—	—	2,574,672
Demand.....	237,963	—	—	27,593,837	67,632,472	23,032,135	12,103,270
Energy.....	977,384	—	—	40,425,424	17,223,296	72,951,235	30,158,224
Other ²	95,786	—	—	4,145,116	22,260,849	972,194	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Texas Southwestern Electric Service Co	Texas Southwestern Public Service Co	Texas Texas Utilities Electric Co	Texas Texas- New Mexico Power Co	Texas West Texas Utilities Co	Vermont Central Vermont Public Service Corp	Vermont Citizens Utilities Co ⁴
Investor-Owned							
Sales (thousand kWh).....	4,630	881,231	2,284,263	—	145,463	795,092	—
Revenue (dollars).....	206,135	45,059,025	115,513,983	—	5,598,979	30,231,290	—
Demand Charge Only ¹	—	—	—	—	—	11,771	—
Demand.....	101,661	11,762,400	64,240,942	—	2,245,735	15,691,543	—
Energy.....	126,313	27,174,355	15,165,651	—	3,352,129	13,875,380	—
Other ²	-21,839	6,122,270	36,107,390	—	1,115	652,596	—
Federal							
Sales (thousand kWh).....	—	—	—	—	—	—	—
Revenue (dollars).....	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh).....	—	1,445	87,214	—	—	20,892	—
Revenue (dollars).....	—	24,911	2,414,127	—	—	528,126	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	—	—	—	—	—	—	—
Energy.....	—	24,911	2,414,127	—	—	513,059	—
Other ²	—	—	—	—	—	15,067	—
Municipal							
Sales (thousand kWh).....	—	525,484	628,453	—	100,037	203,833	—
Revenue (dollars).....	—	17,140,055	18,337,304	—	3,511,432	5,844,039	—
Demand Charge Only ¹	—	—	—	—	—	8,606	—
Demand.....	—	4,695,672	4,321,383	—	1,122,659	1,150,547	—
Energy.....	—	6,072,490	4,866,861	—	2,396,498	4,652,737	—
Other ²	—	6,371,893	9,149,060	—	-7,725	32,149	—
Cooperative							
Sales (thousand kWh).....	—	5,209,313	1,426,060	4,944	2,004,967	16,818	—
Revenue (dollars).....	—	189,959,710	81,067,095	267,908	74,337,875	424,975	—
Demand Charge Only ¹	—	45,200	—	—	—	—	—
Demand.....	—	80,900,428	49,978,453	122,132	25,617,575	87,929	—
Energy.....	—	11,471,947	6,162,661	121,917	48,720,300	337,046	—
Other ²	—	97,542,135	24,925,981	23,859	—	—	—
Other³							
Sales (thousand kWh).....	1,067	153,596	672,722	—	160,524	335,283	—
Revenue (dollars).....	47,947	5,361,091	17,604,232	15,004	5,472,981	17,075,574	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand.....	22,990	—	—	—	11,063	8,958,288	—
Energy.....	29,092	2,925,613	17,604,232	—	4,117,452	8,059,749	—
Other ²	-4,135	2,435,478	—	15,004	1,344,466	57,537	—
Total							
Sales (thousand kWh).....	5,697	6,771,069	5,098,712	4,944	2,410,991	1,371,918	—
Revenue (dollars).....	254,082	257,544,792	234,936,741	282,912	88,921,267	54,104,004	—
Demand Charge Only ¹	—	45,200	—	—	—	20,377	—
Demand.....	124,651	97,358,500	118,540,778	122,132	28,997,032	25,888,307	—
Energy.....	155,405	47,669,316	46,213,532	121,917	58,586,379	27,437,971	—
Other ²	-25,974	112,471,776	70,182,431	38,863	1,337,856	757,349	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Vermont Green Mountain Power Corp	Vermont Vermont Electric Power Co Inc	Vermont Vermont Electric Trans Co ⁶	Vermont Vermont Marble Co ⁸	Vermont Vermont Yankee Nuclear Power Corp ⁵	Virginia Appalachian Power Co	Virginia Virginia Electric Power Co
Investor-Owned							
Sales (thousand kWh)	477,388	499,228	—	—	3,798,790	4,984,709	4,243,434
Revenue (dollars)	13,925,921	16,545,334	—	—	181,715,081	145,346,053	94,129,696
Demand Charge Only ¹	—	—	—	—	—	96,700	—
Demand	4,603,570	7,909,789	—	—	—	41,921,814	2,815,931
Energy	9,322,351	8,627,680	—	—	—	88,754,289	91,313,765
Other ²	—	7,865	—	—	181,715,081	14,573,250	—
Federal							
Sales (thousand kWh)	—	—	—	—	—	185,529	5,582
Revenue (dollars)	—	—	—	—	—	5,349,792	124,138
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	4,725,084	124,138
Other ²	—	—	—	—	—	624,708	—
State and Other							
Government							
Sales (thousand kWh)	7,316	—	—	—	—	127,831	—
Revenue (dollars)	180,571	—	—	—	—	2,770,197	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	180,571	—	—	—	—	2,415,261	—
Other ²	—	—	—	—	—	354,936	—
Municipal							
Sales (thousand kWh)	34,049	314,636	—	—	—	2,164,749	1,260,685
Revenue (dollars)	1,985,011	13,503,355	—	—	—	71,504,611	49,569,896
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	824,779	9,936,561	—	—	—	33,411,329	28,898,825
Energy	1,150,369	2,853,767	—	—	—	36,617,601	24,542,895
Other ²	9,863	713,027	—	—	—	1,475,681	-3,871,824
Cooperative							
Sales (thousand kWh)	28,339	49,511	—	—	—	846,086	3,226,855
Revenue (dollars)	1,021,310	1,980,441	—	—	—	23,281,247	143,052,779
Demand Charge Only ¹	2,460	—	—	—	—	—	—
Demand	202,460	1,464,483	—	—	—	8,739,938	86,270,437
Energy	815,562	399,081	—	—	—	12,982,957	66,243,997
Other ²	828	116,877	—	—	—	1,558,352	-9,461,655
Other³							
Sales (thousand kWh)	154,743	—	—	—	—	8,163,745	2,283,564
Revenue (dollars)	3,553,765	—	—	—	—	84,547,612	56,163,177
Demand Charge Only ¹	—	—	—	—	—	—	60,000
Demand	103,410	—	—	—	—	3,446,532	1,425,570
Energy	3,450,355	—	—	—	—	64,516,746	54,677,607
Other ²	—	—	—	—	—	16,584,334	—
Total							
Sales (thousand kWh)	701,835	863,375	—	—	3,798,790	16,472,649	11,020,120
Revenue (dollars)	20,666,578	32,029,130	—	—	181,715,081	332,799,512	343,039,686
Demand Charge Only ¹	2,460	—	—	—	—	96,700	60,000
Demand	5,734,219	19,310,833	—	—	—	87,519,613	119,410,763
Energy	14,919,208	11,880,528	—	—	—	210,011,938	236,902,402
Other ²	10,691	837,769	—	—	181,715,081	35,171,261	-13,333,479

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Washington	Washington	West Virginia	West Virginia	West Virginia	West Virginia	Wisconsin
	Puget Sound Power & Light Co	Washington Water Power Co	Kanawha Valley Power Co ⁵	Monongahela Power Co	UtiliCorp United Inc ⁴	Wheeling Power Co ⁴	Consolidated Water Power Co
Investor-Owned							
Sales (thousand kWh)	2,439,569	3,286,354	—	2,532,666	—	—	439
Revenue (dollars)	33,272,104	92,899,775	—	108,059,092	—	—	2,904
Demand Charge Only ¹	—	19,404,000	—	—	—	—	—
Demand	—	9,104,217	—	4,942,255	—	—	—
Energy	33,272,104	64,379,401	—	60,982,725	—	—	2,904
Other ²	—	12,157	—	42,134,112	—	—	—
Federal							
Sales (thousand kWh)	365,830	6,100	—	—	—	—	—
Revenue (dollars)	10,378,608	95,238	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	200,000	—	—	—	—	—	—
Energy	10,178,608	95,238	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh)	301,039	2,133,341	—	—	—	—	—
Revenue (dollars)	3,958,763	51,592,921	—	—	—	—	—
Demand Charge Only ¹	—	318,250	—	—	—	—	—
Demand	4,037	7,966,000	—	—	—	—	—
Energy	3,954,726	43,150,618	—	—	—	—	—
Other ²	—	158,053	—	—	—	—	—
Municipal							
Sales (thousand kWh)	379,942	263,161	—	72,404	—	—	—
Revenue (dollars)	4,543,411	5,204,026	—	2,946,501	—	—	—
Demand Charge Only ¹	—	180,000	—	—	—	—	—
Demand	71,590	457,500	—	1,418,524	—	—	—
Energy	4,462,997	4,566,526	—	1,741,673	—	—	—
Other ²	8,824	—	—	-213,696	—	—	—
Cooperative							
Sales (thousand kWh)	—	6,024	—	53,196	—	—	—
Revenue (dollars)	—	83,412	—	2,264,908	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	1,185,812	—	—	—
Energy	—	83,412	—	1,326,340	—	—	—
Other ²	—	—	—	-247,244	—	—	—
Other³							
Sales (thousand kWh)	1,202,171	5,479,679	—	221,046	—	—	—
Revenue (dollars)	20,694,611	80,687,801	—	4,790,281	—	—	—
Demand Charge Only ¹	—	263,900	—	—	—	—	—
Demand	1,272,640	854,900	—	969,977	—	—	—
Energy	19,275,094	79,553,095	—	3,820,304	—	—	—
Other ²	146,877	15,906	—	—	—	—	—
Total							
Sales (thousand kWh)	4,688,551	11,174,659	—	2,879,312	—	—	439
Revenue (dollars)	72,847,497	230,563,173	—	118,060,782	—	—	2,904
Demand Charge Only ¹	—	20,166,150	—	—	—	—	—
Demand	1,548,267	18,382,617	—	8,516,568	—	—	—
Energy	71,143,529	191,828,290	—	67,871,042	—	—	2,904
Other ²	155,701	186,116	—	41,673,172	—	—	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1996 (Continued)

Purchaser of Electricity by Ownership Class	Wisconsin Electric Power Co	Wisconsin Power & Light Co	Wisconsin Public Service Corp	Wisconsin River Power Co ⁵	Wyoming Cheyenne Light Fuel & Power Co ⁴
Investor-Owned					
Sales (thousand kWh)	897,556	1,833,248	608,451	226,023	—
Revenue (dollars)	23,176,207	34,915,073	14,909,350	5,111,906	—
Demand Charge Only ¹	—	—	30,000	—	—
Demand	5,916,720	1,214,960	5,596,441	—	—
Energy	17,271,125	32,409,974	12,016,594	5,111,906	—
Other ²	-11,638	1,290,139	-2,733,685	—	—
Federal					
Sales (thousand kWh)	—	—	—	—	—
Revenue (dollars)	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—
Demand	—	—	—	—	—
Energy	—	—	—	—	—
Other ²	—	—	—	—	—
State and Other					
Government					
Sales (thousand kWh)	—	—	—	—	—
Revenue (dollars)	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—
Demand	—	—	—	—	—
Energy	—	—	—	—	—
Other ²	—	—	—	—	—
Municipal					
Sales (thousand kWh)	1,348,669	2,298,731	1,240,463	—	—
Revenue (dollars)	42,423,202	70,377,832	32,910,554	—	—
Demand Charge Only ¹	—	—	—	—	—
Demand	15,240,440	28,220,093	13,282,569	—	—
Energy	28,109,867	48,216,910	26,803,519	—	—
Other ²	-927,105	-6,059,171	-7,175,534	—	—
Cooperative					
Sales (thousand kWh)	26,191	575,673	36,543	—	—
Revenue (dollars)	887,034	18,013,716	897,952	—	—
Demand Charge Only ¹	—	—	—	—	—
Demand	333,835	7,894,453	263,337	—	—
Energy	533,528	12,385,023	727,807	—	—
Other ²	19,671	-2,265,760	-93,192	—	—
Other³					
Sales (thousand kWh)	120,995	3,567,722	16,651	—	—
Revenue (dollars)	3,074,265	14,602,063	294,328	—	—
Demand Charge Only ¹	—	—	—	—	—
Demand	172,800	10,083	14,437	—	—
Energy	2,696,465	14,787,355	279,891	—	—
Other ²	205,000	-195,375	—	—	—
Total					
Sales (thousand kWh)	2,393,411	8,275,374	1,902,108	226,023	—
Revenue (dollars)	69,560,708	137,908,684	49,012,184	5,111,906	—
Demand Charge Only ¹	—	—	30,000	—	—
Demand	21,663,795	37,339,589	19,156,784	—	—
Energy	48,610,985	107,799,262	39,827,811	5,111,906	—
Other ²	-714,072	-7,230,167	-10,002,411	—	—

¹ Monetary settlements from contracts where electricity is not taken.

² Includes other transactions involving line and substation rentals, system support charges, and special contract transactions.

³ Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

⁴ FERC Form 1 respondent with purchased power transactions, but no sales for resale transactions.

⁵ FERC Form 1 respondent with sales for resale transactions, but no purchased power transactions.

⁶ FERC Form 1 respondent with only wheeling.

⁷ FERC Form 1 respondent with only exchanges.

⁸ FERC Form 1 respondent with no purchased power, sales for resale, exchanges, or wheeling.

—Not Applicable

Notes: •For identification purposes, the utilities are listed in the State in which the corporate office is located. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

Table 21. Electricity Exchanges by Investor-Owned Utilities, by State, 1996

State / Utility	Investor-Owned			Federal			State and Other Government
	Received (thousand kWh)	Delivered (thousand kWh)	Settlement (dollars)	Received (thousand kWh)	Delivered (thousand kWh)	Settlement (dollars)	Received (thousand kWh)
Alabama							
Alabama Power Co	—	—	—	1,641	53	—	—
Arizona							
Arizona Public Service Co	—	—	—	—	250	—	12,687
Tucson Electric Power Co	138,607	122,874	1,260,000	—	—	—	—
Arkansas							
Entergy Arkansas Inc	—	—	—	—	—	—	—
California							
Pacific Gas & Electric Co	412,240	418,178	-68,060	1,373,305	1,995,540	15,396,145	204,860
San Diego Gas & Electric Co	22,333	20,514	—	306,604	233,869	2,356,915	3,080
Southern California Edison Co	49,705	158,553	—	106,535	116,707	—	—
Colorado							
Public Service Co of Colorado	—	—	—	-101,099	13,665	—	366
Connecticut							
Citizens Utilities Co	92,199	33,849	977,123	—	—	—	—
United Illuminating Co	329,370	—	10,705,840	—	—	—	—
Florida							
Florida Power & Light Co	—	—	—	—	—	—	—
Georgia							
Georgia Power Co	—	—	—	—	—	—	—
Savannah Electric & Power Co	—	—	—	—	—	—	—
Hawaii							
Maui Electric Co Ltd	—	—	—	—	—	—	—
Idaho							
Idaho Power Co	138,125	122,991	—	434,858	471,581	—	6,870
Illinois							
Central Illinois Light Co	113	13	2,187	—	—	—	—
Central Illinois Pub Serv Co	113	113	84	—	—	—	—
Commonwealth Edison Co	60,000	—	—	—	—	—	—
Indiana							
Alcoa Generating Corp	9,949	12,301	—	—	—	—	—
Indianapolis Power & Light Co	648	226	—	—	—	—	—
PSI Energy Inc	660	—	—	—	—	—	—
Kansas							
Western Resources Inc	2,587	—	19,399	—	—	—	—
Kentucky							
Kentucky Utilities Co	—	100	—	—	—	—	—
Maine							
Maine Public Service Co	—	—	—	—	—	—	—
Maryland							
Potomac Edison Co	340,400	327,413	275,019	—	—	—	—
Massachusetts							
New England Power Co	213,209	154,421	—	—	—	—	—
Michigan							
Detroit Edison Co	—	39,489	—	—	—	—	—
Upper Peninsula Power Co	—	—	—	—	—	—	—
Minnesota							
Northern States Power Co	—	—	—	31,848	—	—	23,351
Missouri							
Empire District Electric Co	—	—	—	1,280	1,860	—	—
Kansas City Power & Light Co	—	—	—	—	—	—	—
UtiliCorp United Inc	40,000	54,969	11,514	—	1,456	—	—
Montana							
Montana Power Co	660,849	678,144	9,157	1,239,078	1,629,889	-1,989,002	—
New Mexico							
Public Service Co of NM	67,463	78,678	—	7,154	6,203	—	8,828
New York							
Central Hudson Gas & Elec Corp	—	—	—	—	—	—	—
Consolidated Edison Co-NY Inc	—	—	—	—	—	—	210,244
New York State Elec & Gas Corp	—	—	—	—	—	—	157,496
North Carolina							
Duke Power Co	8,411	3,007	—	558	1,614	—	—
North Dakota							
MDU Resources Group Inc	—	—	—	40,207	33,590	102,695	—
Ohio							
Cincinnati Gas & Electric Co	—	—	—	—	—	—	—
Cleveland Electric Illum Co	9,340	16,548	-129,744	—	—	—	—
Dayton Power & Light Co	55	1,208	-29,238	—	—	—	—
Ohio Edison Co	29,632	—	—	—	—	—	—
Ohio Power Co	48,859	1,617	—	—	—	—	—
Toledo Edison Co	1,413	4,244	7,429	—	—	—	—

See notes and footnotes at end of table.

Table 21. Electricity Exchanges by Investor-Owned Utilities, by State, 1996 (Continued)

State / Utility	State and Other Government		Municipal			Cooperative	
	Delivered (thousand kWh)	Settlement (dollars)	Received (thousand kWh)	Delivered (thousand kWh)	Settlement (dollars)	Received (thousand kWh)	Delivered (thousand kWh)
Alabama							
Alabama Power Co	—	—	—	—	—	—	—
Arizona							
Arizona Public Service Co	23,204	—	—	—	—	—	—
Tucson Electric Power Co	—	—	—	—	—	—	—
Arkansas							
Entergy Arkansas Inc	—	—	—	—	—	—	—
California							
Pacific Gas & Electric Co	—	7,556,226	65,204	69,147	-81,584	—	—
San Diego Gas & Electric Co	3,374	—	—	—	—	—	—
Southern California Edison Co	—	—	125,661	208,385	—	—	—
Colorado							
Public Service Co of Colorado	5,798	—	—	—	—	—	—
Connecticut							
Citizens Utilities Co	—	—	—	—	—	—	—
United Illuminating Co	—	—	—	—	—	—	—
Florida							
Florida Power & Light Co	—	—	—	—	—	4,455	758
Georgia							
Georgia Power Co	—	—	—	—	—	—	—
Savannah Electric & Power Co	—	—	—	—	—	—	—
Hawaii							
Maui Electric Co Ltd	—	—	—	—	—	—	—
Idaho							
Idaho Power Co	8,115	—	126,000	126,000	—	—	—
Illinois							
Central Illinois Light Co	—	—	20	—	440	—	—
Central Illinois Pub Serv Co	—	—	20	125	-2,368	17,565	27,433
Commonwealth Edison Co	—	—	—	—	—	—	—
Indiana							
Alcoa Generating Corp	—	—	—	—	—	—	—
Indianapolis Power & Light Co	—	—	—	—	—	1	—
PSI Energy Inc	—	—	—	—	—	3,033	9,174
Kansas							
Western Resources Inc	—	—	—	—	—	—	—
Kentucky							
Kentucky Utilities Co	—	—	—	—	—	—	—
Maine							
Maine Public Service Co	—	—	—	—	—	—	—
Maryland							
Potomac Edison Co	—	—	—	—	—	—	—
Massachusetts							
New England Power Co	—	—	—	—	—	—	—
Michigan							
Detroit Edison Co	—	—	—	—	—	—	—
Upper Peninsula Power Co	—	—	1,480	34,290	-634,056	—	—
Minnesota							
Northern States Power Co	78	—	—	—	—	11,047	32,913
Missouri							
Empire District Electric Co	—	—	—	—	—	—	—
Kansas City Power & Light Co	—	—	—	—	—	—	2,228
UtiliCorp United Inc	—	—	—	2,328	—	49,114	49,249
Montana							
Montana Power Co	—	—	—	—	—	—	—
New Mexico							
Public Service Co of NM	11,731	—	10,702	15,224	—	16,038	11,923
New York							
Central Hudson Gas & Elec Corp	—	—	—	—	—	—	—
Consolidated Edison Co-NY Inc	314,349	5,841,876	—	—	—	—	—
New York State Elec & Gas Corp	235,425	2,727,845	—	—	—	—	—
North Carolina							
Duke Power Co	—	—	2,879,972	2,578,714	2,853,568	3,432,913	2,906,592
North Dakota							
MDU Resources Group Inc	—	—	—	—	—	—	—
Ohio							
Cincinnati Gas & Electric Co	—	—	35,149	37,052	—	124,500	151,363
Cleveland Electric Illum Co	—	—	—	—	—	—	—
Dayton Power & Light Co	—	—	—	—	—	—	—
Ohio Edison Co	—	—	—	—	—	—	—
Ohio Power Co	—	—	22,853	21,642	—	—	—
Toledo Edison Co	—	—	—	—	—	—	—

See notes and footnotes at end of table.

Table 21. Electricity Exchanges by Investor-Owned Utilities, by State, 1996 (Continued)

State / Utility	Cooperative	Other ¹			Total		
	Settlement (dollars)	Received (thousand kWh)	Delivered (thousand kWh)	Settlement (dollars)	Received (thousand kWh)	Delivered (thousand kWh)	Settlement (dollars)
Alabama							
Alabama Power Co	—	—	—	—	1,641	53	—
Arizona							
Arizona Public Service Co.....	—	—	—	—	12,687	23,454	—
Tucson Electric Power Co.....	—	—	—	—	138,607	122,874	1,260,000
Arkansas							
Entergy Arkansas Inc.....	—	216,830	204,530	—	—	—	—
California							
Pacific Gas & Electric Co.....	—	393,740	151,125	6,410,845	2,449,349	2,633,990	29,213,572
San Diego Gas & Electric Co.....	—	—	—	—	332,017	257,757	2,356,915
Southern California Edison Co.....	—	—	—	—	281,901	483,645	—
Colorado							
Public Service Co of Colorado.....	—	—	—	—	-100,733	19,463	—
Connecticut							
Citizens Utilities Co.....	—	—	—	—	92,199	33,849	977,123
United Illuminating Co.....	—	21,295	—	1,017,392	350,665	—	11,723,232
Florida							
Florida Power & Light Co.....	—	—	—	—	4,455	758	—
Georgia							
Georgia Power Co.....	—	296,597	1,267,685	—	296,597	1,267,685	—
Savannah Electric & Power Co.....	—	522,837	522,580	—	522,837	522,580	—
Hawaii							
Maui Electric Co Ltd.....	—	4,111	6,648	-133,042	4,111	6,648	-133,042
Idaho							
Idaho Power Co.....	—	—	—	—	705,853	728,687	—
Illinois							
Central Illinois Light Co.....	—	—	—	—	133	13	2,627
Central Illinois Pub Serv Co.....	-221,415	—	—	—	17,698	27,671	-223,699
Commonwealth Edison Co.....	—	—	—	—	60,000	—	—
Indiana							
Alcoa Generating Corp.....	—	—	—	—	9,949	12,301	—
Indianapolis Power & Light Co.....	—	36	—	—	649	226	—
PSI Energy Inc.....	-24,192	—	—	—	3,693	9,174	-24,192
Kansas							
Western Resources Inc.....	—	—	—	—	2,587	—	19,399
Kentucky							
Kentucky Utilities Co.....	—	—	38,550	—	—	100	—
Maine							
Maine Public Service Co.....	—	741	—	—	741	—	—
Maryland							
Potomac Edison Co.....	—	—	—	—	340,400	327,413	275,019
Massachusetts							
New England Power Co.....	—	—	—	—	213,209	154,421	—
Michigan							
Detroit Edison Co.....	—	—	—	—	—	39,489	—
Upper Peninsula Power Co.....	—	—	1,730	—	1,480	34,290	-634,056
Minnesota							
Northern States Power Co.....	—	143,228	5,812	—	209,474	38,803	—
Missouri							
Empire District Electric Co.....	—	—	—	—	1,280	1,860	—
Kansas City Power & Light Co.....	-28,964	—	—	—	—	2,228	-28,964
UtiliCorp United Inc.....	9,633	859,506	854,200	300	89,188	108,070	21,447
Montana							
Montana Power Co.....	—	3	27	—	1,899,927	2,308,033	-1,979,845
New Mexico							
Public Service Co of NM.....	—	-13,775	-24,216	—	112,202	126,138	—
New York							
Central Hudson Gas & Elec Corp.....	—	34,027	16,709	—	—	—	—
Consolidated Edison Co-NY Inc.....	—	—	—	—	210,244	314,349	5,841,876
New York State Elec & Gas Corp.....	—	—	—	—	157,496	235,425	2,727,845
North Carolina							
Duke Power Co.....	3,815,686	772,837	686,651	—	7,020,834	6,099,077	6,669,254
North Dakota							
MDU Resources Group Inc.....	—	—	—	—	40,207	33,590	102,695
Ohio							
Cincinnati Gas & Electric Co.....	—	16,981	1,185	—	176,630	189,600	—
Cleveland Electric Illum Co.....	—	—	—	—	9,340	16,548	-129,744
Dayton Power & Light Co.....	—	—	—	—	55	1,208	-29,238
Ohio Edison Co.....	—	—	—	—	29,632	—	—
Ohio Power Co.....	—	—	—	—	71,712	23,259	—
Toledo Edison Co.....	—	—	—	—	1,413	4,244	7,429

See notes and footnotes at end of table.

Table 21. Electricity Exchanges by Investor-Owned Utilities, by State, 1996 (Continued)

State / Utility	Investor-Owned			Federal			State and Other Government
	Received (thousand kWh)	Delivered (thousand kWh)	Settlement (dollars)	Received (thousand kWh)	Delivered (thousand kWh)	Settlement (dollars)	Received (thousand kWh)
Oklahoma							
Public Service Co of Oklahoma.....	30,335	30,335	—	112,134	114,503	—	646,134
Oregon							
PacifiCorp.....	649,862	509,258	124,801	12,666,633	12,508,408	-32,080,684	315,271
Portland General Electric Co.....	419,480	495,471	-1,125	313,452	301,826	217,008	54,492
Pennsylvania							
Duquesne Light Co.....	92,289	101,378	—	—	—	—	—
West Penn Power Co.....	143,019	136,599	132,192	—	—	—	—
South Dakota							
Black Hills Corp.....	9,286	25,987	-120,348	10,586	10,935	—	—
Texas							
Central Power & Light Co.....	2,375	9,751	—	—	—	—	22,288
El Paso Electric Co.....	17,954	29,017	—	—	—	—	2,808
Houston Lighting & Power Co.....	4,688,103	9,773,279	—	—	—	—	1,182,602
Texas Utilities Electric Co.....	12,824,841	6,724,285	83,340	—	—	—	305,877
West Texas Utilities Co.....	2,375	9,751	—	—	—	—	—
Virginia							
Virginia Electric & Power Co.....	24,888	24,195	—	21,266	15,118	—	243,864
Washington							
Puget Sound Power & Light Co.....	519,509	523,183	-34,355	81,859	20,977	799,287	390,597
Washington Water Power Co.....	671,008	625,138	11,705	158,914	158,612	27,594	73,831
West Virginia							
Monongahela Power Co.....	77,600	75,168	-6,473	—	—	—	—
Wisconsin							
Consolidated Water Power Co.....	294	—	—	—	—	—	—
Wisconsin Electric Power Co.....	800	800	—	—	—	—	—
Wisconsin Power & Light Co.....	—	353	—	—	—	—	—
Wisconsin Public Service Corp.....	4,407	4,058	6,980	—	—	—	—

See notes and footnotes at end of table.

Table 21. Electricity Exchanges by Investor-Owned Utilities, by State, 1996 (Continued)

State / Utility	State and Other Government		Municipal			Cooperative	
	Delivered (thousand kWh)	Settlement (dollars)	Received (thousand kWh)	Delivered (thousand kWh)	Settlement (dollars)	Received (thousand kWh)	Delivered (thousand kWh)
Oklahoma							
Public Service Co of Oklahoma.....	645,065	—	—	—	—	—	—
Oregon							
PacifiCorp.....	355,758	-226,385	11,757	9,858	66,428	117,507	67,258
Portland General Electric Co.....	92,082	1,992	30,018	34,467	—	—	—
Pennsylvania							
Duquesne Light Co.....	—	—	—	—	—	—	—
West Penn Power Co.....	—	—	—	—	—	—	—
South Dakota							
Black Hills Corp.....	—	—	—	—	—	—	—
Texas							
Central Power & Light Co.....	25,605	—	—	—	—	77,210	81,411
El Paso Electric Co.....	12,492	—	—	—	—	—	—
Houston Lighting & Power Co.....	408,067	—	3,183	9,425	—	—	145,366
Texas Utilities Electric Co.....	1,851,185	—	—	—	—	—	—
West Texas Utilities Co.....	—	—	—	—	—	—	—
Virginia							
Virginia Electric & Power Co.....	249,484	—	—	—	—	—	—
Washington							
Puget Sound Power & Light Co.....	388,100	-403,832	135,216	135,216	-371,547	—	—
Washington Water Power Co.....	74,049	-1,570	1,584	—	20,434	—	—
West Virginia							
Monongahela Power Co.....	—	—	—	—	—	—	—
Wisconsin							
Consolidated Water Power Co.....	—	—	—	—	—	—	—
Wisconsin Electric Power Co.....	—	—	—	—	—	—	—
Wisconsin Power & Light Co.....	—	—	—	—	—	—	—
Wisconsin Public Service Corp.....	—	—	—	—	—	—	—

See notes and footnotes at end of table.

Table 21. Electricity Exchanges by Investor-Owned Utilities, by State, 1996 (Continued)

State / Utility	Cooperative	Other ¹			Total		
	Settlement (dollars)	Received (thousand kWh)	Delivered (thousand kWh)	Settlement (dollars)	Received (thousand kWh)	Delivered (thousand kWh)	Settlement (dollars)
Oklahoma							
Public Service Co of Oklahoma.....	—	—	—	—	788,603	789,903	—
Oregon							
PacifiCorp.....	265,639	90,733	224,239	-33,368	13,851,763	13,674,779	-31,883,569
Portland General Electric Co.....	—	—	751	—	817,442	923,846	217,875
Pennsylvania							
Duquesne Light Co.....	—	21,945	21,604	—	110,582	120,273	—
West Penn Power Co.....	—	—	—	—	143,019	136,599	132,192
South Dakota							
Black Hills Corp.....	—	—	—	—	19,872	36,922	-120,348
Texas							
Central Power & Light Co.....	62,320	—	—	—	101,873	116,767	62,320
El Paso Electric Co.....	—	—	—	—	20,762	41,509	—
Houston Lighting & Power Co.....	—	5,626,887	1,163,152	—	11,500,775	11,499,289	—
Texas Utilities Electric Co.....	—	8,824,988	13,378,134	—	21,955,706	21,953,604	83,340
West Texas Utilities Co.....	—	—	—	—	2,375	9,751	—
Virginia							
Virginia Electric & Power Co.....	—	226,200	234,900	-1,027,064	516,218	523,697	-1,027,064
Washington							
Puget Sound Power & Light Co.....	—	—	—	—	1,127,181	1,067,476	-10,447
Washington Water Power Co.....	—	213,731	207,795	—	1,116,132	1,065,594	58,163
West Virginia							
Monongahela Power Co.....	—	—	—	—	77,600	75,168	-6,473
Wisconsin							
Consolidated Water Power Co.....	—	—	—	—	294	—	—
Wisconsin Electric Power Co.....	—	—	—	—	800	800	—
Wisconsin Power & Light Co.....	—	33,973	71,200	—	33,973	71,553	—
Wisconsin Public Service Corp.....	—	—	—	—	4,407	4,058	6,980

¹ Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •The terms of settlement may include transferring and/or exchanging quantities of electricity with no dollar value assigned. •For identification purposes, the utilities are listed in the State in which the corporate office is located. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

Table 22. Electricity Purchases by Investor-Owned Utilities Not Reported to the Federal Energy Regulatory Commission, by State, 1996

State / Utility	Purchases (Thousand Kilowatthours)						Total
	Investor-Owned	Federal	State and Other Government	Municipal	Cooperative	Other ¹	
Alaska							
Haines Light & Power Co Inc	—	—	—	312	—	312	624
Napakiak Ircinaq Power Co	634	—	—	—	—	—	634
Arizona							
Ajo Improvement Co	—	—	—	—	—	9,360	9,360
Morenci Water & Electric Co	—	—	—	—	28,136	—	28,136
Hawaii							
Hawaii Electric Light Co Inc	—	—	—	—	—	371,657	371,657
Montana							
Champion International Corp	2,288	—	—	—	—	—	2,288
Rhode Island							
Block Island Power Co	—	—	—	—	—	10	10
Utah							
Panaca Power & Light Co	—	—	6,218	—	—	—	6,218
Washington							
Modern Electric Water Company	216,474	—	—	—	—	—	216,474
Wisconsin							
Westfield Milling & El Lgt Co	10,384	—	—	—	—	—	10,384

¹ Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •For identification purposes, the utilities are listed in the State in which the corporate office is located. •Totals may not equal sum of components because of independent rounding.

Source: •Energy Information Administration Form EIA-861, "Annual Electric Utility Report," and McGraw-Hill's "Electrical World Directory of Electric Utilities," with verification done by the Survey Management Division.

Table 23. Electricity Wheeling by Investor-Owned Utilities, by State, 1996

State / Utility	Investor-Owned		Federal		State and Other Government		Municipal
	Wheeled Energy (thousand kWh) ²	Revenue (dollars)	Wheeled Energy (thousand kWh) ²	Revenue (dollars)	Wheeled Energy (thousand kWh) ²	Revenue (dollars)	Wheeled Energy (thousand kWh) ²
Alabama							
Alabama Power Co	156,330	1,055,073	527,407	6,069,066	—	—	253,372
Arizona							
Arizona Public Service Co.....	999,503	4,006,888	31,289	259,512	564,138	3,591,974	17,177
Tucson Electric Power Co	820,168	1,489,393	—	—	220,877	216,026	—
Arkansas							
Entergy Arkansas Inc	115,713	966,858	524	1,903	—	—	—
California							
Pacific Gas & Electric Co	82,776	143,187	3,679,252	15,931,421	15,975,471	19,372,164	2,481,263
San Diego Gas & Electric Co	359,485	1,542,350	—	93,800	380	152,280	—
Southern California Edison Co.....	1,816,122	9,469,381	1,009,979	4,430,829	4,766,907	5,539,717	7,911,508
Colorado							
Public Service Co of Colorado.....	—	2,184,401	327,130	3,262,434	38,758	288,702	—
Connecticut							
Citizens Utilities Co.....	104,489	809,500	—	—	—	—	47,187
Connecticut Light & Power Co.....	1,377,348	11,229,827	—	—	144,439	408,875	1,132,958
United Illuminating Co	—	—	—	—	—	—	—
Delaware							
Delmarva Power & Light Co.....	2,308,503	330,709	—	—	—	—	—
Florida							
Florida Power & Light Co.....	9,451	51,741	—	—	313,557	1,091,286	2,672,442
Florida Power Corp.....	24,393	371,037	190,971	756,190	—	—	440,672
Gulf Power Co	54,040	127,464	55,655	250,915	6,481	1,722	16,949
Tampa Electric Co	—	—	—	—	—	—	—
Georgia							
Georgia Power Co.....	—	—	1,704,416	468,607	—	—	—
Savannah Electric & Power Co.....	—	—	—	—	—	—	—
Hawaii							
Maui Electric Co Ltd	—	—	—	—	—	—	—
Idaho							
Idaho Power Co.....	1,720,246	3,517,645	2,093,977	7,144,555	96	240	137,466
Illinois							
Central Illinois Light Co.....	—	—	—	—	—	—	—
Central Illinois Pub Serv Co.....	2,480	3,604	—	—	—	—	327,126
Commonwealth Edison Co	186,845	381,302	—	—	—	—	273,445
Illinois Power Co	61,574	76,908	—	—	—	—	603,731
Mt Carmel Public Utility Co	—	—	—	—	—	—	—
Indiana							
Alcoa Generating Corp	—	—	—	—	—	—	—
Commonwealth Edison Co IN Inc	—	294,112	—	—	—	—	—
Indiana Michigan Power Co.....	1,714,605	7,012,195	—	—	91,185	313,059	306,506
Northern Indiana Pub Serv Co	77,580	150,566	—	—	81,271	32,673	—
PSI Energy Inc	2,737,205	5,704,478	—	—	409,791	247,309	—
Southern Indiana Gas & Elec Co.....	—	—	—	—	—	—	1,044
Iowa							
Interstate Power Co.....	26,154	77,070	334,004	—	197,616	365,886	346,305
IES Utilities Inc.....	15,655	51,610	—	—	—	—	96,691
MidAmerican Energy Co.....	1,257,130	1,335,144	542,831	803,981	—	—	825,180
Kansas							
Kansas Gas & Electric Co.....	231,095	2,130,349	—	—	384,836	476,791	258,581
Western Resources Inc.....	25,291	39,620	—	—	384,836	476,791	344,989
Kentucky							
Kentucky Power Co	636,313	2,570,291	—	—	33,064	113,529	106,375
Kentucky Utilities Co.....	280	700	275,828	497,287	—	—	—
Louisville Gas & Electric Co	14,528	21,826	—	—	—	—	—
Louisiana							
Central Louisiana Elec Co Inc.....	—	110,293	—	—	800,957	1,660,622	1,325,980
Southwestern Electric Power Co	29,456	48,187	—	—	928	1,777	10,854
Maine							
Bangor Hydro-Electric Co	—	—	—	—	—	—	—
Central Maine Power Co	3,219,954	1,735,248	—	—	—	—	—
Maine Electric Power Co Inc	2,894,805	2,731,228	—	—	—	—	1,747
Maine Public Service Co.....	172,424	1,517,228	—	—	—	—	104,981
Maryland							
Baltimore Gas & Electric Co.....	—	140,719	—	—	—	—	—
Potomac Edison Co.....	2,781,932	7,392,296	—	—	—	—	117,782
Massachusetts							
Boston Edison Co.....	3,020,164	5,199,020	—	—	118,226	338,758	775,332
Cambridge Electric Light Co.....	—	—	—	—	—	—	14,611

See notes and footnotes at end of table.

Table 23. Electricity Wheeling by Investor-Owned Utilities, by State, 1996 (Continued)

State / Utility	Municipal	Cooperative		Other ¹		Total	
	Revenue (dollars)	Wheeled Energy (thousand kWh) ²	Revenue (dollars)	Wheeled Energy (thousand kWh) ²	Revenue (dollars)	Wheeled Energy (thousand kWh) ²	Revenue (dollars)
Alabama							
Alabama Power Co.....	342,983	2,107,438	9,507,178	412,809	1,118,764	3,457,356	18,093,064
Arizona							
Arizona Public Service Co.....	145,332	47,802	1,231,146	401,824	997,046	2,061,733	10,231,898
Tucson Electric Power Co.....	—	721,451	926,175	27,353	111,501	1,789,849	2,743,095
Arkansas							
Entergy Arkansas Inc.....	356,391	30,064	430,344	115,807	15,293,608	262,108	17,049,104
California							
Pacific Gas & Electric Co.....	14,482,659	—	—	1,017,612	2,645,882	23,236,374	52,575,313
San Diego Gas & Electric Co.....	3,512	—	—	—	—	359,865	1,791,942
Southern California Edison Co.....	19,960,129	39,958	201,125	294,179	1,289,516	15,838,653	40,890,697
Colorado							
Public Service Co of Colorado.....	7,698	1,352,173	1,811,121	—	241,602	1,718,061	7,795,958
Connecticut							
Citizens Utilities Co.....	372,394	1,665	22,046	91,033	257,870	244,374	1,461,810
Connecticut Light & Power Co.....	4,305,983	—	—	2,121,124	5,870,288	4,775,869	21,814,973
United Illuminating Co.....	—	—	—	39,888	449,950	39,888	449,950
Delaware							
Delmarva Power & Light Co.....	—	1,076,778	3,551,400	210,704	983,745	3,595,985	4,865,854
Florida							
Florida Power & Light Co.....	7,743,673	3,404,049	8,958,450	228,141	703,598	6,627,640	18,548,748
Florida Power Corp.....	4,613,073	16,373	9,293,090	56,682	2,327,308	729,091	17,360,698
Gulf Power Co.....	107,645	316,644	1,261,041	83,574	380,392	533,343	2,129,179
Tampa Electric Co.....	—	—	—	1,213,239	3,272,235	1,213,239	3,272,235
Georgia							
Georgia Power Co.....	—	—	—	—	—	1,704,416	468,607
Savannah Electric & Power Co.....	—	—	—	30,329	112,020	30,329	112,020
Hawaii							
Maui Electric Co Ltd.....	—	—	—	—	—	—	—
Idaho							
Idaho Power Co.....	1,116,685	—	—	8,147	15,451	3,959,932	11,794,576
Illinois							
Central Illinois Light Co.....	—	23,419	68,988	127,400	1,136,001	150,819	1,204,989
Central Illinois Pub Serv Co.....	5,201,129	1,225,910	10,094,557	4,200	6,420	1,559,716	15,305,710
Commonwealth Edison Co.....	1,627,331	—	—	965,578	1,525,499	1,425,868	3,534,132
Illinois Power Co.....	2,664,202	—	—	262,679	972,479	927,984	3,713,589
Mt Carmel Public Utility Co.....	—	—	—	—	—	—	—
Indiana							
Alcoa Generating Corp.....	—	—	—	—	—	—	—
Commonwealth Edison Co IN Inc.....	—	—	—	—	—	—	294,112
Indiana Michigan Power Co.....	1,070,270	174,101	1,597,017	600,258	2,039,570	2,886,655	12,032,111
Northern Indiana Pub Serv Co.....	—	1,053,287	433,531	74,138	181,575	1,286,276	798,345
PSI Energy Inc.....	—	3,226,761	4,638,047	241,221	409,701	6,614,978	10,999,535
Southern Indiana Gas & Elec Co.....	157	39,174	78,098	42,677	61,954	82,895	140,209
Iowa							
Interstate Power Co.....	1,419,838	545,251	1,646,100	—	410,533	1,449,330	3,919,427
IES Utilities Inc.....	82,800	88,471	121,050	25,834	503,178	226,651	758,638
MidAmerican Energy Co.....	1,596,154	1,313,448	986,206	205,574	1,199,944	4,144,163	5,921,429
Kansas							
Kansas Gas & Electric Co.....	423,384	458,032	2,936,681	201,509	294,233	1,534,053	6,261,438
Western Resources Inc.....	285,785	827,252	5,193,827	201,509	294,233	1,783,877	6,290,256
Kentucky							
Kentucky Power Co.....	308,981	116,609	583,849	221,432	754,962	1,113,793	4,331,612
Kentucky Utilities Co.....	—	1,561,339	4,656,824	48,263	111,195	1,885,710	5,266,006
Louisville Gas & Electric Co.....	—	251,529	282,249	265,899	379,931	531,956	684,006
Louisiana							
Central Louisiana Elec Co Inc.....	3,349,180	1,136,161	6,033,538	—	2,845	3,263,098	11,156,478
Southwestern Electric Power Co.....	105,820	2,244,378	6,276,292	625,275	1,445,815	2,910,891	7,877,891
Maine							
Bangor Hydro-Electric Co.....	—	—	—	—	—	—	—
Central Maine Power Co.....	—	—	—	344,367	1,688,430	3,564,321	3,423,678
Maine Electric Power Co Inc.....	59,310	—	—	123,038	558,468	3,019,590	3,349,006
Maine Public Service Co.....	391,080	—	—	—	—	277,405	1,908,308
Maryland							
Baltimore Gas & Electric Co.....	—	—	—	—	5,601,817	—	5,742,536
Potomac Edison Co.....	843,429	—	—	1,530,280	3,257,144	4,429,994	11,492,869
Massachusetts							
Boston Edison Co.....	2,123,657	—	—	1,693,582	4,254,578	5,607,304	11,916,013
Cambridge Electric Light Co.....	174,187	—	—	18,749	262,646	33,360	436,833

See notes and footnotes at end of table.

Table 23. Electricity Wheeling by Investor-Owned Utilities, by State, 1996 (Continued)

State / Utility	Investor-Owned		Federal		State and Other Government		Municipal
	Wheeled Energy (thousand kWh) ²	Revenue (dollars)	Wheeled Energy (thousand kWh) ²	Revenue (dollars)	Wheeled Energy (thousand kWh) ²	Revenue (dollars)	Wheeled Energy (thousand kWh) ²
Massachusetts							
Commonwealth Electric Co.....	—	821,585	—	—	—	—	—
Fitchburg Gas & Elec Light Co.....	—	—	—	—	—	—	—
Holyoke Water Power Co.....	192	90,969	—	—	—	—	—
Montaup Electric Co.....	90,307	140,357	—	—	56,680	248,874	81,965
New England Hydro-Tran Elec Co.....	—	—	—	—	—	—	—
New England Power Co.....	1,653,000	11,797,920	—	—	164,171	552,353	3,249,177
Western Massachusetts Elec Co.....	320,286	1,904,520	—	—	33,881	279,828	265,756
Michigan							
Consumers Power Co.....	197,428	637,890	—	—	—	—	31,222
Detroit Edison Co.....	100,465	863,256	—	—	—	—	7,449
Minnesota							
Minnesota Power & Light Co.....	—	—	—	—	—	—	95,526
Northern States Power Co.....	2,122,560	3,463,119	—	—	990,066	3,060,969	828,532
Otter Tail Power Co.....	4,611	23,218	—	—	—	—	7,102
Mississippi							
Mississippi Power Co.....	1,248	1,350,185	113,702	1,195,607	—	—	—
Missouri							
Empire District Electric Co.....	520,201	420,855	—	—	—	—	—
Kansas City Power & Light Co.....	1,007,395	2,377,393	—	—	673	677	611,429
St Joseph Light & Power Co.....	199,831	103,465	—	—	—	—	—
Union Electric Co.....	5,400	17,192	—	-6,035	—	—	295,541
UtiliCorp United Inc.....	33,221	124,329	8,406	6,571	29,002	43,786	43,521
Montana							
Montana Power Co.....	180,631	444,097	1,137,635	6,207,153	—	—	—
Nevada							
Nevada Power Co.....	8,987	21,813	—	—	492,196	2,114,860	23,571
Sierra Pacific Power Co.....	79,953	130,547	678,899	5,011,471	2,417	4,158	—
New Hampshire							
Concord Electric Co.....	—	—	—	—	—	—	—
Connecticut Valley Elec Co Inc.....	—	—	—	—	—	—	19,901
Exeter & Hampton Electric Co.....	—	—	—	—	—	—	—
Great Bay Power Corp.....	—	—	—	—	—	—	—
New England Elec Transm'n Corp.....	—	—	—	—	—	—	—
New England Hydro-Trans Corp.....	—	—	—	—	—	—	—
North Atlantic Energy Corp.....	—	2,603,573	—	—	—	—	—
Public Service Co of NH.....	266,340	5,907,607	—	—	7,299	17,536	90,342
UNTIL Power Corp.....	—	—	—	—	—	—	—
New Jersey							
Atlantic City Electric Co.....	—	—	—	—	—	—	21,703
Jersey Central Power&Light Co.....	683,537	1,415,033	—	—	—	—	316,054
Public Service Electric&Gas Co.....	2,957,766	6,404,608	—	—	—	—	123,681
Rockland Electric Co.....	—	—	—	—	—	—	—
New Mexico							
Public Service Co of NM.....	1,160,054	2,819,130	841,764	2,720,938	706,382	772,759	1,082,230
New York							
Central Hudson Gas & Elec Corp.....	1,414,201	786,769	—	—	—	281,186	—
Consolidated Edison Co-NY Inc.....	4,951,076	9,583,897	—	—	9,690,330	239,322,113	—
Long Island Lighting Co.....	—	—	—	—	846,253	6,553,549	—
Long Sault Inc.....	—	—	—	—	—	—	157,394
New York State Elec & Gas Corp.....	18,928	1,848,732	—	—	790,469	6,818,784	—
Niagara Mohawk Power Corp.....	662,173	37,162,424	—	—	278,207	21,247,175	9,628
Orange & Rockland Utils Inc.....	—	—	—	—	155,743	109,017	—
Rochester Gas & Electric Corp.....	—	—	—	—	72,182	433,547	—
North Carolina							
Carolina Power & Light Co.....	—	455,942	509,981	936,845	—	—	199,446
Duke Power Co.....	945,362	5,892,550	448,762	2,665,157	—	—	150,123
North Dakota							
MDU Resources Group Inc.....	—	—	499,298	313,979	—	—	—
Ohio							
Cincinnati Gas & Electric Co.....	231,304	-142,613	—	—	—	—	300,109
Cleveland Electric Illum Co.....	134,804	15,227	—	—	—	-75,882	5,956
Columbus Southern Power Co.....	1,519,063	5,965,415	—	—	79,078	271,801	372,187
Dayton Power & Light Co.....	38	-106,468	—	—	—	—	688,463
Ohio Edison Co.....	—	94,808	—	—	—	—	1,934,912
Ohio Power Co.....	2,533,081	5,977,223	26	—	131,867	453,348	435,235
Ohio Valley Electric Corp.....	256,674	405,159	—	—	—	—	—
Toledo Edison Co.....	45,267	51,235	—	—	—	-17,325	196,675

See notes and footnotes at end of table.

Table 23. Electricity Wheeling by Investor-Owned Utilities, by State, 1996 (Continued)

State / Utility	Municipal	Cooperative		Other ¹		Total	
	Revenue (dollars)	Wheeled Energy (thousand kWh) ²	Revenue (dollars)	Wheeled Energy (thousand kWh) ²	Revenue (dollars)	Wheeled Energy (thousand kWh) ²	Revenue (dollars)
Massachusetts							
Commonwealth Electric Co.....	—	—	—	—	136,372	—	957,957
Fitchburg Gas & Elec Light Co.....	—	—	—	—	—	—	—
Holyoke Water Power Co.....	—	—	—	—	420	192	91,389
Montaup Electric Co.....	349,278	—	—	901,720	2,008,999	1,130,672	2,747,508
New England Hydro-Tran Elec Co.....	—	—	—	—	43,721,989	—	43,721,989
New England Power Co.....	6,429,260	—	—	89,190	11,995,230	5,155,538	30,774,763
Western Massachusetts Elec Co.....	1,008,148	—	—	497,547	1,659,348	1,117,470	4,851,844
Michigan							
Consumers Power Co.....	131,027	5,590	78,420	170,598	2,068,080	404,838	2,915,417
Detroit Edison Co.....	28,833	—	—	400	2,832	108,314	894,921
Minnesota							
Minnesota Power & Light Co.....	998,066	1,523,723	2,056,780	28,480	990,430	1,647,729	4,045,276
Northern States Power Co.....	3,678,109	2,710,195	8,090,894	231,579	2,073,914	6,882,932	20,367,005
Otter Tail Power Co.....	63,238	—	—	1,420,646	177,970	1,432,359	264,426
Mississippi							
Mississippi Power Co.....	—	—	—	—	239,200	114,950	2,784,992
Missouri							
Empire District Electric Co.....	—	507,267	1,714,506	291,796	347,103	1,319,264	2,482,464
Kansas City Power & Light Co.....	1,557,892	8,979	55,177	163,450	267,548	1,791,926	4,258,687
St Joseph Light & Power Co.....	—	—	—	70,053	109,429	269,884	212,894
Union Electric Co.....	707,005	371,256	—	128,953	361,216	801,150	1,079,378
UtiliCorp United Inc.....	386,824	664,762	2,138,049	33,213	60,786	812,125	2,760,345
Montana							
Montana Power Co.....	—	575	41,944	—	—	1,318,841	6,693,194
Nevada							
Nevada Power Co.....	38,332	—	—	34,911	249,172	559,665	2,424,177
Sierra Pacific Power Co.....	—	431,570	196,731	11,770	568,755	1,204,609	5,911,662
New Hampshire							
Concord Electric Co.....	—	—	—	175,223	26,081	175,223	26,081
Connecticut Valley Elec Co Inc.....	1,511	14,576	23,264	—	—	34,477	24,775
Exeter & Hampton Electric Co.....	—	—	—	—	—	—	—
Great Bay Power Corp.....	—	—	—	—	54,557	—	54,557
New England Elec Transm'n Corp.....	—	—	—	—	10,062,202	—	10,062,202
New England Hydro-Trans Corp.....	—	—	—	—	33,608,657	—	33,608,657
North Atlantic Energy Corp.....	—	—	—	—	—	—	2,603,573
Public Service Co of NH.....	34,144	—	188,159	1,169,064	5,707,819	1,533,045	11,855,265
UNITIL Power Corp.....	—	—	—	—	—	—	—
New Jersey							
Atlantic City Electric Co.....	56,657	—	—	—	—	21,703	56,657
Jersey Central Power&Light Co.....	2,513,793	120,021	891,060	752,611	1,362,140	1,872,223	6,182,026
Public Service Electric&Gas Co.....	326,676	—	—	168,396	744,647	3,249,843	7,475,931
Rockland Electric Co.....	—	—	—	—	—	—	—
New Mexico							
Public Service Co of NM.....	1,772,047	191,808	4,067,157	439,275	3,275,716	4,421,513	15,427,747
New York							
Central Hudson Gas & Elec Corp.....	—	—	—	120,369	189,759	1,534,570	1,257,714
Consolidated Edison Co-NY Inc.....	—	—	—	16,313,678	6,357,660	30,955,084	255,263,670
Long Island Lighting Co.....	—	—	—	—	—	846,253	6,553,549
Long Sault Inc.....	143,562	—	—	1,967,427	1,145,464	2,124,821	1,289,026
New York State Elec & Gas Corp.....	—	—	—	2,470	868,419	811,867	9,535,935
Niagara Mohawk Power Corp.....	66,138	—	—	1,295,222	33,021,753	2,245,230	91,497,490
Orange & Rockland Utils Inc.....	—	—	—	—	—	155,743	109,017
Rochester Gas & Electric Corp.....	—	—	—	—	—	72,182	433,547
North Carolina							
Carolina Power & Light Co.....	8,854,374	1,787,454	2,883,164	235,021	155,524	2,731,902	13,285,849
Duke Power Co.....	9,369,282	48,881	12,268,001	1,410,563	3,522,700	3,003,691	33,717,690
North Dakota							
MDU Resources Group Inc.....	—	602,260	111,649	14,541	120,175	1,116,099	545,803
Ohio							
Cincinnati Gas & Electric Co.....	967,831	290,740	620,649	189,820	273,212	1,011,973	1,719,079
Cleveland Electric Illum Co.....	4,863,381	—	—	536,947	962,527	677,707	5,765,253
Columbus Southern Power Co.....	1,226,129	1,397,943	3,065,166	523,842	1,767,261	3,892,113	12,295,772
Dayton Power & Light Co.....	2,788,462	1,194,288	2,325,831	—	240	1,882,789	5,008,065
Ohio Edison Co.....	7,621,706	—	—	—	3,057	1,934,912	7,719,571
Ohio Power Co.....	1,300,632	6,936,783	17,240,432	909,124	5,672,524	10,946,116	30,644,159
Ohio Valley Electric Corp.....	—	—	—	—	—	256,674	405,159
Toledo Edison Co.....	478,658	—	—	88,003	68,570	329,945	581,138

See notes and footnotes at end of table.

Table 23. Electricity Wheeling by Investor-Owned Utilities, by State, 1996 (Continued)

State / Utility	Investor-Owned		Federal		State and Other Government		Municipal
	Wheeled Energy (thousand kWh) ²	Revenue (dollars)	Wheeled Energy (thousand kWh) ²	Revenue (dollars)	Wheeled Energy (thousand kWh) ²	Revenue (dollars)	Wheeled Energy (thousand kWh) ²
Oklahoma							
Oklahoma Gas & Electric Co.....	137,055	213,996	89,383	761,320	941,908	3,614,352	—
Public Service Co of Oklahoma.....	75,427	416,717	—	—	78	254,808	—
Oregon							
PacifiCorp.....	1,313,194	2,260,580	5,452,264	11,001,270	1,326,342	5,528,097	377,228
Portland General Electric Co.....	1,430	254,474	—	335,229	—	—	400
Pennsylvania							
Duquesne Light Co.....	—	—	—	—	—	—	—
Metropolitan Edison Co.....	315,333	7,693,150	—	—	—	—	57,866
Pennsylvania Electric Co.....	3,514,767	13,043,584	—	—	—	—	285,866
Pennsylvania Power & Light Co.....	1,242,345	4,459,980	—	—	—	—	27,614
Pennsylvania Power Co.....	—	42,800	—	—	—	—	42,701
PECO Energy Co.....	—	—	—	—	—	—	—
West Penn Power Co.....	3,749,153	9,643,169	—	—	—	—	158,576
South Carolina							
South Carolina Electric&Gas Co.....	19,411	47,216	31,750	357,370	71,662	75,000	—
South Dakota							
Black Hills Corp.....	—	—	—	—	8,240	31,907	13,206
Northwestern Public Service Co.....	—	—	43,547	49,913	—	—	3,916
Texas							
Central Power & Light Co.....	—	990,943	—	—	—	91,824	—
El Paso Electric Co.....	168,859	189,887	210,956	738,346	135,168	1,237,000	—
Entergy Gulf States Inc.....	170,909	1,431,855	775	2,815	408,966	1,741,666	—
Houston Lighting & Power Co.....	2,932,747	7,017,951	—	—	—	137,653	—
Southwestern Electric Serv Co.....	—	—	—	—	—	—	—
Southwestern Public Service Co.....	9,396	38,007	—	—	—	—	56
Texas Utilities Electric Co.....	2,863,466	5,356,969	—	—	181,511	678,107	3,035,475
Texas-New Mexico Power Co.....	1,987,094	6,296,854	—	—	—	—	—
West Texas Utilities Co.....	—	345,301	—	—	—	690,267	—
Vermont							
Central Vermont Pub Serv Corp.....	5,428	1,089,092	—	—	—	—	166,900
Green Mountain Power Corp.....	41,980	552,568	—	—	—	—	238,498
Vermont Electric Power Co Inc.....	3,662,717	12,818,440	—	—	—	341,813	680,007
Vermont Electric Trans Co Inc.....	5,574,011	4,151,127	—	—	285,540	197,246	124,659
Virginia							
Appalachian Power Co.....	3,089,629	12,263,093	9,765	373,020	160,390	609,006	515,404
Virginia Electric & Power Co.....	4,572,008	4,484,922	1,410,688	2,702,268	—	—	724,204
Washington							
Puget Sound Power & Light Co.....	364,935	816,299	522,461	1,564,410	1,579,493	2,482,446	648,614
Washington Water Power Co.....	269,135	1,545,739	1,576,117	6,876,538	183,047	41,923	452,860
West Virginia							
Monongahela Power Co.....	2,063,051	13,701,000	—	—	—	—	87,306
Wheeling Power Co.....	—	1,147,359	—	—	—	—	—
Wisconsin							
Northern States Power Co.....	—	—	—	—	—	—	—
Northwestern Wisconsin Elec Co.....	—	—	—	—	—	—	—
Superior Water Light&Power Co.....	5,277	15,955	—	—	—	—	—
Wisconsin Electric Power Co.....	312,050	391,458	—	—	—	—	1,497,757
Wisconsin Power & Light Co.....	120,577	453,998	—	—	—	—	—
Wisconsin Public Service Corp.....	121,183	289,166	—	—	—	—	76,186

See notes and footnotes at end of table.

Table 23. Electricity Wheeling by Investor-Owned Utilities, by State, 1996 (Continued)

State / Utility	Municipal	Cooperative		Other ¹		Total	
	Revenue (dollars)	Wheeled Energy (thousand kWh) ²	Revenue (dollars)	Wheeled Energy (thousand kWh) ²	Revenue (dollars)	Wheeled Energy (thousand kWh) ²	Revenue (dollars)
Oklahoma							
Oklahoma Gas & Electric Co.....	—	342,463	1,043,224	436,263	681,303	1,947,072	6,314,195
Public Service Co of Oklahoma.....	—	185,037	888,700	627,276	4,333,385	887,818	5,893,610
Oregon							
PacifiCorp.....	1,490,436	302,934	2,097,807	71,577	238,624	8,843,539	22,616,814
Portland General Electric Co.....	187,800	—	—	840	1,050	2,670	778,553
Pennsylvania							
Duquesne Light Co.....	—	—	—	1,005,783	2,579,597	1,005,783	2,579,597
Metropolitan Edison Co.....	223,405	278,526	2,276,238	368,169	659,420	1,019,894	10,852,213
Pennsylvania Electric Co.....	1,797,801	2,354,703	7,522,067	632,093	2,175,956	6,787,429	24,539,408
Pennsylvania Power & Light Co.....	140,211	—	—	2,028,614	3,835,678	3,298,573	8,435,869
Pennsylvania Power Co.....	222,411	—	—	—	3,679	42,701	268,890
PECO Energy Co.....	—	—	—	426,825	2,326,407	426,825	2,326,407
West Penn Power Co.....	1,136,498	—	—	2,063,296	4,393,634	5,971,025	15,173,301
South Carolina							
South Carolina Electric&Gas Co.....	—	—	—	8,445	20,415	131,268	500,001
South Dakota							
Black Hills Corp.....	390,918	2,663,156	1,286,193	—	—	2,684,602	1,709,018
Northwestern Public Service Co.....	10,065	798	2,624	16,850	34,497	65,111	97,099
Texas							
Central Power & Light Co.....	1,998,589	—	410,185	895,724	281,145	895,724	3,772,686
El Paso Electric Co.....	—	16,828	69,618	—	—	531,811	2,234,851
Entergy Gulf States Inc.....	596,540	6,701,149	27,410,879	171,047	614,858	7,452,846	31,798,613
Houston Lighting & Power Co.....	683,641	—	169,967	1,790,874	1,399,545	4,723,621	9,408,757
Southwestern Electric Serv Co.....	—	100,250	230,348	—	—	100,250	230,348
Southwestern Public Service Co.....	168	—	4,884	243,598	728,535	253,050	771,594
Texas Utilities Electric Co.....	3,695,535	2,267,707	10,738,578	2,946,243	16,314,901	11,294,402	36,784,090
Texas-New Mexico Power Co.....	—	6,227	7,077	242,448	207,754	2,235,769	6,511,685
West Texas Utilities Co.....	703,355	—	40,496	224,949	1,897,133	224,949	3,676,552
Vermont							
Central Vermont Pub Serv Corp.....	554,612	108,076	598,036	—	—	280,404	2,241,740
Green Mountain Power Corp.....	424,718	89,070	143,023	—	-222,420	369,548	897,889
Vermont Electric Power Co Inc.....	1,932,234	202,639	717,250	—	—	4,545,363	15,809,737
Vermont Electric Trans Co Inc.....	86,112	—	—	2,619,452	1,277,696	8,603,662	5,712,181
Virginia							
Appalachian Power Co.....	1,353,891	306,674	2,740,270	974,878	3,822,918	5,056,740	21,162,198
Virginia Electric & Power Co.....	—	3,854,175	9,967,425	186,789	331,106	10,747,864	17,485,721
Washington							
Puget Sound Power & Light Co.....	618,837	—	—	1,262,191	3,331,037	4,377,694	8,813,029
Washington Water Power Co.....	240,246	2,209	7,926	1,741,550	6,270,658	4,224,918	14,983,030
West Virginia							
Monongahela Power Co.....	625,461	61,585	74,444	1,135,191	2,417,043	3,347,133	16,817,948
Wheeling Power Co.....	—	—	—	—	—	—	1,147,359
Wisconsin							
Northern States Power Co.....	—	—	—	—	—	—	—
Northwestern Wisconsin Elec Co.....	—	16,322	64,072	—	—	16,322	64,072
Superior Water Light&Power Co.....	—	12,970	38,310	—	—	18,247	54,265
Wisconsin Electric Power Co.....	—	3,558	7,685	65,983	3,062,988	1,879,348	3,462,131
Wisconsin Power & Light Co.....	87,198	—	—	139,451	213,824	260,028	755,020
Wisconsin Public Service Corp.....	337,238	—	—	7,274	18,902	204,643	645,306

¹ Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

² Value presented is the greater of the received or delivered quantity.

—Not Applicable

Notes: •Wheeling (transmission services) is reported in account 456, "Transmission For Others," and in account 565, "Transmission By Others," of the FERC Uniform System of Accounts. •For identification purposes, the utilities are listed in the State in which the corporate office is located. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

Table 24. Electricity Wheeling to Investor-Owned Utilities, by State, 1996

State / Utility	Investor-Owned		Federal		State and Other Government		Municipal
	Wheeled Energy (thousand kWh) ²	Cost (dollars)	Wheeled Energy (thousand kWh) ²	Cost (dollars)	Wheeled Energy (thousand kWh) ²	Cost (dollars)	Wheeled Energy (thousand kWh) ²
Alabama							
Alabama Power Co	12,262	35,881	—	—	—	—	—
Arizona							
Arizona Public Service Co.....	49,931	234,130	2,255,995	2,379,324	4,678,236	1,177,444	1,112
Tucson Electric Power Co	1,337,350	1,829,129	326,120	817,534	57,070	—	124
Arkansas							
Entergy Arkansas Inc	—	—	—	69,672	—	—	—
Entergy Power Inc.....	—	4,273,199	—	1,248,666	—	—	—
California							
Pacific Gas & Electric Co	8,822,672	822,588	8,822,672	382,486	669,074	127,554	10,268
San Diego Gas & Electric Co	23,158	11,629,860	—	57,070	503	609	263
Southern California Edison Co.....	5,041,184	6,219,700	6,145	114,354	84,944	279,495	363,326
Colorado							
Public Service Co of Colorado.....	—	—	220,049	4,531,624	206,382	440,631	63,695
Connecticut							
Citizens Utilities Co.....	103,927	653,572	1,100,811	3,394,584	—	—	2,178
Connecticut Light & Power Co.....	—	20,868,678	—	—	—	—	26,058
United Illuminating Co	592,540	9,612,306	—	—	9,085	183,687	—
Florida							
Florida Power & Light Co.....	1,839	4,097	—	500	—	—	4,219,382
Florida Power Corp.....	—	—	—	—	—	—	—
Tampa Electric Co	99,836	289,038	—	—	—	—	—
Georgia							
Georgia Power Co.....	—	—	—	—	—	—	—
Hawaii							
Maui Electric Co Ltd	—	—	—	—	—	—	—
Idaho							
Idaho Power Co.....	429,757	976,836	654,797	1,132,219	1,400	1,050	397
Illinois							
Central Illinois Light Co.....	—	—	—	—	—	—	—
Central Illinois Pub Serv Co.....	—	—	—	—	—	—	—
Commonwealth Edison Co	—	2,389,671	—	—	—	—	—
Illinois Power Co	—	—	—	—	—	—	—
Mt Carmel Public Utility Co	—	—	—	—	—	—	—
Indiana							
Alcoa Generating Corp	—	—	—	—	—	—	—
Indiana Michigan Power Co.....	296,497	623,885	—	—	—	—	—
Northern Indiana Pub Serv Co	—	209,872	—	—	—	—	—
PSI Energy Inc	1,012,553	2,560,747	3,106	8,105	—	-23,000	59,565
Southern Indiana Gas & Elec Co.....	—	7,707	—	—	—	—	—
Iowa							
Interstate Power Co.....	—	2,182,698	—	—	—	—	—
IES Utilities Inc.....	23,741	—	—	—	—	—	—
MidAmerican Energy Co.....	—	—	—	—	—	—	—
Kansas							
Kansas Gas & Electric Co.....	954,616	-828,348	—	—	—	—	—
Western Resources Inc.....	707,587	3,004,250	—	—	—	—	991
Kentucky							
Kentucky Power Co	105,386	226,685	—	—	—	—	—
Kentucky Utilities Co.....	—	—	3,036	4,728	—	—	—
Louisville Gas & Electric Co	—	345,876	—	471,739	—	—	—
Louisiana							
Central Louisiana Elec Co Inc.....	—	—	—	—	—	—	—
Southwestern Electric Power Co	—	4,989,353	—	—	—	55,068	—
Maine							
Bangor Hydro-Electric Co	—	1,838,736	—	—	—	—	—
Central Maine Power Co	2,331,712	2,659,056	—	—	—	—	—
Maine Public Service Co	787,914	840,928	—	—	—	—	—
Maryland							
Baltimore Gas & Electric Co.....	—	319,316	—	—	—	—	—
Potomac Edison Co.....	1,595,024	1,714,954	—	—	—	—	181,202
Massachusetts							
Boston Edison Co.....	—	—	—	—	—	—	—
Cambridge Electric Light Co.....	610,072	5,705,675	—	—	—	—	—
Canal Electric Co	—	4,120,027	—	—	—	—	—
Commonwealth Electric Co.....	1,771,757	3,701,502	—	—	—	—	—
Fitchburg Gas & Elec Light Co	150,456	253,381	—	—	—	2,185	—
Holyoke Water Power Co.....	—	211,944	—	—	—	—	—
Massachusetts Electric Co	104,706	361,847	—	—	—	—	—

See notes and footnotes at end of table.

Table 24. Electricity Wheeling to Investor-Owned Utilities, by State, 1996 (Continued)

State / Utility	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Wheeled Energy (thousand kWh) ²	Cost (dollars)	Wheeled Energy (thousand kWh) ²	Cost (dollars)	Wheeled Energy (thousand kWh) ²	Cost (dollars)
Alabama							
Alabama Power Co.....	—	61	1,339	73	1,825	12,396	39,045
Arizona							
Arizona Public Service Co.....	175,371	—	—	802	—	6,986,076	3,966,269
Tucson Electric Power Co.....	217	—	—	—	—	1,720,664	2,646,880
Arkansas							
Entergy Arkansas Inc.....	—	—	193,624	—	—	—	263,296
Entergy Power Inc.....	-23,746	—	507,000	534,658	1,581,094	534,658	7,586,213
California							
Pacific Gas & Electric Co.....	187,160	—	—	19,377,106	6,143,646	37,701,792	7,663,434
San Diego Gas & Electric Co.....	584,285	—	—	—	13,361	23,924	12,285,185
Southern California Edison Co.....	546,167	—	—	—	—	5,495,599	7,159,716
Colorado							
Public Service Co of Colorado.....	204,721	66,510	4,106,881	—	—	556,636	9,283,857
Connecticut							
Citizens Utilities Co.....	13,225	—	—	—	608,601	1,206,916	4,669,982
Connecticut Light & Power Co.....	663,432	—	—	469,906	4,608,857	495,964	26,140,967
United Illuminating Co.....	—	—	—	—	1,780,410	601,625	11,576,403
Florida							
Florida Power & Light Co.....	273,881	—	—	4,094,052	10,533,719	8,315,273	10,812,197
Florida Power Corp.....	84,007	—	—	—	—	—	84,007
Tampa Electric Co.....	—	—	—	—	—	99,836	289,038
Georgia							
Georgia Power Co.....	—	—	—	—	—	—	—
Hawaii							
Maui Electric Co Ltd.....	—	—	—	—	—	—	—
Idaho							
Idaho Power Co.....	1,687	420	630	338	638	1,087,109	2,113,060
Illinois							
Central Illinois Light Co.....	—	—	—	—	—	—	—
Central Illinois Pub Serv Co.....	—	—	—	—	—	—	—
Commonwealth Edison Co.....	—	—	—	—	506,778	—	2,896,449
Illinois Power Co.....	—	7,405	7,405	—	—	7,405	7,405
Mt Carmel Public Utility Co.....	—	—	—	—	—	—	—
Indiana							
Alcoa Generating Corp.....	—	—	—	—	—	—	—
Indiana Michigan Power Co.....	—	—	—	—	-46,297,834	296,497	-45,673,949
Northern Indiana Pub Serv Co.....	—	—	—	—	1,825	—	211,697
PSI Energy Inc.....	61,432	303,106	525,278	—	—	1,378,330	3,132,562
Southern Indiana Gas & Elec Co.....	—	—	—	—	—	—	7,707
Iowa							
Interstate Power Co.....	—	—	449,684	—	285,263	—	2,917,645
IES Utilities Inc.....	—	47,930	312,799	—	1,188,147	71,671	1,500,946
MidAmerican Energy Co.....	—	—	27,861	—	363,032	—	390,893
Kansas							
Kansas Gas & Electric Co.....	—	—	—	1,800	5,500	956,416	-822,848
Western Resources Inc.....	7,880	—	—	—	—	708,578	3,012,130
Kentucky							
Kentucky Power Co.....	—	—	96,159	—	-3,364,812	105,386	-3,041,968
Kentucky Utilities Co.....	—	416,370	1,159,668	—	—	419,406	1,164,396
Louisville Gas & Electric Co.....	—	—	41,925	—	11,416	—	870,956
Louisiana							
Central Louisiana Elec Co Inc.....	—	—	—	6,604	21,320	6,604	21,320
Southwestern Electric Power Co.....	561,200	—	32,463	—	2,858,135	—	8,496,219
Maine							
Bangor Hydro-Electric Co.....	—	—	—	—	1,606,192	—	3,444,928
Central Maine Power Co.....	43,929	—	—	1,650	614,201	2,333,362	3,317,186
Maine Public Service Co.....	—	—	—	280,603	961,531	1,068,517	1,802,459
Maryland							
Baltimore Gas & Electric Co.....	—	—	—	—	742,378	—	1,061,694
Potomac Edison Co.....	—	—	—	2,653,768	3,960	4,429,994	1,718,914
Massachusetts							
Boston Edison Co.....	—	—	—	—	773,556	—	773,556
Cambridge Electric Light Co.....	—	—	—	605,228	471,115	1,215,300	6,176,790
Canal Electric Co.....	—	—	—	—	—	—	4,120,027
Commonwealth Electric Co.....	—	—	—	327,758	292,408	2,099,515	3,993,910
Fitchburg Gas & Elec Light Co.....	—	—	—	260,101	550,495	410,557	806,061
Holyoke Water Power Co.....	—	—	—	—	—	—	211,944
Massachusetts Electric Co.....	—	—	—	—	—	104,706	361,847

See notes and footnotes at end of table.

Table 24. Electricity Wheeling to Investor-Owned Utilities, by State, 1996 (Continued)

State / Utility	Investor-Owned		Federal		State and Other Government		Municipal
	Wheeled Energy (thousand kWh) ²	Cost (dollars)	Wheeled Energy (thousand kWh) ²	Cost (dollars)	Wheeled Energy (thousand kWh) ²	Cost (dollars)	Wheeled Energy (thousand kWh) ²
Massachusetts							
Montaup Electric Co.....	—	456,824	—	—	—	—	—
New England Power Co.....	3,896,038	27,221,418	—	—	—	—	—
Western Massachusetts Elec Co.....	—	5,149,459	—	—	—	—	—
Minnesota							
Minnesota Power & Light Co.....	—	—	—	—	—	—	—
Northern States Power Co.....	2,014,046	813,958	270,554	—	363,540	1,783,148	—
Otter Tail Power Co.....	—	1,176,929	—	—	—	—	—
Missouri							
Empire District Electric Co.....	651,633	1,132,965	—	—	60	120	—
Kansas City Power & Light Co.....	—	583,266	—	—	—	—	—
St Joseph Light & Power Co.....	1,705	3,853	—	—	—	—	—
Union Electric Co.....	185,095	580,159	—	7,536	—	—	—
UtiliCorp United Inc.....	76,489	2,238,460	832	3,120	31,645	56,119	—
Montana							
Montana Power Co.....	1,023,948	1,615,048	542,169	3,787,225	—	—	—
Nevada							
Nevada Power Co.....	12,729	62,628	61,237	136,069	1,650	5,560	4,100
Sierra Pacific Power Co.....	472,646	2,090,734	11,010	32,920	—	—	5,228
New Hampshire							
Concord Electric Co.....	—	—	—	—	—	—	—
Exeter & Hampton Electric Co.....	—	—	—	—	—	—	—
Granite State Electric Co.....	2,582	19,774	—	—	—	—	—
Great Bay Power Corp.....	—	—	—	—	—	—	—
North Atlantic Energy Corp.....	—	2,603,573	—	—	—	—	—
Public Service Co of NH.....	—	13,848,094	—	—	—	—	—
UNTIL Power Corp.....	1,327,674	4,940,034	—	—	—	—	—
New Jersey							
Atlantic City Electric Co.....	—	—	—	—	—	—	—
Jersey Central Power&Light Co.....	—	—	—	—	—	—	—
Public Service Electric&Gas Co.....	—	2,572,105	—	—	—	—	—
Rockland Electric Co.....	—	—	—	—	—	—	—
New Mexico							
Public Service Co of NM.....	451,109	—	574,726	—	14,764	—	—
New York							
Central Hudson Gas & Elec Corp.....	26,322	2,364,988	—	—	663,655	2,206,061	—
Long Island Lighting Co.....	—	16,462,775	—	—	2,758,906	27,706,906	—
Long Sault Inc.....	—	—	—	—	—	—	—
New York State Elec & Gas Corp.....	10,737,977	17,531,230	—	—	—	1,889,901	—
Niagara Mohawk Power Corp.....	—	—	—	—	59,134	436,701	—
Orange & Rockland Utils Inc.....	1,139,029	2,693,664	—	—	—	479,200	—
Rochester Gas & Electric Corp.....	—	12,546,955	—	—	—	3,485,104	—
North Carolina							
Carolina Power & Light Co.....	792,175	190,555	—	38,659	—	33,796	—
Duke Power Co.....	—	—	—	—	118,745	826,260	—
North Dakota							
MDU Resources Group Inc.....	—	—	400,327	400,251	—	—	—
Ohio							
Cincinnati Gas & Electric Co.....	153,393	173,779	832	3,924	—	—	—
Cleveland Electric Illum Co.....	15,988	18,042	—	—	—	—	—
Columbus Southern Power Co.....	248,669	541,273	—	—	—	—	—
Dayton Power & Light Co.....	—	—	—	—	—	—	—
Ohio Power Co.....	422,897	2,154,771	—	—	—	—	—
Toledo Edison Co.....	51,339	57,685	—	—	—	—	—
Oklahoma							
Public Service Co of Oklahoma.....	—	40,112	—	—	—	—	—
Oregon							
PacifiCorp.....	2,407,817	18,338,877	10,352,060	34,441,900	2,394,969	601,712	286,647
Portland General Electric Co.....	1,195,277	2,500,603	6,427,760	26,622,071	1,200	3,420	28,411
Pennsylvania							
Duquesne Light Co.....	—	5,411,140	—	—	—	—	—
Metropolitan Edison Co.....	—	82,602	—	—	—	—	—
Pennsylvania Electric Co.....	1,774,999	2,201,192	—	—	—	—	—
Pennsylvania Power & Light Co.....	6,342,469	75,404	—	—	—	—	—
West Penn Power Co.....	2,149,516	7,306,124	—	—	—	—	244,381
Rhode Island							
Narragansett Electric Co.....	—	1,255,554	—	—	—	—	—

See notes and footnotes at end of table.

Table 24. Electricity Wheeling to Investor-Owned Utilities, by State, 1996 (Continued)

State / Utility	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Wheeled Energy (thousand kWh) ²	Cost (dollars)	Wheeled Energy (thousand kWh) ²	Cost (dollars)	Wheeled Energy (thousand kWh) ²	Cost (dollars)
Massachusetts							
Montaup Electric Co.....	177,587	—	—	—	555,600	—	1,190,011
New England Power Co.....	—	—	1,027,294	469,915	1,795,308	4,365,953	30,044,020
Western Massachusetts Elec Co.....	85,487	—	—	185,622	1,080,417	185,622	6,315,363
Minnesota							
Minnesota Power & Light Co.....	—	7,930	145,551	—	—	7,930	145,551
Northern States Power Co.....	—	456,674	274,279	—	4,037,920	3,104,814	6,909,305
Otter Tail Power Co.....	—	—	—	—	—	—	1,176,929
Missouri							
Empire District Electric Co.....	—	—	—	650	2,092	652,343	1,135,177
Kansas City Power & Light Co.....	160,650	—	—	—	—	—	743,916
St Joseph Light & Power Co.....	—	1,932	15,600	—	—	3,637	19,453
Union Electric Co.....	—	239,569	—	—	—	424,664	587,695
UtiliCorp United Inc.....	—	32,497	415,599	21,823	13,470	163,286	2,726,768
Montana							
Montana Power Co.....	—	10,433	34,959	—	280	1,576,550	5,437,512
Nevada							
Nevada Power Co.....	21,800	—	—	—	—	79,716	226,057
Sierra Pacific Power Co.....	13,655	15,125	7,562	3,553	—	507,562	2,144,871
New Hampshire							
Concord Electric Co.....	—	—	—	—	—	—	—
Exeter & Hampton Electric Co.....	—	—	—	—	—	—	—
Granite State Electric Co.....	—	—	—	—	—	2,582	19,774
Great Bay Power Corp.....	—	—	—	—	—	—	—
North Atlantic Energy Corp.....	—	—	—	—	—	—	2,603,573
Public Service Co of NH.....	—	—	155,974	282,208	2,537,487	282,208	16,541,555
UNITIL Power Corp.....	—	—	—	629,622	644,849	1,957,296	5,584,883
New Jersey							
Atlantic City Electric Co.....	—	—	—	—	—	—	—
Jersey Central Power&Light Co.....	—	—	—	—	11,885,955	—	11,885,955
Public Service Electric&Gas Co.....	17,010	—	—	—	-5,338	—	2,583,777
Rockland Electric Co.....	—	—	—	—	—	—	—
New Mexico							
Public Service Co of NM.....	—	31,459	—	—	—	1,072,058	—
New York							
Central Hudson Gas & Elec Corp.....	—	—	—	3,300	-185,457	693,277	4,385,592
Long Island Lighting Co.....	—	—	—	790,205	2,302,601	3,549,111	46,472,282
Long Sault Inc.....	—	—	—	—	—	—	—
New York State Elec & Gas Corp.....	—	—	—	—	354,769	10,737,977	19,775,900
Niagara Mohawk Power Corp.....	595	—	—	1,547,592	1,281,738	1,606,726	1,719,034
Orange & Rockland Utils Inc.....	—	—	—	—	—	1,139,029	3,172,864
Rochester Gas & Electric Corp.....	—	—	—	—	—	—	16,032,059
North Carolina							
Carolina Power & Light Co.....	—	—	—	—	588	792,175	263,598
Duke Power Co.....	—	53,493	177,946	—	—	172,238	1,004,206
North Dakota							
MDU Resources Group Inc.....	—	2,039	3,453	—	20,490	402,366	424,194
Ohio							
Cincinnati Gas & Electric Co.....	—	207,579	42,747	212	848	362,016	221,298
Cleveland Electric Illum Co.....	—	—	—	—	—	15,988	18,042
Columbus Southern Power Co.....	—	—	—	—	30,591,120	248,669	31,132,393
Dayton Power & Light Co.....	—	—	—	—	—	—	—
Ohio Power Co.....	—	—	—	—	12,532,044	422,897	14,686,815
Toledo Edison Co.....	—	—	—	8,134	27,766	59,473	85,451
Oklahoma							
Public Service Co of Oklahoma.....	—	—	—	—	4,677,187	—	4,717,299
Oregon							
PacifiCorp.....	-120,814	264,625	2,178,559	586,852	931,760	16,292,970	56,371,994
Portland General Electric Co.....	221,027	—	765	—	1,115,454	7,652,648	30,463,340
Pennsylvania							
Duquesne Light Co.....	—	—	—	—	—	—	5,411,140
Metropolitan Edison Co.....	—	—	—	—	3,435,424	—	3,518,026
Pennsylvania Electric Co.....	—	—	—	—	—	1,774,999	2,201,192
Pennsylvania Power & Light Co.....	—	—	—	—	—	6,342,469	75,404
West Penn Power Co.....	—	—	—	3,577,128	5,330	5,971,025	7,311,454
Rhode Island							
Narragansett Electric Co.....	—	—	—	—	—	—	1,255,554

See notes and footnotes at end of table.

Table 24. Electricity Wheeling to Investor-Owned Utilities, by State, 1996 (Continued)

State / Utility	Investor-Owned		Federal		State and Other Government		Municipal
	Wheeled Energy (thousand kWh) ²	Cost (dollars)	Wheeled Energy (thousand kWh) ²	Cost (dollars)	Wheeled Energy (thousand kWh) ²	Cost (dollars)	Wheeled Energy (thousand kWh) ²
South Dakota							
Black Hills Corp	—	—	—	—	—	—	—
Northwestern Public Service Co	—	—	255,571	661,029	—	—	—
Texas							
Central Power & Light Co	—	5,846,567	—	—	—	350,513	—
El Paso Electric Co	334,243	708,705	—	—	139,357	1,898,628	—
Entergy Gulf States Inc	—	—	—	—	—	—	—
Houston Lighting & Power Co	201,943	60,587	—	—	132,090	59,421	2,015,886
Southwestern Electric Serv Co	—	1,896,471	—	—	—	187,836	—
Southwestern Public Service Co	119,553	776,904	—	—	—	—	—
Texas Utilities Electric Co	104,496	11,391,416	—	—	33,187	240,227	188,135
Texas-New Mexico Power Co	168,874	6,303,233	—	—	—	418,663	—
West Texas Utilities Co	—	—	—	—	—	—	—
Vermont							
Central Vermont Pub Serv Corp	2,442,974	14,286,149	—	—	8,878	211,512	—
Green Mountain Power Corp	1,158,782	4,269,059	—	—	—	273,094	34,841
Virginia							
Appalachian Power Co	515,399	1,108,883	—	—	—	—	—
Virginia Electric & Power Co	37,292	221,919	—	—	18,050	28,678	—
Washington							
Puget Sound Power & Light Co	4,004	-1,459,463	10,842,841	32,680,343	1,370	-8,215	420
Washington Water Power Co	354,883	1,481,866	1,320,604	9,065,386	39,442	51,581	—
West Virginia							
Monongahela Power Co	1,182,843	—	—	—	—	—	134,445
Wisconsin							
Consolidated Water Power Co	3,723	9,956	—	—	—	—	—
Madison Gas & Electric Co	127,990	464,511	—	—	—	—	—
Wisconsin Electric Power Co	700,451	-285,162	—	—	—	—	3,161
Wisconsin Power & Light Co	2,215,066	3,926,337	—	—	—	—	—
Wisconsin Public Service Corp	89,542	40,691	—	—	—	—	—

See notes and footnotes at end of table.

Table 24. Electricity Wheeling to Investor-Owned Utilities, by State, 1996 (Continued)

State / Utility	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Wheeled Energy (thousand kWh) ²	Cost (dollars)	Wheeled Energy (thousand kWh) ²	Cost (dollars)	Wheeled Energy (thousand kWh) ²	Cost (dollars)
South Dakota							
Black Hills Corp	—	—	—	—	—	—	—
Northwestern Public Service Co	—	547	1,914	—	—	256,118	662,943
Texas							
Central Power & Light Co	140,110	—	214	—	65,103	—	6,402,507
El Paso Electric Co	—	—	—	—	—	473,600	2,607,333
Entergy Gulf States Inc	—	—	—	—	13,421,949	—	13,421,949
Houston Lighting & Power Co	29,117	33,313	99,474	221,009	31,979	2,604,241	280,578
Southwestern Electric Serv Co	101,725	—	52,840	—	—	—	2,238,872
Southwestern Public Service Co	—	4,093	—	2,162	6,061	125,808	782,965
Texas Utilities Electric Co	1,114,225	17,574	-110,141	59,279	-12,480,723	402,671	155,004
Texas-New Mexico Power Co	448,690	—	12,928	2,268,711	51,886	2,437,585	7,235,400
West Texas Utilities Co	—	—	—	—	1,662,536	—	1,662,536
Vermont							
Central Vermont Pub Serv Corp	1,576	—	6,823	—	—	2,451,852	14,506,060
Green Mountain Power Corp	85,183	—	—	593,767	4,532,035	1,787,390	9,159,371
Virginia							
Appalachian Power Co	—	6,269	18,029	—	6,925,468	521,668	8,052,380
Virginia Electric & Power Co	—	6,197	9,816	51,437	202,897	112,976	463,310
Washington							
Puget Sound Power & Light Co	37,548	—	—	784	-262,350	10,849,419	30,987,863
Washington Water Power Co	—	—	32,112	—	—	1,714,929	10,630,945
West Virginia							
Monongahela Power Co	—	—	—	1,968,260	2,935	3,285,548	2,935
Wisconsin							
Consolidated Water Power Co	—	—	—	—	—	3,723	9,956
Madison Gas & Electric Co	—	—	—	—	—	127,990	464,511
Wisconsin Electric Power Co	—	—	—	—	—	703,612	-285,162
Wisconsin Power & Light Co	—	—	—	264,868	326,687	2,479,934	4,253,024
Wisconsin Public Service Corp	—	—	—	—	—	89,542	40,691

¹ Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

² Value presented is the greater of the received or delivered quantity.

—Not Applicable

Notes: •Wheeling (transmission services) is reported in account 456, "Transmission For Others," and in account 565, "Transmission By Others," of the FERC Uniform System of Accounts. •For identification purposes, the utilities are listed in the State in which the corporate office is located. •Totals may not equal sum of components because of independent rounding.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

3. Bulk Power Transactions by Federal and Other Publicly Owned Utilities

Overview

This chapter presents electricity trade data for publicly owned utilities that report on Form EIA-412, "Annual Report of Public Electric Utilities." These data are separated into three types of public ownership: Federal, State and Other Government Utilities, and Municipalities. Summary totals by calendar year (except for Federal) cannot be provided because filings by utilities were based on different fiscal years and ending months.

Individual transactions by public utilities with other utilities by class of ownership are identified for purchased power and sales for resale data. Form EIA-412 collects only aggregate information (on a sample basis) on exchanges and wheeling in the "Energy Account Balance" schedule. Summary data from Form EIA-861, "Annual Electric Utility Report," are used to provide complete coverage for the public utilities because it is collected from all electric utilities. However, Form EIA-861 does not identify individual transaction partners.

Tables

This chapter presents cost, revenue, and quantity data on purchased power and sales for resale for the following types of public utilities.

- Federal utilities (Tables 25 and 26)
- State and other government utilities (Tables 27 and 28)
- Municipalities (Tables 29 and 30)
- Electricity purchases by publicly owned utilities not listed elsewhere (Table 31).

Tables 25 through 30 provide information on the total cost and revenue associated with the total quantity of purchased power and sales for resale. Other utilities which do not report on the Form EIA-412 because of their small size are shown in Table 31. Table 32 pro-

vides information on exchanges and wheeling for public electric utilities. In 1990, Form EIA-412 was updated to collect data on the different categories of power and energy and the associated value of electric utility trade. However, the value of the categories were not subdivided into Demand, Energy, and Other for revenues and costs.

The public utilities are listed by State according to the mailing addresses of their administrative offices. The fiscal-year ending date for each public utility is also included in the tables. Federal utilities are listed by major project, office, or administrative reporting level.

Summary

Federal power authorities dominate electric trade by publicly owned utilities. However, regional differences among the Federal authorities exist because of legal authority given and restrictions placed in the Federal laws that guide their activities. Many of these differences are due to Federal flood prevention and irrigation requirements at hydroelectric projects or the limitations of corresponding transmission system operated by the power marketing authorities.

State power agencies and other public authorities purchase large amounts of electricity for resale to their wholesale customers. Some of these organizations have been set up to acquire power for special in-State or regional projects, such as water transfer for irrigation and/or public consumption. In other cases, States have established power-brokering agencies to purchase bulk power for redistribution to member municipalities and cooperatives at lower costs.

Municipalities purchase far more power than they sell for resale. Their purchases are almost always redistributed to the ultimate consumers of electricity. Those municipal utilities involved in sales for resale usually have large generating capability, frequently including hydroelectric facilities and/or jointly owned thermal generators.

Table 25. Electricity Purchases by Federal Utilities, Fiscal Year Ending September 30, 1996

State / Utility	Source of Electricity						
	Investor-Owned		Federal		State and Other Government		Municipal
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
Colorado							
Western Area Power Admin.....	3,221,531	94,792,019	16,407	156,000	169,051	2,122,967	659,548
Georgia							
Southeastern Power Admin.....	57,984	1,039,955	—	—	—	—	—
Illinois							
U S Army Corps of Engineers	—	—	—	—	—	—	—
Montana							
USBIA-Mission Valley Power.....	84,764	1,316,856	232,187	6,775,290	—	—	—
Oklahoma							
Southwestern Power Admin.....	100,219	2,897,288	—	—	—	—	—
Oregon							
Bonneville Power Admin ¹	—	—	—	—	—	—	—
Tennessee							
Tennessee Valley Authority	—	—	3,112,385	23,965,968	—	—	—
U.S. Total	3,464,498	100,046,118	3,360,979	30,897,258	169,051	2,122,967	659,548

See notes and footnotes at end of table.

Table 25. Electricity Purchases by Federal Utilities, Fiscal Year Ending September 30, 1996 (Continued)

State / Utility	Source of Electricity						
	Municipal	Cooperative		Other ²		Total	
	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Colorado							
Western Area Power Admin.....	30,249,595	1,721,607	23,317,819	300,936	17,367,042	6,089,080	168,005,442
Georgia							
Southeastern Power Admin.....	—	52,772	871,204	80,995	1,186,249	191,751	3,097,408
Illinois							
U S Army Corps of Engineers	—	—	—	—	—	—	—
Montana							
USBIA-Mission Valley Power.....	—	—	—	1,329	34,909	318,280	8,127,055
Oklahoma							
Southwestern Power Admin.....	—	—	—	1,802	—	102,021	2,897,288
Oregon							
Bonneville Power Admin ¹	—	—	—	1,057,390	--	2,569,446	--
Tennessee							
Tennessee Valley Authority	—	—	—	1,817,012	2,290,818	4,929,397	26,256,786
U.S. Total	30,249,595	1,774,379	24,189,023	3,259,464	20,953,403	14,199,975	208,458,364

¹ Bonneville Power Administration did not report utility purchases by class of ownership for 1996. Total purchases from utilities equaled 1,512,056 thousand kWh's.

² Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •Federal authorities use different accounting methods for reporting energy received from Federal generating assets; the energy may be reported as generation or purchases. •For identification purposes, the public utilities are listed in the State in which the administrative office is located. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities."

Table 26. Electricity Sales for Resale by Federal Utilities, Fiscal Year Ending September 30, 1996

State / Utility	Purchaser of Electricity						
	Investor-Owned		Federal		State and Other Government		Municipal
	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)
Colorado							
Western Area Power Admin.....	5,899,312	79,287,013	—	—	12,380,804	227,833,212	10,137,656
Georgia							
Southeastern Power Admin.....	37,459	352,446	2,926,500	23,963,968	322,537	6,046,978	1,620,778
Illinois							
U S Army Corps of Engineers	138,458	1,751,000	—	—	—	—	—
Montana							
USBIA-Mission Valley Power.....	—	—	—	—	—	—	—
Oklahoma							
Southwestern Power Admin.....	—	—	21,485	557,483	105,707	1,791,290	1,142,761
Oregon							
Bonneville Power Admin.....	1,955,941	—	—	—	815,409	—	2,530
Tennessee							
Tennessee Valley Authority.....	—	—	—	—	—	—	82,019,358
U.S. Total	8,031,170	81,390,459	2,947,985	24,521,451	13,624,457	235,671,480	94,923,083

See notes and footnotes at end of table.

Table 26. Electricity Sales for Resale by Federal Utilities, Fiscal Year Ending September 30, 1996 (Continued)

State / Utility	Purchaser of Electricity						
	Municipal	Cooperative		Other ¹		Total	
	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)
Colorado							
Western Area Power Admin.....	158,670,234	9,460,102	160,636,711	656,178	8,511,944	38,534,052	634,939,114
Georgia							
Southeastern Power Admin.....	45,385,004	3,794,941	88,705,276	—	—	8,702,215	164,453,672
Illinois							
U S Army Corps of Engineers	—	—	—	—	—	138,458	1,751,000
Montana							
USBIA-Mission Valley Power.....	—	—	—	—	—	—	—
Oklahoma							
Southwestern Power Admin.....	23,212,044	2,595,246	55,812,384	166,235	4,325,486	4,031,434	85,698,687
Oregon							
Bonneville Power Admin.....	—	113,293	—	55,472,171	1,104,363,895	58,359,344	1,104,363,895
Tennessee							
Tennessee Valley Authority	3,377,591,727	4,090,776	17,598,387	469,743	19,616,893	86,579,877	3,414,807,007
U.S. Total	3,604,859,009	20,054,358	322,752,758	56,764,327	1,136,818,218	196,345,380	5,406,013,375

¹ Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •For identification purposes, the public utilities are listed in the State in which the administrative office is located. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities."

Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		Municipal	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Arizona						
Arizona Power Authority/June 30						
Firm Power	—	—	792,112	18,134,664	—	—
Total Power	—	—	792,112	18,134,664	—	—
Electrical Dist No2 Pinal Cnty/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Navajo Tribal Utility Auth/Dec 31						
Firm Power	456,245	17,675,320	120,626	2,582,004	—	—
Total Power	456,245	17,675,320	120,626	2,582,004	—	—
Salt River Proj Ag I & P Dist/Apr 30						
Firm Power	34,855	18,664,309	2,425,628	88,777,858	—	—
Nonfirm Power	821,516	9,218,316	647,181	6,209,274	171,022	2,119,748
Total Power	856,371	27,882,625	3,072,809	94,987,132	171,022	2,119,748
Tohono O 'Odham Utility Auth/Dec 31						
Firm Power	94,000	4,416,699	13,000	122,201	—	—
Total Power	94,000	4,416,699	13,000	122,201	—	—
California						
California Dept-Wtr Resources/June 30						
Nonfirm Power	632,213	10,306,497	139,409	2,132,897	146,958	434,086
Total Power	632,213	10,306,497	139,409	2,132,897	146,958	434,086
Imperial Irrigation District/Dec 31						
Firm Power	536,991	44,624,111	157,059	3,941,605	2,025	1,389,155
Nonfirm Power	195,435	2,982,683	13,585	216,058	—	—
Total Power	732,426	47,606,794	170,644	4,157,663	2,025	1,389,155
Merced Irrigation District/Dec 31						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Modesto Irrigation District/Dec 31						
Firm Power	32,290	1,401,541	48,411	985,594	—	—
Nonfirm Power	35,271	1,152,324	319,614	3,113,396	646,749	18,113,636
Other Power	615	—	—	—	—	—
Total Power	68,176	2,553,865	368,025	4,098,990	646,749	18,113,636
MSR Public Power Agency/Dec 31						
Firm Power	—	—	534,170	28,057,168	—	—
Nonfirm Power	—	—	—	—	212,163	2,620,807
Total Power	—	—	534,170	28,057,168	212,163	2,620,807
Northern California Power Agency/June 30						
Nonfirm Power	381,267	8,204,454	58,610	1,641,285	174,694	2,306,160
Total Power	381,267	8,204,454	58,610	1,641,285	174,694	2,306,160
Sacramento Municipal Util Dist/Dec 31						
Firm Power	410,209	96,594,992	2,068,283	48,336,822	—	—
Nonfirm Power	581,275	9,068,830	1,295,294	17,040,388	122,398	2,024,191
Total Power	991,484	105,663,822	3,363,577	65,377,210	122,398	2,024,191
Southern California P P A/June 30						
Nonfirm Power	—	—	110,000	1,858,000	—	—
Total Power	—	—	110,000	1,858,000	—	—
Colorado						
Arkansas River Power Authority/Dec 31						
Firm Power	—	—	97,893	2,013,547	—	—
Nonfirm Power	2,208	37,560	13,061	207,152	119,193	3,786,176
Total Power	2,208	37,560	110,954	2,220,699	119,193	3,786,176
Platte River Power Authority/Dec 31						
Firm Power	—	—	730,399	13,435,695	—	—
Nonfirm Power	1,559	27,209	6,220	85,985	—	—
Total Power	1,559	27,209	736,619	13,521,680	—	—
Georgia						
Crisp County Power Comm/Dec 31						
Nonfirm Power	10,691	409,324	31,119	1,122,089	—	—
Total Power	10,691	409,324	31,119	1,122,089	—	—
Municipal Electric Authority/Dec 31						
Firm Power	1,097,533	18,690,000	—	—	—	—
Total Power	1,097,533	18,690,000	—	—	—	—
Indiana						
Indiana Municipal Power Agency/Dec 31						
Firm Power	2,067,473	54,465,320	—	—	557,122	23,892,564
Nonfirm Power	197,578	2,797,264	—	—	3,928	39,799
Total Power	2,265,051	57,262,584	—	—	561,050	23,932,363

See notes and footnotes at end of table.

Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996
(Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Arizona						
Arizona Power Authority/June 30						
Firm Power	—	—	223,951	3,259,126	1,016,063	21,393,790
Total Power	—	—	223,951	3,259,126	1,016,063	21,393,790
Electrical Dist No2 Pinal Cnty/Dec 31						
Firm Power	—	—	190,098	5,934,271	190,098	5,934,271
Total Power	—	—	190,098	5,934,271	190,098	5,934,271
Navajo Tribal Utility Auth/Dec 31						
Firm Power	—	—	—	—	576,871	20,257,324
Total Power	—	—	—	—	576,871	20,257,324
Salt River Proj Ag I & P Dist/Apr 30						
Firm Power	199,375	19,272,239	152,390	2,415,197	2,812,248	129,129,603
Nonfirm Power	69,805	1,053,385	1,043,457	10,536,253	2,752,981	29,136,976
Total Power	269,180	20,325,624	1,195,847	12,951,450	5,565,229	158,266,579
Tohono O 'Odham Utility Auth/Dec 31						
Firm Power	—	—	—	—	107,000	4,538,900
Total Power	—	—	—	—	107,000	4,538,900
California						
California Dept-Wtr Resources/June 30						
Nonfirm Power	—	—	645,266	4,445,276	1,563,846	17,318,756
Total Power	—	—	645,266	4,445,276	1,563,846	17,318,756
Imperial Irrigation District/Dec 31						
Firm Power	—	—	885,712	35,632,660	1,581,787	85,587,531
Nonfirm Power	—	—	102,174	1,189,169	311,194	4,387,910
Total Power	—	—	987,886	36,821,829	1,892,981	89,975,441
Merced Irrigation District/Dec 31						
Nonfirm Power	—	—	34,889	784,645	34,889	784,645
Total Power	—	—	34,889	784,645	34,889	784,645
Modesto Irrigation District/Dec 31						
Firm Power	—	—	916,552	54,928,867	997,253	57,316,002
Nonfirm Power	—	—	187,729	13,131,082	1,189,363	35,510,438
Other Power	—	—	—	—	615	—
Total Power	—	—	1,104,281	68,059,949	2,187,231	92,826,440
MSR Public Power Agency/Dec 31						
Firm Power	—	—	—	—	534,170	28,057,168
Nonfirm Power	—	—	265,864	3,211,388	478,027	5,832,195
Total Power	—	—	265,864	3,211,388	1,012,197	33,889,363
Northern California Power Agency/June 30						
Nonfirm Power	43	585	263,908	4,039,484	878,522	16,191,968
Total Power	43	585	263,908	4,039,484	878,522	16,191,968
Sacramento Municipal Util Dist/Dec 31						
Firm Power	—	—	1,137,154	19,127,734	3,615,646	164,059,548
Nonfirm Power	—	—	877,665	19,115,563	2,876,632	47,248,972
Total Power	—	—	2,014,819	38,243,297	6,492,278	211,308,520
Southern California P P A/June 30						
Nonfirm Power	—	—	—	93,000	110,000	1,951,000
Total Power	—	—	—	93,000	110,000	1,951,000
Colorado						
Arkansas River Power Authority/Dec 31						
Firm Power	—	—	—	—	97,893	2,013,547
Nonfirm Power	73,341	2,241,589	3,650	51,222	211,453	6,323,699
Total Power	73,341	2,241,589	3,650	51,222	309,346	8,337,246
Platte River Power Authority/Dec 31						
Firm Power	—	—	—	—	730,399	13,435,695
Nonfirm Power	31,299	436,316	122,928	2,108,918	162,006	2,658,428
Total Power	31,299	436,316	122,928	2,108,918	892,405	16,094,123
Georgia						
Crisp County Power Comm/Dec 31						
Nonfirm Power	—	—	263,980	10,351,237	305,790	11,882,650
Total Power	—	—	263,980	10,351,237	305,790	11,882,650
Municipal Electric Authority/Dec 31						
Firm Power	—	—	9,037	436,000	1,106,570	19,126,000
Total Power	—	—	9,037	436,000	1,106,570	19,126,000
Indiana						
Indiana Municipal Power Agency/Dec 31						
Firm Power	—	—	—	—	2,624,595	78,357,884
Nonfirm Power	169,080	2,054,920	90,578	1,491,110	461,164	6,383,093
Total Power	169,080	2,054,920	90,578	1,491,110	3,085,759	84,740,977

See notes and footnotes at end of table.

Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996
(Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		Municipal	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Kansas						
Kansas Municipal Energy Agency/Dec 31						
Firm Power	—	—	31,946	523,786	249,988	8,843,760
Total Power	—	—	31,946	523,786	249,988	8,843,760
Louisiana						
Louisiana Energy & Power Auth/Dec 31						
Firm Power	—	—	63,542	1,143,726	102,423	6,674,870
Nonfirm Power	1,826	29,076	—	—	63,587	1,418,151
Total Power	1,826	29,076	63,542	1,143,726	166,010	8,093,021
Massachusetts						
Mun Wholes Elec Co/Dec 31						
Firm Power	1,604	168,972	—	—	30,886	1,714,923
Nonfirm Power	107,300	2,520,076	—	—	6,077	198,949
Total Power	108,904	2,689,048	—	—	36,963	1,913,872
Michigan						
Michigan Public Power Agency/Dec 31						
Firm Power	389,207	12,160,914	—	—	388,241	12,646,157
Nonfirm Power	10	260	—	—	1,602	37,548
Total Power	389,217	12,161,174	—	—	389,843	12,683,705
Michigan South Central Pwr Agy/Jun 30						
Firm Power	125,429	3,127,677	—	—	11,987	604,876
Nonfirm Power	97,313	1,943,424	—	—	5,721	133,326
Total Power	222,742	5,071,101	—	—	17,708	738,202
Minnesota						
Minnesota Municipal Power Agny						
Firm Power	—	—	—	—	101,699	6,342,846
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	101,699	6,342,846
Southern Minnesota Mun P Agny/Dec 31						
Firm Power	64,342	1,036,477	—	—	223,112	8,730,962
Nonfirm Power	84,692	1,187,416	15,411	235,059	22,659	4,399,351
Total Power	149,034	2,223,893	15,411	235,059	245,771	13,130,313
Nebraska						
Cornhusker Public Power Dist/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Dawson County Public Pwr Dist/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Loup River Public Power Dist/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Municipal Energy Agency of NE/Mar 31						
Firm Power	—	—	156,345	3,422,588	171,621	6,324,974
Nonfirm Power	62,319	862,984	—	—	10,920	150,345
Total Power	62,319	862,984	156,345	3,422,588	182,541	6,475,319
Nebraska Public Power District/Dec 31						
Firm Power	—	—	724,997	18,023,354	12,606	1,454,532
Nonfirm Power	235,173	3,816,785	42,726	795,180	63,614	860,359
Total Power	235,173	3,816,785	767,723	18,818,534	76,220	2,314,891
Norris Public Power District/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Omaha Public Power District/Dec 31						
Firm Power	—	—	407,408	5,720,309	—	417,600
Total Power	—	—	407,408	5,720,309	—	417,600
Southern Nebraska Rural P P D/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Nevada						
Colorado River Comm of Nevada/Jun 30						
Firm Power	225,206	3,520,612	1,494,152	19,055,118	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	225,206	3,520,612	1,494,152	19,055,118	—	—
Overton Power District No 5/Dec 31						
Firm Power	120,103	3,255,113	—	—	—	—
Nonfirm Power	5,177	82,547	—	—	—	—
Total Power	125,280	3,337,660	—	—	—	—

See notes and footnotes at end of table.

Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996
(Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Kansas						
Kansas Municipal Energy Agency/Dec 31						
Firm Power	11,572	713,485	—	—	293,506	10,081,031
Total Power	11,572	713,485	—	—	293,506	10,081,031
Louisiana						
Louisiana Energy & Power Auth/Dec 31						
Firm Power	—	—	—	—	165,965	7,818,596
Nonfirm Power	7,910	151,120	310,525	6,309,599	383,848	7,907,946
Total Power	7,910	151,120	310,525	6,309,599	549,813	15,726,542
Massachusetts						
Mun Wholes Elec Co/Dec 31						
Firm Power	—	—	620,580	27,412,278	653,070	29,296,173
Nonfirm Power	—	—	155,659	10,982,515	269,036	13,701,540
Total Power	—	—	776,239	38,394,793	922,106	42,997,713
Michigan						
Michigan Public Power Agency/Dec 31						
Firm Power	—	—	—	—	777,448	24,807,071
Nonfirm Power	—	—	984,950	6,624,408	986,562	6,662,216
Total Power	—	—	984,950	6,624,408	1,764,010	31,469,287
Michigan South Central Pwr Agy/Jun 30						
Firm Power	—	—	139,434	2,703,936	276,850	6,436,489
Nonfirm Power	—	—	—	—	103,034	2,076,750
Total Power	—	—	139,434	2,703,936	379,884	8,513,239
Minnesota						
Minnesota Municipal Power Agny						
Firm Power	250,669	10,394,179	—	180,000	352,368	16,917,025
Nonfirm Power	442,276	6,180,036	—	—	442,276	6,180,036
Total Power	692,945	16,574,215	—	180,000	794,644	23,097,061
Southern Minnesota Mun P Agny/Dec 31						
Firm Power	—	—	8,706	186,912	296,160	9,954,351
Nonfirm Power	76,410	1,216,153	59,449	913,848	258,621	7,951,827
Total Power	76,410	1,216,153	68,155	1,100,760	554,781	17,906,178
Nebraska						
Cornhusker Public Power Dist/Dec 31						
Firm Power	232,669	7,717,464	—	—	232,669	7,717,464
Total Power	232,669	7,717,464	—	—	232,669	7,717,464
Dawson County Public Pwr Dist/Dec 31						
Firm Power	293,947	10,540,583	—	—	293,947	10,540,583
Total Power	293,947	10,540,583	—	—	293,947	10,540,583
Loup River Public Power Dist/Dec 31						
Firm Power	—	—	1,136,487	34,940,117	1,136,487	34,940,117
Total Power	—	—	1,136,487	34,940,117	1,136,487	34,940,117
Municipal Energy Agency of NE/Mar 31						
Firm Power	68,373	1,940,460	47,150	1,396,113	443,489	13,084,135
Nonfirm Power	99,994	1,284,986	322,634	4,603,056	495,867	6,901,371
Total Power	168,367	3,225,446	369,784	5,999,169	939,356	19,985,506
Nebraska Public Power District/Dec 31						
Firm Power	—	—	11,306,704	275,515,629	12,044,307	294,993,515
Nonfirm Power	114,967	2,152,122	54,790	1,066,983	511,270	8,691,429
Total Power	114,967	2,152,122	11,361,494	276,582,612	12,555,577	303,684,944
Norris Public Power District/Dec 31						
Firm Power	—	—	479,215	14,977,844	479,215	14,977,844
Total Power	—	—	479,215	14,977,844	479,215	14,977,844
Omaha Public Power District/Dec 31						
Firm Power	—	343,200	2,566	78,404	409,974	6,559,513
Total Power	—	343,200	2,566	78,404	409,974	6,559,513
Southern Nebraska Rural P P D/Dec 31						
Firm Power	485,203	16,840,017	—	—	485,203	16,840,017
Total Power	485,203	16,840,017	—	—	485,203	16,840,017
Nevada						
Colorado River Comm of Nevada/Jun 30						
Firm Power	—	—	—	—	1,719,358	22,575,730
Nonfirm Power	—	—	125,648	1,991,668	125,648	1,991,668
Total Power	—	—	125,648	1,991,668	1,845,006	24,567,398
Overton Power District No 5/Dec 31						
Firm Power	—	—	116,241	1,742,912	236,344	4,998,025
Nonfirm Power	—	—	18,360	265,014	23,537	347,561
Total Power	—	—	134,601	2,007,926	259,881	5,345,586

See notes and footnotes at end of table.

Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996
(Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		Municipal	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
New York						
Power Authority of State of NY/Dec 31						
Firm Power	—	53,000	—	—	—	—
Nonfirm Power	969,523	17,108,000	—	—	—	—
Total Power	969,523	17,161,000	—	—	—	—
North Carolina						
New River Light & Power Co/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Oklahoma						
Grand River Dam Authority/Dec 31						
Nonfirm Power	114,923	2,655,639	—	—	875	42,438
Other Power	69,728	—	—	—	29,337	—
Total Power	184,651	2,655,639	—	—	30,212	42,438
Oklahoma Municipal Power Auth/Dec 31						
Firm Power	751,868	17,156,001	—	—	1,662	1,851,454
Nonfirm Power	—	—	27,363	466,423	39,427	605,925
Total Power	751,868	17,156,001	27,363	466,423	41,089	2,457,379
Oregon						
Central Lincoln Peoples Utl Dt/Dec 31						
Firm Power	—	—	1,281,200	36,372,492	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	1,281,200	36,372,492	—	—
Clatskanie Peoples Util Dist/Dec 31						
Firm Power	—	—	853,532	22,930,649	—	—
Nonfirm Power	26	402,922	—	—	—	—
Total Power	26	402,922	853,532	22,930,649	—	—
Columbia River Peoples Ut Dist/Dec 31						
Firm Power	—	—	296,272	7,441,705	—	—
Total Power	—	—	296,272	7,441,705	—	—
Emerald People 's Utility Dist/Dec 31						
Firm Power	—	—	360,822	9,424,012	—	—
Nonfirm Power	19,635	265,072	—	—	—	—
Total Power	19,635	265,072	360,822	9,424,012	—	—
Northern Wasco County P U D/Dec 31						
Firm Power	—	—	266,227	7,740,646	—	—
Total Power	—	—	266,227	7,740,646	—	—
Tillamook Peoples Utility Dist/Dec 31						
Firm Power	—	—	337,811	9,385,850	—	—
Nonfirm Power	—	—	—	—	60,514	1,071,882
Total Power	—	—	337,811	9,385,850	60,514	1,071,882
South Carolina						
South Carolina Pub Serv Auth/Dec 31						
Firm Power	53,542	1,369,635	267,774	4,761,899	121,547	4,342,089
Nonfirm Power	104,681	2,142,426	—	—	3,611	45,204
Other Power	18,903	—	—	—	—	—
Total Power	177,126	3,512,061	267,774	4,761,899	125,158	4,387,293
South Dakota						
Heartland Consumers Power Dist/Dec 31						
Firm Power	—	—	—	—	—	250,250
Nonfirm Power	—	—	25,499	377,202	—	—
Total Power	—	—	25,499	377,202	—	250,250
Missouri Basin Mun Power Agny/Dec 31						
Firm Power	—	—	—	—	1,997,174	42,359,351
Nonfirm Power	—	904,547	17,483	256,010	—	—
Total Power	—	904,547	17,483	256,010	1,997,174	42,359,351
Texas						
Lower Colorado River Authority/June 30						
Nonfirm Power	231,915	4,861,671	—	—	125,900	2,567,355
Total Power	231,915	4,861,671	—	—	125,900	2,567,355
Sam Rayburn Mun Pwr Agny/Sep 30						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Utah						
Utah Associated Mun Power Sys/Mar 31						
Firm Power	314,004	7,742,309	420,695	8,695,169	—	—
Nonfirm Power	91,457	977,309	61,143	783,225	1,735	28,872
Total Power	405,461	8,719,618	481,838	9,478,394	1,735	28,872

See notes and footnotes at end of table.

Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996
(Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
New York						
Power Authority of State of NY/Dec 31						
Firm Power	—	—	3,403,395	72,750,000	3,403,395	72,803,000
Nonfirm Power	—	—	1,545,451	28,383,000	2,514,974	45,491,000
Total Power	—	—	4,948,846	101,133,000	5,918,369	118,294,000
North Carolina						
New River Light & Power Co/Dec 31						
Firm Power	185,530	9,011,888	—	—	185,530	9,011,888
Total Power	185,530	9,011,888	—	—	185,530	9,011,888
Oklahoma						
Grand River Dam Authority/Dec 31						
Nonfirm Power	337,749	6,148,829	282,409	5,522,728	735,956	14,369,634
Other Power	13,293	—	14,474	—	126,832	—
Total Power	351,042	6,148,829	296,883	5,522,728	862,788	14,369,634
Oklahoma Municipal Power Auth/Dec 31						
Firm Power	61,510	4,084,764	202,593	6,551,340	1,017,633	29,643,559
Nonfirm Power	—	—	10,607	323,179	77,397	1,395,527
Total Power	61,510	4,084,764	213,200	6,874,519	1,095,030	31,039,086
Oregon						
Central Lincoln Peoples Utl Dt/Dec 31						
Firm Power	—	—	—	—	1,281,200	36,372,492
Nonfirm Power	69	2,222	22,006	64,450	22,075	66,672
Total Power	69	2,222	22,006	64,450	1,303,275	36,439,164
Clatskanie Peoples Util Dist/Dec 31						
Firm Power	—	—	—	—	853,532	22,930,649
Nonfirm Power	—	—	—	—	26	402,922
Total Power	—	—	—	—	853,558	23,333,571
Columbia River Peoples Ut Dist/Dec 31						
Firm Power	—	—	—	—	296,272	7,441,705
Total Power	—	—	—	—	296,272	7,441,705
Emerald People 's Utility Dist/Dec 31						
Firm Power	—	—	—	—	360,822	9,424,012
Nonfirm Power	—	—	26,360	457,364	45,995	722,436
Total Power	—	—	26,360	457,364	406,817	10,146,448
Northern Wasco County P U D/Dec 31						
Firm Power	—	—	—	—	266,227	7,740,646
Total Power	—	—	—	—	266,227	7,740,646
Tillamook Peoples Utility Dist/Dec 31						
Firm Power	—	—	—	—	337,811	9,385,850
Nonfirm Power	—	—	40,118	379,130	100,632	1,451,012
Total Power	—	—	40,118	379,130	438,443	10,836,862
South Carolina						
South Carolina Pub Serv Auth/Dec 31						
Firm Power	—	—	101,577	2,447,485	544,440	12,921,108
Nonfirm Power	16,325	421,234	101,430	1,472,711	226,047	4,081,575
Other Power	—	—	20,564	—	39,467	—
Total Power	16,325	421,234	223,571	3,920,196	809,954	17,002,683
South Dakota						
Heartland Consumers Power Dist/Dec 31						
Firm Power	54,499	955,572	31,777	481,402	86,276	1,687,224
Nonfirm Power	—	—	3,184	30,669	28,683	407,871
Total Power	54,499	955,572	34,961	512,071	114,959	2,095,095
Missouri Basin Mun Power Agny/Dec 31						
Firm Power	—	—	—	—	1,997,174	42,359,351
Nonfirm Power	—	—	75,985	1,762,923	93,468	2,923,480
Total Power	—	—	75,985	1,762,923	2,090,642	45,282,831
Texas						
Lower Colorado River Authority/Jun 30						
Nonfirm Power	6,976	104,169	200,923	2,321,535	565,714	9,854,730
Total Power	6,976	104,169	200,923	2,321,535	565,714	9,854,730
Sam Rayburn Mun Pwr Agny/Sep 30						
Nonfirm Power	44,469	5,187,914	—	—	44,469	5,187,914
Total Power	44,469	5,187,914	—	—	44,469	5,187,914
Utah						
Utah Associated Mun Power Sys/Mar 31						
Firm Power	—	—	—	—	734,699	16,437,478
Nonfirm Power	101,222	1,388,881	40,941	534,484	296,498	3,712,771
Total Power	101,222	1,388,881	40,941	534,484	1,031,197	20,150,249

See notes and footnotes at end of table.

Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996
(Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		Municipal	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Utah						
Utah Municipal Power Agency/June 30						
Firm Power	35,136	1,789,776	358,174	6,916,991	—	—
Nonfirm Power	58,084	510,366	39,576	526,840	15	135
Total Power	93,220	2,300,142	397,750	7,443,831	15	135
Vermont						
Vermont Public Pwr Supply Auth/Dec 31						
Firm Power	59,654	1,741,826	—	—	87	24,671
Nonfirm Power	1,066	26,528	—	—	5,664	236,851
Total Power	60,720	1,768,354	—	—	5,751	261,522
Virginia						
Virginia Tech Electric Service/June 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Washington						
PUD No 1 of Benton County/Dec 31						
Firm Power	—	—	1,461,322	45,307,526	—	—
Nonfirm Power	19,920	252,321	525	5,739	—	—
Total Power	19,920	252,321	1,461,847	45,313,265	—	—
PUD No 1 of Chelan County/Dec 31						
Firm Power	123,620	1,477,202	12,485	434,932	1,074	18,607
Nonfirm Power	—	—	—	—	—	—
Other Power	—	—	156,970	—	—	—
Total Power	123,620	1,477,202	169,455	434,932	1,074	18,607
PUD No 1 of Clallam County/Dec 31						
Firm Power	—	—	538,484	14,993,620	—	—
Nonfirm Power	4,416	94,229	—	—	—	—
Total Power	4,416	94,229	538,484	14,993,620	—	—
PUD No 1 of Clark County/Dec 31						
Firm Power	2,209,035	59,203,305	1,554,836	48,070,912	—	—
Total Power	2,209,035	59,203,305	1,554,836	48,070,912	—	—
PUD No 1 of Cowlitz County/Dec 31						
Firm Power	—	—	3,023,494	71,171,934	—	—
Nonfirm Power	78,917	1,262,970	—	—	—	—
Total Power	78,917	1,262,970	3,023,494	71,171,934	—	—
PUD No 1 of Douglas County/Dec 31						
Nonfirm Power	24,025	5,865	24,468	117,521	—	—
Other Power	1,265	—	—	—	—	—
Total Power	25,290	5,865	24,468	117,521	—	—
PUD No 1 of Franklin County/Dec 31						
Firm Power	—	—	675,922	18,835,891	—	—
Other Power	—	—	—	—	—	—
Total Power	—	—	675,922	18,835,891	—	—
PUD No 1 of Grays Harbor Cnty/Dec 31						
Firm Power	—	—	225,760	9,097,376	—	—
Nonfirm Power	251,980	1,941,102	105,690	4,371,700	—	—
Total Power	251,980	1,941,102	331,450	13,469,076	—	—
PUD No 1 of Klickitat County/Dec 31						
Firm Power	—	—	304,000	8,097,039	—	—
Total Power	—	—	304,000	8,097,039	—	—
PUD No 1 of Lewis County/Dec 31						
Firm Power	—	—	791,890	19,262,604	—	—
Total Power	—	—	791,890	19,262,604	—	—
PUD No 1 of Okanogan County/Dec 31						
Firm Power	12,078	229,540	359,833	9,108,199	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	12,078	229,540	359,833	9,108,199	—	—
PUD No 1 of Pend Oreille Cnty/Dec 31						
Firm Power	—	—	247,724	6,596,804	—	—
Nonfirm Power	30,260	468,394	34,946	248,105	246,291	894,339
Total Power	30,260	468,394	282,670	6,844,909	246,291	894,339
PUD No 1 of Snohomish County/Dec 31						
Nonfirm Power	1,003,042	14,420,455	3,176,586	99,352,964	1,120,212	26,918,108
Total Power	1,003,042	14,420,455	3,176,586	99,352,964	1,120,212	26,918,108
PUD No 1 of Whatcom County/Dec 31						
Firm Power	—	—	177,465	4,624,287	—	—
Total Power	—	—	177,465	4,624,287	—	—

See notes and footnotes at end of table.

Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996
(Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Utah						
Utah Municipal Power Agency/June 30						
Firm Power	—	—	—	—	393,310	8,706,767
Nonfirm Power	800	10,858	—	—	98,475	1,048,199
Total Power	800	10,858	—	—	491,785	9,754,966
Vermont						
Vermont Public Pwr Supply Auth/Dec 31						
Firm Power	—	—	2,438	1,868,261	62,179	3,634,758
Nonfirm Power	—	—	9,377	137,740	16,107	401,119
Total Power	—	—	11,815	2,006,001	78,286	4,035,877
Virginia						
Virginia Tech Electric Service/June 30						
Firm Power	—	—	229,514	7,774,451	229,514	7,774,451
Total Power	—	—	229,514	7,774,451	229,514	7,774,451
Washington						
PUD No 1 of Benton County/Dec 31						
Firm Power	—	—	—	—	1,461,322	45,307,526
Nonfirm Power	—	—	78,640	752,888	99,085	1,010,948
Total Power	—	—	78,640	752,888	1,560,407	46,318,474
PUD No 1 of Chelan County/Dec 31						
Firm Power	—	—	493,913	5,931,819	631,092	7,862,560
Nonfirm Power	—	—	21,828	64,450	21,828	64,450
Other Power	—	—	1,267,455	—	1,424,425	—
Total Power	—	—	1,783,196	5,996,269	2,077,345	7,927,010
PUD No 1 of Clallam County/Dec 31						
Firm Power	—	—	—	—	538,484	14,993,620
Nonfirm Power	—	—	17,744	254,950	22,160	349,179
Total Power	—	—	17,744	254,950	560,644	15,342,799
PUD No 1 of Clark County/Dec 31						
Firm Power	—	—	107,864	2,278,020	3,871,735	109,552,237
Total Power	—	—	107,864	2,278,020	3,871,735	109,552,237
PUD No 1 of Cowlitz County/Dec 31						
Firm Power	—	—	—	—	3,023,494	71,171,934
Nonfirm Power	—	—	463,461	5,390,560	542,378	6,653,530
Total Power	—	—	463,461	5,390,560	3,565,872	77,825,464
PUD No 1 of Douglas County/Dec 31						
Nonfirm Power	—	—	219,773	1,217,715	268,266	1,341,101
Other Power	—	—	4,230	—	5,495	—
Total Power	—	—	224,003	1,217,715	273,761	1,341,101
PUD No 1 of Franklin County/Dec 31						
Firm Power	—	—	—	—	675,922	18,835,891
Other Power	—	—	30,899	—	30,899	—
Total Power	—	—	30,899	—	706,821	18,835,891
PUD No 1 of Grays Harbor Cnty/Dec 31						
Firm Power	—	—	—	—	225,760	9,097,376
Nonfirm Power	—	—	123,612	1,436,326	481,282	7,749,128
Total Power	—	—	123,612	1,436,326	707,042	16,846,504
PUD No 1 of Klickitat County/Dec 31						
Firm Power	—	—	—	—	304,000	8,097,039
Total Power	—	—	—	—	304,000	8,097,039
PUD No 1 of Lewis County/Dec 31						
Firm Power	—	—	3,412	622,684	795,302	19,885,288
Total Power	—	—	3,412	622,684	795,302	19,885,288
PUD No 1 of Okanogan County/Dec 31						
Firm Power	—	—	—	—	371,911	9,337,739
Nonfirm Power	—	—	293,727	2,525,690	293,727	2,525,690
Total Power	—	—	293,727	2,525,690	665,638	11,863,429
PUD No 1 of Pend Oreille Cnty/Dec 31						
Firm Power	—	—	—	—	247,724	6,596,804
Nonfirm Power	—	—	4,342	12,922	315,839	1,623,760
Total Power	—	—	4,342	12,922	563,563	8,220,564
PUD No 1 of Snohomish County/Dec 31						
Nonfirm Power	—	—	2,369,519	42,403,385	7,669,359	183,094,912
Total Power	—	—	2,369,519	42,403,385	7,669,359	183,094,912
PUD No 1 of Whatcom County/Dec 31						
Firm Power	—	—	—	—	177,465	4,624,287
Total Power	—	—	—	—	177,465	4,624,287

See notes and footnotes at end of table.

Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996
(Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		Municipal	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Washington						
PUD No 2 of Grant County/Dec 31						
Firm Power.....	—	—	212,075	5,941,018	—	—
Nonfirm Power.....	12,040	142,040	117,625	2,152,894	759	5,635
Total Power.....	12,040	142,040	329,700	8,093,912	759	5,635
PUD No 2 of Pacific County/Dec 31						
Firm Power.....	—	—	268,798	8,378,833	—	—
Nonfirm Power.....	—	—	—	—	—	—
Total Power.....	—	—	268,798	8,378,833	—	—
PUD No 3 of Mason County/Dec 31						
Firm Power.....	—	—	603,375	17,628,304	—	—
Total Power.....	—	—	603,375	17,628,304	—	—
Vera Irrigation District #15/Dec 31						
Firm Power.....	—	—	194,304	5,659,447	—	—
Nonfirm Power.....	—	—	—	—	—	—
Total Power.....	—	—	194,304	5,659,447	—	—
Wyoming						
Wyoming Municipal Pwr Agcy/Dec 31						
Firm Power.....	—	—	56,991	1,638,628	—	—
Total Power.....	—	—	56,991	1,638,628	—	—

See notes and footnotes at end of table.

Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1996
(Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Washington						
PUD No 2 of Grant County/Dec 31						
Firm Power.....	—	—	—	—	212,075	5,941,018
Nonfirm Power.....	1,098	43,636	189,915	3,821,825	321,437	6,166,030
Total Power.....	1,098	43,636	189,915	3,821,825	533,512	12,107,048
PUD No 2 of Pacific County/Dec 31						
Firm Power.....	—	—	—	—	268,798	8,378,833
Nonfirm Power.....	—	—	13,250	201,181	13,250	201,181
Total Power.....	—	—	13,250	201,181	282,048	8,580,014
PUD No 3 of Mason County/Dec 31						
Firm Power.....	—	—	—	—	603,375	17,628,304
Total Power.....	—	—	—	—	603,375	17,628,304
Vera Irrigation District #15/Dec 31						
Firm Power.....	—	—	—	—	194,304	5,659,447
Nonfirm Power.....	—	—	4,022	116,150	4,022	116,150
Total Power.....	—	—	4,022	116,150	198,326	5,775,597
Wyoming						
Wyoming Municipal Pwr Agcy/Dec 31						
Firm Power.....	—	—	—	—	56,991	1,638,628
Total Power.....	—	—	—	—	56,991	1,638,628

¹ Includes transactions with State and other government utilities, power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •For identification purposes, the public utilities are listed in the State in which the administrative office is located. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities," except where footnoted.

Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1996

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Investor-Owned		Federal		Municipal	
	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)
Alaska						
Alaska Energy Authority/June 30						
Nonfirm Power	—	—	—	—	216,237	8,962,066
Total Power	—	—	—	—	216,237	8,962,066
Arizona						
Arizona Power Authority/June 30						
Firm Power	—	—	45,360	577,402	26,856	547,010
Total Power	—	—	45,360	577,402	26,856	547,010
Salt River Proj Ag I & P Dist/Apr 30						
Firm Power	1,606,627	55,855,817	37,317	1,383,218	139,340	4,811,531
Nonfirm Power	1,070,549	14,882,899	905	18,738	201,693	2,576,817
Total Power	2,677,176	70,738,716	38,222	1,401,956	341,033	7,388,348
California						
California Dept-Wtr Resources/June 30						
Firm Power	135,345	9,272,308	—	—	486,389	7,085,998
Nonfirm Power	1,265,068	18,783,796	11,040	206,864	459,332	5,068,529
Total Power	1,400,413	28,056,104	11,040	206,864	945,721	12,154,527
Imperial Irrigation District/Dec 31						
Firm Power	12,380	526,672	—	—	—	—
Nonfirm Power	19,090	462,863	—	—	7,340	169,576
Total Power	31,470	989,535	—	—	7,340	169,576
Kings River Conservation Dist/June 30						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Merced Irrigation District/Dec 31						
Nonfirm Power	489,862	4,143,050	—	—	—	—
Total Power	489,862	4,143,050	—	—	—	—
Modesto Irrigation District/Dec 31						
Firm Power	16,098	326,661	—	—	—	—
Nonfirm Power	54,916	1,008,123	60	2,295	21,628	270,909
Total Power	71,014	1,334,784	60	2,295	21,628	270,909
MSR Public Power Agency/Dec 31						
Firm Power	—	—	—	—	790,913	48,247,571
Nonfirm Power	144,612	1,881,458	2,373	50,220	1,266	9,542
Total Power	144,612	1,881,458	2,373	50,220	792,179	48,257,113
Northern California Power Agny/June 30						
Nonfirm Power	46,209	455,215	1,558	19,766	2,951,433	174,119,224
Total Power	46,209	455,215	1,558	19,766	2,951,433	174,119,224
Oakdale & South San Joaquin/Dec 31						
Nonfirm Power	601,533	6,375,945	—	—	—	—
Total Power	601,533	6,375,945	—	—	—	—
Oroville-Wyandotte Irrig Dist/Dec 31						
Nonfirm Power	597,980	9,383,191	—	—	—	—
Total Power	597,980	9,383,191	—	—	—	—
Placer County Water Agency/Dec 31						
Nonfirm Power	1,449,203	8,168,637	—	—	—	—
Total Power	1,449,203	8,168,637	—	—	—	—
Sacramento Municipal Util Dist/Dec 31						
Nonfirm Power	88,393	1,058,161	1,405	17,537	32,245	410,011
Total Power	88,393	1,058,161	1,405	17,537	32,245	410,011
Southern California P P A/June 30						
Nonfirm Power	—	—	—	—	1,730,853	151,266,000
Total Power	—	—	—	—	1,730,853	151,266,000
Yuba County Water Agency/June 30						
Nonfirm Power	2,077,215	12,760,520	—	—	—	—
Total Power	2,077,215	12,760,520	—	—	—	—
Colorado						
Arkansas River Power Authority/Dec 31						
Firm Power	—	—	—	—	104,911	3,690,923
Nonfirm Power	—	—	—	—	181,298	6,083,866
Total Power	—	—	—	—	286,209	9,774,789
Platte River Power Authority/Dec 31						
Firm Power	875,681	49,938,528	—	—	2,132,722	73,998,801
Nonfirm Power	429,401	6,248,265	1,445	21,010	30	495
Total Power	1,305,082	56,186,793	1,445	21,010	2,132,752	73,999,296

See notes and footnotes at end of table.

Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1996
(Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Cooperative		Other ¹		Total	
	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)
Alaska						
Alaska Energy Authority/June 30						
Nonfirm Power	443,575	17,124,842	—	—	659,812	26,086,908
Total Power	443,575	17,124,842	—	—	659,812	26,086,908
Arizona						
Arizona Power Authority/June 30						
Firm Power	—	—	1,109,296	21,472,440	1,181,512	22,596,852
Total Power	—	—	1,109,296	21,472,440	1,181,512	22,596,852
Salt River Proj Ag I & P Dist/Apr 30						
Firm Power	—	—	367,216	7,946,898	2,150,500	69,997,464
Nonfirm Power	23,579	365,000	755,295	10,186,970	2,052,021	28,030,424
Total Power	23,579	365,000	1,122,511	18,133,868	4,202,521	98,027,888
California						
California Dept-Wtr Resources/June 30						
Firm Power	—	—	1,249,609	20,182,964	1,871,343	36,541,270
Nonfirm Power	—	—	706,475	7,123,312	2,441,915	31,182,501
Total Power	—	—	1,956,084	27,306,276	4,313,258	67,723,771
Imperial Irrigation District/Dec 31						
Firm Power	—	—	—	—	12,380	526,672
Nonfirm Power	—	—	34,249	671,354	60,679	1,303,793
Total Power	—	—	34,249	671,354	73,059	1,830,465
Kings River Conservation Dist/June 30						
Nonfirm Power	—	—	784,873	15,020,987	784,873	15,020,987
Total Power	—	—	784,873	15,020,987	784,873	15,020,987
Merced Irrigation District/Dec 31						
Nonfirm Power	—	—	—	—	489,862	4,143,050
Total Power	—	—	—	—	489,862	4,143,050
Modesto Irrigation District/Dec 31						
Firm Power	—	—	—	—	16,098	326,661
Nonfirm Power	—	—	385,395	5,252,856	461,999	6,534,183
Total Power	—	—	385,395	5,252,856	478,097	6,860,844
MSR Public Power Agency/Dec 31						
Firm Power	—	—	806,046	48,692,375	1,596,959	96,939,946
Nonfirm Power	720	7,840	329,084	3,883,470	478,055	5,832,530
Total Power	720	7,840	1,135,130	52,575,845	2,075,014	102,772,476
Northern California Power Agency/June 30						
Nonfirm Power	41,998	1,849,000	72,283	1,128,856	3,113,481	177,572,061
Total Power	41,998	1,849,000	72,283	1,128,856	3,113,481	177,572,061
Oakdale & South San Joaquin/Dec 31						
Nonfirm Power	—	—	—	—	601,533	6,375,945
Total Power	—	—	—	—	601,533	6,375,945
Oroville-Wyandotte Irrig Dist/Dec 31						
Nonfirm Power	—	—	—	—	597,980	9,383,191
Total Power	—	—	—	—	597,980	9,383,191
Placer County Water Agency/Dec 31						
Nonfirm Power	—	—	—	—	1,449,203	8,168,637
Total Power	—	—	—	—	1,449,203	8,168,637
Sacramento Municipal Util Dist/Dec 31						
Nonfirm Power	—	—	5,403	39,609	127,446	1,525,318
Total Power	—	—	5,403	39,609	127,446	1,525,318
Southern California P P A/June 30						
Nonfirm Power	—	—	307,949	34,316,000	2,038,802	185,582,000
Total Power	—	—	307,949	34,316,000	2,038,802	185,582,000
Yuba County Water Agency/June 30						
Nonfirm Power	—	—	—	—	2,077,215	12,760,520
Total Power	—	—	—	—	2,077,215	12,760,520
Colorado						
Arkansas River Power Authority/Dec 31						
Firm Power	—	—	—	—	104,911	3,690,923
Nonfirm Power	—	—	—	—	181,298	6,083,866
Total Power	—	—	—	—	286,209	9,774,789
Platte River Power Authority/Dec 31						
Firm Power	—	—	—	—	3,008,403	123,937,329
Nonfirm Power	199,101	2,127,150	276,154	3,632,663	906,131	12,029,583
Total Power	199,101	2,127,150	276,154	3,632,663	3,914,534	135,966,912

See notes and footnotes at end of table.

Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1996
(Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Investor-Owned		Federal		Municipal	
	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)
Georgia						
Municipal Electric Authority/Dec 31						
Firm Power	1,515,095	89,459,000	—	7,635,000	—	—
Nonfirm Power	170,909	3,818,000	—	—	249,407	5,217,000
Total Power	1,686,004	93,277,000	—	7,635,000	249,407	5,217,000
Indiana						
Indiana Municipal Power Agency/Dec 31						
Firm Power	—	—	—	—	4,504,310	167,809,545
Nonfirm Power	220,496	3,581,709	—	—	—	—
Total Power	220,496	3,581,709	—	—	4,504,310	167,809,545
Kansas						
Kansas Municipal Energy Agency/Dec 31						
Firm Power	31,946	523,786	—	—	165,723	6,382,675
Total Power	31,946	523,786	—	—	165,723	6,382,675
Louisiana						
Lafayette Public Power Auth/Oct 31						
Nonfirm Power	—	—	—	—	1,359,281	42,578,369
Total Power	—	—	—	—	1,359,281	42,578,369
Louisiana Energy & Power Auth/Dec 31						
Firm Power	—	—	—	—	1,235,982	50,774,953
Nonfirm Power	25	845	—	—	82,679	1,986,233
Total Power	25	845	—	—	1,318,661	52,761,186
Massachusetts						
Mun Wholes Elec Co/Dec 31						
Firm Power	34,643	2,359,874	—	—	2,549,950	231,570,209
Total Power	34,643	2,359,874	—	—	2,549,950	231,570,209
Michigan						
Michigan Public Power Agency/Dec 31						
Firm Power	64,848	1,347,523	—	—	2,558,123	89,301,743
Nonfirm Power	21,879	393,211	—	—	—	—
Total Power	86,727	1,740,734	—	—	2,558,123	89,301,743
Michigan South Central Pwr Agy/Jun 30						
Firm Power	—	—	—	—	483,476	25,985,888
Total Power	—	—	—	—	483,476	25,985,888
Minnesota						
Minnesota Municipal Power Agny						
Firm Power	—	—	—	—	756,407	27,043,711
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	756,407	27,043,711
Northern Municipal Power Agny/Dec 31						
Firm Power	—	—	—	—	446,082	13,132,916
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	446,082	13,132,916
Southern Minnesota Mun P Agny/Dec 31						
Firm Power	9,315	159,028	—	—	2,220,239	112,208,918
Nonfirm Power	75,720	1,079,400	3,656	46,608	2,279	28,580
Total Power	85,035	1,238,428	3,656	46,608	2,222,518	112,237,498
Nebraska						
Central Nebraska Pub P&I Dist/Dec 31						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Cornhusker Public Power Dist/Dec 31						
Nonfirm Power	—	—	—	—	3,598	48,321
Total Power	—	—	—	—	3,598	48,321
Dawson County Public Pwr Dist/Dec 31						
Firm Power	—	—	—	—	6,163	244,959
Total Power	—	—	—	—	6,163	244,959
Loup River Public Power Dist/Dec 31						
Firm Power	—	—	—	—	93,709	3,224,362
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	93,709	3,224,362
Municipal Energy Agency of NE/Mar 31						
Firm Power	—	—	101,361	2,347,413	845,630	26,653,262
Nonfirm Power	—	—	—	—	121,213	2,135,599
Total Power	—	—	101,361	2,347,413	966,843	28,788,861

See notes and footnotes at end of table.

Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1996
(Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Cooperative		Other ¹		Total	
	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)
Georgia						
Municipal Electric Authority/Dec 31						
Firm Power	—	—	8,162,088	384,020,000	9,677,183	481,114,000
Nonfirm Power	12,887	251,000	154,526	6,939,000	587,729	16,225,000
Total Power	12,887	251,000	8,316,614	390,959,000	10,264,912	497,339,000
Indiana						
Indiana Municipal Power Agency/Dec 31						
Firm Power	—	—	—	—	4,504,310	167,809,545
Nonfirm Power	—	—	—	—	220,496	3,581,709
Total Power	—	—	—	—	4,724,806	171,391,254
Kansas						
Kansas Municipal Energy Agency/Dec 31						
Firm Power	—	—	95,837	3,174,570	293,506	10,081,031
Total Power	—	—	95,837	3,174,570	293,506	10,081,031
Louisiana						
Lafayette Public Power Auth/Oct 31						
Nonfirm Power	—	—	—	—	1,359,281	42,578,369
Total Power	—	—	—	—	1,359,281	42,578,369
Louisiana Energy & Power Auth/Dec 31						
Firm Power	—	—	30,802	1,354,753	1,266,784	52,129,706
Nonfirm Power	—	—	317	9,569	83,021	1,996,647
Total Power	—	—	31,119	1,364,322	1,349,805	54,126,353
Massachusetts						
Mun Wholes Elec Co/Dec 31						
Firm Power	—	—	—	40,000	2,584,593	233,970,083
Total Power	—	—	—	40,000	2,584,593	233,970,083
Michigan						
Michigan Public Power Agency/Dec 31						
Firm Power	541,602	13,646,894	—	—	3,164,573	104,296,160
Nonfirm Power	—	—	17,419	177,366	39,298	570,577
Total Power	541,602	13,646,894	17,419	177,366	3,203,871	104,866,737
Michigan South Central Pwr Agy/Jun 30						
Firm Power	—	—	—	—	483,476	25,985,888
Total Power	—	—	—	—	483,476	25,985,888
Minnesota						
Minnesota Municipal Power Agny						
Firm Power	—	—	—	—	756,407	27,043,711
Nonfirm Power	14,195	344,957	—	—	14,195	344,957
Total Power	14,195	344,957	—	—	770,602	27,388,668
Northern Municipal Power Agny/Dec 31						
Firm Power	—	—	—	—	446,082	13,132,916
Nonfirm Power	363,600	25,652,295	—	—	363,600	25,652,295
Total Power	363,600	25,652,295	—	—	809,682	38,785,211
Southern Minnesota Mun P Agny/Dec 31						
Firm Power	—	—	240	32,879	2,229,794	112,400,825
Nonfirm Power	123,008	1,734,511	73,761	1,102,967	278,424	3,992,066
Total Power	123,008	1,734,511	74,001	1,135,846	2,508,218	116,392,891
Nebraska						
Central Nebraska Pub P&I Dist/Dec 31						
Nonfirm Power	—	—	440,025	11,604,205	440,025	11,604,205
Total Power	—	—	440,025	11,604,205	440,025	11,604,205
Cornhusker Public Power Dist/Dec 31						
Nonfirm Power	—	—	—	—	3,598	48,321
Total Power	—	—	—	—	3,598	48,321
Dawson County Public Pwr Dist/Dec 31						
Firm Power	—	—	—	—	6,163	244,959
Total Power	—	—	—	—	6,163	244,959
Loup River Public Power Dist/Dec 31						
Firm Power	232,669	7,695,358	—	—	326,378	10,919,720
Nonfirm Power	—	—	136,906	4,371,960	136,906	4,371,960
Total Power	232,669	7,695,358	136,906	4,371,960	463,284	15,291,680
Municipal Energy Agency of NE/Mar 31						
Firm Power	—	—	—	—	946,991	29,000,675
Nonfirm Power	—	—	5,830	120,883	127,043	2,256,482
Total Power	—	—	5,830	120,883	1,074,034	31,257,157

See notes and footnotes at end of table.

Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1996
(Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Investor-Owned		Federal		Municipal	
	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)
Nebraska						
Nebraska Public Power District/Dec 31						
Firm Power	3,169,695	92,409,900	—	—	1,484,686	53,803,222
Nonfirm Power	—	—	—	—	113,449	1,762,550
Total Power	3,169,695	92,409,900	—	—	1,598,135	55,565,772
Norris Public Power District/Dec 31						
Firm Power	—	—	—	—	14,103	536,011
Nonfirm Power	—	—	—	—	1,840	37,747
Total Power	—	—	—	—	15,943	573,758
Omaha Public Power District/Dec 31						
Firm Power	5,757	1,792,927	—	—	43,290	2,281,135
Nonfirm Power	—	—	—	—	—	—
Total Power	5,757	1,792,927	—	—	43,290	2,281,135
Nevada						
Colorado River Comm of Nevada/Jun 30						
Firm Power	548,940	7,927,385	—	—	38,111	697,368
Total Power	548,940	7,927,385	—	—	38,111	697,368
Overton Power District No 5/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
New York						
Power Authority of State of NY/Dec 31						
Firm Power	16,008,575	359,836,000	—	—	5,225,760	91,134,000
Nonfirm Power	2,852,883	53,561,000	—	—	325,325	2,450,000
Total Power	18,861,458	413,397,000	—	—	5,551,085	93,584,000
Oklahoma						
Grand River Dam Authority/Dec 31						
Firm Power	—	—	—	—	2,370,646	74,206,951
Nonfirm Power	51,125	988,475	—	—	87,340	1,893,181
Total Power	51,125	988,475	—	—	2,457,986	76,100,132
Oklahoma Municipal Power Auth/Dec 31						
Firm Power	—	—	—	—	1,763,199	76,360,095
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	1,763,199	76,360,095
Oregon						
Northern Wasco County P U D/Dec 31						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
South Carolina						
South Carolina Pub Serv Auth/Dec 31						
Firm Power	—	—	4,376	791,531	375,697	21,720,238
Nonfirm Power	127,025	2,948,556	—	—	4,521	112,420
Other Power	—	—	—	—	—	—
Total Power	127,025	2,948,556	4,376	791,531	380,218	21,832,658
South Dakota						
Heartland Consumers Power Dist/Dec 31						
Firm Power	—	—	—	—	331,482	10,763,428
Nonfirm Power	8,483	125,686	135,388	1,547,504	—	—
Total Power	8,483	125,686	135,388	1,547,504	331,482	10,763,428
Missouri Basin Mun Power Agny/Dec 31						
Firm Power	—	—	—	—	1,232,620	50,278,287
Nonfirm Power	352,567	4,581,058	422	6,330	23,176	305,194
Total Power	352,567	4,581,058	422	6,330	1,255,796	50,583,481
Texas						
Lower Colorado River Authority/Jun 30						
Firm Power	—	—	—	—	3,419,527	142,329,238
Total Power	—	—	—	—	3,419,527	142,329,238
Sam Rayburn Mun Pwr Agny/Sep 30						
Firm Power	—	—	—	—	348,792	26,528,499
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	348,792	26,528,499
Toledo Bend Project Joint Oper/Aug 31						
Nonfirm Power	15,858	320,552	—	—	—	—
Total Power	15,858	320,552	—	—	—	—
Utah						
Utah Associated Mun Power Sys/Mar 31						
Nonfirm Power	44,668	1,251,006	—	—	1,499,087	51,037,357

See notes and footnotes at end of table.

Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1996
(Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Cooperative		Other ¹		Total	
	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)
Nebraska						
Nebraska Public Power District/Dec 31						
Firm Power	—	—	—	—	4,654,381	146,213,122
Nonfirm Power	—	—	—	—	113,449	1,762,550
Total Power	—	—	—	—	4,767,830	147,975,672
Norris Public Power District/Dec 31						
Firm Power	—	—	—	—	14,103	536,011
Nonfirm Power	—	—	—	—	1,840	37,747
Total Power	—	—	—	—	15,943	573,758
Omaha Public Power District/Dec 31						
Firm Power	—	—	16,214	798,437	65,261	4,872,499
Nonfirm Power	—	—	108,334	1,603,108	108,334	1,603,108
Total Power	—	—	124,548	2,401,545	173,595	6,475,607
Nevada						
Colorado River Comm of Nevada/Jun 30						
Firm Power	138,890	2,200,457	198,481	2,502,215	924,422	13,327,425
Total Power	138,890	2,200,457	198,481	2,502,215	924,422	13,327,425
Overton Power District No 5/Dec 31						
Firm Power	12,764	454,790	—	—	12,764	454,790
Total Power	12,764	454,790	—	—	12,764	454,790
New York						
Power Authority of State of NY/Dec 31						
Firm Power	563,581	8,162,000	786,287	14,861,000	22,584,203	473,993,000
Nonfirm Power	73,409	365,000	1,719,359	42,968,000	4,970,976	99,344,000
Total Power	636,990	8,527,000	2,505,646	57,829,000	27,555,179	573,337,000
Oklahoma						
Grand River Dam Authority/Dec 31						
Firm Power	1,736,648	65,289,782	8,365	212,665	4,115,659	139,709,398
Nonfirm Power	91,570	2,257,195	265,115	6,879,291	495,150	12,018,142
Total Power	1,828,218	67,546,977	273,480	7,091,956	4,610,809	151,727,540
Oklahoma Municipal Power Auth/Dec 31						
Firm Power	—	—	—	—	1,763,199	76,360,095
Nonfirm Power	—	—	79,419	1,587,930	79,419	1,587,930
Total Power	—	—	79,419	1,587,930	1,842,618	77,948,025
Oregon						
Northern Wasco County P U D/Dec 31						
Nonfirm Power	—	—	41,431	1,924,744	41,431	1,924,744
Total Power	—	—	41,431	1,924,744	41,431	1,924,744
South Carolina						
South Carolina Pub Serv Auth/Dec 31						
Firm Power	8,122,932	314,404,298	213,150	5,400,402	8,716,155	342,316,469
Nonfirm Power	167,778	3,275,274	318,049	7,199,490	617,373	13,535,740
Other Power	—	—	2,370	—	2,370	—
Total Power	8,290,710	317,679,572	533,569	12,599,892	9,335,898	355,852,209
South Dakota						
Heartland Consumers Power Dist/Dec 31						
Firm Power	—	—	—	—	331,482	10,763,428
Nonfirm Power	210	2,475	9,382	123,278	153,463	1,798,943
Total Power	210	2,475	9,382	123,278	484,945	12,562,371
Missouri Basin Mun Power Agny/Dec 31						
Firm Power	—	—	—	—	1,232,620	50,278,287
Nonfirm Power	269,989	3,747,469	108,716	2,878,378	754,870	11,518,429
Total Power	269,989	3,747,469	108,716	2,878,378	1,987,490	61,796,716
Texas						
Lower Colorado River Authority/Jun 30						
Firm Power	—	—	—	—	3,419,527	142,329,238
Total Power	—	—	—	—	3,419,527	142,329,238
Sam Rayburn Mun Pwr Agny/Sep 30						
Firm Power	—	—	—	—	348,792	26,528,499
Nonfirm Power	—	—	204,238	4,821,673	204,238	4,821,673
Total Power	—	—	204,238	4,821,673	553,030	31,350,172
Toledo Bend Project Joint Oper/Aug 31						
Nonfirm Power	—	—	15,859	320,553	31,717	641,105
Total Power	—	—	15,859	320,553	31,717	641,105
Utah						
Utah Associated Mun Power Sys/Mar 31						
Nonfirm Power	—	—	20,591	613,211	1,564,346	52,901,574

See notes and footnotes at end of table.

Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1996
(Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Investor-Owned		Federal		Municipal	
	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)
Utah						
Utah Associated Mun Power Sys/Mar 31						
Other Power.....	—	—	—	—	—	—
Total Power.....	44,668	1,251,006	—	—	1,499,087	51,037,357
Utah Municipal Power Agency/Jun 30						
Firm Power.....	—	—	—	—	791,109	31,881,020
Nonfirm Power.....	11,757	157,956	333	4,662	31,412	375,648
Total Power.....	11,757	157,956	333	4,662	822,521	32,256,668
Vermont						
Vermont Public Pwr Supply Auth/Dec 31						
Firm Power.....	—	—	—	—	100,649	6,646,322
Nonfirm Power.....	—	—	—	—	—	—
Total Power.....	—	—	—	—	100,649	6,646,322
Washington						
PUD No 1 of Benton County/Dec 31						
Nonfirm Power.....	12,160	208,140	—	—	—	—
Total Power.....	12,160	208,140	—	—	—	—
PUD No 1 of Chelan County/Dec 31						
Firm Power.....	407,332	3,409,651	30	720	—	—
Nonfirm Power.....	8,040,937	80,275,331	—	—	60,750	802,140
Total Power.....	8,448,269	83,684,982	30	720	60,750	802,140
PUD No 1 of Cowlitz County/Dec 31						
Nonfirm Power.....	9,327	590,174	—	—	—	—
Total Power.....	9,327	590,174	—	—	—	—
PUD No 1 of Douglas County/Dec 31						
Nonfirm Power.....	4,081,590	26,372,592	—	—	22,929	327,128
Total Power.....	4,081,590	26,372,592	—	—	22,929	327,128
PUD No 1 of Grays Harbor Cnty/Dec 31						
Nonfirm Power.....	11,964	148,073	—	—	—	—
Total Power.....	11,964	148,073	—	—	—	—
PUD No 1 of Pend Oreille Cnty/Dec 31						
Nonfirm Power.....	3,285	47,819	—	—	107,499	826,139
Total Power.....	3,285	47,819	—	—	107,499	826,139
PUD No 1 of Snohomish County/Dec 31						
Nonfirm Power.....	612,992	9,344,705	—	—	56,648	889,600
Total Power.....	612,992	9,344,705	—	—	56,648	889,600
PUD No 2 of Grant County/Dec 31						
Nonfirm Power.....	5,641,799	31,396,687	2,525	28,205	1,305,236	6,080,946
Total Power.....	5,641,799	31,396,687	2,525	28,205	1,305,236	6,080,946
PUD No 3 of Mason County/Dec 31						
Nonfirm Power.....	—	—	—	—	—	—
Total Power.....	—	—	—	—	—	—
Washington Pub Pwr Supply Sys/Jun 30						
Firm Power.....	—	—	—	—	—	—
Nonfirm Power.....	—	—	5,944,404	381,636,001	—	—
Other Power.....	—	—	1,831,103	—	—	—
Total Power.....	—	—	7,775,507	381,636,001	—	—
Wyoming						
Wyoming Municipal Pwr Agcy/Dec 31						
Firm Power.....	—	—	—	—	195,269	5,816,518
Nonfirm Power.....	—	—	—	—	—	—
Total Power.....	—	—	—	—	195,269	5,816,518

See notes and footnotes at end of table.

**Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1996
(Continued)**

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Cooperative		Other ¹		Total	
	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)	Sales for Resale (thousand kWh)	Revenue (dollars)
Utah						
Utah Associated Mun Power Sys/Mar 31						
Other Power.....	—	—	74,879	—	74,879	—
Total Power.....	—	—	95,470	613,211	1,639,225	52,901,574
Utah Municipal Power Agency/Jun 30						
Firm Power.....	—	—	—	—	791,109	31,881,020
Nonfirm Power.....	34	459	732	16,099	44,268	554,824
Total Power.....	34	459	732	16,099	835,377	32,435,844
Vermont						
Vermont Public Pwr Supply Auth/Dec 31						
Firm Power.....	2,548	447,100	—	1,784,988	103,197	8,878,410
Nonfirm Power.....	—	—	415	10,171	415	10,171
Total Power.....	2,548	447,100	415	1,795,159	103,612	8,888,581
Washington						
PUD No 1 of Benton County/Dec 31						
Nonfirm Power.....	—	—	50	1,350	12,210	209,490
Total Power.....	—	—	50	1,350	12,210	209,490
PUD No 1 of Chelan County/Dec 31						
Firm Power.....	—	—	918,798	9,998,876	1,326,160	13,409,247
Nonfirm Power.....	—	—	1,850,686	17,164,895	9,952,373	98,242,366
Total Power.....	—	—	2,769,484	27,163,771	11,278,533	111,651,613
PUD No 1 of Cowlitz County/Dec 31						
Nonfirm Power.....	—	—	1,912	63,902	11,239	654,076
Total Power.....	—	—	1,912	63,902	11,239	654,076
PUD No 1 of Douglas County/Dec 31						
Nonfirm Power.....	—	—	412,961	2,105,974	4,517,480	28,805,694
Total Power.....	—	—	412,961	2,105,974	4,517,480	28,805,694
PUD No 1 of Grays Harbor Cnty/Dec 31						
Nonfirm Power.....	—	—	32	2,430	11,996	150,503
Total Power.....	—	—	32	2,430	11,996	150,503
PUD No 1 of Pend Oreille Cnty/Dec 31						
Nonfirm Power.....	—	—	—	—	110,784	873,958
Total Power.....	—	—	—	—	110,784	873,958
PUD No 1 of Snohomish County/Dec 31						
Nonfirm Power.....	224	2,352	620,702	8,984,762	1,290,566	19,221,419
Total Power.....	224	2,352	620,702	8,984,762	1,290,566	19,221,419
PUD No 2 of Grant County/Dec 31						
Nonfirm Power.....	—	—	1,532,508	9,246,178	8,482,068	46,752,016
Total Power.....	—	—	1,532,508	9,246,178	8,482,068	46,752,016
PUD No 3 of Mason County/Dec 31						
Nonfirm Power.....	—	—	3,579	106,068	3,579	106,068
Total Power.....	—	—	3,579	106,068	3,579	106,068
Washington Pub Pwr Supply Sys/Jun 30						
Firm Power.....	—	—	4,695	2,754,203	4,695	2,754,203
Nonfirm Power.....	—	—	38,646	835,205	5,983,050	382,471,206
Other Power.....	—	—	—	—	1,831,103	—
Total Power.....	—	—	43,341	3,589,408	7,818,848	385,225,409
Wyoming						
Wyoming Municipal Pwr Agcy/Dec 31						
Firm Power.....	—	—	—	—	195,269	5,816,518
Nonfirm Power.....	11,578	139,527	—	—	11,578	139,527
Total Power.....	11,578	139,527	—	—	206,847	5,956,045

¹ Includes transactions with State and other government utilities, power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •For identification purposes, the public utilities are listed in the State in which the administrative office is located. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities," except where footnoted.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Alabama						
Alabama Municipal Elec Auth/Sep 30						
Firm Power	2,395,460	72,105,612	—	—	—	—
Nonfirm Power	—	—	—	—	56,232	802,935
Total Power	2,395,460	72,105,612	—	—	56,232	802,935
Albertville Municipal Utils Bd/Jun 30						
Firm Power	—	—	485,045	18,724,645	—	—
Total Power	—	—	485,045	18,724,645	—	—
Andalusia City of/Sep 30						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Athens City of/Dec 31						
Firm Power	—	—	798,708	35,371,316	—	—
Total Power	—	—	798,708	35,371,316	—	—
Bessemer City of/Jun 30						
Firm Power	—	—	320,104	14,641,345	—	—
Total Power	—	—	320,104	14,641,345	—	—
Cullman Power Board/Jun 30						
Firm Power	—	—	343,100	15,344,655	—	—
Total Power	—	—	343,100	15,344,655	—	—
Decatur City of/Jun 30						
Firm Power	—	—	1,568,525	58,327,450	—	—
Total Power	—	—	1,568,525	58,327,450	—	—
Dothan City of/Sep 30						
Firm Power	—	—	96,433	3,295,774	—	—
Total Power	—	—	96,433	3,295,774	—	—
Florence City of/Jun 30						
Firm Power	—	—	1,183,380	53,168,698	—	—
Total Power	—	—	1,183,380	53,168,698	—	—
Foley City of (Riviera Utils/Dec 31						
Firm Power	—	—	36,540	1,321,259	—	—
Total Power	—	—	36,540	1,321,259	—	—
Fort Payne Improvement Auth/Jun 30						
Firm Power	—	—	356,684	16,094,610	—	—
Total Power	—	—	356,684	16,094,610	—	—
Guntersville Electric Board/Jun 30						
Firm Power	—	—	251,916	10,853,032	—	—
Total Power	—	—	251,916	10,853,032	—	—
Huntsville City of/Sep 30						
Firm Power	—	—	4,295,381	186,878,348	—	—
Total Power	—	—	4,295,381	186,878,348	—	—
Opelika City of/Sep 30						
Firm Power	—	—	35,870	1,314,810	—	—
Total Power	—	—	35,870	1,314,810	—	—
Scottsboro City of/Jun 30						
Firm Power	—	—	395,731	15,754,882	—	—
Total Power	—	—	395,731	15,754,882	—	—
Sheffield Utilities/Jun 30						
Firm Power	—	—	458,495	20,355,241	—	—
Total Power	—	—	458,495	20,355,241	—	—
Sylacauga Utilities Board/Sep 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Alaska						
Anchorage City of/Dec 31						
Nonfirm Power	—	—	74,683	1,423,342	90,333	3,372,054
Total Power	—	—	74,683	1,423,342	90,333	3,372,054
Fairbanks City of/Dec 31						
Nonfirm Power	—	—	—	—	—	93,591
Total Power	—	—	—	—	—	93,591
Ketchikan City of/Dec 31						
Firm Power	—	—	—	—	64,090	4,204,066
Total Power	—	—	—	—	64,090	4,204,066
Arizona						
Mesa City of/Jun 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Arkansas						
Benton City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Alabama						
Alabama Municipal Elec Auth/Sep 30						
Firm Power	—	—	—	—	2,395,460	72,105,612
Nonfirm Power	—	—	183,032	2,553,863	239,264	3,356,798
Total Power	—	—	183,032	2,553,863	2,634,724	75,462,410
Albertville Municipal Utils Bd/Jun 30						
Firm Power	—	—	—	—	485,045	18,724,645
Total Power	—	—	—	—	485,045	18,724,645
Andalusia City of/Sep 30						
Nonfirm Power	337,831	11,492,822	—	—	337,831	11,492,822
Total Power	337,831	11,492,822	—	—	337,831	11,492,822
Athens City of/Dec 31						
Firm Power	—	—	—	—	798,708	35,371,316
Total Power	—	—	—	—	798,708	35,371,316
Bessemer City of/Jun 30						
Firm Power	—	—	—	—	320,104	14,641,345
Total Power	—	—	—	—	320,104	14,641,345
Cullman Power Board/Jun 30						
Firm Power	—	—	—	—	343,100	15,344,655
Total Power	—	—	—	—	343,100	15,344,655
Decatur City of/Jun 30						
Firm Power	—	—	—	—	1,568,525	58,327,450
Total Power	—	—	—	—	1,568,525	58,327,450
Dothan City of/Sep 30						
Firm Power	—	—	994,245	37,379,585	1,090,678	40,675,359
Total Power	—	—	994,245	37,379,585	1,090,678	40,675,359
Florence City of/Jun 30						
Firm Power	—	—	—	—	1,183,380	53,168,698
Total Power	—	—	—	—	1,183,380	53,168,698
Foley City of (Riviera Utils/Dec 31						
Firm Power	—	—	581,821	25,617,938	618,361	26,939,197
Total Power	—	—	581,821	25,617,938	618,361	26,939,197
Fort Payne Improvement Auth/Jun 30						
Firm Power	—	—	—	—	356,684	16,094,610
Total Power	—	—	—	—	356,684	16,094,610
Guntersville Electric Board/Jun 30						
Firm Power	—	—	—	—	251,916	10,853,032
Total Power	—	—	—	—	251,916	10,853,032
Huntsville City of/Sep 30						
Firm Power	—	—	—	—	4,295,381	186,878,348
Total Power	—	—	—	—	4,295,381	186,878,348
Opelika City of/Sep 30						
Firm Power	—	—	309,891	12,328,782	345,761	13,643,592
Total Power	—	—	309,891	12,328,782	345,761	13,643,592
Scottsboro City of/Jun 30						
Firm Power	—	—	—	—	395,731	15,754,882
Total Power	—	—	—	—	395,731	15,754,882
Sheffield Utilities/Jun 30						
Firm Power	—	—	—	—	458,495	20,355,241
Total Power	—	—	—	—	458,495	20,355,241
Sylacauga Utilities Board/Sep 30						
Firm Power	—	—	157,464	5,634,215	157,464	5,634,215
Total Power	—	—	157,464	5,634,215	157,464	5,634,215
Alaska						
Anchorage City of/Dec 31						
Nonfirm Power	96	3,907	—	—	165,112	4,799,303
Total Power	96	3,907	—	—	165,112	4,799,303
Fairbanks City of/Dec 31						
Nonfirm Power	43,474	1,618,859	12,198	253,633	55,672	1,966,083
Total Power	43,474	1,618,859	12,198	253,633	55,672	1,966,083
Ketchikan City of/Dec 31						
Firm Power	—	—	1,346	102,306	65,436	4,306,372
Total Power	—	—	1,346	102,306	65,436	4,306,372
Arizona						
Mesa City of/Jun 30						
Firm Power	—	—	355,977	14,166,318	355,977	14,166,318
Total Power	—	—	355,977	14,166,318	355,977	14,166,318
Arkansas						
Benton City of/Dec 31						
Firm Power	—	—	187,449	8,631,369	187,449	8,631,369
Total Power	—	—	187,449	8,631,369	187,449	8,631,369

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Arkansas						
Bentonville City of/Dec 31						
Firm Power	220,157	7,494,223	51,121	767,322	—	—
Total Power	220,157	7,494,223	51,121	767,322	—	—
Clarksville Light & Water Co/Sep 30						
Firm Power	—	—	24,216	723,460	—	—
Total Power	—	—	24,216	723,460	—	—
Conway Corp/Dec 31						
Firm Power	312,196	11,225,568	—	—	—	—
Total Power	312,196	11,225,568	—	—	—	—
Hope City of/Dec 31						
Firm Power	536,736	18,174,224	—	—	—	—
Total Power	536,736	18,174,224	—	—	—	—
Jonesboro City of/Dec 31						
Firm Power	—	171,000	96,000	2,726,400	—	—
Nonfirm Power	231,048	3,583,045	154,916	805,563	3,750	77,256
Total Power	231,048	3,754,045	250,916	3,531,963	3,750	77,256
North Little Rock City of/Dec 31						
Nonfirm Power	910,000	31,312,778	—	—	—	—
Total Power	910,000	31,312,778	—	—	—	—
Osceola City of/Dec 31						
Firm Power	218,870	5,438,338	—	—	—	—
Total Power	218,870	5,438,338	—	—	—	—
Paragould Light & Water Comm/Dec 31						
Firm Power	—	—	149,901	2,511,252	223,703	5,965,786
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	149,901	2,511,252	223,703	5,965,786
Siloam Springs City of/Dec 31						
Firm Power	—	—	—	—	213,724	6,960,585
Total Power	—	—	—	—	213,724	6,960,585
West Memphis City of/Dec 31						
Firm Power	192,369	12,534,188	—	—	—	—
Total Power	192,369	12,534,188	—	—	—	—
California						
Alameda City of/Jun 30						
Firm Power	—	—	53,342	1,466,245	394,628	26,790,666
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	53,342	1,466,245	394,628	26,790,666
Anaheim City of/Jun 30						
Firm Power	91,647	6,739,853	—	718,800	—	—
Nonfirm Power	342,699	3,524,543	56,163	480,075	55,250	628,220
Total Power	434,346	10,264,396	56,163	1,198,875	55,250	628,220
Azusa City of/Jun 30						
Firm Power	29,249	1,363,582	—	—	238,997	9,134,667
Nonfirm Power	18,630	472,542	31,200	553,800	—	—
Total Power	47,879	1,836,124	31,200	553,800	238,997	9,134,667
Burbank City of/Jun 30						
Firm Power	21,957	2,159,153	169,555	4,412,257	73,781	5,704,436
Nonfirm Power	29,598	385,619	160,214	4,335,738	11,514	146,816
Total Power	51,555	2,544,772	329,769	8,747,995	85,295	5,851,252
Colton City of/Jun 30						
Firm Power	61,483	3,489,610	4,237	147,845	195,272	8,453,147
Nonfirm Power	17,347	647,909	—	—	—	—
Total Power	78,830	4,137,519	4,237	147,845	195,272	8,453,147
Glendale City of/Jun 30						
Firm Power	—	—	383,068	7,763,000	—	—
Nonfirm Power	141,481	4,075,000	670	8,000	245,324	11,159,000
Total Power	141,481	4,075,000	383,738	7,771,000	245,324	11,159,000
Lassen Municipal Utility Dist/Jun 30						
Firm Power	7,519	2,898,623	36,755	961,971	—	—
Nonfirm Power	23,415	599,695	9,726	112,374	50,982	305,642
Total Power	30,934	3,498,318	46,481	1,074,345	50,982	305,642
Lodi City of/Jun 30						
Firm Power	—	—	49,431	1,144,723	326,245	25,021,001
Total Power	—	—	49,431	1,144,723	326,245	25,021,001
Los Angeles City of/Jun 30						
Firm Power	921,012	63,820,124	—	—	1,121,093	93,538,717
Nonfirm Power	898,070	16,515,402	1,899,612	39,771,467	173,583	51,275,171
Other Power	—	—	—	—	—	—
Total Power	1,819,082	80,335,526	1,899,612	39,771,467	1,294,676	144,813,888

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Arkansas						
Bentonville City of/Dec 31						
Firm Power	—	—	—	—	271,278	8,261,545
Total Power	—	—	—	—	271,278	8,261,545
Clarksville Light & Water Co/Sep 30						
Firm Power	194,220	5,810,124	—	—	218,436	6,533,584
Total Power	194,220	5,810,124	—	—	218,436	6,533,584
Conway Corp/Dec 31						
Firm Power	—	—	—	—	312,196	11,225,568
Total Power	—	—	—	—	312,196	11,225,568
Hope City of/Dec 31						
Firm Power	—	—	—	—	536,736	18,174,224
Total Power	—	—	—	—	536,736	18,174,224
Jonesboro City of/Dec 31						
Firm Power	—	—	13,255	341,218	109,255	3,238,618
Nonfirm Power	19,812	273,142	331,873	5,312,087	741,399	10,051,093
Total Power	19,812	273,142	345,128	5,653,305	850,654	13,289,711
North Little Rock City of/Dec 31						
Nonfirm Power	—	—	—	—	910,000	31,312,778
Total Power	—	—	—	—	910,000	31,312,778
Osceola City of/Dec 31						
Firm Power	—	—	—	—	218,870	5,438,338
Total Power	—	—	—	—	218,870	5,438,338
Paragould Light & Water Comm/Dec 31						
Firm Power	—	—	—	—	373,604	8,477,038
Nonfirm Power	2,588	79,304	80,250	1,593,360	82,838	1,672,664
Total Power	2,588	79,304	80,250	1,593,360	456,442	10,149,702
Siloam Springs City of/Dec 31						
Firm Power	—	—	—	—	213,724	6,960,585
Total Power	—	—	—	—	213,724	6,960,585
West Memphis City of/Dec 31						
Firm Power	—	—	—	—	192,369	12,534,188
Total Power	—	—	—	—	192,369	12,534,188
California						
Alameda City of/Jun 30						
Firm Power	—	—	—	—	447,970	28,256,911
Nonfirm Power	—	—	—	571,583	—	571,583
Total Power	—	—	—	571,583	447,970	28,828,494
Anaheim City of/Jun 30						
Firm Power	50,061	7,583,836	1,018,452	79,902,652	1,160,160	94,945,141
Nonfirm Power	129,360	1,820,895	229,478	26,440,282	812,950	32,894,015
Total Power	179,421	9,404,731	1,247,930	106,342,934	1,973,110	127,839,156
Azusa City of/Jun 30						
Firm Power	—	—	—	1,481,880	268,246	11,980,129
Nonfirm Power	—	—	91,339	1,388,100	141,169	2,414,442
Total Power	—	—	91,339	2,869,980	409,415	14,394,571
Burbank City of/Jun 30						
Firm Power	2,246	37,742	440,887	26,882,496	708,426	39,196,084
Nonfirm Power	37,619	529,837	30,798	376,718	269,743	5,774,728
Total Power	39,865	567,579	471,685	27,259,214	978,169	44,970,812
Colton City of/Jun 30						
Firm Power	—	—	384	1,767,585	261,376	13,858,187
Nonfirm Power	—	—	108,138	1,239,067	125,485	1,886,976
Total Power	—	—	108,522	3,006,652	386,861	15,745,163
Glendale City of/Jun 30						
Firm Power	—	—	—	—	383,068	7,763,000
Nonfirm Power	20,032	270,000	262,735	15,174,000	670,242	30,686,000
Total Power	20,032	270,000	262,735	15,174,000	1,053,310	38,449,000
Lassen Municipal Utility Dist/Jun 30						
Firm Power	—	—	—	—	44,274	3,860,594
Nonfirm Power	—	—	37,459	435,782	121,582	1,453,493
Total Power	—	—	37,459	435,782	165,856	5,314,087
Lodi City of/Jun 30						
Firm Power	—	—	—	—	375,676	26,165,724
Total Power	—	—	—	—	375,676	26,165,724
Los Angeles City of/Jun 30						
Firm Power	—	—	—	—	2,042,105	157,358,841
Nonfirm Power	438,064	16,932,075	7,136,743	427,110,381	10,546,072	551,604,496
Other Power	—	—	490,957	—	490,957	—
Total Power	438,064	16,932,075	7,627,700	427,110,381	13,079,134	708,963,337

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
California						
Palo Alto City of/Jun 30						
Firm Power	—	—	683,116	13,808,000	393,231	10,048,000
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	683,116	13,808,000	393,231	10,048,000
Pasadena City of/Jun 30						
Firm Power	—	—	222,344	3,471,433	73,966	5,698,524
Nonfirm Power	62,236	832,485	58,047	513,781	55,162	5,552,885
Total Power	62,236	832,485	280,391	3,985,214	129,128	11,251,409
Redding City of/Jun 30						
Firm Power	588,883	20,055,954	432,628	10,704,704	65,700	3,455,990
Nonfirm Power	33,997	507,715	8,444	103,692	167,341	3,790,952
Total Power	622,880	20,563,669	441,072	10,808,396	233,041	7,246,942
Riverside City of/Jun 30						
Firm Power	170,017	11,467,531	39,785	1,734,335	102,902	8,392,020
Nonfirm Power	131,563	1,688,591	66,355	616,635	168,440	1,731,266
Total Power	301,580	13,156,122	106,140	2,350,970	271,342	10,123,286
Roseville City of/Jun 30						
Nonfirm Power	—	—	361,473	7,997,842	321,127	20,922,689
Total Power	—	—	361,473	7,997,842	321,127	20,922,689
San Francisco City & County of/Jun 30						
Firm Power	141	12,143,539	—	—	—	—
Nonfirm Power	8,646	147,193	44,181	480,004	206,627	3,935,333
Total Power	8,787	12,290,732	44,181	480,004	206,627	3,935,333
Santa Clara City of/Jun 30						
Firm Power	153,754	13,908,004	153,300	8,051,800	—	—
Nonfirm Power	101,291	1,060,028	166,132	1,607,989	114,351	1,265,738
Other Power	—	—	—	—	978,666	—
Total Power	255,045	14,968,032	319,432	9,659,789	1,093,017	1,265,738
Turlock Irrigation Dist/Dec 31						
Firm Power	35,596	3,632,993	17,766	356,925	181,844	20,647,330
Nonfirm Power	117,835	1,456,924	23,239	295,208	13,252	186,847
Total Power	153,431	5,089,917	41,005	652,133	195,096	20,834,177
Vernon City of/Jun 30						
Firm Power	136,575	3,353,835	28,645	478,054	351,240	7,889,784
Nonfirm Power	14,319	208,336	99,079	1,075,117	215,183	2,438,331
Total Power	150,894	3,562,171	127,724	1,553,171	566,423	10,328,115
Colorado						
Colorado Springs City of/Dec 31						
Firm Power	—	—	376,041	7,674,473	—	—
Nonfirm Power	118,264	2,497,364	122,441	1,736,167	1,190	30,198
Total Power	118,264	2,497,364	498,482	9,410,640	1,190	30,198
Fort Collins City of/Dec 31						
Firm Power	—	—	—	—	1,042,109	36,631,507
Total Power	—	—	—	—	1,042,109	36,631,507
Fort Morgan City of/Dec 31						
Firm Power	—	—	76,926	2,024,315	—	—
Nonfirm Power	—	—	—	—	115,184	2,624,977
Total Power	—	—	76,926	2,024,315	115,184	2,624,977
Longmont City of/Dec 31						
Firm Power	—	—	—	—	535,939	18,789,239
Total Power	—	—	—	—	535,939	18,789,239
Loveland City of/Dec 31						
Firm Power	—	—	—	—	450,971	15,230,634
Total Power	—	—	—	—	450,971	15,230,634
Connecticut						
Mun Electric Engy Coop/Dec 31						
Firm Power	1,123,454	58,263,459	—	—	—	—
Nonfirm Power	619,681	22,393,603	—	—	89,046	1,235,539
Total Power	1,743,135	80,657,062	—	—	89,046	1,235,539
Groton City of/Jun 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Norwich City of/Jun 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Wallingford Town of/Jun 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
California						
Palo Alto City of/Jun 30						
Firm Power	—	—	—	—	1,076,347	23,856,000
Nonfirm Power	—	—	25,460	636,000	25,460	636,000
Total Power	—	—	25,460	636,000	1,101,807	24,492,000
Pasadena City of/Jun 30						
Firm Power	—	—	500,469	37,022,600	796,779	46,192,557
Nonfirm Power	19,012	248,898	78,391	3,214,156	272,848	10,362,205
Total Power	19,012	248,898	578,860	40,236,756	1,069,627	56,554,762
Redding City of/Jun 30						
Firm Power	—	—	—	—	1,087,211	34,216,648
Nonfirm Power	—	—	19,845	280,477	229,627	4,682,836
Total Power	—	—	19,845	280,477	1,316,838	38,899,484
Riverside City of/Jun 30						
Firm Power	69,796	10,930,510	614,533	45,963,169	997,033	78,487,565
Nonfirm Power	92,907	1,169,866	4,490	57,662	463,755	5,264,020
Total Power	162,703	12,100,376	619,023	46,020,831	1,460,788	83,751,585
Roseville City of/Jun 30						
Nonfirm Power	—	—	—	—	682,600	28,920,531
Total Power	—	—	—	—	682,600	28,920,531
San Francisco City & County of/Jun 30						
Firm Power	—	—	—	—	141	12,143,539
Nonfirm Power	—	—	4,410	73,107	263,864	4,635,637
Total Power	—	—	4,410	73,107	264,005	16,779,176
Santa Clara City of/Jun 30						
Firm Power	—	—	—	—	307,054	21,959,804
Nonfirm Power	—	—	137,424	1,188,966	519,198	5,122,721
Other Power	—	—	34,720	—	1,013,386	—
Total Power	—	—	172,144	1,188,966	1,839,638	27,082,525
Turlock Irrigation Dist/Dec 31						
Firm Power	—	—	430,980	21,475,004	666,186	46,112,252
Nonfirm Power	—	—	8,477	6,974,602	162,803	8,913,581
Total Power	—	—	439,457	28,449,606	828,989	55,025,833
Vernon City of/Jun 30						
Firm Power	—	—	81,617	6,620,216	598,077	18,341,889
Nonfirm Power	—	—	147,509	1,653,119	476,090	5,374,903
Total Power	—	—	229,126	8,273,335	1,074,167	23,716,792
Colorado						
Colorado Springs City of/Dec 31						
Firm Power	268,544	5,449,452	—	—	644,585	13,123,925
Nonfirm Power	87,972	1,461,674	58,316	839,554	388,183	6,564,957
Total Power	356,516	6,911,126	58,316	839,554	1,032,768	19,688,882
Fort Collins City of/Dec 31						
Firm Power	—	—	—	—	1,042,109	36,631,507
Total Power	—	—	—	—	1,042,109	36,631,507
Fort Morgan City of/Dec 31						
Firm Power	—	—	—	—	76,926	2,024,315
Nonfirm Power	—	—	—	—	115,184	2,624,977
Total Power	—	—	—	—	192,110	4,649,292
Longmont City of/Dec 31						
Firm Power	—	—	—	—	535,939	18,789,239
Total Power	—	—	—	—	535,939	18,789,239
Loveland City of/Dec 31						
Firm Power	—	—	—	—	450,971	15,230,634
Total Power	—	—	—	—	450,971	15,230,634
Connecticut						
Mun Electric Engy Coop/Dec 31						
Firm Power	—	—	2,210	2,108,194	1,125,664	60,371,653
Nonfirm Power	—	—	198,812	4,281,604	907,539	27,910,746
Total Power	—	—	201,022	6,389,798	2,033,203	88,282,399
Groton City of/Jun 30						
Firm Power	—	—	646,759	35,764,371	646,759	35,764,371
Total Power	—	—	646,759	35,764,371	646,759	35,764,371
Norwich City of/Jun 30						
Firm Power	—	—	321,035	18,036,905	321,035	18,036,905
Total Power	—	—	321,035	18,036,905	321,035	18,036,905
Wallingford Town of/Jun 30						
Firm Power	—	—	595,947	25,002,692	595,947	25,002,692
Total Power	—	—	595,947	25,002,692	595,947	25,002,692

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Delaware						
Dover City of/Jun 30						
Nonfirm Power	276,826	10,211,939	—	—	—	—
Total Power	276,826	10,211,939	—	—	—	—
Milford City of/Sep 30						
Firm Power	116,421	4,889,165	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	116,421	4,889,165	—	—	—	—
Newark City of/Dec 31						
Firm Power	253,662	10,902,000	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	253,662	10,902,000	—	—	—	—
Florida						
Bartow City of/Sep 30						
Firm Power	282,506	14,694,422	—	—	—	—
Total Power	282,506	14,694,422	—	—	—	—
Florida Municipal Power Agency/Sep 30						
Firm Power	817,457	32,405,427	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	817,457	32,405,427	—	—	—	—
Fort Pierce Utilities Au/Sep 30						
Nonfirm Power	11,961	357,213	—	—	—	—
Total Power	11,961	357,213	—	—	—	—
Gainesville Regional Utilities/Sep 30						
Nonfirm Power	117,567	3,061,553	—	—	—	—
Total Power	117,567	3,061,553	—	—	—	—
Homestead City of/Sep 30						
Firm Power	36,124	2,809,780	—	—	—	—
Nonfirm Power	37,322	864,783	—	—	—	—
Total Power	73,446	3,674,563	—	—	—	—
Jacksonville Beach City/Sep 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Jacksonville Elec Auth/Sep 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	46,013	1,112,464	—	—	228,166	3,967,394
Total Power	46,013	1,112,464	—	—	228,166	3,967,394
Key West City of/Sep 30						
Firm Power	413,069	15,498,426	—	—	—	—
Nonfirm Power	6,443	157,547	—	—	—	—
Total Power	419,512	15,655,973	—	—	—	—
Kissimmee Utility Auth/Sep 30						
Firm Power	14,970	3,013,424	—	—	—	—
Nonfirm Power	18,751	457,459	—	—	—	—
Total Power	33,721	3,470,883	—	—	—	—
Lake Worth City of/Sep 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	29,647	835,827	—	—	—	—
Total Power	29,647	835,827	—	—	—	—
Lakeland City of/Sep 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	54,574	1,025,447	—	—	—	—
Total Power	54,574	1,025,447	—	—	—	—
Leesburg City of/Sep 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
New Smyrna Beach Utils Comm/Sep 30						
Firm Power	251,842	9,276,257	—	—	—	—
Nonfirm Power	8,574	336,976	—	—	—	—
Total Power	260,416	9,613,233	—	—	—	—
Ocala City of/Sep 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Orlando Utilities Comm/Sep 30						
Nonfirm Power	402,885	8,546,743	—	—	—	—
Total Power	402,885	8,546,743	—	—	—	—
Quincy City of/Sep 30						
Firm Power	110,833	4,962,683	47,168	1,234,053	—	—
Total Power	110,833	4,962,683	47,168	1,234,053	—	—

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Delaware						
Dover City of/Jun 30						
Nonfirm Power	—	—	67,121	1,406,779	343,947	11,618,718
Total Power	—	—	67,121	1,406,779	343,947	11,618,718
Milford City of/Sep 30						
Firm Power	—	—	—	—	116,421	4,889,165
Nonfirm Power	—	—	44,783	1,377,009	44,783	1,377,009
Total Power	—	—	44,783	1,377,009	161,204	6,266,174
Newark City of/Dec 31						
Firm Power	—	—	—	—	253,662	10,902,000
Nonfirm Power	—	—	90,475	2,784,000	90,475	2,784,000
Total Power	—	—	90,475	2,784,000	344,137	13,686,000
Florida						
Bartow City of/Sep 30						
Firm Power	—	—	—	—	282,506	14,694,422
Total Power	—	—	—	—	282,506	14,694,422
Florida Municipal Power Agency/Sep 30						
Firm Power	—	—	933,853	32,124,203	1,751,310	64,529,630
Nonfirm Power	15,048	289,488	44,642	1,396,462	59,690	1,685,950
Total Power	15,048	289,488	978,495	33,520,665	1,811,000	66,215,580
Fort Pierce Utilities Au/Sep 30						
Nonfirm Power	1,022	17,740	361,668	15,349,993	374,651	15,724,946
Total Power	1,022	17,740	361,668	15,349,993	374,651	15,724,946
Gainesville Regional Utilities/Sep 30						
Nonfirm Power	5,692	122,381	83,518	1,953,931	206,777	5,137,865
Total Power	5,692	122,381	83,518	1,953,931	206,777	5,137,865
Homestead City of/Sep 30						
Firm Power	—	—	158,429	6,521,246	194,553	9,331,026
Nonfirm Power	6,234	121,212	18,613	588,749	62,169	1,574,744
Total Power	6,234	121,212	177,042	7,109,995	256,722	10,905,770
Jacksonville Beach City/Sep 30						
Firm Power	—	—	630,000	27,797,055	630,000	27,797,055
Nonfirm Power	—	—	—	2,792,431	—	2,792,431
Total Power	—	—	630,000	30,589,486	630,000	30,589,486
Jacksonville Elec Auth/Sep 30						
Firm Power	—	—	1,306,593	50,572,366	1,306,593	50,572,366
Nonfirm Power	349,068	7,155,293	739,364	14,853,808	1,362,611	27,088,959
Total Power	349,068	7,155,293	2,045,957	65,426,174	2,669,204	77,661,325
Key West City of/Sep 30						
Firm Power	—	—	129,299	6,032,516	542,368	21,530,942
Nonfirm Power	3,436	2,243,058	68,980	2,064,357	78,859	4,464,962
Total Power	3,436	2,243,058	198,279	8,096,873	621,227	25,995,904
Kissimmee Utility Auth/Sep 30						
Firm Power	—	—	467	870,616	15,437	3,884,040
Nonfirm Power	1,169	27,857	464,943	16,037,855	484,863	16,523,171
Total Power	1,169	27,857	465,410	16,908,471	500,300	20,407,211
Lake Worth City of/Sep 30						
Firm Power	—	—	175,625	4,554,756	175,625	4,554,756
Nonfirm Power	21,752	449,482	13,780	344,567	65,179	1,629,876
Total Power	21,752	449,482	189,405	4,899,323	240,804	6,184,632
Lakeland City of/Sep 30						
Firm Power	—	—	95,626	2,223,851	95,626	2,223,851
Nonfirm Power	26	449	317,836	8,084,872	372,436	9,110,768
Total Power	26	449	413,462	10,308,723	468,062	11,334,619
Leesburg City of/Sep 30						
Firm Power	—	—	424,000	16,792,678	424,000	16,792,678
Total Power	—	—	424,000	16,792,678	424,000	16,792,678
New Smyrna Beach Utils Comm/Sep 30						
Firm Power	—	—	5,127	392,032	256,969	9,668,289
Nonfirm Power	207	7,588	44,976	3,446,425	53,757	3,790,989
Total Power	207	7,588	50,103	3,838,457	310,726	13,459,278
Ocala City of/Sep 30						
Firm Power	—	—	1,071,766	47,508,982	1,071,766	47,508,982
Total Power	—	—	1,071,766	47,508,982	1,071,766	47,508,982
Orlando Utilities Comm/Sep 30						
Nonfirm Power	5,594	107,143	269,080	5,638,300	677,559	14,292,186
Total Power	5,594	107,143	269,080	5,638,300	677,559	14,292,186
Quincy City of/Sep 30						
Firm Power	—	—	—	—	158,001	6,196,736
Total Power	—	—	—	—	158,001	6,196,736

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Florida						
Reedy Creek Improvement Dist/Sep 30						
Firm Power	359,656	13,059,876	—	—	—	—
Nonfirm Power	65,305	1,869,393	—	—	—	—
Total Power	424,961	14,929,269	—	—	—	—
St Cloud City of/Sep 30						
Firm Power	—	4,438,710	—	—	—	—
Total Power	—	4,438,710	—	—	—	—
Tallahassee City of/Sep 30						
Nonfirm Power	46,822	1,012,394	—	—	14,954	271,067
Total Power	46,822	1,012,394	—	—	14,954	271,067
Vero Beach City of/Sep 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	29,926	757,471	—	—	—	—
Total Power	29,926	757,471	—	—	—	—
Georgia						
Albany Water Gas & Light/June 30						
Firm Power	—	—	110,647	2,720,819	867,288	43,240,711
Total Power	—	—	110,647	2,720,819	867,288	43,240,711
Calhoun City of/June 30						
Firm Power	—	—	—	—	344,131	16,407,086
Total Power	—	—	—	—	344,131	16,407,086
Cartersville City of/June 30						
Nonfirm Power	—	—	31,640	777,600	479,145	20,775,800
Total Power	—	—	31,640	777,600	479,145	20,775,800
College Park City of/June 30						
Firm Power	—	—	—	—	11,689	14,777,159
Total Power	—	—	—	—	11,689	14,777,159
Covington City of/Dec 31						
Firm Power	—	—	14,673	408,131	225,505	12,071,278
Total Power	—	—	14,673	408,131	225,505	12,071,278
Dalton City of/Nov 30						
Firm Power	538,905	16,765,000	73,371	1,829,000	—	—
Total Power	538,905	16,765,000	73,371	1,829,000	—	—
Douglas City of/June 30						
Firm Power	—	—	19,070	462,403	234,056	11,914,974
Total Power	—	—	19,070	462,403	234,056	11,914,974
East Point City of/June 30						
Firm Power	—	—	62,503	1,527,134	251,015	15,000,179
Total Power	—	—	62,503	1,527,134	251,015	15,000,179
Fitzgerald Wtr Lgt & Bnd/Dec 31						
Firm Power	—	—	16,285	422,302	197,027	10,263,953
Total Power	—	—	16,285	422,302	197,027	10,263,953
Griffin City of/June 30						
Firm Power	—	—	33,431	821,514	291,949	16,525,372
Total Power	—	—	33,431	821,514	291,949	16,525,372
La Grange City of/June 30						
Nonfirm Power	—	—	—	—	496,111	22,287,771
Total Power	—	—	—	—	496,111	22,287,771
Lawrenceville City of/Aug 31						
Firm Power	—	—	—	—	239,875	12,790,837
Total Power	—	—	—	—	239,875	12,790,837
Marietta City of/June 30						
Firm Power	—	—	66,656	1,650,220	893,865	50,872,073
Total Power	—	—	66,656	1,650,220	893,865	50,872,073
Moultrie City of/Sep 30						
Firm Power	—	—	28,926	701,363	—	—
Nonfirm Power	—	—	—	—	153,847	8,684,554
Total Power	—	—	28,926	701,363	153,847	8,684,554
Thomasville City of/Dec 31						
Firm Power	—	—	43,153	1,104,712	444,151	21,865,958
Total Power	—	—	43,153	1,104,712	444,151	21,865,958
Idaho						
Idaho Falls City of/Sep 30						
Firm Power	—	—	533,556	15,997,985	—	—
Total Power	—	—	533,556	15,997,985	—	—
Illinois						
Batavia City of/Dec 31						
Firm Power	265,718	11,577,263	—	—	—	—
Total Power	265,718	11,577,263	—	—	—	—

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Florida						
Reedy Creek Improvement Dist/Sep 30						
Firm Power	—	—	280,000	15,543,944	639,656	28,603,820
Nonfirm Power	84,878	1,540,827	54,382	928,278	204,565	4,338,498
Total Power	84,878	1,540,827	334,382	16,472,222	844,221	32,942,318
St Cloud City of/Sep 30						
Firm Power	—	—	286,692	8,832,526	286,692	13,271,236
Total Power	—	—	286,692	8,832,526	286,692	13,271,236
Tallahassee City of/Sep 30						
Nonfirm Power	125,891	3,304,688	982,649	35,161,124	1,170,316	39,749,273
Total Power	125,891	3,304,688	982,649	35,161,124	1,170,316	39,749,273
Vero Beach City of/Sep 30						
Firm Power	—	—	254,592	13,976,781	254,592	13,976,781
Nonfirm Power	1,530	31,557	6,239	244,329	37,695	1,033,357
Total Power	1,530	31,557	260,831	14,221,110	292,287	15,010,138
Georgia						
Albany Water Gas & Light/June 30						
Firm Power	—	—	—	—	977,935	45,961,530
Total Power	—	—	—	—	977,935	45,961,530
Calhoun City of/June 30						
Firm Power	—	—	—	—	344,131	16,407,086
Total Power	—	—	—	—	344,131	16,407,086
Cartersville City of/June 30						
Nonfirm Power	—	—	—	—	510,785	21,553,400
Total Power	—	—	—	—	510,785	21,553,400
College Park City of/June 30						
Firm Power	—	—	—	—	11,689	14,777,159
Total Power	—	—	—	—	11,689	14,777,159
Covington City of/Dec 31						
Firm Power	—	—	—	—	240,178	12,479,409
Total Power	—	—	—	—	240,178	12,479,409
Dalton City of/Nov 30						
Firm Power	—	—	—	—	612,276	18,594,000
Total Power	—	—	—	—	612,276	18,594,000
Douglas City of/June 30						
Firm Power	—	—	—	—	253,126	12,377,377
Total Power	—	—	—	—	253,126	12,377,377
East Point City of/June 30						
Firm Power	—	—	—	—	313,518	16,527,313
Total Power	—	—	—	—	313,518	16,527,313
Fitzgerald Wtr Lgt & Bnd/Dec 31						
Firm Power	—	—	—	—	213,312	10,686,255
Total Power	—	—	—	—	213,312	10,686,255
Griffin City of/June 30						
Firm Power	—	—	—	—	325,380	17,346,886
Total Power	—	—	—	—	325,380	17,346,886
La Grange City of/June 30						
Nonfirm Power	—	—	—	—	496,111	22,287,771
Total Power	—	—	—	—	496,111	22,287,771
Lawrenceville City of/Aug 31						
Firm Power	—	—	—	—	239,875	12,790,837
Total Power	—	—	—	—	239,875	12,790,837
Marietta City of/June 30						
Firm Power	—	—	—	—	960,521	52,522,293
Total Power	—	—	—	—	960,521	52,522,293
Moultrie City of/Sep 30						
Firm Power	—	—	—	—	28,926	701,363
Nonfirm Power	—	—	—	—	153,847	8,684,554
Total Power	—	—	—	—	182,773	9,385,917
Thomasville City of/Dec 31						
Firm Power	—	—	—	—	487,304	22,970,670
Total Power	—	—	—	—	487,304	22,970,670
Idaho						
Idaho Falls City of/Sep 30						
Firm Power	—	—	—	—	533,556	15,997,985
Total Power	—	—	—	—	533,556	15,997,985
Illinois						
Batavia City of/Dec 31						
Firm Power	—	—	—	—	265,718	11,577,263
Total Power	—	—	—	—	265,718	11,577,263

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Illinois						
Geneva City of/Apr 30						
Firm Power	201,449	6,641,861	—	—	—	—
Total Power	201,449	6,641,861	—	—	—	—
Illinois Municipal Elec Agency/Apr 30						
Firm Power	1,067,253	36,255,927	—	—	—	—
Nonfirm Power	29,792	475,436	—	—	—	—
Total Power	1,097,045	36,731,363	—	—	—	—
Naperville City of/Apr 30						
Firm Power	830,989	35,585,836	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	830,989	35,585,836	—	—	—	—
Rochelle Municipal Utilities/Apr 30						
Firm Power	180,862	5,631,039	—	—	—	—
Total Power	180,862	5,631,039	—	—	—	—
Springfield City of/Feb 28						
Firm Power	58,000	727,275	—	—	—	—
Nonfirm Power	14,500	22,909	—	—	—	—
Total Power	72,500	750,184	—	—	—	—
St Charles City of/Apr 30						
Firm Power	422,735	17,846,823	—	—	—	—
Total Power	422,735	17,846,823	—	—	—	—
Indiana						
Anderson City of/Dec 31						
Firm Power	—	—	—	—	706,623	27,379,089
Total Power	—	—	—	—	706,623	27,379,089
Auburn City of/Dec 31						
Nonfirm Power	483,840	17,580,586	—	—	—	—
Total Power	483,840	17,580,586	—	—	—	—
Bluffton City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Crawfordsville Elec Lgt&Pwr Co/Dec 31						
Firm Power	—	—	—	—	388,226	13,652,837
Total Power	—	—	—	—	388,226	13,652,837
Frankfort City of/Dec 31						
Firm Power	—	—	—	—	341,190	12,094,059
Total Power	—	—	—	—	341,190	12,094,059
Greenfield City of/Dec 31						
Firm Power	—	—	—	—	197,388	7,166,539
Total Power	—	—	—	—	197,388	7,166,539
Jasper City of/Dec 31						
Firm Power	237,444	9,010,068	—	—	—	—
Total Power	237,444	9,010,068	—	—	—	—
Lebanon City of/Dec 31						
Firm Power	—	—	—	—	148,032	5,793,871
Total Power	—	—	—	—	148,032	5,793,871
Logansport City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Mishawaka City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Peru City of/Dec 31						
Firm Power	—	—	—	—	222,505	5,707,625
Total Power	—	—	—	—	222,505	5,707,625
Richmond City of/Dec 31						
Firm Power	—	—	—	—	354,759	14,718,160
Total Power	—	—	—	—	354,759	14,718,160
Scottsburg City of/Dec 31						
Firm Power	—	—	—	—	184,320	6,580,212
Total Power	—	—	—	—	184,320	6,580,212
Washington City of/Dec 31						
Firm Power	—	—	—	—	169,331	6,262,770
Total Power	—	—	—	—	169,331	6,262,770
Iowa						
Ames City of/Jun 30						
Nonfirm Power	123,070	1,823,313	—	—	—	—
Total Power	123,070	1,823,313	—	—	—	—

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Illinois						
Geneva City of/Apr 30						
Firm Power	—	—	22,484	790,000	223,933	7,431,861
Total Power	—	—	22,484	790,000	223,933	7,431,861
Illinois Municipal Elec Agency/Apr 30						
Firm Power	—	—	—	—	1,067,253	36,255,927
Nonfirm Power	—	—	85,648	1,573,489	115,440	2,048,925
Total Power	—	—	85,648	1,573,489	1,182,693	38,304,852
Naperville City of/Apr 30						
Firm Power	—	—	—	—	830,989	35,585,836
Nonfirm Power	—	—	16,376	354,206	16,376	354,206
Total Power	—	—	16,376	354,206	847,365	35,940,042
Rochelle Municipal Utilities/Apr 30						
Firm Power	—	—	—	—	180,862	5,631,039
Total Power	—	—	—	—	180,862	5,631,039
Springfield City of/Feb 28						
Firm Power	—	—	—	—	58,000	727,275
Nonfirm Power	—	—	—	—	14,500	22,909
Total Power	—	—	—	—	72,500	750,184
St Charles City of/Apr 30						
Firm Power	—	—	—	—	422,735	17,846,823
Total Power	—	—	—	—	422,735	17,846,823
Indiana						
Anderson City of/Dec 31						
Firm Power	—	—	—	—	706,623	27,379,089
Total Power	—	—	—	—	706,623	27,379,089
Auburn City of/Dec 31						
Nonfirm Power	—	—	—	—	483,840	17,580,586
Total Power	—	—	—	—	483,840	17,580,586
Bluffton City of/Dec 31						
Firm Power	—	—	181,898	6,895,892	181,898	6,895,892
Total Power	—	—	181,898	6,895,892	181,898	6,895,892
Crawfordsville Elec Lgt&Pwr Co/Dec 31						
Firm Power	—	—	—	—	388,226	13,652,837
Total Power	—	—	—	—	388,226	13,652,837
Frankfort City of/Dec 31						
Firm Power	—	—	—	—	341,190	12,094,059
Total Power	—	—	—	—	341,190	12,094,059
Greenfield City of/Dec 31						
Firm Power	—	—	—	—	197,388	7,166,539
Total Power	—	—	—	—	197,388	7,166,539
Jasper City of/Dec 31						
Firm Power	—	—	—	—	237,444	9,010,068
Total Power	—	—	—	—	237,444	9,010,068
Lebanon City of/Dec 31						
Firm Power	—	—	—	—	148,032	5,793,871
Total Power	—	—	—	—	148,032	5,793,871
Logansport City of/Dec 31						
Firm Power	—	—	193,890	5,990,936	193,890	5,990,936
Total Power	—	—	193,890	5,990,936	193,890	5,990,936
Mishawaka City of/Dec 31						
Firm Power	—	—	522,156	21,380,231	522,156	21,380,231
Total Power	—	—	522,156	21,380,231	522,156	21,380,231
Peru City of/Dec 31						
Firm Power	—	—	—	—	222,505	5,707,625
Total Power	—	—	—	—	222,505	5,707,625
Richmond City of/Dec 31						
Firm Power	—	—	—	—	354,759	14,718,160
Total Power	—	—	—	—	354,759	14,718,160
Scottsburg City of/Dec 31						
Firm Power	—	—	—	—	184,320	6,580,212
Total Power	—	—	—	—	184,320	6,580,212
Washington City of/Dec 31						
Firm Power	—	—	—	—	169,331	6,262,770
Total Power	—	—	—	—	169,331	6,262,770
Iowa						
Ames City of/Jun 30						
Nonfirm Power	—	—	—	—	123,070	1,823,313
Total Power	—	—	—	—	123,070	1,823,313

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Iowa						
Cedar Falls City of/Dec 31						
Nonfirm Power	113,512	1,227,608	—	—	—	—
Total Power	113,512	1,227,608	—	—	—	—
Muscatine City of/Dec 31						
Nonfirm Power	20,809	305,832	1,172	17,406	19,558	268,252
Total Power	20,809	305,832	1,172	17,406	19,558	268,252
Pella City of/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	22,971	494,749	—	—	—	—
Total Power	22,971	494,749	—	—	—	—
Kansas						
Chanute City of/Dec 31						
Firm Power	207,250	7,385,282	3,205	72,709	—	—
Total Power	207,250	7,385,282	3,205	72,709	—	—
Coffeyville City of/Dec 31						
Firm Power	—	—	5,498	136,093	—	—
Nonfirm Power	131,343	2,822,509	—	—	—	—
Total Power	131,343	2,822,509	5,498	136,093	—	—
Garden City City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Kansas City City of/Dec 31						
Firm Power	—	—	112,885	2,523,984	—	—
Nonfirm Power	223,126	5,472,471	—	—	—	—
Other Power	—	—	—	—	—	—
Total Power	223,126	5,472,471	112,885	2,523,984	—	—
McPherson City of/Dec 31						
Firm Power	581,864	13,331,461	—	—	—	—
Total Power	581,864	13,331,461	—	—	—	—
Winfield City of/Dec 31						
Firm Power	36,466	1,093,934	—	—	95,838	3,373,409
Nonfirm Power	—	—	5,290	115,057	—	—
Total Power	36,466	1,093,934	5,290	115,057	95,838	3,373,409
Kentucky						
Bardstown City of						
Firm Power	167,135	5,107,852	—	—	—	—
Total Power	167,135	5,107,852	—	—	—	—
Bowling Green City of/ Jun 30						
Firm Power	—	—	751,316	32,951,978	—	—
Total Power	—	—	751,316	32,951,978	—	—
Frankfort City of/ Jun 30						
Firm Power	686,952	21,221,108	—	—	—	—
Total Power	686,952	21,221,108	—	—	—	—
Henderson City Utility Comm/May 31						
Firm Power	—	—	18,610	394,272	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	18,610	394,272	—	—
Hopkinsville City of/ Jun 30						
Firm Power	—	—	453,275	18,503,067	—	—
Total Power	—	—	453,275	18,503,067	—	—
Madisonville Municipal Utils/ Jun 30						
Firm Power	288,121	9,170,780	—	—	—	—
Total Power	288,121	9,170,780	—	—	—	—
Murray City of/ Jun 30						
Firm Power	—	—	252,447	11,336,862	—	—
Total Power	—	—	252,447	11,336,862	—	—
Owensboro City of/May 31						
Nonfirm Power	33,349	500,561	—	—	—	—
Total Power	33,349	500,561	—	—	—	—
Paducah City of/ Jun 30						
Firm Power	—	—	585,889	26,140,425	—	—
Total Power	—	—	585,889	26,140,425	—	—
Louisiana						
Alexandria City of/Apr 30						
Firm Power	—	—	35,694	776,939	—	—
Nonfirm Power	311,624	6,982,303	—	—	371,106	14,686,597
Total Power	311,624	6,982,303	35,694	776,939	371,106	14,686,597

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Iowa						
Cedar Falls City of/Dec 31						
Nonfirm Power	—	—	1	64	113,513	1,227,672
Total Power	—	—	1	64	113,513	1,227,672
Muscatine City of/Dec 31						
Nonfirm Power	3,836	50,394	3,200	40,541	48,575	682,425
Total Power	3,836	50,394	3,200	40,541	48,575	682,425
Pella City of/Dec 31						
Firm Power	—	—	—	840,000	—	840,000
Nonfirm Power	—	—	68,914	1,064,727	91,885	1,559,476
Total Power	—	—	68,914	1,904,727	91,885	2,399,476
Kansas						
Chanute City of/Dec 31						
Firm Power	—	—	—	—	210,455	7,457,991
Total Power	—	—	—	—	210,455	7,457,991
Coffeyville City of/Dec 31						
Firm Power	—	—	—	—	5,498	136,093
Nonfirm Power	—	—	—	—	131,343	2,822,509
Total Power	—	—	—	—	136,841	2,958,602
Garden City City of/Dec 31						
Firm Power	184,821	9,589,023	—	—	184,821	9,589,023
Total Power	184,821	9,589,023	—	—	184,821	9,589,023
Kansas City City of/Dec 31						
Firm Power	—	—	—	—	112,885	2,523,984
Nonfirm Power	—	—	37,926	732,736	261,052	6,205,207
Other Power	—	—	1,154	—	1,154	—
Total Power	—	—	39,080	732,736	375,091	8,729,191
McPherson City of/Dec 31						
Firm Power	—	—	—	—	581,864	13,331,461
Total Power	—	—	—	—	581,864	13,331,461
Winfield City of/Dec 31						
Firm Power	—	—	—	—	132,304	4,467,343
Nonfirm Power	—	—	—	—	5,290	115,057
Total Power	—	—	—	—	137,594	4,582,400
Kentucky						
Bardstown City of						
Firm Power	—	—	—	—	167,135	5,107,852
Total Power	—	—	—	—	167,135	5,107,852
Bowling Green City of/ Jun 30						
Firm Power	—	—	—	—	751,316	32,951,978
Total Power	—	—	—	—	751,316	32,951,978
Frankfort City of/ Jun 30						
Firm Power	—	—	—	—	686,952	21,221,108
Total Power	—	—	—	—	686,952	21,221,108
Henderson City Utility Comm/ May 31						
Firm Power	—	—	—	—	18,610	394,272
Nonfirm Power	9,886	293,644	—	—	9,886	293,644
Total Power	9,886	293,644	—	—	28,496	687,916
Hopkinsville City of/ Jun 30						
Firm Power	—	—	—	—	453,275	18,503,067
Total Power	—	—	—	—	453,275	18,503,067
Madisonville Municipal Utils/ Jun 30						
Firm Power	—	—	—	—	288,121	9,170,780
Total Power	—	—	—	—	288,121	9,170,780
Murray City of/ Jun 30						
Firm Power	—	—	—	—	252,447	11,336,862
Total Power	—	—	—	—	252,447	11,336,862
Owensboro City of/ May 31						
Nonfirm Power	—	—	—	—	33,349	500,561
Total Power	—	—	—	—	33,349	500,561
Paducah City of/ Jun 30						
Firm Power	—	—	—	—	585,889	26,140,425
Total Power	—	—	—	—	585,889	26,140,425
Louisiana						
Alexandria City of/ Apr 30						
Firm Power	—	—	—	—	35,694	776,939
Nonfirm Power	—	—	—	—	682,730	21,668,900
Total Power	—	—	—	—	718,424	22,445,839

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Louisiana						
Lafayette City of/Oct 31						
Nonfirm Power	172,515	4,814,545	31,278	644,779	1,359,281	41,103,976
Total Power	172,515	4,814,545	31,278	644,779	1,359,281	41,103,976
Morgan City City of/Dec 31						
Firm Power	—	—	—	—	174,465	7,556,735
Total Power	—	—	—	—	174,465	7,556,735
Natchitoches City of/May 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Ruston City of/Sep 30						
Nonfirm Power	—	—	103,607	3,108,210	—	—
Total Power	—	—	103,607	3,108,210	—	—
Terrebonne Parish Consol Gov t/Dec 31						
Nonfirm Power	—	—	—	—	176,405	3,543,147
Total Power	—	—	—	—	176,405	3,543,147
Maryland						
Hagerstown City of/Jun 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Massachusetts						
Braintree Town of/Dec 31						
Firm Power	166,600	7,823,685	—	—	—	—
Total Power	166,600	7,823,685	—	—	—	—
Chicopee City of/Dec 31						
Firm Power	42,289	1,767,362	—	—	39,127	542,516
Nonfirm Power	336	7,920	—	—	—	—
Total Power	42,625	1,775,282	—	—	39,127	542,516
Concord Town of/Dec 31						
Firm Power	154,073	8,677,014	—	—	11,366	224,084
Total Power	154,073	8,677,014	—	—	11,366	224,084
Danvers Town of/Dec 31						
Nonfirm Power	19,659	747,000	—	—	201,486	18,590,000
Total Power	19,659	747,000	—	—	201,486	18,590,000
Hingham City of/Dec 31						
Firm Power	20,654	1,024,072	—	—	79,452	7,451,976
Nonfirm Power	—	—	—	—	2,555	64,698
Total Power	20,654	1,024,072	—	—	82,007	7,516,674
Holyoke City of/Dec 31						
Firm Power	160,103	8,564,854	—	—	93,891	7,509,238
Nonfirm Power	—	—	—	—	—	—
Total Power	160,103	8,564,854	—	—	93,891	7,509,238
Hudson Town of/Dec 31						
Firm Power	131,072	4,438,175	—	—	176,114	17,446,436
Nonfirm Power	—	—	—	—	—	—
Total Power	131,072	4,438,175	—	—	176,114	17,446,436
Littleton Town of/Dec 31						
Firm Power	11,967	720,132	—	—	27,293	2,028,187
Nonfirm Power	—	—	—	—	—	—
Total Power	11,967	720,132	—	—	27,293	2,028,187
Mansfield Town of/Dec 31						
Firm Power	—	—	—	—	129,035	12,704,286
Total Power	—	—	—	—	129,035	12,704,286
Middleborough Town of/Dec 31						
Nonfirm Power	79,725	4,407,188	—	—	106,151	6,654,098
Total Power	79,725	4,407,188	—	—	106,151	6,654,098
North Attleborough Town of/Dec 31						
Firm Power	77,167	5,699,916	—	—	36,710	3,338,980
Nonfirm Power	—	1,130	—	—	11,592	294,140
Total Power	77,167	5,701,046	—	—	48,302	3,633,120
Norwood City of/Jun 30						
Nonfirm Power	301,569	20,190,600	—	—	17,360	250,255
Total Power	301,569	20,190,600	—	—	17,360	250,255
Peabody City of/Dec 31						
Firm Power	46,757	2,244,618	—	—	203,251	19,339,323
Nonfirm Power	74	7,892	—	—	—	—
Total Power	46,831	2,252,510	—	—	203,251	19,339,323
Reading Town of/Dec 31						
Firm Power	287,323	15,984,334	—	—	163,593	17,328,584
Nonfirm Power	17	1,914	—	—	—	—
Total Power	287,340	15,986,248	—	—	163,593	17,328,584

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Louisiana						
Lafayette City of/Oct 31						
Nonfirm Power	29,024	549,487	—	—	1,592,098	47,112,787
Total Power	29,024	549,487	—	—	1,592,098	47,112,787
Morgan City City of/Dec 31						
Firm Power	—	—	—	—	174,465	7,556,735
Total Power	—	—	—	—	174,465	7,556,735
Natchitoches City of/May 31						
Firm Power	—	—	229,256	7,854,000	229,256	7,854,000
Total Power	—	—	229,256	7,854,000	229,256	7,854,000
Ruston City of/Sep 30						
Nonfirm Power	—	—	—	—	103,607	3,108,210
Total Power	—	—	—	—	103,607	3,108,210
Terrebonne Parish Consol Gov t/Dec 31						
Nonfirm Power	—	—	—	—	176,405	3,543,147
Total Power	—	—	—	—	176,405	3,543,147
Maryland						
Hagerstown City of/Jun 30						
Firm Power	—	—	366,113	14,922,449	366,113	14,922,449
Total Power	—	—	366,113	14,922,449	366,113	14,922,449
Massachusetts						
Braintree Town of/Dec 31						
Firm Power	—	—	5,472	833,092	172,072	8,656,777
Total Power	—	—	5,472	833,092	172,072	8,656,777
Chicopee City of/Dec 31						
Firm Power	—	—	20,826	7,768,505	102,242	10,078,383
Nonfirm Power	—	—	265,989	6,884,524	266,325	6,892,444
Total Power	—	—	286,815	14,653,029	368,567	16,970,827
Concord Town of/Dec 31						
Firm Power	—	—	—	—	165,439	8,901,098
Total Power	—	—	—	—	165,439	8,901,098
Danvers Town of/Dec 31						
Nonfirm Power	—	—	94,810	3,650,000	315,955	22,987,000
Total Power	—	—	94,810	3,650,000	315,955	22,987,000
Hingham City of/Dec 31						
Firm Power	—	—	3,936	453,082	104,042	8,929,130
Nonfirm Power	—	—	—	—	2,555	64,698
Total Power	—	—	3,936	453,082	106,597	8,993,828
Holyoke City of/Dec 31						
Firm Power	—	—	27,950	1,154,769	281,944	17,228,861
Nonfirm Power	—	—	2,109	136,635	2,109	136,635
Total Power	—	—	30,059	1,291,404	284,053	17,365,496
Hudson Town of/Dec 31						
Firm Power	—	—	9,702	977,668	316,888	22,862,279
Nonfirm Power	—	—	420	11,115	420	11,115
Total Power	—	—	10,122	988,783	317,308	22,873,394
Littleton Town of/Dec 31						
Firm Power	—	—	70,422	3,734,560	109,682	6,482,879
Nonfirm Power	—	—	55,247	3,997,086	55,247	3,997,086
Total Power	—	—	125,669	7,731,646	164,929	10,479,965
Mansfield Town of/Dec 31						
Firm Power	—	—	—	—	129,035	12,704,286
Total Power	—	—	—	—	129,035	12,704,286
Middleborough Town of/Dec 31						
Nonfirm Power	—	—	—	917,008	185,876	11,978,294
Total Power	—	—	—	917,008	185,876	11,978,294
North Attleborough Town of/Dec 31						
Firm Power	—	—	10,669	1,369,060	124,546	10,407,956
Nonfirm Power	—	—	—	—	11,592	295,270
Total Power	—	—	10,669	1,369,060	136,138	10,703,226
Norwood City of/Jun 30						
Nonfirm Power	—	—	—	—	318,929	20,440,855
Total Power	—	—	—	—	318,929	20,440,855
Peabody City of/Dec 31						
Firm Power	—	—	—	—	250,008	21,583,941
Nonfirm Power	—	—	15,536	1,208,849	15,610	1,216,741
Total Power	—	—	15,536	1,208,849	265,618	22,800,682
Reading Town of/Dec 31						
Firm Power	—	—	45,974	3,892,433	496,890	37,205,351
Nonfirm Power	—	—	130,932	4,405,618	130,949	4,407,532
Total Power	—	—	176,906	8,298,051	627,839	41,612,883

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Massachusetts						
Shrewsbury Town of/Dec 31						
Firm Power	183,660	9,969,170	—	—	42,632	3,704,862
Nonfirm Power	24,971	1,075,238	—	—	7,662	137,827
Total Power	208,631	11,044,408	—	—	50,294	3,842,689
Taunton City of/Dec 31						
Nonfirm Power	252,332	6,796,988	—	—	41,331	474,490
Total Power	252,332	6,796,988	—	—	41,331	474,490
Wakefield Town of/Dec 31						
Firm Power	24,069	1,676,893	—	—	145,225	10,943,310
Nonfirm Power	—	—	—	—	—	—
Total Power	24,069	1,676,893	—	—	145,225	10,943,310
Wellesley Town of/Dec 31						
Firm Power	181,000	11,092,460	—	—	15,000	309,657
Nonfirm Power	—	—	—	—	—	—
Total Power	181,000	11,092,460	—	—	15,000	309,657
Westfield City of/Dec 31						
Firm Power	16,000	4,850,638	—	—	70,000	15,471,374
Nonfirm Power	5,000	81,530	—	—	—	—
Total Power	21,000	4,932,168	—	—	70,000	15,471,374
Michigan						
Bay City City of/Jun 30						
Firm Power	315,654	10,600,391	—	—	—	—
Total Power	315,654	10,600,391	—	—	—	—
Coldwater Board of Public Util/Jun 30						
Nonfirm Power	—	—	—	—	185,289	9,593,951
Total Power	—	—	—	—	185,289	9,593,951
Detroit City of/Jun 30						
Nonfirm Power	385,006	1,207,196	—	—	—	—
Total Power	385,006	1,207,196	—	—	—	—
Grand Haven City of/Jun 30						
Nonfirm Power	—	—	—	—	55,937	1,247,364
Total Power	—	—	—	—	55,937	1,247,364
Hillsdale Board of Public Wks/Jun 30						
Nonfirm Power	—	—	—	—	155,356	7,203,564
Total Power	—	—	—	—	155,356	7,203,564
Holland City of/Jun 30						
Firm Power	240,483	6,353,455	—	—	335,534	12,786,821
Total Power	240,483	6,353,455	—	—	335,534	12,786,821
Lansing City of/Jun 30						
Firm Power	—	—	—	—	1,141,206	43,750,289
Nonfirm Power	—	—	—	—	33,668	887,914
Other Power	—	—	—	—	2,855	—
Total Power	—	—	—	—	1,177,729	44,638,203
Marquette City of/Jun 30						
Nonfirm Power	41,778	634,900	—	—	—	—
Total Power	41,778	634,900	—	—	—	—
Sturgis City of/Sep 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Traverse City City of/Jun 30						
Firm Power	—	—	—	—	163,203	5,658,279
Nonfirm Power	—	—	—	—	65,150	1,722,692
Total Power	—	—	—	—	228,353	7,380,971
Wyandotte Municipal Serv Comm/Sep 30						
Firm Power	77,798	1,648,073	—	—	—	—
Total Power	77,798	1,648,073	—	—	—	—
Zeeland City of/Jun 30						
Firm Power	—	—	—	—	200,718	6,540,175
Total Power	—	—	—	—	200,718	6,540,175
Minnesota						
Alexandria City of/Dec 31						
Firm Power	—	—	—	—	113,971	4,301,809
Total Power	—	—	—	—	113,971	4,301,809
Anoka City of/Dec 31						
Firm Power	—	—	—	—	239,917	8,498,914
Nonfirm Power	—	40,744	—	—	—	—
Total Power	—	40,744	—	—	239,917	8,498,914

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Massachusetts						
Shrewsbury Town of/Dec 31						
Firm Power	—	—	—	—	226,292	13,674,032
Nonfirm Power	—	—	—	—	32,633	1,213,065
Total Power	—	—	—	—	258,925	14,887,097
Taunton City of/Dec 31						
Nonfirm Power	—	—	261,110	11,320,723	554,773	18,592,201
Total Power	—	—	261,110	11,320,723	554,773	18,592,201
Wakefield Town of/Dec 31						
Firm Power	—	—	—	—	169,294	12,620,203
Nonfirm Power	—	—	484	44,227	484	44,227
Total Power	—	—	484	44,227	169,778	12,664,430
Wellesley Town of/Dec 31						
Firm Power	—	—	—	—	196,000	11,402,117
Nonfirm Power	—	—	1,000	49,208	1,000	49,208
Total Power	—	—	1,000	49,208	197,000	11,451,325
Westfield City of/Dec 31						
Firm Power	—	—	—	—	86,000	20,322,012
Nonfirm Power	—	—	—	843,857	5,000	925,387
Total Power	—	—	—	843,857	91,000	21,247,399
Michigan						
Bay City City of/Jun 30						
Firm Power	—	—	—	—	315,654	10,600,391
Total Power	—	—	—	—	315,654	10,600,391
Coldwater Board of Public Util/Jun 30						
Nonfirm Power	—	—	—	—	185,289	9,593,951
Total Power	—	—	—	—	185,289	9,593,951
Detroit City of/Jun 30						
Nonfirm Power	—	—	—	—	385,006	1,207,196
Total Power	—	—	—	—	385,006	1,207,196
Grand Haven City of/Jun 30						
Nonfirm Power	—	—	—	—	55,937	1,247,364
Total Power	—	—	—	—	55,937	1,247,364
Hillsdale Board of Public Wks/Jun 30						
Nonfirm Power	—	—	—	—	155,356	7,203,564
Total Power	—	—	—	—	155,356	7,203,564
Holland City of/Jun 30						
Firm Power	—	—	—	—	576,017	19,140,276
Total Power	—	—	—	—	576,017	19,140,276
Lansing City of/Jun 30						
Firm Power	—	—	—	—	1,141,206	43,750,289
Nonfirm Power	—	—	—	—	33,668	887,914
Other Power	—	—	—	—	2,855	—
Total Power	—	—	—	—	1,177,729	44,638,203
Marquette City of/Jun 30						
Nonfirm Power	—	—	700	9,531	42,478	644,431
Total Power	—	—	700	9,531	42,478	644,431
Sturgis City of/Sep 30						
Firm Power	—	—	212,144	7,793,571	212,144	7,793,571
Nonfirm Power	—	—	3,149	97,849	3,149	97,849
Total Power	—	—	215,293	7,891,420	215,293	7,891,420
Traverse City City of/Jun 30						
Firm Power	—	—	—	—	163,203	5,658,279
Nonfirm Power	—	—	—	—	65,150	1,722,692
Total Power	—	—	—	—	228,353	7,380,971
Wyandotte Municipal Serv Comm/Sep 30						
Firm Power	—	—	—	—	77,798	1,648,073
Total Power	—	—	—	—	77,798	1,648,073
Zeeland City of/Jun 30						
Firm Power	—	—	—	—	200,718	6,540,175
Total Power	—	—	—	—	200,718	6,540,175
Minnesota						
Alexandria City of/Dec 31						
Firm Power	—	—	—	—	113,971	4,301,809
Total Power	—	—	—	—	113,971	4,301,809
Anoka City of/Dec 31						
Firm Power	—	—	—	—	239,917	8,498,914
Nonfirm Power	—	—	9	527	9	41,271
Total Power	—	—	9	527	239,926	8,540,185

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Minnesota						
Austin City of/Dec 31						
Firm Power	—	—	—	—	276,272	13,573,628
Total Power	—	—	—	—	276,272	13,573,628
Brainerd Public Utilities/Dec 31						
Firm Power	160,337	5,565,996	—	—	—	—
Total Power	160,337	5,565,996	—	—	—	—
Chaska City of/Dec 31						
Firm Power	—	—	—	—	200,210	7,032,710
Total Power	—	—	—	—	200,210	7,032,710
Fairmont Public Utilities Comm/Dec 31						
Firm Power	—	—	—	—	147,137	7,609,352
Total Power	—	—	—	—	147,137	7,609,352
Hutchinson Utilities Comm/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	45,263	685,483	117	2,369	547	10,906
Total Power	45,263	685,483	117	2,369	547	10,906
Marshall City of/Dec 31						
Firm Power	—	—	133,104	1,704,005	242,761	8,229,126
Total Power	—	—	133,104	1,704,005	242,761	8,229,126
Moorhead City of/Dec 31						
Firm Power	—	—	244,611	3,440,569	—	—
Total Power	—	—	244,611	3,440,569	—	—
New Ulm Public Utilities Comm/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	146,006	3,060,421	—	—	—	—
Total Power	146,006	3,060,421	—	—	—	—
Owatonna City of/Dec 31						
Firm Power	—	—	—	—	306,970	14,594,552
Total Power	—	—	—	—	306,970	14,594,552
Rochester Public Utilities/Dec 31						
Firm Power	—	—	—	—	919,403	45,073,340
Nonfirm Power	—	—	—	—	560	7,599
Total Power	—	—	—	—	919,963	45,080,939
Shakopee Public Utilities Comm/Dec 31						
Firm Power	—	—	—	—	155,696	5,910,034
Nonfirm Power	—	168,736	—	—	—	—
Total Power	—	168,736	—	—	155,696	5,910,034
Willmar Municipal Utils Comm/Dec 31						
Firm Power	—	—	32,112	440,907	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	32,112	440,907	—	—
Worthington City of/Dec 31						
Firm Power	—	—	62,609	821,104	125,350	4,809,558
Total Power	—	—	62,609	821,104	125,350	4,809,558
Mississippi						
Clarksdale City of/Sep 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Columbus City of/Jun 30						
Firm Power	—	—	501,365	21,959,503	—	—
Total Power	—	—	501,365	21,959,503	—	—
Greenwood Utilities Comm/Sep 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Holly Springs City of/Jun 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Municipal Energy Agency of MS/Sep 30						
Firm Power	36,720	953,582	43,650	985,680	5,132	502,352
Nonfirm Power	—	—	—	—	—	—
Total Power	36,720	953,582	43,650	985,680	5,132	502,352
New Albany City of/Jun 30						
Firm Power	—	—	258,644	11,835,867	—	—
Total Power	—	—	258,644	11,835,867	—	—
Starkville City of/Jun 30						
Firm Power	—	—	367,251	15,794,924	—	—
Total Power	—	—	367,251	15,794,924	—	—

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Minnesota						
Austin City of/Dec 31						
Firm Power	—	—	—	—	276,272	13,573,628
Total Power	—	—	—	—	276,272	13,573,628
Brainerd Public Utilities/Dec 31						
Firm Power	—	—	—	—	160,337	5,565,996
Total Power	—	—	—	—	160,337	5,565,996
Chaska City of/Dec 31						
Firm Power	—	—	—	—	200,210	7,032,710
Total Power	—	—	—	—	200,210	7,032,710
Fairmont Public Utilities Comm/Dec 31						
Firm Power	—	—	—	—	147,137	7,609,352
Total Power	—	—	—	—	147,137	7,609,352
Hutchinson Utilities Comm/Dec 31						
Firm Power	8,806	631,880	—	—	8,806	631,880
Nonfirm Power	100,017	1,485,020	3	65,289	145,947	2,249,067
Total Power	108,823	2,116,900	3	65,289	154,753	2,880,947
Marshall City of/Dec 31						
Firm Power	—	—	—	—	375,865	9,933,131
Total Power	—	—	—	—	375,865	9,933,131
Moorhead City of/Dec 31						
Firm Power	—	—	—	—	244,611	3,440,569
Total Power	—	—	—	—	244,611	3,440,569
New Ulm Public Utilities Comm/Dec 31						
Firm Power	—	—	—	200,000	—	200,000
Nonfirm Power	—	—	19,500	260,577	165,506	3,320,998
Total Power	—	—	19,500	460,577	165,506	3,520,998
Owatonna City of/Dec 31						
Firm Power	—	—	—	—	306,970	14,594,552
Total Power	—	—	—	—	306,970	14,594,552
Rochester Public Utilities/Dec 31						
Firm Power	—	—	—	—	919,403	45,073,340
Nonfirm Power	—	—	—	—	560	7,599
Total Power	—	—	—	—	919,963	45,080,939
Shakopee Public Utilities Comm/Dec 31						
Firm Power	—	—	—	—	155,696	5,910,034
Nonfirm Power	10,517	498,506	—	—	10,517	667,242
Total Power	10,517	498,506	—	—	166,213	6,577,276
Willmar Municipal Utils Comm/Dec 31						
Firm Power	88,317	3,137,686	—	48,989	120,429	3,627,582
Nonfirm Power	79,682	1,417,043	—	—	79,682	1,417,043
Total Power	167,999	4,554,729	—	48,989	200,111	5,044,625
Worthington City of/Dec 31						
Firm Power	—	—	—	—	187,959	5,630,662
Total Power	—	—	—	—	187,959	5,630,662
Mississippi						
Clarksdale City of/Sep 30						
Firm Power	—	—	197,487	6,047,215	197,487	6,047,215
Total Power	—	—	197,487	6,047,215	197,487	6,047,215
Columbus City of/Jun 30						
Firm Power	—	—	—	—	501,365	21,959,503
Total Power	—	—	—	—	501,365	21,959,503
Greenwood Utilities Comm/Sep 30						
Firm Power	—	—	309,103	8,399,475	309,103	8,399,475
Total Power	—	—	309,103	8,399,475	309,103	8,399,475
Holly Springs City of/Jun 30						
Firm Power	225,588	10,015,192	—	—	225,588	10,015,192
Total Power	225,588	10,015,192	—	—	225,588	10,015,192
Municipal Energy Agency of MS/Sep 30						
Firm Power	131,760	4,178,793	245,871	8,449,527	463,133	15,069,934
Nonfirm Power	—	—	409,369	11,075,953	409,369	11,075,953
Total Power	131,760	4,178,793	655,240	19,525,480	872,502	26,145,887
New Albany City of/Jun 30						
Firm Power	—	—	—	—	258,644	11,835,867
Total Power	—	—	—	—	258,644	11,835,867
Starkville City of/Jun 30						
Firm Power	—	—	—	—	367,251	15,794,924
Total Power	—	—	—	—	367,251	15,794,924

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Mississippi						
Tupelo City of/Jun 30						
Firm Power	—	—	688,691	30,725,082	—	—
Total Power	—	—	688,691	30,725,082	—	—
Missouri						
Carthage City of/Jun 30						
Firm Power	—	—	13,512	275,313	—	—
Nonfirm Power	—	—	—	—	—	—
Other Power	—	—	—	—	24	—
Total Power	—	—	13,512	275,313	24	—
Columbia City of/Sep 30						
Firm Power	258,145	8,239,595	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	258,145	8,239,595	—	—	—	—
Hannibal City of/Jun 30						
Firm Power	221,328	8,625,499	—	—	—	—
Total Power	221,328	8,625,499	—	—	—	—
Independence City of/Jun 30						
Firm Power	849,645	20,852,779	—	—	—	—
Nonfirm Power	14,013	359,580	—	—	—	—
Total Power	863,658	21,212,359	—	—	—	—
Kennett City of/Jun 30						
Firm Power	—	—	29,539	617,112	—	—
Total Power	—	—	29,539	617,112	—	—
Kirkwood City of/Mar 31						
Firm Power	193,946	7,310,445	—	—	—	—
Total Power	193,946	7,310,445	—	—	—	—
Lebanon City of/Oct 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Marshall City of/Sep 30						
Firm Power	104,006	1,843,014	—	—	—	—
Total Power	104,006	1,843,014	—	—	—	—
Monett City of/Mar 31						
Firm Power	170,016	5,812,849	—	—	—	—
Total Power	170,016	5,812,849	—	—	—	—
Poplar Bluff City of/Dec 31						
Firm Power	—	—	120,471	2,009,242	165,285	4,750,471
Total Power	—	—	120,471	2,009,242	165,285	4,750,471
Rolla City of/Sep 30						
Firm Power	263,592	9,953,778	—	—	—	—
Total Power	263,592	9,953,778	—	—	—	—
Sikeston City of/May 31						
Firm Power	—	—	174,414	2,807,201	—	—
Nonfirm Power	18,382	259,017	2,282	46,371	—	—
Total Power	18,382	259,017	176,696	2,853,572	—	—
Springfield City of/Sep 30						
Firm Power	—	—	60,000	1,706,000	398,460	10,210,000
Nonfirm Power	—	—	46,788	245,000	300	5,000
Total Power	—	—	106,788	1,951,000	398,760	10,215,000
West Plains City of/Dec 31						
Firm Power	—	—	16,750	652,032	—	—
Total Power	—	—	16,750	652,032	—	—
Nebraska						
Beatrice City of/Jul 31						
Firm Power	—	—	—	—	181,868	6,855,099
Total Power	—	—	—	—	181,868	6,855,099
Fremont City of/Jul 31						
Nonfirm Power	—	—	30,471	596,715	73,563	1,017,719
Total Power	—	—	30,471	596,715	73,563	1,017,719
Grand Island City of/Jul 31						
Firm Power	—	—	41,831	584,322	—	—
Nonfirm Power	516	13,668	—	—	88,094	1,434,360
Total Power	516	13,668	41,831	584,322	88,094	1,434,360
Hastings City of/Dec 31						
Nonfirm Power	—	—	49,152	904,852	18,135	284,476
Total Power	—	—	49,152	904,852	18,135	284,476
Lincoln Electric System/Dec 31						
Firm Power	—	—	132,040	3,900,092	1,725,780	42,753,350
Nonfirm Power	69,999	834,171	40,037	618,127	2,920	42,311
Total Power	69,999	834,171	172,077	4,518,219	1,728,700	42,795,661

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Mississippi						
Tupelo City of/Jun 30						
Firm Power	—	—	—	—	688,691	30,725,082
Total Power	—	—	—	—	688,691	30,725,082
Missouri						
Carthage City of/Jun 30						
Firm Power	—	—	211,577	6,790,300	225,089	7,065,613
Nonfirm Power	—	—	805	19,915	805	19,915
Other Power	4,329	—	92	—	4,445	—
Total Power	4,329	—	212,474	6,810,215	230,339	7,085,528
Columbia City of/Sep 30						
Firm Power	—	—	511,099	20,135,701	769,244	28,375,296
Nonfirm Power	30,799	569,103	2,186	157,655	32,985	726,758
Total Power	30,799	569,103	513,285	20,293,356	802,229	29,102,054
Hannibal City of/Jun 30						
Firm Power	—	—	—	—	221,328	8,625,499
Total Power	—	—	—	—	221,328	8,625,499
Independence City of/Jun 30						
Firm Power	—	—	—	—	849,645	20,852,779
Nonfirm Power	1,045	34,410	—	—	15,058	393,990
Total Power	1,045	34,410	—	—	864,703	21,246,769
Kennett City of/Jun 30						
Firm Power	—	—	26,368	614,424	55,907	1,231,536
Total Power	—	—	26,368	614,424	55,907	1,231,536
Kirkwood City of/Mar 31						
Firm Power	—	—	—	—	193,946	7,310,445
Total Power	—	—	—	—	193,946	7,310,445
Lebanon City of/Oct 31						
Firm Power	214,809	7,868,444	—	—	214,809	7,868,444
Total Power	214,809	7,868,444	—	—	214,809	7,868,444
Marshall City of/Sep 30						
Firm Power	—	—	—	—	104,006	1,843,014
Total Power	—	—	—	—	104,006	1,843,014
Monett City of/Mar 31						
Firm Power	—	—	—	—	170,016	5,812,849
Total Power	—	—	—	—	170,016	5,812,849
Poplar Bluff City of/Dec 31						
Firm Power	3,714	95,970	25,738	536,111	315,208	7,391,794
Total Power	3,714	95,970	25,738	536,111	315,208	7,391,794
Rolla City of/Sep 30						
Firm Power	—	—	—	—	263,592	9,953,778
Total Power	—	—	—	—	263,592	9,953,778
Sikeston City of/May 31						
Firm Power	—	—	—	—	174,414	2,807,201
Nonfirm Power	2,303	35,714	16,100	307,531	39,067	648,633
Total Power	2,303	35,714	16,100	307,531	213,481	3,455,834
Springfield City of/Sep 30						
Firm Power	—	—	—	—	458,460	11,916,000
Nonfirm Power	30,221	493,000	1,750	49,000	79,059	792,000
Total Power	30,221	493,000	1,750	49,000	537,519	12,708,000
West Plains City of/Dec 31						
Firm Power	—	—	150,746	5,603,769	167,496	6,255,801
Total Power	—	—	150,746	5,603,769	167,496	6,255,801
Nebraska						
Beatrice City of/Jul 31						
Firm Power	—	—	—	—	181,868	6,855,099
Total Power	—	—	—	—	181,868	6,855,099
Fremont City of/Jul 31						
Nonfirm Power	—	—	—	—	104,034	1,614,434
Total Power	—	—	—	—	104,034	1,614,434
Grand Island City of/Jul 31						
Firm Power	—	—	—	—	41,831	584,322
Nonfirm Power	—	—	1,700	81,260	90,310	1,529,288
Total Power	—	—	1,700	81,260	132,141	2,113,610
Hastings City of/Dec 31						
Nonfirm Power	—	—	3,595	53,925	70,882	1,243,253
Total Power	—	—	3,595	53,925	70,882	1,243,253
Lincoln Electric System/Dec 31						
Firm Power	—	—	—	101,203	1,857,820	46,754,645
Nonfirm Power	61,666	1,200,140	740	10,305	175,362	2,705,054
Total Power	61,666	1,200,140	740	111,508	2,033,182	49,459,699

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Nebraska						
North Platte City of/Jul 31						
Firm Power	—	—	—	—	285,004	10,563,831
Total Power	—	—	—	—	285,004	10,563,831
New Jersey						
Madison Borough/Dec 31						
Nonfirm Power	126,672	6,892,689	—	—	—	—
Total Power	126,672	6,892,689	—	—	—	—
Vineland City of/Jun 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	—	—	—	—	17,618	436,585
Total Power	—	—	—	—	17,618	436,585
New Mexico						
Farmington City of/Jun 30						
Firm Power	10,568	731,737	85,709	1,758,844	—	—
Nonfirm Power	22,590	337,110	21,261	325,490	—	—
Total Power	33,158	1,068,847	106,970	2,084,334	—	—
Gallup City of/Jun 30						
Firm Power	172,174	8,337,267	18,838	318,485	—	—
Total Power	172,174	8,337,267	18,838	318,485	—	—
Los Alamos County/Jun 30						
Firm Power	—	—	104,095	2,443,047	—	—
Nonfirm Power	34,187	596,617	18,000	243,000	1,402	19,511
Total Power	34,187	596,617	122,095	2,686,047	1,402	19,511
New York						
Fairport Village of/May 31						
Firm Power	—	—	—	—	397,573	7,340,587
Total Power	—	—	—	—	397,573	7,340,587
Freeport Village of Inc/Feb 28						
Nonfirm Power	4,743	366,337	—	—	234,657	5,358,340
Total Power	4,743	366,337	—	—	234,657	5,358,340
Jamestown City of/Dec 31						
Firm Power	—	—	—	—	448,158	6,137,250
Total Power	—	—	—	—	448,158	6,137,250
Lake Placid Village Inc/Jul 31						
Nonfirm Power	—	—	—	—	142,492	2,357,092
Total Power	—	—	—	—	142,492	2,357,092
Massena Town of/Dec 31						
Firm Power	27,492	862,037	—	—	142,659	1,300,452
Nonfirm Power	—	143,562	—	—	—	—
Total Power	27,492	1,005,599	—	—	142,659	1,300,452
Plattsburgh City of/Dec 31						
Firm Power	—	—	—	—	542,572	5,691,433
Total Power	—	—	—	—	542,572	5,691,433
Rockville Centre Village of/May 31						
Nonfirm Power	1,215	53,410	—	—	329,330	8,060,580
Total Power	1,215	53,410	—	—	329,330	8,060,580
Solvay Village of/May 31						
Firm Power	—	—	—	—	254,878	3,246,600
Total Power	—	—	—	—	254,878	3,246,600
North Carolina						
Albemarle City of/Jun 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Concord City of/Jun 30						
Nonfirm Power	462,531	18,800,942	5,416	302,888	—	—
Total Power	462,531	18,800,942	5,416	302,888	—	—
Elizabeth City City of/Jun 30						
Firm Power	—	—	1,566	107,288	—	—
Total Power	—	—	1,566	107,288	—	—
Fayetteville Public Works Comm/Jun 30						
Firm Power	1,338,653	56,648,557	4,103	217,459	—	—
Nonfirm Power	618,404	18,917,391	—	—	—	—
Total Power	1,957,057	75,565,948	4,103	217,459	—	—
Forest City Town of/Jun 30						
Firm Power	148,797	6,251,653	1,803	103,347	—	—
Total Power	148,797	6,251,653	1,803	103,347	—	—
Gastonia City of/Jun 30						
Firm Power	—	—	10,494	590,759	—	—
Total Power	—	—	10,494	590,759	—	—

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Nebraska						
North Platte City of/Jul 31						
Firm Power	—	—	—	—	285,004	10,563,831
Total Power	—	—	—	—	285,004	10,563,831
New Jersey						
Madison Borough/Dec 31						
Nonfirm Power	—	—	—	—	126,672	6,892,689
Total Power	—	—	—	—	126,672	6,892,689
Vineland City of/Jun 30						
Firm Power	—	—	100,863	14,212,708	100,863	14,212,708
Nonfirm Power	—	—	—	—	17,618	436,585
Total Power	—	—	100,863	14,212,708	118,481	14,649,293
New Mexico						
Farmington City of/Jun 30						
Firm Power	—	—	—	—	96,277	2,490,581
Nonfirm Power	—	—	—	—	43,851	662,600
Total Power	—	—	—	—	140,128	3,153,181
Gallup City of/Jun 30						
Firm Power	—	—	—	—	191,012	8,655,752
Total Power	—	—	—	—	191,012	8,655,752
Los Alamos County/Jun 30						
Firm Power	—	—	61,605	2,117,209	165,700	4,560,256
Nonfirm Power	301	4,737	1,917	24,887	55,807	888,752
Total Power	301	4,737	63,522	2,142,096	221,507	5,449,008
New York						
Fairport Village of/May 31						
Firm Power	—	—	—	—	397,573	7,340,587
Total Power	—	—	—	—	397,573	7,340,587
Freeport Village of Inc/Feb 28						
Nonfirm Power	—	—	—	—	239,400	5,724,677
Total Power	—	—	—	—	239,400	5,724,677
Jamestown City of/Dec 31						
Firm Power	—	—	—	—	448,158	6,137,250
Total Power	—	—	—	—	448,158	6,137,250
Lake Placid Village Inc/Jul 31						
Nonfirm Power	—	—	—	—	142,492	2,357,092
Total Power	—	—	—	—	142,492	2,357,092
Massena Town of/Dec 31						
Firm Power	—	—	—	—	170,151	2,162,489
Nonfirm Power	—	—	—	—	—	143,562
Total Power	—	—	—	—	170,151	2,306,051
Plattsburgh City of/Dec 31						
Firm Power	—	—	—	—	542,572	5,691,433
Total Power	—	—	—	—	542,572	5,691,433
Rockville Centre Village of/May 31						
Nonfirm Power	—	—	—	—	330,545	8,113,990
Total Power	—	—	—	—	330,545	8,113,990
Solvay Village of/May 31						
Firm Power	—	—	—	—	254,878	3,246,600
Total Power	—	—	—	—	254,878	3,246,600
North Carolina						
Albemarle City of/Jun 30						
Firm Power	—	—	284,535	17,129,494	284,535	17,129,494
Total Power	—	—	284,535	17,129,494	284,535	17,129,494
Concord City of/Jun 30						
Nonfirm Power	—	—	—	—	467,947	19,103,830
Total Power	—	—	—	—	467,947	19,103,830
Elizabeth City City of/Jun 30						
Firm Power	—	—	269,015	19,617,288	270,581	19,724,576
Total Power	—	—	269,015	19,617,288	270,581	19,724,576
Fayetteville Public Works Comm/Jun 30						
Firm Power	—	—	—	—	1,342,756	56,866,016
Nonfirm Power	—	—	—	—	618,404	18,917,391
Total Power	—	—	—	—	1,961,160	75,783,407
Forest City Town of/Jun 30						
Firm Power	—	—	—	—	150,600	6,355,000
Total Power	—	—	—	—	150,600	6,355,000
Gastonia City of/Jun 30						
Firm Power	—	—	649,409	35,945,283	659,903	36,536,042
Total Power	—	—	649,409	35,945,283	659,903	36,536,042

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
North Carolina						
Greenville Utilities Comm/June 30						
Firm Power	—	—	9,000	329,241	—	—
Total Power	—	—	9,000	329,241	—	—
High Point Town of/June 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Kinston City of/June 30						
Firm Power	—	—	1,113	60,358	—	—
Total Power	—	—	1,113	60,358	—	—
Laurinburg City of						
Firm Power	—	—	309	17,084	—	—
Total Power	—	—	309	17,084	—	—
Lexington City of/June 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Lumberton City of/June 30						
Firm Power	—	—	676	35,718	—	—
Total Power	—	—	676	35,718	—	—
Monroe City of/June 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Morganton City of/June 30						
Firm Power	—	—	22,877	526,885	—	—
Total Power	—	—	22,877	526,885	—	—
New Bern City of/June 30						
Firm Power	—	—	910	48,049	—	—
Total Power	—	—	910	48,049	—	—
North Carolina Eastern M P A/Dec 31						
Firm Power	2,059,797	99,880,000	—	—	199,447	15,148,000
Total Power	2,059,797	99,880,000	—	—	199,447	15,148,000
North Carolina Mun Power Agny/Dec 31						
Firm Power	820,959	59,745,000	—	—	—	—
Total Power	820,959	59,745,000	—	—	—	—
Rocky Mount City of/June 30						
Firm Power	—	—	—	101,286	—	—
Total Power	—	—	—	101,286	—	—
Shelby City of/June 30						
Firm Power	—	—	3,872	217,936	—	—
Total Power	—	—	3,872	217,936	—	—
Statesville City of/June 30						
Firm Power	—	—	6,378	359,042	—	—
Total Power	—	—	6,378	359,042	—	—
Tarboro Town of/June 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Washington City of/Dec 31						
Firm Power	—	—	2,042	107,871	—	—
Total Power	—	—	2,042	107,871	—	—
Wilson City of/June 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Ohio						
American Mun Power-Ohio Inc/Dec 31						
Firm Power	3,303,224	105,489,519	—	—	297,263	3,719,491
Nonfirm Power	—	—	—	—	—	—
Total Power	3,303,224	105,489,519	—	—	297,263	3,719,491
Bowling Green City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Bryan City of/Dec 31						
Nonfirm Power	395,428	12,519,916	—	—	—	—
Total Power	395,428	12,519,916	—	—	—	—
Celina City of/Dec 31						
Firm Power	161,821	5,285,716	—	—	—	—
Total Power	161,821	5,285,716	—	—	—	—
Cleveland City of/Dec 31						
Nonfirm Power	344,132	12,271,579	—	—	210,426	3,995,240
Total Power	344,132	12,271,579	—	—	210,426	3,995,240

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
North Carolina						
Greenville Utilities Comm/Jun 30						
Firm Power	—	—	1,320,000	91,235,902	1,329,000	91,565,143
Total Power	—	—	1,320,000	91,235,902	1,329,000	91,565,143
High Point Town of/Jun 30						
Firm Power	—	—	914,222	53,801,438	914,222	53,801,438
Total Power	—	—	914,222	53,801,438	914,222	53,801,438
Kinston City of/Jun 30						
Firm Power	—	—	461,542	28,604,920	462,655	28,665,278
Total Power	—	—	461,542	28,604,920	462,655	28,665,278
Laurinburg City of						
Firm Power	—	—	123,913	8,717,221	124,222	8,734,305
Total Power	—	—	123,913	8,717,221	124,222	8,734,305
Lexington City of/Jun 30						
Firm Power	—	—	482,171	29,123,157	482,171	29,123,157
Total Power	—	—	482,171	29,123,157	482,171	29,123,157
Lumberton City of/Jun 30						
Firm Power	—	—	279,244	19,706,057	279,920	19,741,775
Total Power	—	—	279,244	19,706,057	279,920	19,741,775
Monroe City of/Jun 30						
Firm Power	—	—	479,054	22,954,776	479,054	22,954,776
Total Power	—	—	479,054	22,954,776	479,054	22,954,776
Morganton City of/Jun 30						
Firm Power	—	—	290,939	15,729,383	313,816	16,256,268
Total Power	—	—	290,939	15,729,383	313,816	16,256,268
New Bern City of/Jun 30						
Firm Power	—	—	410,269	29,668,580	411,179	29,716,629
Total Power	—	—	410,269	29,668,580	411,179	29,716,629
North Carolina Eastern M P A/Dec 31						
Firm Power	—	—	—	—	2,259,244	115,028,000
Total Power	—	—	—	—	2,259,244	115,028,000
North Carolina Mun Power Agny/Dec 31						
Firm Power	—	—	—	—	820,959	59,745,000
Total Power	—	—	—	—	820,959	59,745,000
Rocky Mount City of/Jun 30						
Firm Power	—	—	828,273	54,685,279	828,273	54,786,565
Total Power	—	—	828,273	54,685,279	828,273	54,786,565
Shelby City of/Jun 30						
Firm Power	—	—	181,149	10,188,260	185,021	10,406,196
Total Power	—	—	181,149	10,188,260	185,021	10,406,196
Statesville City of/Jun 30						
Firm Power	—	—	401,976	22,380,190	408,354	22,739,232
Total Power	—	—	401,976	22,380,190	408,354	22,739,232
Tarboro Town of/Jun 30						
Firm Power	—	—	258,566	18,257,473	258,566	18,257,473
Total Power	—	—	258,566	18,257,473	258,566	18,257,473
Washington City of/Dec 31						
Firm Power	—	—	264,818	17,413,127	266,860	17,520,998
Total Power	—	—	264,818	17,413,127	266,860	17,520,998
Wilson City of/Jun 30						
Firm Power	—	—	1,141,298	73,918,676	1,141,298	73,918,676
Total Power	—	—	1,141,298	73,918,676	1,141,298	73,918,676
Ohio						
American Mun Power-Ohio Inc/Dec 31						
Firm Power	—	—	850,259	20,888,900	4,450,746	130,097,910
Nonfirm Power	—	—	10,979	181,719	10,979	181,719
Total Power	—	—	861,238	21,070,619	4,461,725	130,279,629
Bowling Green City of/Dec 31						
Firm Power	—	—	340,425	15,131,399	340,425	15,131,399
Total Power	—	—	340,425	15,131,399	340,425	15,131,399
Bryan City of/Dec 31						
Nonfirm Power	—	—	80,708	1,814,456	476,136	14,334,372
Total Power	—	—	80,708	1,814,456	476,136	14,334,372
Celina City of/Dec 31						
Firm Power	—	—	8,399	171,248	170,220	5,456,964
Total Power	—	—	8,399	171,248	170,220	5,456,964
Cleveland City of/Dec 31						
Nonfirm Power	255,238	7,124,274	673,679	21,212,229	1,483,475	44,603,322
Total Power	255,238	7,124,274	673,679	21,212,229	1,483,475	44,603,322

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Ohio						
Columbus City of/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	88	33,194	—	—	—	—
Total Power	88	33,194	—	—	—	—
Cuyahoga Falls City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Dover City of/Dec 31						
Firm Power	53,713	1,645,941	—	—	12,516	239,429
Nonfirm Power	—	—	—	—	—	—
Total Power	53,713	1,645,941	—	—	12,516	239,429
Hamilton City of/Dec 31						
Firm Power	73,078	2,278,963	—	—	37,874	750,528
Nonfirm Power	960	17,120	—	—	—	—
Total Power	74,038	2,296,083	—	—	37,874	750,528
Napoleon City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Niles City of/Dec 31						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Orrville City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Painesville City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Piqua City of/Dec 31						
Firm Power	—	—	—	—	16,344	381,504
Total Power	—	—	—	—	16,344	381,504
St Marys City of/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Wadsworth City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Wapakoneta City of/Dec 31						
Nonfirm Power	168,350	4,949,843	—	—	—	—
Total Power	168,350	4,949,843	—	—	—	—
Westerville City of/Dec 31						
Firm Power	—	—	—	—	11,217	235,288
Total Power	—	—	—	—	11,217	235,288
Oklahoma						
Altus City of/Jun 30						
Firm Power	—	—	—	—	179,278	7,490,344
Total Power	—	—	—	—	179,278	7,490,344
Claremore City of/Jun 30						
Firm Power	—	—	—	—	240,420	8,145,417
Total Power	—	—	—	—	240,420	8,145,417
Duncan City of/Jun 30						
Firm Power	—	—	59,019	1,431,701	87,802	3,842,220
Total Power	—	—	59,019	1,431,701	87,802	3,842,220
Edmond City of/Jun 30						
Firm Power	—	—	—	—	562,002	23,682,507
Total Power	—	—	—	—	562,002	23,682,507
Miami City of/Jun 30						
Firm Power	—	—	—	—	156,561	5,338,115
Total Power	—	—	—	—	156,561	5,338,115
Ponca City City of/Jun 30						
Firm Power	—	—	—	—	336,448	13,909,159
Total Power	—	—	—	—	336,448	13,909,159
Stillwater Utilities Authority/Jun 30						
Firm Power	—	—	—	—	398,180	12,458,880
Other Power	—	—	—	—	533,000	—
Total Power	—	—	—	—	931,180	12,458,880
Oregon						
Ashland City of/Jun 30						
Firm Power	153,058	4,523,887	—	—	—	—
Total Power	153,058	4,523,887	—	—	—	—

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Ohio						
Columbus City of/Dec 31						
Firm Power	—	—	736,394	19,818,437	736,394	19,818,437
Nonfirm Power	—	—	—	—	88	33,194
Total Power	—	—	736,394	19,818,437	736,482	19,851,631
Cuyahoga Falls City of/Dec 31						
Firm Power	—	—	358,004	14,651,782	358,004	14,651,782
Total Power	—	—	358,004	14,651,782	358,004	14,651,782
Dover City of/Dec 31						
Firm Power	—	—	68,071	2,661,981	134,300	4,547,351
Nonfirm Power	—	—	1,008	21,662	1,008	21,662
Total Power	—	—	69,079	2,683,643	135,308	4,569,013
Hamilton City of/Dec 31						
Firm Power	154,903	3,161,525	—	1,426,820	265,855	7,617,836
Nonfirm Power	—	—	13,800	212,342	14,760	229,462
Total Power	154,903	3,161,525	13,800	1,639,162	280,615	7,847,298
Napoleon City of/Dec 31						
Firm Power	—	—	159,069	7,242,951	159,069	7,242,951
Total Power	—	—	159,069	7,242,951	159,069	7,242,951
Niles City of/Dec 31						
Nonfirm Power	—	—	291,867	12,140,000	291,867	12,140,000
Total Power	—	—	291,867	12,140,000	291,867	12,140,000
Orrville City of/Dec 31						
Firm Power	—	—	33,058	1,278,698	33,058	1,278,698
Total Power	—	—	33,058	1,278,698	33,058	1,278,698
Painesville City of/Dec 31						
Firm Power	—	—	69,541	1,954,311	69,541	1,954,311
Total Power	—	—	69,541	1,954,311	69,541	1,954,311
Piqua City of/Dec 31						
Firm Power	—	—	245,418	6,056,066	261,762	6,437,570
Total Power	—	—	245,418	6,056,066	261,762	6,437,570
St Marys City of/Dec 31						
Firm Power	—	—	146,170	3,667,429	146,170	3,667,429
Nonfirm Power	—	—	—	2,493	—	2,493
Total Power	—	—	146,170	3,669,922	146,170	3,669,922
Wadsworth City of/Dec 31						
Firm Power	—	—	247,061	9,653,243	247,061	9,653,243
Total Power	—	—	247,061	9,653,243	247,061	9,653,243
Wapakoneta City of/Dec 31						
Nonfirm Power	—	—	6,413	145,286	174,763	5,095,129
Total Power	—	—	6,413	145,286	174,763	5,095,129
Westerville City of/Dec 31						
Firm Power	—	—	381,450	11,531,722	392,667	11,767,010
Total Power	—	—	381,450	11,531,722	392,667	11,767,010
Oklahoma						
Altus City of/Jun 30						
Firm Power	—	—	—	—	179,278	7,490,344
Total Power	—	—	—	—	179,278	7,490,344
Claremore City of/Jun 30						
Firm Power	—	—	—	—	240,420	8,145,417
Total Power	—	—	—	—	240,420	8,145,417
Duncan City of/Jun 30						
Firm Power	—	—	—	—	146,821	5,273,921
Total Power	—	—	—	—	146,821	5,273,921
Edmond City of/Jun 30						
Firm Power	—	—	—	—	562,002	23,682,507
Total Power	—	—	—	—	562,002	23,682,507
Miami City of/Jun 30						
Firm Power	—	—	—	—	156,561	5,338,115
Total Power	—	—	—	—	156,561	5,338,115
Ponca City City of/Jun 30						
Firm Power	—	—	—	—	336,448	13,909,159
Total Power	—	—	—	—	336,448	13,909,159
Stillwater Utilities Authority/Jun 30						
Firm Power	—	—	—	—	398,180	12,458,880
Other Power	—	—	—	—	533,000	—
Total Power	—	—	—	—	931,180	12,458,880
Oregon						
Ashland City of/Jun 30						
Firm Power	—	—	—	—	153,058	4,523,887
Total Power	—	—	—	—	153,058	4,523,887

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Oregon						
Eugene City of/Dec 31						
Firm Power	480,163	10,986,969	672,926	20,236,746	—	—
Nonfirm Power	174,813	3,121,478	—	—	242,888	1,326,536
Other Power	—	—	—	—	—	—
Total Power	654,976	14,108,447	672,926	20,236,746	242,888	1,326,536
Forest Grove City of/June 30						
Firm Power	—	—	182,763	4,671,340	—	—
Nonfirm Power	—	—	—	—	41,100	1,527,871
Total Power	—	—	182,763	4,671,340	41,100	1,527,871
McMinnville City of/June 30						
Firm Power	—	—	635,880	18,905,360	41,367	306,332
Total Power	—	—	635,880	18,905,360	41,367	306,332
Springfield City of/Dec 31						
Firm Power	258,850	5,728,114	349,117	11,305,521	—	—
Nonfirm Power	167,194	2,127,436	65,639	613,460	15,879	133,962
Total Power	426,044	7,855,550	414,756	11,918,981	15,879	133,962
Pennsylvania						
Chambersburg Borough of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Ephrata Borough of/Dec 31						
Firm Power	128,774	4,792,387	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	128,774	4,792,387	—	—	—	—
Lansdale Borough of/Dec 31						
Firm Power	126,673	4,565,824	—	—	—	—
Total Power	126,673	4,565,824	—	—	—	—
South Carolina						
Camden City of/June 30						
Firm Power	175,311	8,558,315	—	—	—	—
Total Power	175,311	8,558,315	—	—	—	—
Easley Combined Utility System/Mar 31						
Firm Power	—	—	19,511	470,709	—	—
Total Power	—	—	19,511	470,709	—	—
Gaffney City of/Mar 31						
Firm Power	—	—	15,821	381,677	—	—
Total Power	—	—	15,821	381,677	—	—
Greenwood Commissioners-Pub Wk/Dec 31						
Firm Power	—	—	23,277	606,000	—	—
Nonfirm Power	236,715	10,518,000	—	—	—	—
Total Power	236,715	10,518,000	23,277	606,000	—	—
Greer Comm of Public Works/Dec 31						
Firm Power	—	—	19,087	496,576	—	—
Total Power	—	—	19,087	496,576	—	—
Newberry City of/June 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	—	—	2,093	121,198	—	—
Total Power	—	—	2,093	121,198	—	—
Orangeburg City of/Sep 30						
Firm Power	784,639	29,767,701	25,631	813,135	—	—
Total Power	784,639	29,767,701	25,631	813,135	—	—
Piedmont Municipal Power Agny/Dec 31						
Firm Power	1,033,921	23,108,000	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	1,033,921	23,108,000	—	—	—	—
Rock Hill City of/Dec 31						
Firm Power	—	—	38,610	1,004,520	—	—
Total Power	—	—	38,610	1,004,520	—	—
Seneca City of/June 30						
Firm Power	144,485	6,527,242	1,766	99,432	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	144,485	6,527,242	1,766	99,432	—	—
South Dakota						
Brookings City of/Dec 31						
Firm Power	—	—	104,596	1,498,145	98,864	3,916,489
Total Power	—	—	104,596	1,498,145	98,864	3,916,489

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Oregon						
Eugene City of/Dec 31						
Firm Power	—	—	77,599	1,581,401	1,230,688	32,805,116
Nonfirm Power	—	—	331,949	3,373,382	749,650	7,821,396
Other Power	—	—	1,400	—	1,400	—
Total Power	—	—	410,948	4,954,783	1,981,738	40,626,512
Forest Grove City of/June 30						
Firm Power	—	—	—	—	182,763	4,671,340
Nonfirm Power	—	—	6,713	787,372	47,813	2,315,243
Total Power	—	—	6,713	787,372	230,576	6,986,583
McMinnville City of/June 30						
Firm Power	—	—	8,560	25,187	685,807	19,236,879
Total Power	—	—	8,560	25,187	685,807	19,236,879
Springfield City of/Dec 31						
Firm Power	—	—	10,448	36,315	618,415	17,069,950
Nonfirm Power	—	—	27,827	312,294	276,539	3,187,152
Total Power	—	—	38,275	348,609	894,954	20,257,102
Pennsylvania						
Chambersburg Borough of/Dec 31						
Firm Power	—	—	260,092	10,246,507	260,092	10,246,507
Total Power	—	—	260,092	10,246,507	260,092	10,246,507
Ephrata Borough of/Dec 31						
Firm Power	—	—	—	—	128,774	4,792,387
Nonfirm Power	6,585	39,671	—	—	6,585	39,671
Total Power	6,585	39,671	—	—	135,359	4,832,058
Lansdale Borough of/Dec 31						
Firm Power	—	—	—	—	126,673	4,565,824
Total Power	—	—	—	—	126,673	4,565,824
South Carolina						
Camden City of/June 30						
Firm Power	—	—	—	—	175,311	8,558,315
Total Power	—	—	—	—	175,311	8,558,315
Easley Combined Utility System/Mar 31						
Firm Power	—	—	215,383	11,199,474	234,894	11,670,183
Total Power	—	—	215,383	11,199,474	234,894	11,670,183
Gaffney City of/Mar 31						
Firm Power	—	—	179,797	8,259,964	195,618	8,641,641
Total Power	—	—	179,797	8,259,964	195,618	8,641,641
Greenwood Commissioners-Pub Wk/Dec 31						
Firm Power	—	—	—	—	23,277	606,000
Nonfirm Power	—	—	—	—	236,715	10,518,000
Total Power	—	—	—	—	259,992	11,124,000
Greer Comm of Public Works/Dec 31						
Firm Power	—	—	170,397	9,497,721	189,484	9,994,297
Total Power	—	—	170,397	9,497,721	189,484	9,994,297
Newberry City of/June 30						
Firm Power	—	—	149,537	8,283,124	149,537	8,283,124
Nonfirm Power	—	—	—	—	2,093	121,198
Total Power	—	—	149,537	8,283,124	151,630	8,404,322
Orangeburg City of/Sep 30						
Firm Power	—	—	—	—	810,270	30,580,836
Total Power	—	—	—	—	810,270	30,580,836
Piedmont Municipal Power Agny/Dec 31						
Firm Power	—	—	144,304	8,521,000	1,178,225	31,629,000
Nonfirm Power	738	21,000	—	—	738	21,000
Total Power	738	21,000	144,304	8,521,000	1,178,963	31,650,000
Rock Hill City of/Dec 31						
Firm Power	—	—	517,607	29,426,400	556,217	30,430,920
Total Power	—	—	517,607	29,426,400	556,217	30,430,920
Seneca City of/June 30						
Firm Power	—	—	—	—	146,251	6,626,674
Nonfirm Power	—	—	3,594	119,433	3,594	119,433
Total Power	—	—	3,594	119,433	149,845	6,746,107
South Dakota						
Brookings City of/Dec 31						
Firm Power	—	—	—	—	203,460	5,414,634
Total Power	—	—	—	—	203,460	5,414,634

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
South Dakota						
Pierre City of/Dec 31						
Firm Power	—	—	111,463	1,753,456	65,460	2,552,742
Total Power	—	—	111,463	1,753,456	65,460	2,552,742
Watertown Municipal Utilities/Dec 31						
Firm Power	—	—	127,068	1,842,855	134,471	5,191,709
Total Power	—	—	127,068	1,842,855	134,471	5,191,709
Tennessee						
Alcoa Utilities/Jun 30						
Firm Power	—	—	510,266	22,454,177	—	—
Total Power	—	—	510,266	22,454,177	—	—
Athens Utility Board/Jun 30						
Firm Power	—	—	591,868	22,861,926	—	—
Total Power	—	—	591,868	22,861,926	—	—
Benton County/Jun 30						
Firm Power	—	—	239,459	10,091,363	—	—
Total Power	—	—	239,459	10,091,363	—	—
Bolivar City of/Jun 30						
Firm Power	—	—	244,041	11,035,381	—	—
Total Power	—	—	244,041	11,035,381	—	—
Bristol City of/Jun 30						
Firm Power	—	—	914,989	38,475,266	—	—
Total Power	—	—	914,989	38,475,266	—	—
Carroll County/Jun 30						
Firm Power	—	—	421,687	18,512,630	—	—
Total Power	—	—	421,687	18,512,630	—	—
Chattanooga City of/Jun 30						
Firm Power	—	—	6,006,121	251,683,672	—	—
Total Power	—	—	6,006,121	251,683,672	—	—
Clarksville City of/Jun 30						
Firm Power	—	—	1,019,076	44,819,777	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	1,019,076	44,819,777	—	—
Cleveland City of/Jun 30						
Firm Power	—	—	993,123	41,910,937	—	—
Total Power	—	—	993,123	41,910,937	—	—
Clinton City of/Jun 30						
Firm Power	—	—	721,889	31,390,935	—	—
Total Power	—	—	721,889	31,390,935	—	—
Columbia City of/Jun 30						
Firm Power	—	—	551,220	24,552,997	—	—
Total Power	—	—	551,220	24,552,997	—	—
Cookeville City of/Jun 30						
Firm Power	—	—	520,989	23,485,066	—	—
Total Power	—	—	520,989	23,485,066	—	—
Covington City of/Jun 30						
Firm Power	—	—	239,006	10,316,384	—	—
Total Power	—	—	239,006	10,316,384	—	—
Dickson City of/Jun 30						
Firm Power	—	—	699,723	30,486,863	—	—
Total Power	—	—	699,723	30,486,863	—	—
Dyersburg City of/Jun 30						
Firm Power	—	—	658,158	25,076,321	—	—
Total Power	—	—	658,158	25,076,321	—	—
Elizabethton City of/Jun 30						
Firm Power	—	—	546,840	24,152,107	—	—
Total Power	—	—	546,840	24,152,107	—	—
Erwin Town of/Jun 30						
Firm Power	—	—	235,047	9,750,487	—	—
Total Power	—	—	235,047	9,750,487	—	—
Fayetteville City of/Jun 30						
Firm Power	—	—	399,606	17,823,568	—	—
Total Power	—	—	399,606	17,823,568	—	—
Gallatin City of/Jun 30						
Firm Power	—	—	528,460	21,402,207	—	—
Total Power	—	—	528,460	21,402,207	—	—
Greenville City of/Jun 30						
Firm Power	—	—	1,034,527	42,291,799	—	—
Total Power	—	—	1,034,527	42,291,799	—	—

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
South Dakota						
Pierre City of/Dec 31						
Firm Power	—	—	—	—	176,923	4,306,198
Total Power	—	—	—	—	176,923	4,306,198
Watertown Municipal Utilities/Dec 31						
Firm Power	—	—	—	—	261,539	7,034,564
Total Power	—	—	—	—	261,539	7,034,564
Tennessee						
Alcoa Utilities/Jun 30						
Firm Power	—	—	—	—	510,266	22,454,177
Total Power	—	—	—	—	510,266	22,454,177
Athens Utility Board/Jun 30						
Firm Power	—	—	—	—	591,868	22,861,926
Total Power	—	—	—	—	591,868	22,861,926
Benton County/Jun 30						
Firm Power	—	—	—	—	239,459	10,091,363
Total Power	—	—	—	—	239,459	10,091,363
Bolivar City of/Jun 30						
Firm Power	—	—	—	—	244,041	11,035,381
Total Power	—	—	—	—	244,041	11,035,381
Bristol City of/Jun 30						
Firm Power	—	—	—	—	914,989	38,475,266
Total Power	—	—	—	—	914,989	38,475,266
Carroll County/Jun 30						
Firm Power	—	—	—	—	421,687	18,512,630
Total Power	—	—	—	—	421,687	18,512,630
Chattanooga City of/Jun 30						
Firm Power	—	—	—	—	6,006,121	251,683,672
Total Power	—	—	—	—	6,006,121	251,683,672
Clarksville City of/Jun 30						
Firm Power	—	—	—	—	1,019,076	44,819,777
Nonfirm Power	—	—	—	55,170	—	55,170
Total Power	—	—	—	55,170	1,019,076	44,874,947
Cleveland City of/Jun 30						
Firm Power	—	—	—	—	993,123	41,910,937
Total Power	—	—	—	—	993,123	41,910,937
Clinton City of/Jun 30						
Firm Power	—	—	—	—	721,889	31,390,935
Total Power	—	—	—	—	721,889	31,390,935
Columbia City of/Jun 30						
Firm Power	—	—	—	—	551,220	24,552,997
Total Power	—	—	—	—	551,220	24,552,997
Cookeville City of/Jun 30						
Firm Power	—	—	—	—	520,989	23,485,066
Total Power	—	—	—	—	520,989	23,485,066
Covington City of/Jun 30						
Firm Power	—	—	—	—	239,006	10,316,384
Total Power	—	—	—	—	239,006	10,316,384
Dickson City of/Jun 30						
Firm Power	—	—	—	—	699,723	30,486,863
Total Power	—	—	—	—	699,723	30,486,863
Dyersburg City of/Jun 30						
Firm Power	—	—	—	—	658,158	25,076,321
Total Power	—	—	—	—	658,158	25,076,321
Elizabethton City of/Jun 30						
Firm Power	—	—	—	—	546,840	24,152,107
Total Power	—	—	—	—	546,840	24,152,107
Erwin Town of/Jun 30						
Firm Power	—	—	—	—	235,047	9,750,487
Total Power	—	—	—	—	235,047	9,750,487
Fayetteville City of/Jun 30						
Firm Power	—	—	—	—	399,606	17,823,568
Total Power	—	—	—	—	399,606	17,823,568
Gallatin City of/Jun 30						
Firm Power	—	—	—	—	528,460	21,402,207
Total Power	—	—	—	—	528,460	21,402,207
Greenville City of/Jun 30						
Firm Power	—	—	—	—	1,034,527	42,291,799
Total Power	—	—	—	—	1,034,527	42,291,799

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Tennessee						
Harriman City of/Jun 30						
Firm Power	—	—	287,725	11,572,957	—	—
Total Power	—	—	287,725	11,572,957	—	—
Humboldt City of/Jun 30						
Firm Power	—	—	249,241	10,772,123	—	—
Total Power	—	—	249,241	10,772,123	—	—
Jackson City of/Jun 30						
Firm Power	—	—	1,386,580	57,133,124	—	—
Total Power	—	—	1,386,580	57,133,124	—	—
Johnson City of/Jun 30						
Firm Power	—	—	1,791,100	78,695,028	—	—
Total Power	—	—	1,791,100	78,695,028	—	—
Knoxville Utilities Board/Jun 30						
Firm Power	—	—	5,430,553	230,351,901	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	5,430,553	230,351,901	—	—
Lawrenceburg City of/Jun 30						
Firm Power	—	—	523,421	21,714,305	—	—
Total Power	—	—	523,421	21,714,305	—	—
LaFollette City of/Jun 30						
Firm Power	—	—	403,864	18,159,630	—	—
Total Power	—	—	403,864	18,159,630	—	—
Lebanon City of/Jun 30						
Firm Power	—	—	397,579	17,582,564	—	—
Total Power	—	—	397,579	17,582,564	—	—
Lenoir City of/Jun 30						
Firm Power	—	—	1,219,208	54,246,091	—	—
Total Power	—	—	1,219,208	54,246,091	—	—
Lewisburg City of/Jun 30						
Firm Power	—	—	303,914	13,034,186	—	—
Total Power	—	—	303,914	13,034,186	—	—
Lexington City of/Jun 30						
Firm Power	—	—	437,822	19,354,439	—	—
Total Power	—	—	437,822	19,354,439	—	—
Loudon Utilities Board/Jun 30						
Firm Power	—	—	328,023	13,847,633	—	—
Total Power	—	—	328,023	13,847,633	—	—
Maryville Utilities/Jun 30						
Firm Power	—	—	617,923	25,653,682	—	—
Total Power	—	—	617,923	25,653,682	—	—
McMinnville Electric System/Jun 30						
Firm Power	—	—	248,364	10,874,868	—	—
Total Power	—	—	248,364	10,874,868	—	—
Memphis City of/Jun 30						
Firm Power	—	—	13,193,562	574,567,539	—	—
Total Power	—	—	13,193,562	574,567,539	—	—
Milan City of/Jun 30						
Firm Power	—	—	253,333	11,510,171	—	—
Total Power	—	—	253,333	11,510,171	—	—
Morristown City of/Jun 30						
Firm Power	—	—	747,717	31,795,396	—	—
Total Power	—	—	747,717	31,795,396	—	—
Murfreesboro City of/Jun 30						
Firm Power	—	—	1,015,144	44,390,603	—	—
Total Power	—	—	1,015,144	44,390,603	—	—
Nashville Electric Service/Jun 30						
Firm Power	—	—	11,702,685	499,317,262	—	—
Total Power	—	—	11,702,685	499,317,262	—	—
Newport City of/Jun 30						
Firm Power	—	—	475,028	19,741,350	—	—
Total Power	—	—	475,028	19,741,350	—	—
Oak Ridge City of/Jun 30						
Firm Power	—	—	522,551	22,873,859	—	—
Total Power	—	—	522,551	22,873,859	—	—
Paris City of/Jun 30						
Firm Power	—	—	480,542	20,906,847	—	—
Total Power	—	—	480,542	20,906,847	—	—

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Tennessee						
Harriman City of/Jun 30						
Firm Power	—	—	—	—	287,725	11,572,957
Total Power	—	—	—	—	287,725	11,572,957
Humboldt City of/Jun 30						
Firm Power	—	—	—	—	249,241	10,772,123
Total Power	—	—	—	—	249,241	10,772,123
Jackson City of/Jun 30						
Firm Power	—	—	—	—	1,386,580	57,133,124
Total Power	—	—	—	—	1,386,580	57,133,124
Johnson City City of/Jun 30						
Firm Power	—	—	—	—	1,791,100	78,695,028
Total Power	—	—	—	—	1,791,100	78,695,028
Knoxville Utilities Board/Jun 30						
Firm Power	—	—	—	—	5,430,553	230,351,901
Nonfirm Power	—	—	18,649	417,380	18,649	417,380
Total Power	—	—	18,649	417,380	5,449,202	230,769,281
Lawrenceburg City of/Jun 30						
Firm Power	—	—	—	—	523,421	21,714,305
Total Power	—	—	—	—	523,421	21,714,305
LaFollette City of/Jun 30						
Firm Power	—	—	—	—	403,864	18,159,630
Total Power	—	—	—	—	403,864	18,159,630
Lebanon City of/Jun 30						
Firm Power	—	—	—	—	397,579	17,582,564
Total Power	—	—	—	—	397,579	17,582,564
Lenoir City City of/Jun 30						
Firm Power	—	—	—	—	1,219,208	54,246,091
Total Power	—	—	—	—	1,219,208	54,246,091
Lewisburg City of/Jun 30						
Firm Power	—	—	—	—	303,914	13,034,186
Total Power	—	—	—	—	303,914	13,034,186
Lexington City of/Jun 30						
Firm Power	—	—	—	—	437,822	19,354,439
Total Power	—	—	—	—	437,822	19,354,439
Loudon Utilities Board/Jun 30						
Firm Power	—	—	—	—	328,023	13,847,633
Total Power	—	—	—	—	328,023	13,847,633
Maryville Utilities/Jun 30						
Firm Power	—	—	—	—	617,923	25,653,682
Total Power	—	—	—	—	617,923	25,653,682
McMinnville Electric System/Jun 30						
Firm Power	—	—	—	—	248,364	10,874,868
Total Power	—	—	—	—	248,364	10,874,868
Memphis City of/Jun 30						
Firm Power	—	—	—	—	13,193,562	574,567,539
Total Power	—	—	—	—	13,193,562	574,567,539
Milan City of/Jun 30						
Firm Power	—	—	—	—	253,333	11,510,171
Total Power	—	—	—	—	253,333	11,510,171
Morristown City of/Jun 30						
Firm Power	—	—	—	—	747,717	31,795,396
Total Power	—	—	—	—	747,717	31,795,396
Murfreesboro City of/Jun 30						
Firm Power	—	—	—	—	1,015,144	44,390,603
Total Power	—	—	—	—	1,015,144	44,390,603
Nashville Electric Service/Jun 30						
Firm Power	—	—	—	—	11,702,685	499,317,262
Total Power	—	—	—	—	11,702,685	499,317,262
Newport City of/Jun 30						
Firm Power	—	—	—	—	475,028	19,741,350
Total Power	—	—	—	—	475,028	19,741,350
Oak Ridge City of/Jun 30						
Firm Power	—	—	—	—	522,551	22,873,859
Total Power	—	—	—	—	522,551	22,873,859
Paris City of/Jun 30						
Firm Power	—	—	—	—	480,542	20,906,847
Total Power	—	—	—	—	480,542	20,906,847

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Tennessee						
Pulaski City of/Jun 30						
Firm Power	—	—	464,469	19,058,330	—	—
Total Power	—	—	464,469	19,058,330	—	—
Ripley City of/Jun 30						
Firm Power	—	—	258,217	11,735,852	—	—
Total Power	—	—	258,217	11,735,852	—	—
Rockwood City of/Jun 30						
Firm Power	—	—	332,030	14,261,964	—	—
Total Power	—	—	332,030	14,261,964	—	—
Shelbyville City of/Jun 30						
Firm Power	—	—	352,838	16,010,338	—	—
Total Power	—	—	352,838	16,010,338	—	—
Springfield City of/Jun 30						
Firm Power	—	—	241,188	10,468,033	—	—
Total Power	—	—	241,188	10,468,033	—	—
Tullahoma Board of Pub Utils/Jun 30						
Firm Power	—	—	296,162	13,272,661	—	—
Total Power	—	—	296,162	13,272,661	—	—
Union City City of/Jun 30						
Firm Power	—	—	380,057	14,404,321	—	—
Total Power	—	—	380,057	14,404,321	—	—
Weakley County Mun Elec Sys/Jun 30						
Firm Power	—	—	519,581	23,083,891	—	—
Total Power	—	—	519,581	23,083,891	—	—
Texas						
Austin City of/Sep 30						
Nonfirm Power	115,488	2,571,258	—	—	40,648	1,817,701
Total Power	115,488	2,571,258	—	—	40,648	1,817,701
Brenham City of/Sep 30						
Firm Power	—	—	—	—	286,284	11,141,798
Total Power	—	—	—	—	286,284	11,141,798
Brownsville Public Utils Board/Sep 30						
Firm Power	88,431	3,591,559	—	—	—	—
Nonfirm Power	141,634	3,304,466	—	—	16,641	392,800
Total Power	230,065	6,896,025	—	—	16,641	392,800
Bryan City of/Sep 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
College Station City of/Sep 30						
Firm Power	418,784	12,392,131	—	—	—	—
Total Power	418,784	12,392,131	—	—	—	—
Denton City of/Sep 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Floresville City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Garland City of/Sep 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Georgetown City of/Sep 30						
Firm Power	—	—	—	—	218,536	9,307,929
Total Power	—	—	—	—	218,536	9,307,929
Greenville Electric Util Sys/Sep 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Jasper City of/Sep 30						
Firm Power	—	—	—	—	141,744	10,493,731
Total Power	—	—	—	—	141,744	10,493,731
Kerrville Public Utility Board/Sep 30						
Firm Power	—	—	—	—	408,990	17,575,418
Total Power	—	—	—	—	408,990	17,575,418
Lubbock City of/Sep 30						
Firm Power	376,844	11,567,159	—	—	—	—
Nonfirm Power	128,801	3,446,007	—	—	—	—
Total Power	505,645	15,013,166	—	—	—	—

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Tennessee						
Pulaski City of/Jun 30						
Firm Power	—	—	—	—	464,469	19,058,330
Total Power	—	—	—	—	464,469	19,058,330
Ripley City of/Jun 30						
Firm Power	—	—	—	—	258,217	11,735,852
Total Power	—	—	—	—	258,217	11,735,852
Rockwood City of/Jun 30						
Firm Power	—	—	—	—	332,030	14,261,964
Total Power	—	—	—	—	332,030	14,261,964
Shelbyville City of/Jun 30						
Firm Power	—	—	—	—	352,838	16,010,338
Total Power	—	—	—	—	352,838	16,010,338
Springfield City of/Jun 30						
Firm Power	—	—	—	—	241,188	10,468,033
Total Power	—	—	—	—	241,188	10,468,033
Tullahoma Board of Pub Utils/Jun 30						
Firm Power	—	—	—	—	296,162	13,272,661
Total Power	—	—	—	—	296,162	13,272,661
Union City City of/Jun 30						
Firm Power	—	—	—	—	380,057	14,404,321
Total Power	—	—	—	—	380,057	14,404,321
Weakley County Mun Elec Sys/Jun 30						
Firm Power	—	—	—	—	519,581	23,083,891
Total Power	—	—	—	—	519,581	23,083,891
Texas						
Austin City of/Sep 30						
Nonfirm Power	10,219	169,769	225,067	9,974,910	391,422	14,533,638
Total Power	10,219	169,769	225,067	9,974,910	391,422	14,533,638
Brenham City of/Sep 30						
Firm Power	—	—	—	—	286,284	11,141,798
Total Power	—	—	—	—	286,284	11,141,798
Brownsville Public Utils Board/Sep 30						
Firm Power	—	—	—	—	88,431	3,591,559
Nonfirm Power	380	6,932	20,255	460,345	178,910	4,164,543
Total Power	380	6,932	20,255	460,345	267,341	7,756,102
Bryan City of/Sep 30						
Firm Power	—	—	226,722	33,743,135	226,722	33,743,135
Nonfirm Power	—	—	670,665	9,905,188	670,665	9,905,188
Total Power	—	—	897,387	43,648,323	897,387	43,648,323
College Station City of/Sep 30						
Firm Power	—	—	107,014	5,057,886	525,798	17,450,017
Total Power	—	—	107,014	5,057,886	525,798	17,450,017
Denton City of/Sep 30						
Firm Power	—	—	762,344	34,384,263	762,344	34,384,263
Total Power	—	—	762,344	34,384,263	762,344	34,384,263
Floresville City of/Dec 31						
Firm Power	—	—	195,364	7,670,969	195,364	7,670,969
Total Power	—	—	195,364	7,670,969	195,364	7,670,969
Garland City of/Sep 30						
Firm Power	—	—	—	63,936,817	—	63,936,817
Total Power	—	—	—	63,936,817	—	63,936,817
Georgetown City of/Sep 30						
Firm Power	—	—	—	—	218,536	9,307,929
Total Power	—	—	—	—	218,536	9,307,929
Greenville Electric Util Sys/Sep 30						
Firm Power	—	—	238,266	15,003,000	238,266	15,003,000
Nonfirm Power	184,875	1,377,000	—	—	184,875	1,377,000
Total Power	184,875	1,377,000	238,266	15,003,000	423,141	16,380,000
Jasper City of/Sep 30						
Firm Power	—	—	—	—	141,744	10,493,731
Total Power	—	—	—	—	141,744	10,493,731
Kerrville Public Utility Board/Sep 30						
Firm Power	—	—	—	—	408,990	17,575,418
Total Power	—	—	—	—	408,990	17,575,418
Lubbock City of/Sep 30						
Firm Power	—	—	—	—	376,844	11,567,159
Nonfirm Power	—	—	—	—	128,801	3,446,007
Total Power	—	—	—	—	505,645	15,013,166

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Texas						
New Braunfels City of/Jul 31						
Firm Power	—	—	—	—	867,670	32,988,650
Total Power	—	—	—	—	867,670	32,988,650
San Antonio Public Service Bd/Jan 31						
Firm Power	—	44,973	—	—	—	—
Nonfirm Power	392,812	10,653,102	—	—	5,663	186,139
Total Power	392,812	10,698,075	—	—	5,663	186,139
San Marcos City of/Sep 30						
Firm Power	—	—	—	—	371,132	15,070,809
Total Power	—	—	—	—	371,132	15,070,809
Seguin City of/Sep 30						
Firm Power	—	—	—	—	230,417	9,210,046
Total Power	—	—	—	—	230,417	9,210,046
Texas Municipal Power Agency/Sep 30						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Weatherford Mun Utility System/Sep 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Utah						
Bountiful City City of/Jun 30						
Firm Power	—	—	136,705	2,490,492	—	—
Nonfirm Power	15,962	448,783	—	—	28,425	1,020,154
Total Power	15,962	448,783	136,705	2,490,492	28,425	1,020,154
Logan City of/Jun 30						
Firm Power	—	—	92,826	1,831,636	163,407	6,065,523
Nonfirm Power	—	—	—	—	32,841	975,119
Total Power	—	—	92,826	1,831,636	196,248	7,040,642
Murray City of/Jun 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	—	—	—	—	188,397	6,683,851
Total Power	—	—	—	—	188,397	6,683,851
Provo City Corp/Jun 30						
Firm Power	—	—	—	—	612,071	24,626,725
Total Power	—	—	—	—	612,071	24,626,725
St George City of/Jun 30						
Nonfirm Power	—	—	—	—	372,171	14,088,892
Total Power	—	—	—	—	372,171	14,088,892
Vermont						
Burlington City of/Dec 31						
Firm Power	161,543	5,900,814	—	—	—	—
Total Power	161,543	5,900,814	—	—	—	—
Virginia						
Bedford City of/Jun 30						
Firm Power	—	—	891	63,425	—	—
Total Power	—	—	891	63,425	—	—
Bristo Utilities Board/Jun 30						
Firm Power	—	—	593,012	23,129,822	—	—
Total Power	—	—	593,012	23,129,822	—	—
Danville City of/Jun 30						
Firm Power	279,450	6,298,406	4,157	295,982	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	279,450	6,298,406	4,157	295,982	—	—
Harrisonburg City of/Jun 30						
Firm Power	587,289	24,078,790	1,939	138,549	—	—
Total Power	587,289	24,078,790	1,939	138,549	—	—
Manassas City of/Jun 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Martinsville City of/Jun 30						
Firm Power	—	—	1,187	84,566	—	—
Total Power	—	—	1,187	84,566	—	—
Radford City of/Jun 30						
Firm Power	—	—	965	68,710	—	—
Total Power	—	—	965	68,710	—	—
Salem City of/Jun 30						
Firm Power	—	—	1,633	116,279	—	—
Total Power	—	—	1,633	116,279	—	—

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Texas						
New Braunfels City of/Jul 31						
Firm Power	—	—	—	—	867,670	32,988,650
Total Power	—	—	—	—	867,670	32,988,650
San Antonio Public Service Bd/Jan 31						
Firm Power	—	—	—	—	—	44,973
Nonfirm Power	16	28,713	39,616	1,028,059	438,107	11,896,013
Total Power	16	28,713	39,616	1,028,059	438,107	11,940,986
San Marcos City of/Sep 30						
Firm Power	—	—	—	—	371,132	15,070,809
Total Power	—	—	—	—	371,132	15,070,809
Seguin City of/Sep 30						
Firm Power	—	—	—	—	230,417	9,210,046
Total Power	—	—	—	—	230,417	9,210,046
Texas Municipal Power Agency/Sep 30						
Nonfirm Power	—	—	101,690	957,000	101,690	957,000
Total Power	—	—	101,690	957,000	101,690	957,000
Weatherford Mun Utility System/Sep 30						
Firm Power	49,356	2,905,550	203,595	5,045,996	252,951	7,951,546
Total Power	49,356	2,905,550	203,595	5,045,996	252,951	7,951,546
Utah						
Bountiful City City of/June 30						
Firm Power	—	—	—	—	136,705	2,490,492
Nonfirm Power	—	—	—	—	44,387	1,468,937
Total Power	—	—	—	—	181,092	3,959,429
Logan City of/June 30						
Firm Power	—	—	—	—	256,233	7,897,159
Nonfirm Power	—	—	—	—	32,841	975,119
Total Power	—	—	—	—	289,074	8,872,278
Murray City of/June 30						
Firm Power	—	—	131,451	2,655,661	131,451	2,655,661
Nonfirm Power	—	—	—	—	188,397	6,683,851
Total Power	—	—	131,451	2,655,661	319,848	9,339,512
Provo City Corp/June 30						
Firm Power	—	—	—	—	612,071	24,626,725
Total Power	—	—	—	—	612,071	24,626,725
St George City of/June 30						
Nonfirm Power	—	—	16,724	313,966	388,895	14,402,858
Total Power	—	—	16,724	313,966	388,895	14,402,858
Vermont						
Burlington City of/Dec 31						
Firm Power	—	—	—	—	161,543	5,900,814
Total Power	—	—	—	—	161,543	5,900,814
Virginia						
Bedford City of/June 30						
Firm Power	128,272	5,295,077	71,842	1,621,597	201,005	6,980,099
Total Power	128,272	5,295,077	71,842	1,621,597	201,005	6,980,099
Bristo Utilities Board/June 30						
Firm Power	—	—	—	—	593,012	23,129,822
Total Power	—	—	—	—	593,012	23,129,822
Danville City of/June 30						
Firm Power	—	—	632,287	23,259,479	915,894	29,853,867
Nonfirm Power	—	179,862	—	666,576	—	846,438
Total Power	—	179,862	632,287	23,926,055	915,894	30,700,305
Harrisonburg City of/June 30						
Firm Power	—	—	—	—	589,228	24,217,339
Total Power	—	—	—	—	589,228	24,217,339
Manassas City of/June 30						
Firm Power	—	—	315,417	12,564,891	315,417	12,564,891
Total Power	—	—	315,417	12,564,891	315,417	12,564,891
Martinsville City of/June 30						
Firm Power	—	—	404,640	17,700,891	405,827	17,785,457
Total Power	—	—	404,640	17,700,891	405,827	17,785,457
Radford City of/June 30						
Firm Power	—	—	365,431	12,719,997	366,396	12,788,707
Total Power	—	—	365,431	12,719,997	366,396	12,788,707
Salem City of/June 30						
Firm Power	—	—	370,403	12,925,632	372,036	13,041,911
Total Power	—	—	370,403	12,925,632	372,036	13,041,911

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Washington						
Centralia City of/Dec 31						
Firm Power	—	—	201,974	5,374,722	—	—
Total Power	—	—	201,974	5,374,722	—	—
Ellensburg City of/Dec 31						
Firm Power	—	—	184,000	5,251,658	—	—
Total Power	—	—	184,000	5,251,658	—	—
Port Angeles City of/Dec 31						
Firm Power	—	—	619,142	16,408,594	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	619,142	16,408,594	—	—
Richland City of/Dec 31						
Firm Power	—	—	660,131	18,675,242	—	—
Nonfirm Power	13,350	197,395	—	—	—	—
Total Power	13,350	197,395	660,131	18,675,242	—	—
Seattle City of/Dec 31						
Firm Power	—	—	528,318	22,294,356	—	—
Nonfirm Power	—	156,000	229,734	8,584,493	505,350	3,016,499
Total Power	—	156,000	758,052	30,878,849	505,350	3,016,499
Tacoma City of/Dec 31						
Nonfirm Power	136,284	1,917,425	1,642,851	41,109,389	429,399	2,224,941
Total Power	136,284	1,917,425	1,642,851	41,109,389	429,399	2,224,941
Wisconsin						
Badger Power Marketing Auth/Dec 31						
Firm Power	284,000	9,452,600	—	—	—	—
Total Power	284,000	9,452,600	—	—	—	—
Jefferson City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Kaukauna City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Manitowoc Public Utilities/Dec 31						
Firm Power	114,235	2,929,032	—	—	—	—
Nonfirm Power	205,589	4,022,594	—	—	—	—
Total Power	319,824	6,951,626	—	—	—	—
Marshfield City of/Dec 31						
Firm Power	334,229	8,904,173	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	334,229	8,904,173	—	—	—	—
Menasha City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
New London Electric&Water Util/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Oconomowoc City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Plymouth City of/Dec 31						
Firm Power	175,723	5,586,298	—	—	—	—
Total Power	175,723	5,586,298	—	—	—	—
Reedsburg Utility Comm/Dec 31						
Firm Power	191,150	6,241,548	—	—	—	—
Total Power	191,150	6,241,548	—	—	—	—
Shawano Municipal Utilities/Dec31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Sheboygan Falls City of/Dec 31						
Firm Power	213,254	6,370,269	—	—	—	—
Total Power	213,254	6,370,269	—	—	—	—
Sturgeon Bay City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Sun Prairie Water & Light Comm/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Wisconsin Public Power Inc Sys/Dec 31						
Firm Power	1,766,335	57,794,350	—	—	—	—
Nonfirm Power	576,725	8,256,879	4,215	78,091	6,493	75,882
Total Power	2,343,060	66,051,229	4,215	78,091	6,493	75,882

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Washington						
Centralia City of/Dec 31						
Firm Power	—	—	—	—	201,974	5,374,722
Total Power	—	—	—	—	201,974	5,374,722
Ellensburg City of/Dec 31						
Firm Power	—	—	—	—	184,000	5,251,658
Total Power	—	—	—	—	184,000	5,251,658
Port Angeles City of/Dec 31						
Firm Power	—	—	10,919	37,961	630,061	16,446,555
Nonfirm Power	—	—	17,580	408,454	17,580	408,454
Total Power	—	—	28,499	446,415	647,641	16,855,009
Richland City of/Dec 31						
Firm Power	—	—	—	—	660,131	18,675,242
Nonfirm Power	—	—	27,490	182,116	40,840	379,511
Total Power	—	—	27,490	182,116	700,971	19,054,753
Seattle City of/Dec 31						
Firm Power	—	—	—	—	528,318	22,294,356
Nonfirm Power	—	—	1,086,399	39,745,121	1,821,483	51,502,113
Total Power	—	—	1,086,399	39,745,121	2,349,801	73,796,469
Tacoma City of/Dec 31						
Nonfirm Power	—	—	600,990	4,300,751	2,809,524	49,552,506
Total Power	—	—	600,990	4,300,751	2,809,524	49,552,506
Wisconsin						
Badger Power Marketing Auth/Dec 31						
Firm Power	—	—	—	—	284,000	9,452,600
Total Power	—	—	—	—	284,000	9,452,600
Jefferson City of/Dec 31						
Firm Power	—	—	154,175	5,026,778	154,175	5,026,778
Total Power	—	—	154,175	5,026,778	154,175	5,026,778
Kaukauna City of/Dec 31						
Firm Power	—	—	596,690	17,508,330	596,690	17,508,330
Total Power	—	—	596,690	17,508,330	596,690	17,508,330
Manitowoc Public Utilities/Dec 31						
Firm Power	—	—	—	—	114,235	2,929,032
Nonfirm Power	—	—	—	—	205,589	4,022,594
Total Power	—	—	—	—	319,824	6,951,626
Marshfield City of/Dec 31						
Firm Power	—	—	—	—	334,229	8,904,173
Nonfirm Power	—	—	3,802	38,419	3,802	38,419
Total Power	—	—	3,802	38,419	338,031	8,942,592
Menasha City of/Dec 31						
Firm Power	—	—	685,000	17,235,798	685,000	17,235,798
Total Power	—	—	685,000	17,235,798	685,000	17,235,798
New London Electric&Water Util/Dec 31						
Firm Power	—	—	172,252	5,886,602	172,252	5,886,602
Total Power	—	—	172,252	5,886,602	172,252	5,886,602
Oconomowoc City of/Dec 31						
Firm Power	—	—	178,403	5,928,222	178,403	5,928,222
Total Power	—	—	178,403	5,928,222	178,403	5,928,222
Plymouth City of/Dec 31						
Firm Power	—	—	—	—	175,723	5,586,298
Total Power	—	—	—	—	175,723	5,586,298
Reedsburg Utility Comm/Dec 31						
Firm Power	—	—	—	—	191,150	6,241,548
Total Power	—	—	—	—	191,150	6,241,548
Shawano Municipal Utilities/Dec31						
Firm Power	—	—	204,912	7,336,638	204,912	7,336,638
Total Power	—	—	204,912	7,336,638	204,912	7,336,638
Sheboygan Falls City of/Dec 31						
Firm Power	—	—	—	—	213,254	6,370,269
Total Power	—	—	—	—	213,254	6,370,269
Sturgeon Bay City of/Dec 31						
Firm Power	—	—	134,468	4,511,248	134,468	4,511,248
Total Power	—	—	134,468	4,511,248	134,468	4,511,248
Sun Prairie Water & Light Comm/Dec 31						
Firm Power	—	—	170,959	5,849,206	170,959	5,849,206
Total Power	—	—	170,959	5,849,206	170,959	5,849,206
Wisconsin Public Power Inc Sys/Dec 31						
Firm Power	—	—	1,953	3,149,126	1,768,288	60,943,476
Nonfirm Power	75,636	797,783	223,534	3,160,945	886,603	12,369,580
Total Power	75,636	797,783	225,487	6,310,071	2,654,891	73,313,056

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Wisconsin						
Wisconsin Rapids W W & L Comm/Dec 31						
Firm Power.....	75,741	2,377,178	—	—	—	—
Total Power.....	75,741	2,377,178	—	—	—	—
Wyoming						
Gillette City of Jun 30						
Firm Power.....	175,501	8,460,760	5,497	85,924	—	—
Nonfirm Power.....	—	—	—	—	8,803	272,885
Total Power.....	175,501	8,460,760	5,497	85,924	8,803	272,885

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ¹		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Wisconsin						
Wisconsin Rapids W W & L Comm/Dec 31						
Firm Power.....	—	—	—	—	75,741	2,377,178
Total Power.....	—	—	—	—	75,741	2,377,178
Wyoming						
Gillette City of Jun 30						
Firm Power.....	—	—	—	—	180,998	8,546,684
Nonfirm Power.....	—	—	469	66,034	9,272	338,919
Total Power.....	—	—	469	66,034	190,270	8,885,603

¹ Includes transactions with municipal utilities, power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •For identification purposes, the municipal utilities are listed in the State in which the municipality is located. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities," except where footnoted.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)
Alabama						
Alabama Municipal Elec Auth/Sep 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Sylacauga Utilities Board/Sep 30						
Firm Power	—	—	31,180	1,057,426	—	—
Total Power	—	—	31,180	1,057,426	—	—
Troy City of						
Firm Power	258,848	9,165,000	19,068	645,000	—	—
Total Power	258,848	9,165,000	19,068	645,000	—	—
Alaska						
Anchorage City of/Dec 31						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Arizona						
Mesa City of/Jun 30						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Arkansas						
Jonesboro City of/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	15,135	266,925	—	—	—	—
Total Power	15,135	266,925	—	—	—	—
Paragould Light & Water Comm/Dec 31						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
California						
Anaheim City of/Jun 30						
Nonfirm Power	353,454	5,276,896	—	—	572	4,862
Total Power	353,454	5,276,896	—	—	572	4,862
Azusa City of/Jun 30						
Firm Power	143,381	3,369,455	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	143,381	3,369,455	—	—	—	—
Burbank City of/Jun 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	620	10,200	—	—	—	—
Total Power	620	10,200	—	—	—	—
Colton City of/Jun 30						
Nonfirm Power	151,702	2,914,945	—	—	6,199	58,773
Total Power	151,702	2,914,945	—	—	6,199	58,773
Glendale City of/Jun 30						
Firm Power	10,800	665,000	—	—	—	—
Nonfirm Power	335	6,000	—	—	1,840	18,000
Total Power	11,135	671,000	—	—	1,840	18,000
Los Angeles City of/Jun 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	592,680	10,083,074	8,875	126,381	125,695	1,813,456
Total Power	592,680	10,083,074	8,875	126,381	125,695	1,813,456
Metropolitan Water Dist/Jun 30						
Nonfirm Power	157,755	6,219,442	—	—	120,550	4,859,364
Total Power	157,755	6,219,442	—	—	120,550	4,859,364
Pasadena City of/Jun 30						
Nonfirm Power	4,400	45,275	140	43,062	66	855
Total Power	4,400	45,275	140	43,062	66	855
Redding City of/Jun 30						
Nonfirm Power	340,166	12,094,625	300,924	10,853,756	8,137	88,410
Other Power	1,955	—	—	—	—	—
Total Power	342,121	12,094,625	300,924	10,853,756	8,137	88,410
Riverside City of/Jun 30						
Nonfirm Power	37,330	611,962	—	—	—	—
Total Power	37,330	611,962	—	—	—	—
San Francisco City & County of/Jun 30						
Firm Power	—	—	—	—	493,481	17,263,293
Nonfirm Power	260	1,560	6,729	60,473	347,753	3,672,769
Total Power	260	1,560	6,729	60,473	841,234	20,936,062
Santa Clara City of/Jun 30						
Firm Power	—	—	—	—	12,915	45,000
Nonfirm Power	55,426	674,113	10	120	232,845	2,692,243
Total Power	55,426	674,113	10	120	245,760	2,737,243

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Cooperative		Other ¹		Total	
	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)
Alabama						
Alabama Municipal Elec Auth/Sep 30						
Firm Power	—	—	2,634,724	102,755,624	2,634,724	102,755,624
Total Power	—	—	2,634,724	102,755,624	2,634,724	102,755,624
Sylacauga Utilities Board/Sep 30						
Firm Power	—	—	157,464	5,634,215	188,644	6,691,641
Total Power	—	—	157,464	5,634,215	188,644	6,691,641
Troy City of						
Firm Power	—	—	—	—	277,916	9,810,000
Total Power	—	—	—	—	277,916	9,810,000
Alaska						
Anchorage City of/Dec 31						
Nonfirm Power	28,373	723,553	12,198	253,633	40,571	977,186
Total Power	28,373	723,553	12,198	253,633	40,571	977,186
Arizona						
Mesa City of/Jun 30						
Nonfirm Power	—	—	53	878	53	878
Total Power	—	—	53	878	53	878
Arkansas						
Jonesboro City of/Dec 31						
Firm Power	—	—	66,837	1,717,928	66,837	1,717,928
Nonfirm Power	11,224	214,875	702,184	13,228,334	728,543	13,710,134
Total Power	11,224	214,875	769,021	14,946,262	795,380	15,428,062
Paragould Light & Water Comm/Dec 31						
Nonfirm Power	—	—	18,800	293,067	18,800	293,067
Total Power	—	—	18,800	293,067	18,800	293,067
California						
Anaheim City of/Jun 30						
Nonfirm Power	—	—	325	3,412	354,351	5,285,170
Total Power	—	—	325	3,412	354,351	5,285,170
Azusa City of/Jun 30						
Firm Power	—	—	—	—	143,381	3,369,455
Nonfirm Power	—	—	34,770	521,550	34,770	521,550
Total Power	—	—	34,770	521,550	178,151	3,891,005
Burbank City of/Jun 30						
Firm Power	—	—	—	243,583	—	243,583
Nonfirm Power	—	—	2,741	39,470	3,361	49,670
Total Power	—	—	2,741	283,053	3,361	293,253
Colton City of/Jun 30						
Nonfirm Power	—	—	155	1,542	158,056	2,975,260
Total Power	—	—	155	1,542	158,056	2,975,260
Glendale City of/Jun 30						
Firm Power	—	—	—	—	10,800	665,000
Nonfirm Power	—	—	29,071	368,000	31,246	392,000
Total Power	—	—	29,071	368,000	42,046	1,057,000
Los Angeles City of/Jun 30						
Firm Power	—	—	—	4,429,074	—	4,429,074
Nonfirm Power	28,955	410,472	716,358	3,731,723	1,472,563	16,165,106
Total Power	28,955	410,472	716,358	8,160,797	1,472,563	20,594,180
Metropolitan Water Dist/Jun 30						
Nonfirm Power	—	—	—	—	278,305	11,078,806
Total Power	—	—	—	—	278,305	11,078,806
Pasadena City of/Jun 30						
Nonfirm Power	—	—	39,411	488,597	44,017	577,789
Total Power	—	—	39,411	488,597	44,017	577,789
Redding City of/Jun 30						
Nonfirm Power	27	396	192	2,747	649,446	23,039,934
Other Power	—	—	—	—	1,955	—
Total Power	27	396	192	2,747	651,401	23,039,934
Riverside City of/Jun 30						
Nonfirm Power	—	—	—	—	37,330	611,962
Total Power	—	—	—	—	37,330	611,962
San Francisco City & County of/Jun 30						
Firm Power	—	—	256,768	7,929,551	750,249	25,192,844
Nonfirm Power	—	—	569,448	11,912,923	924,190	15,647,725
Total Power	—	—	826,216	19,842,474	1,674,439	40,840,569
Santa Clara City of/Jun 30						
Firm Power	—	—	—	—	12,915	45,000
Nonfirm Power	—	—	15,940	179,433	304,221	3,545,909
Total Power	—	—	15,940	179,433	317,136	3,590,909

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)
California						
Turlock Irrigation Dist/Dec 31						
Firm Power	—	87	—	—	—	23,271
Nonfirm Power	42,807	601,337	165	1,650	102,047	1,005,468
Total Power	42,807	601,424	165	1,650	102,047	1,028,739
Colorado						
Colorado Springs City of/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	22,690	406,564	280	3,360	—	—
Total Power	22,690	406,564	280	3,360	—	—
Connecticut						
Mun Electric Engy Coop/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Groton City of/Jun 30						
Firm Power	5,728	407,199	—	—	—	—
Total Power	5,728	407,199	—	—	—	—
Delaware						
Dover City of/Dec 31						
Nonfirm Power	32,354	1,159,542	—	—	—	—
Total Power	32,354	1,159,542	—	—	—	—
Florida						
Florida Municipal Power Agency/Sep 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	230,431	2,702,378	—	—	—	—
Total Power	230,431	2,702,378	—	—	—	—
Fort Pierce Utilities Au/Sep 30						
Nonfirm Power	792	21,033	—	—	—	—
Other Power	—	—	—	—	—	—
Total Power	792	21,033	—	—	—	—
Gainesville Regional Utilities/Sep 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	67,552	1,700,400	—	—	—	—
Total Power	67,552	1,700,400	—	—	—	—
Homestead City of/Sep 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	283	14,311	—	—	—	—
Total Power	283	14,311	—	—	—	—
Jacksonville Elec Auth/Sep 30						
Firm Power	3,316,801	139,951,855	—	—	—	—
Nonfirm Power	82,092	2,275,415	201	5,046	3,410	109,054
Total Power	3,398,893	142,227,270	201	5,046	3,410	109,054
Key West City of/Sep 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	216	8,862	—	—	—	—
Total Power	216	8,862	—	—	—	—
Lake Worth City of/Sep 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	5,471	157,974	—	—	—	—
Total Power	5,471	157,974	—	—	—	—
Lakeland City of/Sep 30						
Nonfirm Power	21,434	725,745	—	—	—	—
Total Power	21,434	725,745	—	—	—	—
New Smyrna Beach Utils Comm/Sep 30						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Orlando Utilities Comm/Sep 30						
Firm Power	249,830	8,012,461	—	—	—	—
Nonfirm Power	79,389	2,499,452	—	—	—	—
Total Power	329,219	10,511,913	—	—	—	—
Reedy Creek Improvement Dist/Sep 30						
Nonfirm Power	517	15,729	—	—	—	—
Total Power	517	15,729	—	—	—	—
St Cloud City of/Sep 30						
Firm Power	—	600,210	—	—	—	—
Total Power	—	600,210	—	—	—	—

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Cooperative		Other ¹		Total	
	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)
California						
Turlock Irrigation Dist/Dec 31						
Firm Power	—	—	14	294,715	14	318,073
Nonfirm Power	—	—	28,193	459,678	173,212	2,068,133
Total Power	—	—	28,207	754,393	173,226	2,386,206
Colorado						
Colorado Springs City of/Dec 31						
Firm Power	—	—	150,600	5,140,081	150,600	5,140,081
Nonfirm Power	—	—	3,384	42,504	26,354	452,428
Total Power	—	—	153,984	5,182,585	176,954	5,592,509
Connecticut						
Mun Electric Engy Coop/Dec 31						
Firm Power	—	—	1,762,860	91,927,396	1,762,860	91,927,396
Nonfirm Power	—	—	379,670	15,200,056	379,670	15,200,056
Total Power	—	—	2,142,530	107,127,452	2,142,530	107,127,452
Groton City of/Jun 30						
Firm Power	—	—	—	—	5,728	407,199
Total Power	—	—	—	—	5,728	407,199
Delaware						
Dover City of/Dec 31						
Nonfirm Power	—	—	1,404	64,717	33,758	1,224,259
Total Power	—	—	1,404	64,717	33,758	1,224,259
Florida						
Florida Municipal Power Agency/Sep 30						
Firm Power	—	—	2,883,824	147,929,622	2,883,824	147,929,622
Nonfirm Power	—	—	264,305	20,437,341	494,736	23,139,719
Total Power	—	—	3,148,129	168,366,963	3,378,560	171,069,341
Fort Pierce Utilities Au/Sep 30						
Nonfirm Power	211	5,276	595	15,494	1,598	41,803
Other Power	—	—	1,250	—	1,250	—
Total Power	211	5,276	1,845	15,494	2,848	41,803
Gainesville Regional Utilities/Sep 30						
Firm Power	48,555	2,683,048	217,359	8,798,066	265,914	11,481,114
Nonfirm Power	7,801	224,363	44,105	1,413,722	119,458	3,338,485
Total Power	56,356	2,907,411	261,464	10,211,788	385,372	14,819,599
Homestead City of/Sep 30						
Firm Power	—	—	576	129,034	576	129,034
Nonfirm Power	46	2,279	780	39,716	1,109	56,306
Total Power	46	2,279	1,356	168,750	1,685	185,340
Jacksonville Elec Auth/Sep 30						
Firm Power	5,788	2,358,041	—	308,816	3,322,589	142,618,712
Nonfirm Power	85,237	2,165,603	84,284	2,479,848	255,224	7,034,966
Total Power	91,025	4,523,644	84,284	2,788,664	3,577,813	149,653,678
Key West City of/Sep 30						
Firm Power	—	432,000	—	—	—	432,000
Nonfirm Power	10	248	36	885	262	9,995
Total Power	10	432,248	36	885	262	441,995
Lake Worth City of/Sep 30						
Firm Power	—	—	608	709,993	608	709,993
Nonfirm Power	715	21,908	1,965	56,265	8,151	236,147
Total Power	715	21,908	2,573	766,258	8,759	946,140
Lakeland City of/Sep 30						
Nonfirm Power	—	—	9,250	986,336	30,684	1,712,081
Total Power	—	—	9,250	986,336	30,684	1,712,081
New Smyrna Beach Utils Comm/Sep 30						
Nonfirm Power	—	—	685	1,889	685	1,889
Total Power	—	—	685	1,889	685	1,889
Orlando Utilities Comm/Sep 30						
Firm Power	69,261	5,382,464	1,449,104	51,367,033	1,768,195	64,761,958
Nonfirm Power	—	—	356,353	9,260,482	435,742	11,759,934
Total Power	69,261	5,382,464	1,805,457	60,627,515	2,203,937	76,521,892
Reedy Creek Improvement Dist/Sep 30						
Nonfirm Power	1,303	36,804	1,278	37,701	3,098	90,234
Total Power	1,303	36,804	1,278	37,701	3,098	90,234
St Cloud City of/Sep 30						
Firm Power	—	—	—	—	—	600,210
Total Power	—	—	—	—	—	600,210

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)
Florida						
Tallahassee City of/Sep 30						
Nonfirm Power	88,041	2,546,238	—	—	—	—
Total Power	88,041	2,546,238	—	—	—	—
Vero Beach City of/Sep 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	10,511	332,989	—	—	—	—
Total Power	10,511	332,989	—	—	—	—
Georgia						
Dalton City of/Nov 30						
Firm Power	31,408	292,000	—	—	—	—
Total Power	31,408	292,000	—	—	—	—
Idaho						
Idaho Falls City of/Sep 30						
Nonfirm Power	60,605	2,343,597	148,340	5,113,190	—	—
Total Power	60,605	2,343,597	148,340	5,113,190	—	—
Illinois						
Illinois Municipal Elec Agency/Apr 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Springfield City of/Jun 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	93,005	1,424,227	—	—	—	—
Total Power	93,005	1,424,227	—	—	—	—
Indiana						
Crawfordsville Elec Lgt&Pwr Co/Dec 31						
Firm Power	—	—	—	—	11,090	2,090,749
Total Power	—	—	—	—	11,090	2,090,749
Iowa						
Cedar Falls City of/Dec 31						
Nonfirm Power	4,055	76,327	—	—	—	—
Total Power	4,055	76,327	—	—	—	—
Muscatine City of/Dec 31						
Firm Power	110,080	1,714,784	—	—	—	—
Nonfirm Power	239,803	3,650,510	593	7,847	62,527	966,538
Total Power	349,883	5,365,294	593	7,847	62,527	966,538
Pella City of/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	22,971	494,750	—	—	—	—
Total Power	22,971	494,750	—	—	—	—
Kansas						
Kansas City City of/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	10,870	217,894	—	—	250,005	7,061,095
Total Power	10,870	217,894	—	—	250,005	7,061,095
McPherson City of/Dec 31						
Firm Power	11,924	2,002,456	—	—	—	—
Total Power	11,924	2,002,456	—	—	—	—
Winfield City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Kentucky						
Henderson City Utility Comm/May 31						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Owensboro City of/May 31						
Firm Power	1,431,089	32,782,386	—	—	—	—
Total Power	1,431,089	32,782,386	—	—	—	—
Louisiana						
Lafayette City of/Oct 31						
Firm Power	—	—	—	—	123,802	6,077,849
Nonfirm Power	11,487	263,554	—	—	4,023	93,793
Total Power	11,487	263,554	—	—	127,825	6,171,642
Terrebonne Parish Consol Gov 't/Dec 31						
Nonfirm Power	—	—	—	—	721	45,551
Total Power	—	—	—	—	721	45,551

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Cooperative		Other ¹		Total	
	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)
Florida						
Tallahassee City of/Sep 30						
Nonfirm Power	9,374	273,254	29,212	862,699	126,627	3,682,191
Total Power	9,374	273,254	29,212	862,699	126,627	3,682,191
Vero Beach City of/Sep 30						
Firm Power	—	—	670	207,502	670	207,502
Nonfirm Power	2,446	79,533	79,253	1,344,016	92,210	1,756,538
Total Power	2,446	79,533	79,923	1,551,518	92,880	1,964,040
Georgia						
Dalton City of/Nov 30						
Firm Power	—	—	—	—	31,408	292,000
Total Power	—	—	—	—	31,408	292,000
Idaho						
Idaho Falls City of/Sep 30						
Nonfirm Power	—	—	—	—	208,945	7,456,787
Total Power	—	—	—	—	208,945	7,456,787
Illinois						
Illinois Municipal Elec Agency/Apr 30						
Firm Power	—	—	1,528,654	70,660,067	1,528,654	70,660,067
Nonfirm Power	—	—	30,909	901,613	30,909	901,613
Total Power	—	—	1,559,563	71,561,680	1,559,563	71,561,680
Springfield City of/Jun 30						
Firm Power	—	—	42,158	1,526,734	42,158	1,526,734
Nonfirm Power	—	—	130,986	2,169,234	223,991	3,593,461
Total Power	—	—	173,144	3,695,968	266,149	5,120,195
Indiana						
Crawfordsville Elec Lgt&Pwr Co/Dec 31						
Firm Power	—	—	—	—	11,090	2,090,749
Total Power	—	—	—	—	11,090	2,090,749
Iowa						
Cedar Falls City of/Dec 31						
Nonfirm Power	—	—	—	—	4,055	76,327
Total Power	—	—	—	—	4,055	76,327
Muscatine City of/Dec 31						
Firm Power	630	173,925	68,914	1,904,727	179,624	3,793,436
Nonfirm Power	40,819	592,118	1,470	19,900	345,212	5,236,913
Total Power	41,449	766,043	70,384	1,924,627	524,836	9,030,349
Pella City of/Dec 31						
Firm Power	—	—	—	840,000	—	840,000
Nonfirm Power	—	—	68,914	1,064,727	91,885	1,559,477
Total Power	—	—	68,914	1,904,727	91,885	2,399,477
Kansas						
Kansas City City of/Dec 31						
Firm Power	—	—	64	43,226	64	43,226
Nonfirm Power	—	—	153,023	4,614,921	413,898	11,893,910
Total Power	—	—	153,087	4,658,147	413,962	11,937,136
McPherson City of/Dec 31						
Firm Power	—	—	24,110	964,624	36,034	2,967,080
Total Power	—	—	24,110	964,624	36,034	2,967,080
Winfield City of/Dec 31						
Firm Power	—	—	5,178	243,099	5,178	243,099
Total Power	—	—	5,178	243,099	5,178	243,099
Kentucky						
Henderson City Utility Comm/May 31						
Nonfirm Power	1,525,698	15,482,422	—	—	1,525,698	15,482,422
Total Power	1,525,698	15,482,422	—	—	1,525,698	15,482,422
Owensboro City of/May 31						
Firm Power	—	—	—	—	1,431,089	32,782,386
Total Power	—	—	—	—	1,431,089	32,782,386
Louisiana						
Lafayette City of/Oct 31						
Firm Power	—	—	232,481	7,695,719	356,283	13,773,568
Nonfirm Power	—	—	2,259	66,805	17,769	424,152
Total Power	—	—	234,740	7,762,524	374,052	14,197,720
Terrebonne Parish Consol Gov /Dec 31						
Nonfirm Power	—	—	—	—	721	45,551
Total Power	—	—	—	—	721	45,551

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)
Massachusetts						
Braintree Town of/Dec 31						
Firm Power	47,530	2,849,986	—	—	—	—
Total Power	47,530	2,849,986	—	—	—	—
Chicopee City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Danvers Town of/Dec 31						
Nonfirm Power	—	—	—	—	872	28,000
Total Power	—	—	—	—	872	28,000
Hingham City of/Dec 31						
Firm Power	—	—	—	—	4	4,242
Nonfirm Power	168	17,258	—	—	—	—
Total Power	168	17,258	—	—	4	4,242
Holyoke City of/Dec 31						
Nonfirm Power	1,479	40,050	—	—	5,193	127,471
Total Power	1,479	40,050	—	—	5,193	127,471
Littleton Town of/Dec 31						
Nonfirm Power	—	—	—	—	395	9,537
Total Power	—	—	—	—	395	9,537
Mansfield Town of/Dec 31						
Firm Power	—	—	—	—	396	38,782
Total Power	—	—	—	—	396	38,782
North Attleborough Town of/Dec 31						
Firm Power	—	—	—	—	66	8,869
Total Power	—	—	—	—	66	8,869
Reading Town of/Dec 31						
Nonfirm Power	192	19,167	—	—	—	—
Total Power	192	19,167	—	—	—	—
Taunton City of/Dec 31						
Nonfirm Power	8,293	290,900	—	—	—	—
Total Power	8,293	290,900	—	—	—	—
Westfield City of/Dec 31						
Firm Power	—	—	—	—	6,804	554,029
Total Power	—	—	—	—	6,804	554,029
Michigan						
Grand Haven City of/Jun 30						
Firm Power	—	—	—	—	82,892	1,995,930
Total Power	—	—	—	—	82,892	1,995,930
Lansing City of/Jun 30						
Firm Power	—	—	—	—	266,675	9,270,036
Total Power	—	—	—	—	266,675	9,270,036
Marquette City of/Jun 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	1,790	77,417	—	—	—	—
Total Power	1,790	77,417	—	—	—	—
Traverse City City of/Jun 30						
Nonfirm Power	—	—	—	—	3,628	79,933
Total Power	—	—	—	—	3,628	79,933
Minnesota						
Austin City of/Dec 31						
Nonfirm Power	—	—	—	—	136,404	3,150,466
Total Power	—	—	—	—	136,404	3,150,466
Fairmont Public Utilities Comm/Dec 31						
Nonfirm Power	—	—	—	—	1,018	35,742
Total Power	—	—	—	—	1,018	35,742
Hutchinson Utilities Comm/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	13,919	240,694	—	—	1,686	25,693
Total Power	13,919	240,694	—	—	1,686	25,693
Rochester Public Utilities/Dec 31						
Firm Power	—	—	—	—	425	4,395,194
Nonfirm Power	175	4,550	—	—	85,066	1,961,524
Total Power	175	4,550	—	—	85,491	6,356,718
Western Minnesota Mun P Agny/Dec 31						
Firm Power	—	—	—	—	1,997,174	42,359,351
Total Power	—	—	—	—	1,997,174	42,359,351

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Cooperative		Other ¹		Total	
	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)
Massachusetts						
Braintree Town of/Dec 31						
Firm Power	—	—	7,491	680,807	55,021	3,530,793
Total Power	—	—	7,491	680,807	55,021	3,530,793
Chicopee City of/Dec 31						
Firm Power	—	—	262	11,764	262	11,764
Total Power	—	—	262	11,764	262	11,764
Danvers Town of/Dec 31						
Nonfirm Power	—	—	—	—	872	28,000
Total Power	—	—	—	—	872	28,000
Hingham City of/Dec 31						
Firm Power	—	—	—	—	4	4,242
Nonfirm Power	—	—	—	—	168	17,258
Total Power	—	—	—	—	172	21,500
Holyoke City of/Dec 31						
Nonfirm Power	—	—	—	—	6,672	167,521
Total Power	—	—	—	—	6,672	167,521
Littleton Town of/Dec 31						
Nonfirm Power	—	—	—	—	395	9,537
Total Power	—	—	—	—	395	9,537
Mansfield Town of/Dec 31						
Firm Power	—	—	—	—	396	38,782
Total Power	—	—	—	—	396	38,782
North Attleborough Town of/Dec 31						
Firm Power	—	—	—	—	66	8,869
Total Power	—	—	—	—	66	8,869
Reading Town of/Dec 31						
Nonfirm Power	—	—	501	48,133	693	67,300
Total Power	—	—	501	48,133	693	67,300
Taunton City of/Dec 31						
Nonfirm Power	—	—	15,322	2,332,667	23,615	2,623,567
Total Power	—	—	15,322	2,332,667	23,615	2,623,567
Westfield City of/Dec 31						
Firm Power	—	—	—	—	6,804	554,029
Total Power	—	—	—	—	6,804	554,029
Michigan						
Grand Haven City of/Jun 30						
Firm Power	—	—	—	—	82,892	1,995,930
Total Power	—	—	—	—	82,892	1,995,930
Lansing City of/Jun 30						
Firm Power	5,209	305,081	—	—	271,884	9,575,117
Total Power	5,209	305,081	—	—	271,884	9,575,117
Marquette City of/Jun 30						
Firm Power	12,289	571,448	—	—	12,289	571,448
Nonfirm Power	—	—	—	—	1,790	77,417
Total Power	12,289	571,448	—	—	14,079	648,865
Traverse City City of/Jun 30						
Nonfirm Power	—	—	—	—	3,628	79,933
Total Power	—	—	—	—	3,628	79,933
Minnesota						
Austin City of/Dec 31						
Nonfirm Power	—	—	—	—	136,404	3,150,466
Total Power	—	—	—	—	136,404	3,150,466
Fairmont Public Utilities Comm/Dec 31						
Nonfirm Power	—	—	—	—	1,018	35,742
Total Power	—	—	—	—	1,018	35,742
Hutchinson Utilities Comm/Dec 31						
Firm Power	—	44,000	—	—	—	44,000
Nonfirm Power	2,113	35,686	—	—	17,718	302,073
Total Power	2,113	79,686	—	—	17,718	346,073
Rochester Public Utilities/Dec 31						
Firm Power	—	—	—	—	425	4,395,194
Nonfirm Power	106,117	2,560,645	—	—	191,358	4,526,719
Total Power	106,117	2,560,645	—	—	191,783	8,921,913
Western Minnesota Mun P Agny/Dec 31						
Firm Power	—	—	—	—	1,997,174	42,359,351
Total Power	—	—	—	—	1,997,174	42,359,351

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)
Minnesota						
Worthington City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Mississippi						
Clarksdale City of/Sep 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Greenwood Utilities Comm/Sep 30						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Municipal Energy Agency of MS/Sep 30						
Firm Power	—	—	—	—	113,878	3,482,835
Total Power	—	—	—	—	113,878	3,482,835
Missouri						
Carthage City of/Jun 30						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Columbia City of/Sep 30						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Independence City of/Jun 30						
Firm Power	—	1,113,750	—	—	—	—
Nonfirm Power	27,731	497,636	—	—	—	—
Total Power	27,731	1,611,386	—	—	—	—
Poplar Bluff City of/Dec 31						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Sikeston City of/May 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	2,370	25,060	—	—	13,298	226,075
Total Power	2,370	25,060	—	—	13,298	226,075
Springfield City of/Jun 30						
Firm Power	—	—	—	—	—	—
Nonfirm Power	50	22,000	—	—	875	42,000
Total Power	50	22,000	—	—	875	42,000
Nebraska						
Beatrice City of/Jul 31						
Firm Power	—	—	—	—	181,868	6,855,099
Total Power	—	—	—	—	181,868	6,855,099
Fremont City of/Jul 31						
Nonfirm Power	—	—	—	—	10,844	216,945
Total Power	—	—	—	—	10,844	216,945
Grand Island City of/Jul 31						
Nonfirm Power	—	—	—	—	39,404	507,586
Total Power	—	—	—	—	39,404	507,586
Hastings City of/Dec 31						
Nonfirm Power	—	—	—	—	128,043	1,168,923
Total Power	—	—	—	—	128,043	1,168,923
Lincoln Electric System/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	77,356	1,289,679	3,219	41,139	5,903	87,929
Total Power	77,356	1,289,679	3,219	41,139	5,903	87,929
New Mexico						
Farmington City of/Jun 30						
Nonfirm Power	4,338	49,795	—	—	250	2,500
Total Power	4,338	49,795	—	—	250	2,500
Los Alamos County/Jun 30						
Nonfirm Power	4,771	74,380	72	1,245	3,363	44,162
Total Power	4,771	74,380	72	1,245	3,363	44,162
New York						
Freeport Village of Inc/Feb 28						
Nonfirm Power	283	24,634	—	—	—	—
Total Power	283	24,634	—	—	—	—
Jamestown City of/Dec 31						
Nonfirm Power	57,445	1,172,992	—	—	—	—
Total Power	57,445	1,172,992	—	—	—	—

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Cooperative		Other ¹		Total	
	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)
Minnesota						
Worthington City of/Dec 31						
Firm Power	—	—	3,333	142,026	3,333	142,026
Total Power	—	—	3,333	142,026	3,333	142,026
Mississippi						
Clarksdale City of/Sep 30						
Firm Power	—	—	46,132	2,185,133	46,132	2,185,133
Total Power	—	—	46,132	2,185,133	46,132	2,185,133
Greenwood Utilities Comm/Sep 30						
Nonfirm Power	—	—	28,945	1,635,339	28,945	1,635,339
Total Power	—	—	28,945	1,635,339	28,945	1,635,339
Municipal Energy Agency of MS/Sep 30						
Firm Power	—	—	758,624	24,709,010	872,502	28,191,845
Total Power	—	—	758,624	24,709,010	872,502	28,191,845
Missouri						
Carthage City of/June 30						
Nonfirm Power	—	—	1,546	52,955	1,546	52,955
Total Power	—	—	1,546	52,955	1,546	52,955
Columbia City of/Sep 30						
Nonfirm Power	—	—	1,939	77,211	1,939	77,211
Total Power	—	—	1,939	77,211	1,939	77,211
Independence City of/June 30						
Firm Power	—	—	—	—	—	1,113,750
Nonfirm Power	1,217	20,328	—	—	28,948	517,964
Total Power	1,217	20,328	—	—	28,948	1,631,714
Poplar Bluff City of/Dec 31						
Nonfirm Power	—	—	5,890	118,153	5,890	118,153
Total Power	—	—	5,890	118,153	5,890	118,153
Sikeston City of/May 31						
Firm Power	—	—	1,356,786	40,460,385	1,356,786	40,460,385
Nonfirm Power	23,487	363,551	36,003	639,865	75,158	1,254,551
Total Power	23,487	363,551	1,392,789	41,100,250	1,431,944	41,714,936
Springfield City of/June 30						
Firm Power	—	—	162,438	4,253,000	162,438	4,253,000
Nonfirm Power	10,069	339,000	18,956	446,000	29,950	849,000
Total Power	10,069	339,000	181,394	4,699,000	192,388	5,102,000
Nebraska						
Beatrice City of/July 31						
Firm Power	—	—	—	—	181,868	6,855,099
Total Power	—	—	—	—	181,868	6,855,099
Fremont City of/July 31						
Nonfirm Power	—	—	—	—	10,844	216,945
Total Power	—	—	—	—	10,844	216,945
Grand Island City of/July 31						
Nonfirm Power	—	—	—	—	39,404	507,586
Total Power	—	—	—	—	39,404	507,586
Hastings City of/Dec 31						
Nonfirm Power	—	—	17,722	213,867	145,765	1,382,790
Total Power	—	—	17,722	213,867	145,765	1,382,790
Lincoln Electric System/Dec 31						
Firm Power	—	—	68,555	2,087,838	68,555	2,087,838
Nonfirm Power	553,755	7,081,071	8,497	99,849	648,730	8,599,667
Total Power	553,755	7,081,071	77,052	2,187,687	717,285	10,687,505
New Mexico						
Farmington City of/June 30						
Nonfirm Power	480	7,040	21,370	1,117,029	26,438	1,176,364
Total Power	480	7,040	21,370	1,117,029	26,438	1,176,364
Los Alamos County/June 30						
Nonfirm Power	85	1,342	86	10,985	8,377	132,114
Total Power	85	1,342	86	10,985	8,377	132,114
New York						
Freeport Village of Inc/Feb 28						
Nonfirm Power	—	—	—	—	283	24,634
Total Power	—	—	—	—	283	24,634
Jamestown City of/Dec 31						
Nonfirm Power	—	—	—	—	57,445	1,172,992
Total Power	—	—	—	—	57,445	1,172,992

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)
New York						
Rockville Centre Village of/May 31						
Nonfirm Power	140	8,462	—	—	—	—
Total Power	140	8,462	—	—	—	—
North Carolina						
Greenville Utilities Comm/Jun 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
New Bern City of/Jun 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
North Carolina Eastern M P A/Dec 31						
Firm Power	416,617	38,416,000	—	—	—	—
Total Power	416,617	38,416,000	—	—	—	—
North Carolina Mun Power Agny/Dec 31						
Firm Power	2,279,545	132,422,902	—	—	—	—
Nonfirm Power	19,644	179,144	—	—	3,611	45,204
Total Power	2,299,189	132,602,046	—	—	3,611	45,204
Rocky Mount City of/Jun 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Wilson City of/Jun 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Ohio						
American Mun Power-Ohio Inc/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Bowling Green City of/Jun 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Bryan City of/Dec 31						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Hamilton City of/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Orrville City of/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Piqua City of/Dec 31						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
St Marys City of/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Oregon						
Eugene City of/Dec 31						
Nonfirm Power	65,582	1,636,242	70	1,510	68,948	1,199,152
Total Power	65,582	1,636,242	70	1,510	68,948	1,199,152
South Carolina						
Piedmont Municipal Power Agny/Dec 31						
Firm Power	1,407,108	46,827,000	—	—	—	—
Nonfirm Power	—	—	—	—	400	5,000
Total Power	1,407,108	46,827,000	—	—	400	5,000
South Dakota						
Pierre City of/Dec 31						
Firm Power	—	—	—	—	14,923	313,633
Total Power	—	—	—	—	14,923	313,633
Texas						
Austin City of/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	208,573	3,584,084	—	—	22,157	586,738
Total Power	208,573	3,584,084	—	—	22,157	586,738
Brownsville Public Utils Board/Sep 30						
Nonfirm Power	19,741	94,363	—	—	—	—
Total Power	19,741	94,363	—	—	—	—

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Cooperative		Other ¹		Total	
	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)
New York						
Rockville Centre Village of/May 31						
Nonfirm Power	—	—	—	—	140	8,462
Total Power	—	—	—	—	140	8,462
North Carolina						
Greenville Utilities Comm/Jun 30						
Firm Power	—	—	37,000	2,870,661	37,000	2,870,661
Total Power	—	—	37,000	2,870,661	37,000	2,870,661
New Bern City of/Jun 30						
Firm Power	—	—	223	17,945	223	17,945
Total Power	—	—	223	17,945	223	17,945
North Carolina Eastern M P A/Dec 31						
Firm Power	—	—	6,291,403	422,811,000	6,708,020	461,227,000
Total Power	—	—	6,291,403	422,811,000	6,708,020	461,227,000
North Carolina Mun Power Agny/Dec 31						
Firm Power	—	—	4,221,890	238,604,275	6,501,435	371,027,177
Nonfirm Power	935	12,581	127,952	1,798,548	152,142	2,035,477
Total Power	935	12,581	4,349,842	240,402,823	6,653,577	373,062,654
Rocky Mount City of/Jun 30						
Firm Power	—	—	20,087	1,315,557	20,087	1,315,557
Total Power	—	—	20,087	1,315,557	20,087	1,315,557
Wilson City of/Jun 30						
Firm Power	—	—	64,185	4,882,896	64,185	4,882,896
Total Power	—	—	64,185	4,882,896	64,185	4,882,896
Ohio						
American Mun Power-Ohio Inc/Dec 31						
Firm Power	—	—	4,984,129	172,542,459	4,984,129	172,542,459
Total Power	—	—	4,984,129	172,542,459	4,984,129	172,542,459
Bowling Green City of/Jun 30						
Firm Power	—	—	2,907	149,993	2,907	149,993
Total Power	—	—	2,907	149,993	2,907	149,993
Bryan City of/Dec 31						
Nonfirm Power	—	—	1,264	19,300	1,264	19,300
Total Power	—	—	1,264	19,300	1,264	19,300
Hamilton City of/Dec 31						
Firm Power	—	—	159,903	3,834,483	159,903	3,834,483
Nonfirm Power	—	—	794	26,087	794	26,087
Total Power	—	—	160,697	3,860,570	160,697	3,860,570
Orrville City of/Dec 31						
Firm Power	—	—	33,535	728,035	33,535	728,035
Nonfirm Power	—	—	5,560	269,423	5,560	269,423
Total Power	—	—	39,095	997,458	39,095	997,458
Piqua City of/Dec 31						
Nonfirm Power	—	—	38	2,761	38	2,761
Total Power	—	—	38	2,761	38	2,761
St Marys City of/Dec 31						
Firm Power	—	—	8,917	237,456	8,917	237,456
Total Power	—	—	8,917	237,456	8,917	237,456
Oregon						
Eugene City of/Dec 31						
Nonfirm Power	57	687	30,916	548,019	165,573	3,385,610
Total Power	57	687	30,916	548,019	165,573	3,385,610
South Carolina						
Piedmont Municipal Power Agny/Dec 31						
Firm Power	—	—	1,696,090	94,076,000	3,103,198	140,903,000
Nonfirm Power	—	—	—	—	400	5,000
Total Power	—	—	1,696,090	94,076,000	3,103,598	140,908,000
South Dakota						
Pierre City of/Dec 31						
Firm Power	—	—	—	—	14,923	313,633
Total Power	—	—	—	—	14,923	313,633
Texas						
Austin City of/Dec 31						
Firm Power	—	—	203,595	4,458,378	203,595	4,458,378
Nonfirm Power	169,317	3,400,552	738,786	22,472,200	1,138,833	30,043,574
Total Power	169,317	3,400,552	942,381	26,930,578	1,342,428	34,501,952
Brownsville Public Utils Board/Sep 30						
Nonfirm Power	—	—	16,056	39,189	35,797	133,552
Total Power	—	—	16,056	39,189	35,797	133,552

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Investor-Owned		Federal		State and Other Government	
	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)
Texas						
Bryan City of/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Denton City of/Sep 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Garland City of/Sep 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Greenville Electric Util Sys/Sep 30						
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
San Antonio Public Service Bd/Jan 31						
Nonfirm Power	117,827	2,206,085	—	—	40,707	893,367
Total Power	117,827	2,206,085	—	—	40,707	893,367
Texas Municipal Power Agency/Sep 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Utah						
Intermountain Power Agency/June 30						
Firm Power	269,272	20,328,700	—	—	—	—
Nonfirm Power	11,450	75,184	—	—	—	—
Total Power	280,722	20,403,884	—	—	—	—
Provo City Corp/June 30						
Firm Power	—	—	—	—	612,071	13,097,168
Total Power	—	—	—	—	612,071	13,097,168
Vermont						
Burlington City of/June 30						
Firm Power	18,371	3,576,081	—	—	952	52,649
Nonfirm Power	5,174	124,545	—	—	—	—
Total Power	23,545	3,700,626	—	—	952	52,649
Washington						
Tacoma City of/Dec 31						
Nonfirm Power	114,186	1,219,712	342,699	16,609,586	10,023	63,826
Total Power	114,186	1,219,712	342,699	16,609,586	10,023	63,826
Wisconsin						
Badger Power Marketing Auth/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Manitowoc Public Utilities/Dec 31						
Nonfirm Power	98	3,657	—	—	—	—
Total Power	98	3,657	—	—	—	—
Wisconsin Public Power Inc Sys/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	16,035	2,710,714	15	197	1,158	22,252
Total Power	16,035	2,710,714	15	197	1,158	22,252

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1996 (Continued)

State / Utility / Fiscal Year Ending Date	Purchaser of Electricity					
	Cooperative		Other ¹		Total	
	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)	Sales For Resale (thousand kWh)	Revenue (dollars)
Texas						
Bryan City of/Dec 31						
Firm Power	—	—	293,450	15,012,205	293,450	15,012,205
Nonfirm Power	—	—	223,135	6,335,014	223,135	6,335,014
Total Power	—	—	516,585	21,347,219	516,585	21,347,219
Denton City of/Sep 30						
Firm Power	—	—	97,368	2,912,522	97,368	2,912,522
Total Power	—	—	97,368	2,912,522	97,368	2,912,522
Garland City of/Sep 30						
Firm Power	—	—	—	4,190,518	—	4,190,518
Total Power	—	—	—	4,190,518	—	4,190,518
Greenville Electric Util Sys/Sep 30						
Nonfirm Power	—	—	19,882	7,942,800	19,882	7,942,800
Total Power	—	—	19,882	7,942,800	19,882	7,942,800
San Antonio Public Service Bd/Jan 31						
Nonfirm Power	87,122	1,807,504	425,940	13,189,277	671,596	18,096,233
Total Power	87,122	1,807,504	425,940	13,189,277	671,596	18,096,233
Texas Municipal Power Agency/Sep 30						
Firm Power	—	—	2,587,905	163,661,000	2,587,905	163,661,000
Total Power	—	—	2,587,905	163,661,000	2,587,905	163,661,000
Utah						
Intermountain Power Agency/June 30						
Firm Power	—	—	9,491,710	623,233,800	9,760,982	643,562,500
Nonfirm Power	—	—	650	3,575	12,100	78,759
Total Power	—	—	9,492,360	623,237,375	9,773,082	643,641,259
Provo City Corp/June 30						
Firm Power	—	—	—	—	612,071	13,097,168
Total Power	—	—	—	—	612,071	13,097,168
Vermont						
Burlington City of/June 30						
Firm Power	116	11,999	—	—	19,439	3,640,729
Nonfirm Power	—	—	83,586	1,763,294	88,760	1,887,839
Total Power	116	11,999	83,586	1,763,294	108,199	5,528,568
Washington						
Tacoma City of/Dec 31						
Nonfirm Power	—	—	76,311	1,358,149	543,219	19,251,273
Total Power	—	—	76,311	1,358,149	543,219	19,251,273
Wisconsin						
Badger Power Marketing Auth/Dec 31						
Firm Power	—	—	282,000	10,467,121	282,000	10,467,121
Total Power	—	—	282,000	10,467,121	282,000	10,467,121
Manitowoc Public Utilities/Dec 31						
Nonfirm Power	—	—	—	—	98	3,657
Total Power	—	—	—	—	98	3,657
Wisconsin Public Power Inc Sys/Dec 31						
Firm Power	—	—	3,301,682	109,712,881	3,301,682	109,712,881
Nonfirm Power	2,032	55,657	45,585	595,395	64,825	3,384,215
Total Power	2,032	55,657	3,347,267	110,308,276	3,366,507	113,097,096

¹ Includes transactions with municipal utilities, power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •For identification purposes, the municipal utilities are listed in the State in which the municipality is located. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities."

Table 31. Electricity Purchases by Publicly Owned Utilities Not Reported on Form EIA-412, by State, 1996

State / Utility	Source of Electricity (Purchases in thousand kWh)						Total
	Investor-Owned	Federal	State and Other Government	Municipal	Cooperative	Other ¹	
Alabama							
Brundidge City of	—	—	—	—	32,160	—	32,160
Courtland City of	—	21,091	—	—	—	—	21,091
Elba City of	—	—	—	—	54,648	—	54,648
Hartselle City of	—	148,624	—	—	—	—	148,624
Muscle Shoals City of/Jun 30	—	224,340	—	—	—	—	224,340
Opp City of	—	—	—	—	80,200	—	80,200
Tuskegee City of/Sep 30	—	169,104	—	—	—	—	169,104
Alaska							
Arctic Utilities Inc	—	—	—	—	—	1,951	1,951
Unalaska City of	—	—	—	—	—	365	365
Colorado							
Granada Town of	—	—	—	2,969	—	—	2,969
Florida							
Moore Haven City of	—	—	—	—	15,550	—	15,550
Georgia							
Doerun City of	—	—	7,301	—	—	—	7,301
Oxford City of	—	—	12,790	—	—	—	12,790
Idaho							
Albion City of	—	3,491	—	—	—	—	3,491
Bonnors Ferry City of	—	48,041	—	—	—	—	48,041
Burley City of	—	149,687	—	—	—	—	149,687
Declo City of	—	3,261	—	—	—	—	3,261
East End Mutual Elec Co Ltd	—	20,071	—	—	—	—	20,071
Heyburn City of	—	109,111	—	—	—	—	109,111
Minidoka City of	—	—	—	—	—	890	890
Plummer Electric Dept	—	33,420	—	—	—	—	33,420
Rupert City of	—	79,495	—	—	—	—	79,495
Soda Springs City of	—	21,781	—	—	—	—	21,781
Illinois							
Fairfield City of	—	—	—	—	77,138	—	77,138
McLeansboro City of	—	—	—	—	21,947	—	21,947
Red Bud City of	—	—	—	—	38,429	—	38,429
Indiana							
Cannelton Utilities	—	—	—	18,830	—	—	18,830
Troy City of	—	—	—	11,141	—	—	11,141
Iowa							
Aplington City of	5,911	—	—	—	—	—	5,911
Bancroft City of	—	—	—	—	11,119	—	11,119
Bloomfield City of	—	—	—	—	28,252	—	28,252
Brooklyn City of	—	—	—	—	11,984	—	11,984
Cascade City of	—	—	—	—	14,524	—	14,524
Corwith City of	—	—	—	—	2,527	—	2,527
Dayton City of	—	—	—	—	5,648	—	5,648
Durant City of	—	—	—	—	13,025	—	13,025
Earlville City of	—	—	—	—	4,390	—	4,390
Ellsworth City of	—	—	—	—	7,771	—	7,771
Farnhamville City of	—	—	—	—	4,960	—	4,960
Forest City City of	—	—	—	—	67,696	—	67,696
Gowrie Municipal Utilities	—	—	—	—	7,429	—	7,429
Greenfield City of	—	—	—	—	28,931	—	28,931
Grundy Center City of	—	—	—	—	28,103	—	28,103
Keosauqua City of	—	—	—	—	11,485	—	11,485
Lake Mills City of	—	—	—	—	34,046	—	34,046
Lamoni City of	—	—	—	—	19,274	—	19,274
Larchwood City of	—	—	—	—	4,960	—	4,960
Lehigh City of	—	—	—	—	2,382	—	2,382
New Hampton City of	—	—	—	—	67,387	—	67,387
Osage City of	—	—	—	—	44,185	—	44,185

See notes and footnotes at end of table.

Table 31. Electricity Purchases by Publicly Owned Utilities Not Reported on Form EIA-412, by State, 1996 (Continued)

State / Utility	Source of Electricity (Purchases in thousand kWh)						Total
	Investor-Owned	Federal	State and Other Government	Municipal	Cooperative	Other ¹	
Iowa							
Panora Mun Electric Util.....	9,959	—	—	—	—	—	9,959
Paton City of.....	—	—	—	—	2,165	—	2,165
Renwick City of.....	—	—	—	—	3,921	—	3,921
Stanton City of.....	—	—	—	—	7,421	—	7,421
Stratford City of.....	—	—	—	—	4,727	—	4,727
Stuart Municipal Utility.....	—	—	—	—	12,988	—	12,988
Sumner City of.....	—	—	—	—	15,411	—	15,411
Tennant City of.....	—	—	—	342	—	—	342
Webster City City of.....	—	—	—	—	135,988	—	135,988
West Bend City of.....	—	—	—	—	12,729	—	12,729
Westfield Town of.....	—	—	—	—	793	—	793
Wilton City of.....	—	—	—	—	21,918	—	21,918
Winterset City of.....	—	—	—	—	44,800	—	44,800
Woolstock City of.....	—	—	—	1,595	—	—	1,595
Kansas							
Belleville City of.....	—	18,990	—	—	—	—	18,990
Dighton City of.....	—	—	—	—	10,192	—	10,192
Herndon City of.....	—	—	—	—	1,234	—	1,234
Iuka City of.....	—	—	—	1,645	—	—	1,645
Johnson City of.....	—	—	—	—	11,756	—	11,756
Kiowa City of.....	—	—	—	—	10,753	—	10,753
Lakin City of.....	—	—	—	—	10,555	—	10,555
Meade City of.....	—	—	—	—	10,154	—	10,154
Norton City of.....	—	—	—	—	28,657	—	28,657
Radium City of.....	—	—	—	—	598	—	598
Kentucky							
Franklin City of/Jun 30.....	—	210,942	—	—	—	—	210,942
Glasgow City of/Jun 30.....	—	683,424	—	—	—	—	683,424
Mayfield City of/Jun 30.....	—	152,632	—	—	—	—	152,632
Russellville City of.....	—	138,024	—	—	—	—	138,024
Louisiana							
Welsh Town of.....	—	—	30,802	—	—	—	30,802
Massachusetts							
Chester Mun Elec Light Dept.....	—	—	2,394	2,394	—	—	4,788
Russell Municipal Light Dept.....	—	—	—	—	—	4,318	4,318
Michigan							
Escanaba Munic Elec Util.....	24,465	—	—	—	—	—	24,465
Newberry Water & Light Board.....	—	—	—	—	18,526	—	18,526
Minnesota							
Alpha City of.....	—	—	—	—	954	—	954
Alvarado City of.....	—	—	—	—	4,142	—	4,142
Bigelow City of.....	—	—	—	2,150	—	—	2,150
Caledonia City of.....	—	—	—	—	19,184	—	19,184
Ceylon City of.....	—	—	—	—	2,816	—	2,816
Dakota Elec Assoc.....	—	—	—	—	1,253,549	—	1,253,549
Darwin Village of.....	—	—	—	1,994	—	—	1,994
Dunnell Village of.....	—	—	—	—	1,302	—	1,302
Grove City City of.....	—	—	—	7,299	—	—	7,299
Harmony City of.....	—	—	—	—	7,978	—	7,978
Lanesboro Public Utility Comm.....	—	—	—	—	6,503	—	6,503
Mabel City of.....	—	—	—	—	4,577	—	4,577
Nashwauk City of.....	—	—	—	—	6,794	—	6,794
Peterson City of.....	—	—	—	—	1,498	—	1,498
Round Lake City of.....	—	—	—	—	9,182	—	9,182
Rushmore City of.....	—	—	—	2,181	—	—	2,181
Spring Grove City of.....	—	—	—	—	12,811	—	12,811
Whalan City of.....	—	—	—	—	409	—	409

See notes and footnotes at end of table.

Table 31. Electricity Purchases by Publicly Owned Utilities Not Reported on Form EIA-412, by State, 1996 (Continued)

State / Utility	Source of Electricity (Purchases in thousand kWh)						Total
	Investor-Owned	Federal	State and Other Government	Municipal	Cooperative	Other ¹	
Mississippi							
Aberdeen City of/Jun 30.....	—	192,617	—	—	—	—	192,617
Amory City of.....	—	136,423	—	—	—	—	136,423
Louisville Electric System/Jun 30.....	—	177,081	—	—	—	—	177,081
Oxford City of.....	—	170,899	—	—	—	—	170,899
Philadelphia City of.....	—	142,650	—	—	—	—	142,650
West Point City of/Jun 30.....	—	206,046	—	—	—	—	206,046
Missouri							
Albany City of.....	—	—	—	—	8,658	8,658	17,316
Ava City of.....	—	—	—	—	35,924	—	35,924
Bethany City of.....	—	—	—	—	32,426	—	32,426
Butler City of.....	—	—	—	—	38,056	—	38,056
Cabool City of.....	—	—	—	—	34,864	—	34,864
Cameron City of.....	—	—	—	—	49,695	—	49,695
Chillicothe City of.....	—	—	—	—	92,009	—	92,009
Crane City of.....	—	—	—	—	15,159	—	15,159
Cuba City of.....	—	—	—	—	51,877	—	51,877
Easton City of.....	—	—	—	—	1,693	—	1,693
Fayette City of.....	—	—	—	—	19,048	—	19,048
Gallatin City of.....	—	—	—	—	8,527	8,528	17,055
Houston City of.....	—	—	—	—	31,117	—	31,117
Hunnewell City of.....	—	—	—	—	895	—	895
La Plata City of.....	—	—	—	—	20,409	—	20,409
Macon City of.....	—	—	—	—	85,627	—	85,627
Mansfield City of.....	—	—	—	—	22,659	—	22,659
Meadville City of.....	—	—	—	—	2,728	—	2,728
Memphis City of.....	—	—	—	17,719	—	—	17,719
Milan City of.....	—	—	—	—	33,518	—	33,518
Monroe City City of.....	—	—	—	—	56,564	—	56,564
Mountain View City of.....	—	—	—	—	35,817	—	35,817
Newburg City of.....	—	—	—	—	4,318	—	4,318
Palmyra City of.....	—	—	—	—	41,395	—	41,395
Paris City of.....	—	—	—	—	11,964	—	11,964
Pattonsburg City of.....	—	—	—	—	2,584	—	2,584
Richland City of.....	—	—	—	—	18,587	—	18,587
Rockport City of.....	—	—	—	—	14,852	—	14,852
Salem City of.....	—	—	—	—	55,649	—	55,649
Seymour City of.....	—	—	—	—	22,400	—	22,400
Shelbina City of.....	—	—	—	—	38,496	—	38,496
St Robert City of.....	—	—	—	—	34,802	—	34,802
Stanberry City of.....	—	—	—	—	10,635	—	10,635
Steelville City of.....	—	—	—	—	21,009	—	21,009
Sullivan City of.....	—	—	—	—	94,859	—	94,859
Vandalia City of.....	—	—	—	—	9,138	9,138	18,276
Waynesville City of.....	—	—	—	—	33,521	—	33,521
Willow Springs City of.....	—	—	—	—	27,176	—	27,176
Winona City of.....	—	—	—	—	10,510	—	10,510
Montana							
Troy City of.....	—	15,358	—	—	—	—	15,358
Nebraska							
Bartley Village of.....	—	—	2,090	—	—	—	2,090
Campbell Village of.....	—	—	—	—	3,066	—	3,066
Decatur Village of.....	—	—	4,571	—	—	—	4,571
Emerson City of.....	—	—	6,324	—	—	—	6,324
Endicott Village of.....	—	—	—	647	—	—	647
Panama Village of.....	—	—	—	1,530	—	—	1,530
Reynolds Village of.....	—	—	—	715	—	—	715
St Paul City of.....	—	—	17,918	—	—	—	17,918
Stratton City of.....	—	—	4,076	—	—	—	4,076
Stromsburg City of.....	—	—	11,129	—	—	—	11,129
Talmage Village of.....	—	—	—	2,318	—	—	2,318
Trenton City of.....	—	—	5,913	—	—	—	5,913
Village of Holbrook.....	—	—	1,923	—	—	—	1,923

See notes and footnotes at end of table.

Table 31. Electricity Purchases by Publicly Owned Utilities Not Reported on Form EIA-412, by State, 1996 (Continued)

State / Utility	Source of Electricity (Purchases in thousand kWh)						Total
	Investor-Owned	Federal	State and Other Government	Municipal	Cooperative	Other ¹	
Nevada							
Caliente City of.....	—	—	13,190	—	—	—	13,190
Pioche City of.....	—	—	6,450	—	—	—	6,450
New Jersey							
Milltown Borough of.....	33,965	—	—	—	—	—	33,965
Park Ridge Elec Dept Borough.....	64,030	—	—	—	—	—	64,030
New Mexico							
Springer Town of.....	—	—	—	—	5,186	—	5,186
North Carolina							
Fountain Town of.....	—	—	—	4,490	—	—	4,490
Oak City Town of.....	—	—	—	—	4,850	—	4,850
Ohio							
Woodsfield City of.....	—	—	—	—	22,000	—	22,000
Oklahoma							
Anadarko Public Works Auth.....	—	—	—	—	60,280	—	60,280
Braman Town of.....	—	—	—	1,813	—	—	1,813
Burlington City of.....	—	—	—	—	1,397	—	1,397
Cordell City of.....	—	—	—	—	24,484	—	24,484
Fort Supply Town of.....	—	—	—	—	2,562	—	2,562
Lindsay City of.....	—	—	—	—	26,338	—	26,338
Mooreland City of.....	—	—	—	—	6,750	—	6,750
Oregon							
Bandon City of.....	—	58,785	—	—	—	—	58,785
Cascade Locks City of.....	—	20,552	—	—	—	—	20,552
Drain Electric Dept.....	—	23,850	—	—	—	—	23,850
Monmouth City of.....	—	66,531	—	—	—	—	66,531
South Carolina							
Bennettsville City of.....	100,937	—	—	—	—	—	100,937
South Dakota							
Elk Point City of.....	—	—	—	—	14,644	—	14,644
Onida City of.....	—	—	—	—	6,314	—	6,314
Tennessee							
Brownsville City of/Sep 30.....	—	202,729	—	—	—	—	202,729
Dayton City of.....	—	216,323	—	—	—	—	216,323
Etowah City of/Jun 30.....	—	157,125	—	—	—	—	157,125
Sweetwater City of/Jun 30.....	—	208,836	—	—	—	—	208,836
Winchester City of.....	—	155,997	—	—	—	—	155,997
Texas							
Electra City of.....	—	—	—	—	25,919	—	25,919
Garrison City of.....	—	—	—	—	9,400	—	9,400
Hearne City of.....	—	—	—	—	45,963	—	45,963
Hemphill City of.....	—	—	—	—	19,772	—	19,772
Plains City of.....	—	—	—	—	6,957	—	6,957
San Augustine City of.....	—	—	—	—	23,990	—	23,990
Sanger City of.....	—	—	—	—	32,184	—	32,184
Seymour City of.....	—	—	—	—	29,033	—	29,033
Timpson City of.....	—	—	—	—	12,098	—	12,098
Waelder Utilities.....	—	—	11,558	—	—	—	11,558
Weimar Utilities.....	—	—	33,673	—	—	—	33,673
Whitesboro City of.....	—	—	—	—	28,888	—	28,888
Virginia							
Culpeper Town of.....	—	63,005	63,005	—	—	—	126,010
Washington							
Alder Mutual Lgt Co.....	—	3,286	—	—	—	—	3,286
Blaine City of.....	—	65,131	—	—	—	—	65,131

See notes and footnotes at end of table.

Table 31. Electricity Purchases by Publicly Owned Utilities Not Reported on Form EIA-412, by State, 1996 (Continued)

State / Utility	Source of Electricity (Purchases in thousand kWh)						Total
	Investor-Owned	Federal	State and Other Government	Municipal	Cooperative	Other ¹	
Washington							
Chewelah Light Dept.....	—	24,345	—	—	—	—	24,345
Coulee Dam Light Dept.....	—	—	—	—	—	20,606	20,606
Eatonville Town of.....	—	21,577	—	—	—	—	21,577
Elmhurst Mutual Power & Lgt.....	—	252,459	—	—	—	—	252,459
McCleary Light & Power.....	—	35,826	—	—	—	—	35,826
Milton City of.....	—	64,254	—	—	—	—	64,254
Ohop Mutual Light Co.....	—	60,607	—	—	—	—	60,607
Parkland Light & Water Co.....	—	105,070	—	—	—	—	105,070
Peninsula Light Company.....	—	481,297	—	—	—	—	481,297
PUD No 1 Asotin County.....	—	—	—	—	—	292	292
Steilacoom Town of.....	—	40,738	—	—	—	—	40,738
Wisconsin							
Arcadia City of.....	—	—	—	—	64,340	—	64,340
Argyle City of.....	—	—	—	—	8,520	—	8,520
Cashton Village of.....	—	—	—	—	6,893	—	6,893
Cumberland City of.....	—	—	—	—	33,594	—	33,594
Elroy City of.....	—	—	—	—	19,040	—	19,040
Fennimore City of.....	—	—	—	—	31,232	—	31,232
La Farge Municipal Electric Co.....	—	—	—	3,014	3,014	—	6,028
New Lisbon City of.....	—	—	—	—	25,701	—	25,701
Viola City of.....	—	—	—	—	4,390	—	4,390
Wyoming							
Basin Town of.....	—	—	—	—	9,681	—	9,681
Midvale Irrigation District.....	—	—	—	—	233	—	233

¹ Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •For identification purposes, the municipalities are listed in the State in which the municipality is located. •Totals may not equal sum of components because of independent rounding.

Source: •Energy Information Administration Form EIA-861, "Annual Electric Utility Report," except where footnoted.

Table 32. Electricity Exchanges and Wheeling by Publicly Owned Utilities, 1996
(Thousand Kilowatthours)

Public Authority / State / Utility	Exchanges		Wheeling	
	Received	Delivered	Received	Delivered
Federal				
Alaska				
Alaska Power Administration.....	—	—	372,960	372,960
Colorado				
Western Area Power Admin.....	507,000	1,096,000	5,997,000	5,997,000
Georgia				
Southeastern Power Admin.....	719	—	515,208	515,208
Oklahoma				
Southwestern Power Admin.....	857,512	389,465	—	—
Oregon				
Bonneville Power Admin.....	10,410,118	15,065,775	58,611,622	56,799,260
Tennessee				
Tennessee Valley Authority.....	22,656,445	33,385,182	3,552,775	3,452,530
State and Other Government				
Alaska				
Alaska Energy Authority.....	—	—	333,665	333,665
California				
California Dept-Wtr Resources.....	5,267,738	2,713,496	—	—
Northern California Power Agny.....	86,941	41,104	—	—
Colorado				
Platte River Power Authority.....	23,004	11,128	—	—
Georgia				
Municipal Electric Authority.....	—	—	790,799	747,305
Massachusetts				
Massachusetts Mun Whls Elec Co.....	795,490	310,060	—	—
Oklahoma				
Grand River Dam Authority.....	109,026	21,197	11,745	11,745
South Carolina				
South Carolina Pub Serv Auth.....	38,184	45,798	439,088	496,367
Utah				
Utah Associated Mun Power Sys.....	28,945	25,210	—	—
Municipal				
Arkansas				
Jonesboro City of.....	—	142,516	—	—
California				
Anaheim City of.....	1,751	33,100	—	—
Lassen Municipal Utility Dist.....	—	—	153,636	153,636
Los Angeles City of.....	714,989	185,704	21,315,941	21,272,237
Riverside City of.....	75,515	60,072	—	—
Santa Clara City of.....	—	—	145,693	142,836
Turlock Irrigation District.....	3,929	941	13,821	1,979
Colorado				
Colorado Springs City of.....	1,985	1,229	47,650	47,650
Longmont City of.....	—	—	8,176	8,165
Connecticut				
Connecticut Mun Elec Engy Coop.....	134,872	11,732	—	—
South Norwalk City of.....	—	89	—	—
Florida				
Jacksonville Electric Auth.....	—	—	884,743	884,743
Lakeland City of.....	—	—	202,432	201,730
Ocala City of.....	—	—	48,736	48,736
Iowa				
Ames City of.....	154	227	—	—
Harlan City of.....	3,581	4,989	—	—
Muscatine City of.....	—	—	9,607	1,136
Pella City of.....	5,666	6,759	—	—
Tipton City of.....	—	392	—	—
Kansas				
Coffeyville City of.....	136,648	136,857	—	—
Kansas City City of.....	—	13,893	—	—

See notes and footnotes at end of table.

Table 32. Electricity Exchanges and Wheeling by Publicly Owned Utilities, 1996
(Thousand Kilowatthours) (Continued)

Public Authority / State / Utility	Exchanges		Wheeling	
	Received	Delivered	Received	Delivered
Municipal				
Louisiana				
Lafayette City of.....	9,497	9,512	—	—
Massachusetts				
Ashburnham Town of.....	11,349	3,935	—	—
Boylston Town of.....	6,969	3,793	—	—
Braintree Town of.....	107,485	42,918	—	—
Chicopee City of.....	1,325	-967	—	—
Danvers Town of.....	87,995	38,909	—	—
Georgetown City of.....	10,430	3,744	—	—
Groton City of.....	9,336	8,314	—	—
Hingham City of.....	69,080	21,981	—	—
Holyoke City of.....	23,011	23,826	2,788	—
Hudson Town of.....	35,888	14,908	—	—
Ipswich Town of.....	35,994	3,851	—	—
Littleton Town of.....	17,462	11,760	—	—
Mansfield Town of.....	54,347	23,264	—	—
Marblehead City of.....	43,890	13,772	—	—
Middleborough Town of.....	18,115	—	—	—
Middleton City of.....	11,269	5,061	—	—
North Attleborough Town of.....	90,376	22,667	—	—
Paxton Town of.....	7,011	3,845	—	—
Peabody City of.....	223,305	62,460	—	—
Princeton Town of.....	1,177	72	—	—
Reading Town of.....	160,645	72,142	—	—
Shrewsbury Town of.....	49,194	20,877	—	—
South Hadley Town of.....	9,496	6,985	—	—
Sterling Town of.....	8,757	4,275	—	—
Taunton City of.....	271,664	12,054	—	—
Templeton Town of.....	17,300	7,787	—	—
West Boylston Town of.....	—	—	16,999	8,139
Westfield City of.....	101,736	38,518	—	—
Maryland				
Easton Utilities Comm.....	185,967	1,914	—	—
Michigan				
Holland City of.....	6,354	2,410	—	—
Lansing City of.....	2,855	3,340	—	—
Minnesota				
Grand Marais City of.....	—	20	—	—
Hutchinson Utilities Comm.....	156	263	—	—
Missouri				
Columbia City of.....	—	—	189,014	186,656
Independence City of.....	2,298	2,210	—	—
Sikeston City of.....	186,037	244,871	—	—
Springfield City of.....	104,915	193,424	—	—
North Carolina				
Fayetteville Public Works Comm.....	548,173	19,782	—	—
Nebraska				
Grand Island City of.....	40	42	—	—
Hastings City of.....	—	—	5,538	5,538
Lincoln Electric System.....	15,253	16,735	109,070	109,070
Wayne City of.....	—	—	2,025	1,942
New Jersey				
Vineland City of.....	288,039	19,950	—	—
New Mexico				
Farmington City of.....	1,512	6,860	422,250	413,829
Los Alamos County.....	48,769	21,881	—	—
Ohio				
American Mun Power-Ohio Inc.....	—	—	39,840	39,840
Cleveland City of.....	—	63,527	—	—
Hamilton City of.....	18,066	4,185	—	—
New Knoxville Village of.....	—	—	1,923	1,923
Orrville City of.....	1,016	864	—	—
Painesville City of.....	3,987	2,158	—	—
St Marys City of.....	947	3,661	—	—

See notes and footnotes at end of table.

Table 32. Electricity Exchanges and Wheeling by Publicly Owned Utilities, 1996

(Thousand Kilowatthours) (Continued)

Public Authority / State / Utility	Exchanges		Wheeling	
	Received	Delivered	Received	Delivered
Municipal				
Oregon				
Eugene City of.....	52,482	39,033	—	—
South Carolina				
Piedmont Municipal Power Agny.....	614,652	622,028	—	—
Texas				
Austin City of.....	37,078	38,236	22,181	10,894
Bryan City of.....	161,865	167,352	—	—
San Antonio City of.....	120,869	76,618	—	—
Utah				
Blanding City of.....	—	—	1,050	1,050
Ephraim City of.....	662	662	—	—
Virginia				
Danville City of.....	—	—	21,582	21,582
Vermont				
Barton Village Inc.....	6,235	5,802	—	—
Burlington City of.....	125	125	—	—
Morrisville Village of.....	6,670	13,674	—	—
Washington				
Seattle City of.....	8,004,559	9,098,308	43,462	43,462
Tacoma City of.....	100,206	15,949	1,394,880	1,394,880

—Not Applicable

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

4. Bulk Power Transactions by Cooperative Utilities

Overview

This chapter presents electric trade data for cooperative utilities, most of which are participants in the U. S. Department of Agriculture's Rural Utilities Service (RUS) Cooperative Borrowers program. The data are separated and presented for the Power Supply Borrowers and Distribution Borrowers. Power Supply Borrowers generate and purchase electricity for wholesale transactions with other electric utilities, while most Distribution Borrowers do not own generators and provide only distribution services to the final consumer. Cooperative borrowers are required to provide RUS with financial and operational data to support the RUS loan management program. The cooperative borrowers represent nearly all the cooperatives in the country.¹⁴

There are many types of cooperative associations, but five basic principles or features distinguish cooperatives from other types of private enterprise businesses.

- Ownership is held by member-users.
- Control is on the basis of one vote per member, or on volume provided.
- Operations have an at-cost (nonprofit) objective.
- Dividends on member capital are limited.
- Education is necessary for understanding and support.¹⁵

Cooperative entities are recognized by State statutes, which differ by State. Cooperatives can use a variety of generic labels depending on State statutes: mutuals and cooperatives (Washington, Idaho, and Nevada); cooperatives, rural electric membership corporations (North Carolina); rural electric systems, electric power associations (Mississippi), etc. In addition, many cooperatives are incorporated. Federal legislation further defines cooperative activities. Cooperatives are organized for a variety of reasons including insurance, agricultural, telephone, water, and electrical services.

There were about 35 electric cooperatives which predated the establishment of the Rural Electrification Administration (REA), the predecessor of RUS, in 1935. A number of these cooperatives were formed as mutual associations. Many of these early efforts, however, were not successful. It was the establishment of the REA and other activities starting in 1935 that initiated the major development phase of cooperative electrification. This chapter focuses on purchases by cooperative borrowers because, at this time, RUS computerizes only individual utility transactions with other utilities for purchased power. Therefore, data on sales for resale are not presented in this chapter. Because RUS does not collect information on exchanges and wheeling, data from the Form EIA-861, "Annual Electric Utility Report," were used to provide aggregate data totals for the cooperative borrowers. Form EIA-861 is a mandatory form filed annually by all electric utilities in the United States on a calendar-year basis.

Tables

This chapter presents data on each of the cooperative utilities, most of which are RUS electric borrowers. These cooperatives purchased electricity from other cooperatives, investor-owned, Federally owned, municipal utilities, and State authorities. Electricity purchases by power supply cooperatives are presented in Table 33 and by distribution cooperatives in Table 34. Cooperatives not listed elsewhere are presented in Table 35. Table 36 provides data on exchanges and transmission service transactions of the cooperative borrowers.

The tables present aggregate data on total quantity and value of each cooperative's electric utility trade. The reported quantities cannot be broken into firm and interruptible trade classifications. Nor is information available on demand, energy, and other revenues and costs. For ease of identification, the cooperative borrowers are listed by State according to the mailing address of the administrative office. This listing does not necessarily reflect the electrical geographics of a cooperative's electrical system.

¹⁴ There have been fewer than 50 RUS borrowers that have paid off their loans. Those utilities are not required to file the RUS forms.

¹⁵ Information paraphrased and quoted from Agricultural Cooperative Service, U. S. Department of Agriculture, "Cooperative Principles and Legal Foundations," Cooperative Information Report 1, Section 1 (March 1982), p. 3.

Highlights

While power supply cooperatives operate generation facilities to meet the needs of both bulk power requirements of their membership and supply the end-using customer, no cooperatives were among the top 50 of all utilities for generation and count of end-use customers. In part, this reflects the historical mission of cooperative utilities to serve low-population areas. Yet, these cooperative utilities do provide service to large areas of the United States.

Summary

Power supply cooperatives, although small in total numbers, play an important role in the wholesale power resale market. Their large purchases and wide-ranging redistribution capability have put them in a highly visible position in the cooperative sector of the electric power industry. The amount of electricity a large power supply cooperative purchases is far greater than that of a typical distribution cooperative.

Many of these power suppliers are wholly owned by distribution cooperatives and supply only those cooperatives as wholesale customers. Others are distribution cooperatives with excess generating capability. But as a group, power supply cooperatives continue to purchase more electric power from a wider range of sources.

Regional differences in establishment of cooperatives primarily resulted from the historical development of the electric utility industry. Differences in the volume and type of trade can be related to geographical concentration and the proximity of other utilities and transmission facilities. For instance, some large interconnected transmission systems cross cooperative service territories affording the cooperative multiple sources of power. In contrast, cooperatives that are geographically isolated may only be able to buy from a single source.

Most distribution cooperatives sell power to the ultimate consumers who reside in their service territories. Cooperative service territories generally have a lower density of customers and many miles of distribution lines. Although distribution cooperatives do buy power from nearby investor-owned utilities and government authorities, the large majority of distribution cooperatives purchase most of their supply from power supply cooperatives.

Table 33. Electricity Purchases by the Power Supply Segment of Cooperative Borrowers, by State, 1996

State / Cooperative Borrower	Source of Electricity						
	Investor-Owned		Federal		State and Other Government		Municipal
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
Alabama							
Alabama Electric Coop Inc	713,798	23,805,612	367,657	10,254,872	73	1,739	4,912
Alaska							
Alaska Electric G & T Coop Inc . .	—	—	—	—	—	—	—
Arizona							
Arizona Electric Pwr Coop Inc	—	—	—	—	—	—	—
Arkansas							
Arkansas Electric Coop Corp	—	—	—	—	—	—	—
Colorado							
Tri-State G & T Assn Inc	60,384	1,153,120	2,372,777	46,614,143	31,834	350,895	—
Florida							
Seminole Electric Coop Inc	1,378,801	126,973,682	—	—	—	—	190,590
Georgia							
Oglethorpe Power Corp.....	4,168,854	170,179,896	—	—	168,071	3,244,290	14,492
Illinois							
Southern Illinois Power Coop.....	—	19,210	41,350	919,968	—	—	—
Indiana							
Hoosier Energy R E C Inc	334,334	8,827,118	—	—	—	—	—
Iowa							
Central Iowa Power Coop.....	—	—	78,275	1,054,675	—	—	630
Corn Belt Power Coop	—	52,400	139,078	1,855,278	—	—	—
L & O Power Coop.....	—	—	74,183	989,238	—	—	—
Northwest Iowa Power Coop	—	—	296,997	3,902,937	—	—	—
Kansas							
Kansas Electric Power Coop Inc	607,569	20,237,011	382,433	10,159,965	—	—	—
Sunflower Electric Power Corp.....	31,543	1,375,605	—	—	125,183	2,202,418	7,742
Kentucky							
Big Rivers Electric Corp.....	55,756	1,191,737	210,594	5,848,368	—	—	1,582,730
East Kentucky Power Coop Inc	617,370	13,852,315	4,138,876	76,987,336	—	—	—
Louisiana							
Cajun Electric Power Coop Inc.....	279,655	6,359,833	256,433	3,888,611	—	—	—
Michigan							
Wolverine Pwr Supply Coop Inc	1,120,958	40,485,802	—	—	—	—	—
Minnesota							
Coop Power Assn	186,122	3,262,423	553,469	7,583,994	260,664	3,639,625	962
United Power Assn	161,540	3,918,810	106,175	1,621,057	-224,013	-4,088,633	144,413
Mississippi							
South Mississippi El Pwr Assn.....	19,550	509,865	274,648	8,777,245	—	—	—
Missouri							
Associated Electric Coop Inc	2,748,899	99,382,282	1,695,744	29,958,143	2,447,213	33,707,467	4,049,291
Central Electric Power Coop.....	—	—	—	—	—	—	—
M & A Electric Power Coop	—	—	—	—	—	—	—
N W Electric Power Coop Inc	—	—	—	—	—	—	—
Northeast Missouri El Pwr Coop .	—	—	—	—	—	—	—
Sho-Me Power Electric Coop.....	—	—	—	—	—	—	—
Montana							
Upper Missouri G&T El Coop Inc	—	—	327,229	4,649,229	—	—	—

See notes and footnotes at end of table.

Table 33. Electricity Purchases by the Power Supply Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Alabama							
Alabama Electric Coop Inc	198,393	874,800	23,207,867	735,117	13,730,799	2,696,357	71,199,282
Alaska							
Alaska Electric G & T Coop Inc . . .	—	905,824	36,765,267	—	—	905,824	36,765,267
Arizona							
Arizona Electric Pwr Coop Inc	—	—	—	2,108,022	46,005,909	2,108,022	46,005,909
Arkansas							
Arkansas Electric Coop Corp	—	—	—	3,101,923	47,342,728	3,101,923	47,342,728
Colorado							
Tri-State G & T Assn Inc	—	1,376,433	45,506,389	2,409,837	47,013,810	6,251,265	140,638,357
Florida							
Seminole Electric Coop Inc	13,394,819	192,572	4,520,615	600,443	52,785,984	2,362,406	197,675,100
Georgia							
Oglethorpe Power Corp.....	446,389	1,601,275	40,236,165	654,239	14,982,038	6,606,931	229,088,778
Illinois							
Southern Illinois Power Coop.....	91,000	331	17,135	—	—	41,681	1,047,313
Indiana							
Hoosier Energy R E C Inc	—	144,695	6,717,959	24,472	453,544	503,501	15,998,621
Iowa							
Central Iowa Power Coop.....	11,929	1,100	61,135	264	15,040	80,269	1,142,779
Corn Belt Power Coop	—	5,159	113,337	3	55	144,240	2,021,070
L & O Power Coop.....	—	99,026	3,686,352	—	—	173,209	4,675,590
Northwest Iowa Power Coop	—	424,455	16,482,182	193	2,930	721,645	20,388,049
Kansas							
Kansas Electric Power Coop Inc	—	36,320	411,415	—	4,324,738	1,026,322	35,133,129
Sunflower Electric Power Corp.....	283,190	224	4,164	3,775	53,695	168,467	3,919,072
Kentucky							
Big Rivers Electric Corp.....	33,548,515	63,021	1,580,808	51,169	1,088,962	1,963,270	43,258,390
East Kentucky Power Coop Inc	—	72,812	1,228,916	245,851	3,974,184	5,074,909	96,042,751
Louisiana							
Cajun Electric Power Coop Inc.....	—	44,263	940,229	237,884	6,480,117	818,235	17,668,790
Michigan							
Wolverine Pwr Supply Coop Inc	—	—	—	198,762	4,876,343	1,319,720	45,362,145
Minnesota							
Coop Power Assn	25,818	756,652	19,114,213	25,042	386,777	1,782,911	34,012,850
United Power Assn	3,493,979	314,362	6,783,293	1,076,837	15,475,975	1,579,314	27,204,481
Mississippi							
South Mississippi El Pwr Assn.....	—	1,077,613	28,623,451	330,623	7,998,731	1,702,434	45,909,292
Missouri							
Associated Electric Coop Inc	37,361,224	175,167	3,704,004	363,392	7,428,354	11,479,706	211,541,474
Central Electric Power Coop.....	—	2,268,825	69,784,469	—	—	2,268,825	69,784,469
M & A Electric Power Coop	—	1,234,540	36,890,405	—	—	1,234,540	36,890,405
N W Electric Power Coop Inc	—	1,229,547	35,343,117	—	—	1,229,547	35,343,117
Northeast Missouri El Pwr Coop . . .	—	1,127,584	30,381,463	—	—	1,127,584	30,381,463
Sho-Me Power Electric Coop.....	—	2,914,820	88,600,249	—	—	2,914,820	88,600,249
Montana							
Upper Missouri G&T El Coop Inc	—	722,032	29,478,233	—	—	1,049,261	34,127,462

See notes and footnotes at end of table.

Table 33. Electricity Purchases by the Power Supply Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Investor-Owned		Federal		State and Other Government		Municipal
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
Nebraska							
Nebraska Electric G&T Coop Inc	—	—	—	—	2,734,746	93,911,386	—
New Mexico							
Plains Elec Gen&Trans Coop Inc	445,765	6,866,173	646,724	12,664,064	2,729	53,047	85
North Carolina							
North Carolina El Member Corp	9,554,865	381,691,636	—	—	305	6,127	—
North Dakota							
Basin Electric Power Coop	3,505	59,755	6,581	5,815,626	2,993	85,601	—
Central Power Elec Coop Inc.....	—	—	346,080	4,595,783	—	—	—
Minnkota Power Coop Inc	1,166,388	27,030,657	662,519	8,722,752	34,219	687,612	6,126
Square Butte Electric Coop.....	—	—	—	—	—	—	—
Ohio							
Buckeye Power Inc.....	446,030	12,664,587	—	—	—	—	—
Oklahoma							
KAMO Electric Coop Inc	45,068	1,502,398	—	—	1,458,250	53,161,253	—
Western Farmers Elec Coop Inc	118,124	2,143,971	761,360	11,214,780	10,610	221,318	—
Pennsylvania							
Allegheny Electric Coop Inc.....	283,932	13,485,197	—	—	461,911	3,116,770	—
South Carolina							
Central Electric Pwr Coop Inc.....	103,840	5,507,606	321,491	6,890,790	8,330,809	315,879,897	—
Saluda River Electric Coop Inc.....	1,474,258	55,684,957	—	—	—	—	—
South Dakota							
East River Elec Power Coop Inc	—	78,430	774,810	10,087,798	—	—	—
Texas							
Brazos Electric Power Coop Inc	1,074,280	43,290,213	54,265	1,333,799	103,833	4,757,950	—
Northeast Texas Elec Coop Inc	711,573	25,222,119	327,509	5,313,868	—	—	—
Sam Rayburn G&T Elec Coop Inc.....	3,030	89,575	—	—	—	—	—
South Texas Electric Coop Inc.....	67,852	1,530,891	79,852	1,849,998	117,215	2,092,564	27,476
Tex-La Electric Coop-Texas Inc.....	756,730	30,095,346	96,452	1,744,874	—	—	—
Wisconsin							
Dairyland Power Coop.....	233,243	4,810,852	568,335	8,184,922	74,647	1,109,502	18,183

See notes and footnotes at end of table.

Table 33. Electricity Purchases by the Power Supply Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Nebraska							
Nebraska Electric G&T Coop Inc	—	—	—	—	—	2,734,746	93,911,386
New Mexico							
Plains Elec Gen&Trans Coop Inc	1,342	480	7,040	3,695	121,810	1,099,478	19,713,476
North Carolina							
North Carolina El Member Corp	—	1,379	30,721	—	—	9,556,549	381,728,484
North Dakota							
Basin Electric Power Coop	—	216,233	4,938,618	209,343	2,867,806	438,655	13,767,406
Central Power Elec Coop Inc.....	—	839,427	28,226,189	—	—	1,185,507	32,821,972
Minnkota Power Coop Inc	105,761	45,015	519,068	1,157,550	37,367,431	3,071,817	74,433,281
Square Butte Electric Coop.....	—	22,432	188,008	—	—	22,432	188,008
Ohio							
Buckeye Power Inc.....	—	—	—	—	—	446,030	12,664,587
Oklahoma							
KAMO Electric Coop Inc	—	1,967,483	60,650,444	9	1,882	3,470,810	115,315,977
Western Farmers Elec Coop Inc	—	—	—	57,341	1,104,259	947,435	14,684,328
Pennsylvania							
Allegheny Electric Coop Inc.....	—	—	—	245,813	8,236,145	991,656	24,838,112
South Carolina							
Central Electric Pwr Coop Inc.....	—	—	—	—	—	8,756,140	328,278,293
Saluda River Electric Coop Inc.....	—	14,620	944,661	480	105,800	1,489,358	56,735,418
South Dakota							
East River Elec Power Coop Inc	—	969,102	36,196,412	—	—	1,743,912	46,362,640
Texas							
Brazos Electric Power Coop Inc	—	1,523,560	49,965,279	1,612,681	45,471,146	4,368,619	144,818,387
Northeast Texas Elec Coop Inc	—	392,186	11,315,545	—	—	1,431,268	41,851,532
Sam Rayburn G&T Elec Coop Inc.....	—	663,239	29,686,073	339,588	7,552,938	1,005,857	37,328,586
South Texas Electric Coop Inc.....	518,622	1,468,253	44,202,628	56,125	1,408,849	1,816,773	51,603,552
Tex-La Electric Coop-Texas Inc.....	—	270,362	11,016,470	-7,674	1,891	1,115,870	42,858,581
Wisconsin							
Dairyland Power Coop	286,576	2,169,424	30,595,372	10,464	307,831	3,074,296	45,295,055

¹ Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •The Department of Agriculture under the Rural Electrification Act is authorized to provide Federal commitments for long-term financing and to guarantee non-Federal long-term loans to utilities supplying power to rural America. The utilities that received guarantees for their loans are referred to as borrowers by the Rural Utilities Service (formerly, the Rural Electrification Administration). Nonborrowing cooperatives and other utilities that do not borrow from the RUS are not required to file the RUS-7 and RUS-12 forms. •Power supply borrowers generate electricity and sell power to other utilities. •For identification purposes, the Cooperative Borrowers are listed in the State in which the administrative office is located. •Totals may not equal sum of components because of independent rounding.

Source: Rural Utilities Service, RUS Form 7, "Financial and Statistical Report," RUS Form 12a through 12i, "Electric Power Supply Borrowers," Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities."

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996

State / Cooperative Borrower	Source of Electricity						
	Investor-Owned		Federal		State and Other Government		Municipal
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
Alabama							
Arab Electric Coop Inc.....	—	—	301,331	13,711,571	—	—	—
Baldwin County El Member Corp	—	—	—	—	—	—	—
Black Warrior Elec Member Corp	319,496	11,556,208	31,668	1,153,931	—	—	—
Central Alabama Electric Coop.....	—	—	—	—	—	—	—
Cherokee Electric Coop.....	—	—	424,430	17,419,259	—	—	—
Clarke-Washington E M C.....	—	—	—	—	—	—	—
Coosa Valley Electric Coop Inc.....	—	—	—	—	—	—	—
Covington Electric Coop Inc.....	—	—	—	—	—	—	—
Cullman Electric Coop Inc.....	—	—	776,811	34,152,685	—	—	—
Dixie Electric Coop.....	—	—	—	—	—	—	—
Franklin Electric Coop.....	—	—	246,338	10,559,654	—	—	—
Joe Wheeler Elec Member Corp.....	—	—	906,684	39,988,909	—	—	—
National Chemical Corp.....	—	—	328,428	15,021,587	—	—	—
North Alabama Electric Coop.....	—	—	467,197	18,908,577	—	—	—
Pea River Electric Coop.....	—	—	—	—	—	—	—
Pioneer Electric Coop Inc.....	—	—	—	—	—	—	—
Sand Mountain Electric Coop.....	—	—	506,007	22,918,917	—	—	—
South Alabama Elec Coop Inc.....	—	—	—	—	—	—	—
Southern Pine Elec Coop Inc.....	—	—	—	—	—	—	—
Tallapoosa River Elec Coop Inc.....	—	—	—	—	—	—	—
Tombigbee Electric Coop Inc.....	112,600	4,078,682	11,166	404,601	—	—	—
Wiregrass Electric Coop Inc.....	—	—	—	—	—	—	—
Alaska							
Copper Valley Elec Assn Inc.....	—	—	—	—	38,453	2,460,972	—
Golden Valley Elec Assn Inc.....	—	—	—	—	—	—	7,851
Homer Electric Assn Inc.....	—	—	—	—	—	—	—
Kodiak Electric Assn Inc.....	—	—	—	—	103,738	6,639,208	—
Arizona							
Duncan Valley Elec Coop Inc.....	—	—	—	—	—	—	—
Mohave Electric Coop Inc.....	1,135	91,242	2,892	112,867	—	—	—
Navopache Electric Coop Inc.....	—	—	—	—	—	—	—
Sulphur Springs Valley E C Inc.....	—	—	—	—	—	—	—
Trico Electric Coop Inc.....	—	—	—	—	—	—	—
Arkansas							
Arkansas Valley Elec Coop Corp.....	666,063	20,147,278	—	—	—	—	—
Ashley Chicot Elec Coop Inc.....	—	—	—	—	—	—	—
C & L Electric Coop Corp.....	—	—	—	—	—	—	—
Carroll Electric Coop Corp.....	—	—	—	—	—	—	—
Clay County Electric Coop Corp.....	—	—	—	—	—	—	—
Craighead Electric Coop Corp.....	—	—	—	—	—	—	—
Farmers Electric Coop Corp.....	—	—	—	—	—	—	—
First Electric Coop Corp.....	—	—	—	—	—	—	—
Mississippi Cnty Elec Coop Inc.....	—	—	—	—	—	—	—
North Arkansas Elec Coop Inc.....	7,219	333,170	—	—	—	—	—
Ouachita Electric Coop Corp.....	—	—	—	—	—	—	—
Ozarks Electric Coop Corp.....	—	—	—	—	—	—	—
Petit Jean Electric Coop Corp.....	—	—	—	—	—	—	—
Rich Mountain Elec Coop Inc.....	—	—	—	—	—	—	—
South Central Ark El Coop Inc.....	—	—	—	—	—	—	—
Southwest Arkansas E C C.....	—	—	—	—	—	—	—
Woodruff Electric Coop Corp.....	—	—	—	—	—	—	—
California							
Anza Electric Coop Inc.....	—	—	—	—	—	—	—
Plumas-Sierra Rural Elec Coop.....	7	723	63,594	1,255,668	58,133	1,867,684	—
Surprise Valley Electric Corp.....	—	—	122,942	3,090,846	—	—	—
Colorado							
Delta Montrose Electric Assn.....	—	—	—	—	—	—	—
Empire Electric Assn Inc.....	—	—	—	—	—	—	—
Grand Valley Rrl Pwr Line Inc.....	110,203	4,693,183	7,710	158,953	—	—	—

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Alabama							
Arab Electric Coop Inc.....	—	—	—	—	—	301,331	13,711,571
Baldwin County El Member Corp.....	—	746,031	31,710,145	—	—	746,031	31,710,145
Black Warrior Elec Member Corp.....	—	—	—	—	—	351,164	12,710,139
Central Alabama Electric Coop.....	—	438,148	17,818,385	—	—	438,148	17,818,385
Cherokee Electric Coop.....	—	—	—	—	—	424,430	17,419,259
Clarke-Washington E M C.....	—	240,848	9,581,282	—	—	240,848	9,581,282
Coosa Valley Electric Coop Inc.....	—	177,680	7,252,777	—	—	177,680	7,252,777
Covington Electric Coop Inc.....	—	328,865	13,900,489	—	—	328,865	13,900,489
Cullman Electric Coop Inc.....	—	—	—	—	—	776,811	34,152,685
Dixie Electric Coop.....	—	245,360	9,701,740	—	—	245,360	9,701,740
Franklin Electric Coop.....	—	—	—	—	—	246,338	10,559,654
Joe Wheeler Elec Member Corp.....	—	—	—	—	—	906,684	39,988,909
National Chemical Corp.....	—	—	—	—	—	328,428	15,021,587
North Alabama Electric Coop.....	—	—	—	—	—	467,197	18,908,577
Pea River Electric Coop.....	—	243,773	11,298,591	—	—	243,773	11,298,591
Pioneer Electric Coop Inc.....	—	158,958	6,164,006	—	—	158,958	6,164,006
Sand Mountain Electric Coop.....	—	—	—	—	—	506,007	22,918,917
South Alabama Elec Coop Inc.....	—	212,918	8,582,297	—	—	212,918	8,582,297
Southern Pine Elec Coop Inc.....	—	1,110,999	33,093,360	—	—	1,110,999	33,093,360
Tallapoosa River Elec Coop Inc.....	—	267,614	10,873,973	—	—	267,614	10,873,973
Tombigbee Electric Coop Inc.....	—	—	—	—	—	123,766	4,483,283
Wiregrass Electric Coop Inc.....	—	258,061	11,245,934	—	—	258,061	11,245,934
Alaska							
Copper Valley Elec Assn Inc.....	—	—	—	—	—	38,453	2,460,972
Golden Valley Elec Assn Inc.....	259,915	299,513	9,491,391	1,437	39,379	308,801	9,790,685
Homer Electric Assn Inc.....	—	456,906	19,681,637	—	3	456,906	19,681,640
Kodiak Electric Assn Inc.....	—	—	—	—	—	103,738	6,639,208
Arizona							
Duncan Valley Elec Coop Inc.....	—	1,721,767	61,523,835	—	—	1,721,767	61,523,835
Mohave Electric Coop Inc.....	—	584,117	27,842,633	—	—	588,144	28,046,742
Navapache Electric Coop Inc.....	—	286,735	17,108,280	—	—	286,735	17,108,280
Sulphur Springs Valley E C Inc.....	—	481,732	24,055,675	—	—	481,732	24,055,675
Trico Electric Coop Inc.....	—	303,920	15,133,847	—	—	303,920	15,133,847
Arkansas							
Arkansas Valley Elec Coop Corp.....	—	192,797	8,129,540	—	—	858,860	28,276,818
Ashley Chicot Elec Coop Inc.....	—	74,319	2,960,024	—	—	74,319	2,960,024
C & L Electric Coop Corp.....	—	280,414	11,479,849	—	—	280,414	11,479,849
Carroll Electric Coop Corp.....	—	1,054,912	40,679,816	—	—	1,054,912	40,679,816
Clay County Electric Coop Corp.....	—	173,801	6,755,550	—	—	173,801	6,755,550
Craighead Electric Coop Corp.....	—	364,432	14,832,752	—	—	364,432	14,832,752
Farmers Electric Coop Corp.....	—	—	—	72,999	3,396,323	72,999	3,396,323
First Electric Coop Corp.....	—	1,257,358	49,092,502	—	—	1,257,358	49,092,502
Mississippi Cnty Elec Coop Inc.....	—	2,684,916	69,911,396	—	—	2,684,916	69,911,396
North Arkansas Elec Coop Inc.....	—	485,079	18,835,489	—	—	492,298	19,168,659
Ouachita Electric Coop Corp.....	—	197,334	7,473,414	—	—	197,334	7,473,414
Ozarks Electric Coop Corp.....	—	790,213	31,644,033	—	—	790,213	31,644,033
Petit Jean Electric Coop Corp.....	—	230,677	9,238,252	—	—	230,677	9,238,252
Rich Mountain Elec Coop Inc.....	—	101,251	4,084,795	—	—	101,251	4,084,795
South Central Ark El Coop Inc.....	—	218,913	7,621,431	—	—	218,913	7,621,431
Southwest Arkansas E C C.....	—	511,005	18,474,696	—	—	511,005	18,474,696
Woodruff Electric Coop Corp.....	—	316,454	11,653,715	—	—	316,454	11,653,715
California							
Anza Electric Coop Inc.....	—	37,570	1,862,067	—	—	37,570	1,862,067
Plumas-Sierra Rural Elec Coop.....	—	—	—	268	6,020	122,002	3,130,095
Surprise Valley Electric Coop.....	—	—	—	—	—	122,942	3,090,846
Colorado							
Delta Montrose Electric Assn.....	—	453,205	17,847,771	—	—	453,205	17,847,771
Empire Electric Assn Inc.....	—	386,388	12,583,118	—	—	386,388	12,583,118
Grand Valley Rrl Pwr Line Inc.....	—	—	—	—	—	117,913	4,852,136

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Investor-Owned		Federal		State and Other Government		Municipal
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
Colorado							
Highline Electric Assn.....	—	—	—	—	—	—	—
Holy Cross Electric Assn Inc.....	235,422	19,254,185	44,275	807,493	—	—	—
K C Electric Assn.....	—	—	—	—	—	—	—
La Plata Electric Assn Inc.....	—	—	—	—	—	—	—
Morgan County Rural Elec Assn.....	—	—	—	—	—	—	—
Mountain Parks Electric Inc.....	—	—	—	—	—	—	—
Mountain View Elec Assn Inc.....	—	—	—	—	—	—	—
Poudre Valley R E A Inc.....	—	—	—	—	—	—	—
San Isabel Electric Assn Inc.....	—	—	—	—	—	—	—
San Luis Valley R E C Inc.....	—	—	—	—	—	—	—
San Miguel Power Assn Inc.....	—	—	—	—	—	—	—
Sangre De Cristo Elec Assn Inc.....	—	—	—	—	—	—	—
Southeast Colorado Power Assn.....	—	—	—	—	—	—	—
United Power Inc.....	311	22,827	—	—	—	—	—
White River Electric Assn Inc.....	—	—	—	—	—	—	—
Y-W Electric Assn Inc.....	—	—	—	—	—	—	10
Yampa Valley Electric Assn Inc.....	401,910	15,856,595	26,232	458,672	—	—	—
Delaware							
Delaware Electric Coop Inc.....	—	—	—	—	—	—	—
Florida							
Central Florida Elec Coop Inc.....	—	—	10,856	306,594	—	—	—
Choctawhatche Elec Coop Inc.....	—	—	—	—	—	—	—
Clay Electric Coop Inc.....	—	—	—	—	—	—	1,941
Escambia River Elec Coop Inc.....	—	—	—	—	—	—	—
Glades Electric Coop Inc.....	—	—	—	—	—	—	—
Gulf Coast Electric Coop Inc.....	—	—	—	—	—	—	—
Peace River Electric Coop Inc.....	—	—	—	—	—	—	—
Sumter Electric Coop Inc.....	—	—	—	—	—	—	—
Suwannee Valley Elec Coop Inc.....	—	—	22,001	629,897	—	—	—
Talquin Electric Coop Inc.....	—	—	64,841	1,816,435	—	—	12,508
Tri-County Electric Coop Inc.....	—	—	24,681	695,263	—	—	—
West Florida El Coop Assn Inc.....	—	—	—	—	—	—	—
Withlacoochee River Elec Coop.....	—	—	—	—	—	—	—
Georgia							
Altamaha Electric Member Corp.....	—	—	17,017	466,668	—	—	—
Amicalola Electric Member Corp.....	—	—	18,023	495,024	—	—	—
Blue Ridge Mountain E M C.....	—	—	399,392	17,748,987	—	—	—
Canoochee Electric Member Corp.....	—	—	—	397,309	—	—	—
Carroll Electric Member Corp.....	11	1,169	27,624	729,885	—	—	—
Central Georgia El Member Corp.....	—	—	20,751	564,711	—	—	—
Coastal Electric Member Corp.....	—	—	4,987	131,778	—	—	—
Colquitt Electric Members Corp.....	—	—	60,861	1,657,056	—	—	—
Coweta-Fayette El Member Corp.....	—	—	21,107	557,686	—	—	—
Excelsior Electric Member Corp.....	—	—	14,412	380,787	—	—	—
Flint Electric Membership Corp.....	—	—	88,244	2,401,805	—	—	—
Grady County Elec Member Corp.....	—	—	16,408	450,339	—	—	—
GreyStone Power Corp.....	—	—	48,548	1,321,148	—	—	—
Habersham Electric Member Corp.....	—	—	16,100	437,827	—	—	—
Hart Electric Member Corp.....	—	—	30,660	810,086	—	—	—
Irwin Electric Membership Corp.....	—	—	13,550	361,135	—	—	—
Jackson Electric Member Corp.....	—	—	77,753	2,054,472	—	—	—
Jefferson Electric Member Corp.....	—	—	21,646	594,230	—	—	—
Lamar Electric Membership Corp.....	—	—	10,962	289,624	—	—	—
Little Ocmulgee El Member Corp.....	—	—	12,811	338,476	—	—	—
Middle Georgia El Member Corp.....	—	—	9,850	260,261	—	—	—
North Georgia Elec Member Corp.....	—	—	2,271,205	94,497,781	—	—	—
Ocmulgee Electric Member Corp.....	—	—	13,436	355,009	—	—	—
Oconee Electric Member Corp.....	—	—	12,551	341,625	—	—	—
Okefenokee Rural El Member Corp.....	—	—	15,399	406,865	—	—	—
Pataula Electric Member Corp.....	—	—	5,285	139,627	—	—	—
Planters Electric Member Corp.....	—	—	16,714	442,479	—	—	—

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Colorado							
Highline Electric Assn.....	—	266,551	11,984,213	1	16	266,552	11,984,229
Holy Cross Electric Assn Inc.....	—	—	—	482,511	5,468,035	762,208	25,529,713
K C Electric Assn.....	—	177,732	7,070,584	—	—	177,732	7,070,584
La Plata Electric Assn Inc.....	—	654,591	24,814,790	—	—	654,591	24,814,790
Morgan County Rural Elec Assn.....	—	187,749	7,515,931	—	—	187,749	7,515,931
Mountain Parks Electric Inc.....	—	212,067	7,805,037	—	—	212,067	7,805,037
Mountain View Elec Assn Inc.....	—	397,397	16,201,510	—	—	397,397	16,201,510
Poudre Valley R E A Inc.....	—	630,458	22,875,362	—	—	630,458	22,875,362
San Isabel Electric Assn Inc.....	—	260,560	9,593,562	13	1,511	260,573	9,595,073
San Luis Valley R E C Inc.....	—	212,368	7,845,094	—	—	212,368	7,845,094
San Miguel Power Assn Inc.....	—	137,074	5,455,746	—	—	137,074	5,455,746
Sangre De Cristo Elec Assn Inc.....	—	75,123	3,078,419	—	—	75,123	3,078,419
Southeast Colorado Power Assn.....	—	151,100	5,992,915	—	—	151,100	5,992,915
United Power Inc.....	—	591,164	22,997,698	—	—	591,475	23,020,525
White River Electric Assn Inc.....	—	103,046	3,745,607	—	—	103,046	3,745,607
Y-W Electric Assn Inc.....	155	287,677	12,381,795	—	—	287,687	12,381,950
Yampa Valley Electric Assn Inc.....	—	—	—	—	—	428,142	16,315,267
Delaware							
Delaware Electric Coop Inc.....	—	717,678	37,726,843	—	—	717,678	37,726,843
Florida							
Central Florida Elec Coop Inc.....	—	326,691	16,619,089	—	69,482	337,547	16,995,165
Choctawhatche Elec Coop Inc.....	—	460,561	19,948,545	—	—	460,561	19,948,545
Clay Electric Coop Inc.....	131,198	2,119,888	106,395,751	—	—	2,121,829	106,526,949
Escambia River Elec Coop Inc.....	—	144,844	6,057,217	—	—	144,844	6,057,217
Glades Electric Coop Inc.....	—	266,416	13,072,633	—	—	266,416	13,072,633
Gulf Coast Electric Coop Inc.....	—	220,934	9,154,257	—	—	220,934	9,154,257
Peace River Electric Coop Inc.....	—	317,583	17,066,815	—	—	317,583	17,066,815
Sumter Electric Coop Inc.....	—	1,315,460	68,403,582	—	—	1,315,460	68,403,582
Suwannee Valley Elec Coop Inc.....	—	254,799	12,928,718	—	—	276,800	13,558,615
Talquin Electric Coop Inc.....	844,576	719,303	37,343,631	—	—	796,652	40,004,642
Tri-County Electric Coop Inc.....	—	160,040	7,625,836	—	—	184,721	8,321,099
West Florida El Coop Assn Inc.....	—	327,069	14,082,154	—	—	327,069	14,082,154
Withlacoochee River Elec Coop.....	—	2,467,240	127,349,291	—	—	2,467,240	127,349,291
Georgia							
Altamaha Electric Member Corp.....	—	355,193	14,801,929	—	—	372,210	15,268,597
Amicalola Electric Member Corp.....	—	339,428	16,612,462	—	—	357,451	17,107,486
Blue Ridge Mountain E M C.....	—	—	—	—	—	399,392	17,748,987
Canoochee Electric Member Corp.....	—	—	13,066,317	—	—	—	13,463,626
Carroll Electric Member Corp.....	—	598,561	27,695,139	—	—	626,196	28,426,193
Central Georgia El Member Corp.....	—	464,632	23,583,604	—	—	485,383	24,148,315
Coastal Electric Member Corp.....	—	185,440	8,962,043	—	—	190,427	9,093,821
Colquitt Electric Members Corp.....	—	781,029	37,009,949	—	—	841,890	38,667,005
Coweta-Fayette El Member Corp.....	—	767,062	42,201,094	—	—	788,169	42,758,780
Excelsior Electric Member Corp.....	—	253,568	12,614,112	—	—	267,980	12,994,899
Flint Electric Membership Corp.....	—	1,021,276	50,237,966	—	—	1,109,520	52,639,771
Grady County Elec Member Corp.....	—	206,787	11,012,121	—	—	223,195	11,462,460
GreyStone Power Corp.....	—	1,117,802	59,106,153	83	2,069	1,166,433	60,429,370
Habersham Electric Member Corp.....	—	305,728	14,894,998	—	—	321,828	15,332,825
Hart Electric Member Corp.....	—	378,786	19,099,196	—	—	409,446	19,909,282
Irwin Electric Membership Corp.....	—	141,307	6,976,404	—	—	154,857	7,337,539
Jackson Electric Member Corp.....	—	2,485,902	125,598,374	—	—	2,563,655	127,652,846
Jefferson Electric Member Corp.....	—	394,736	21,545,801	—	—	416,382	22,140,031
Lamar Electric Membership Corp.....	—	206,591	10,853,391	—	—	217,553	11,143,015
Little Ocmulgee El Member Corp.....	—	114,247	5,623,749	—	—	127,058	5,962,225
Middle Georgia El Member Corp.....	—	87,257	3,896,083	—	—	97,107	4,156,344
North Georgia Elec Member Corp.....	—	—	—	5	404	2,271,210	94,498,185
Ocmulgee Electric Member Corp.....	—	126,633	6,286,839	—	—	140,069	6,641,848
Oconee Electric Member Corp.....	—	219,514	9,829,239	—	—	232,065	10,170,864
Okefenokee Rural El Member Corp.....	—	371,050	19,010,526	—	—	386,449	19,417,391
Pataula Electric Member Corp.....	—	64,462	2,853,504	—	—	69,747	2,993,131
Planters Electric Member Corp.....	—	185,932	9,213,709	—	—	202,646	9,656,188

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Investor-Owned		Federal		State and Other Government		Municipal
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
Georgia							
Rayle Electric Membership Corp.....	—	—	16,372	447,481	—	—	—
Satilla Rural Elec Member Corp.....	—	—	49,586	1,310,149	—	—	—
Sawnee Electric Members Corp.....	—	—	31,200	824,342	—	—	—
Slash Pine Elec Member Corp.....	—	—	7,536	206,407	—	—	—
Sumter Electric Member Corp.....	—	—	18,405	486,049	—	—	—
Three Notch Elec Member Corp.....	—	—	19,128	526,914	—	—	—
Tri-County Elec Member Corp.....	149	14,006	10,149	268,062	—	—	—
Tri-State Electric Member Corp.....	—	—	215,009	9,437,467	—	—	—
Upson County Elec Member Corp.....	—	—	7,228	196,523	—	—	—
Washington Elec Member Corp.....	—	—	22,425	610,753	—	—	—
Idaho							
Clearwater Power Co.....	—	—	—	—	179,002	4,577,209	—
Idaho Cnty L&P Coop Assn Inc.....	—	—	43,659	1,145,757	—	—	—
Kootenai Electric Coop Inc.....	—	—	293,940	7,355,259	—	—	—
Lost River Electric Coop Inc.....	—	—	52,312	1,467,352	—	—	—
Northern Lights Inc.....	—	—	211,842	5,226,205	—	—	—
Raft River Rural Elec Coop Inc.....	—	—	193,495	4,891,213	—	—	—
Salmon River Electric Coop Inc.....	—	—	279,875	7,328,605	—	—	—
Illinois							
Adams Electrical Coop.....	—	—	—	—	—	—	—
Clay Electric Coop Inc.....	—	—	—	—	—	—	—
Clinton County Elec Coop Inc.....	—	—	—	—	—	—	—
Coles-Moultrie Electric Coop.....	—	—	—	—	—	—	—
Eastern Illini Electric Coop.....	—	—	—	—	—	—	—
Egyptian Electric Coop Assn.....	—	—	—	—	—	—	—
Farmers Mutual Electric Co.....	—	—	—	—	—	—	—
Illinois Rural Electric Co.....	—	—	—	—	—	—	—
Jo-Carroll Electric Coop Inc.....	—	—	—	—	—	—	—
M J M Electric Coop Inc.....	—	—	—	—	—	—	—
McDonough Power Coop.....	—	—	—	—	—	—	—
Menard Electric Coop.....	—	—	—	—	—	—	—
Monroe County Elec Coop Inc.....	—	—	—	—	—	—	—
Rural Electric Conven Coop.....	—	—	—	—	—	—	—
Southeastern IL Elec Coop Inc.....	—	—	—	—	—	—	—
Southern Illinois Elec Coop.....	—	—	—	—	—	—	—
Southwestern Electric Coop Inc.....	—	—	—	—	—	—	—
Spoon River Electric Coop Inc.....	—	—	—	—	—	—	—
Wayne-White Counties Elec Coop.....	—	—	—	—	—	—	—
Western Illinois Elec Coop.....	—	—	—	—	—	—	—
Indiana							
Daviess Martin County R E M C.....	—	—	—	—	—	—	—
Decatur County Rural E M C.....	—	—	—	—	—	—	—
Dubois Rural Electric Coop Inc.....	—	—	—	—	—	—	—
Fulton County Rural E M C.....	82,279	3,451,776	—	—	—	—	—
Harrison County Rural E M C.....	—	—	—	—	—	—	—
Jackson County Rural E M C.....	375,712	14,573,247	—	—	—	—	—
Jasper County Rural E M C.....	—	—	—	—	—	—	—
Jay County Rural E M C.....	—	—	—	—	—	—	—
Johnson County Rural E M C.....	—	—	—	—	—	—	—
Kankakee Valley Rural E M C.....	—	—	—	—	—	—	—
Knox County Rural E M C.....	—	—	—	—	—	—	—
Lagrange County Rural E M C.....	—	—	—	—	—	—	—
Marshall County Rural E M C.....	—	—	—	—	—	—	—
Newton County Rural E M C.....	—	—	—	—	—	—	—
Northeastern Rural E M C.....	—	—	—	—	—	—	—
Orange County Rural E M C.....	—	—	—	—	—	—	—
Parke County Rural E M C.....	—	—	—	—	—	—	—
Rush County Rural E M C.....	—	—	—	—	—	—	—
Shelby County Rural E M C.....	—	—	—	—	—	—	—
South Central Indiana REMC.....	—	—	—	—	—	—	—
Southeastern Indiana R E M C.....	—	—	—	—	—	—	—

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Georgia							
Rayle Electric Membership Corp.....	—	175,622	8,555,655	—	—	191,994	9,003,136
Satilla Rural Elec Member Corp.....	—	612,694	31,046,970	—	—	662,280	32,357,119
Sawnee Electric Members Corp.....	—	1,297,788	71,335,008	—	—	1,328,988	72,159,350
Slash Pine Elec Member Corp.....	—	104,922	4,952,242	—	—	112,458	5,158,649
Sumter Electric Member Corp.....	—	247,608	11,825,258	—	—	266,013	12,311,307
Three Notch Elec Member Corp.....	—	173,263	8,057,805	—	—	192,391	8,584,719
Tri-County Elec Member Corp.....	—	211,876	11,050,380	—	—	222,174	11,332,448
Tri-State Electric Member Corp.....	—	—	—	—	—	215,009	9,437,467
Upson County Elec Member Corp.....	—	93,766	5,151,613	—	—	100,994	5,348,136
Washington Elec Member Corp.....	—	304,597	12,860,680	—	—	327,022	13,471,433
Idaho							
Clearwater Power Co.....	—	—	—	—	—	179,002	4,577,209
Idaho Cnty L&P Coop Assn Inc.....	—	—	—	2,253	43,016	45,912	1,188,773
Kootenai Electric Coop Inc.....	—	—	—	—	—	293,940	7,355,259
Lost River Electric Coop Inc.....	—	11,054	293,273	—	—	63,366	1,760,625
Northern Lights Inc.....	—	16,417	545,836	—	304,905	228,259	6,076,946
Raft River Rural Elec Coop Inc.....	—	12,855	184,987	—	—	206,350	5,076,200
Salmon River Electric Coop Inc.....	—	—	—	—	—	279,875	7,328,605
Illinois							
Adams Electrical Coop.....	—	101,735	7,244,988	—	—	101,735	7,244,988
Clay Electric Coop Inc.....	—	36,658	2,678,724	—	—	36,658	2,678,724
Clinton County Elec Coop Inc.....	—	109,022	6,596,729	—	—	109,022	6,596,729
Coles-Moultrie Electric Coop.....	—	164,644	9,703,614	—	—	164,644	9,703,614
Eastern Illini Electric Coop.....	—	206,830	13,058,382	—	—	206,830	13,058,382
Egyptian Electric Coop Assn.....	—	245,136	10,117,894	—	—	245,136	10,117,894
Farmers Mutual Electric Co.....	—	17,074	1,366,884	—	—	17,074	1,366,884
Illinois Rural Electric Co.....	—	120,047	8,392,970	—	—	120,047	8,392,970
Jo-Carroll Electric Coop Inc.....	—	78,869	2,993,771	—	—	78,869	2,993,771
M J M Electric Coop Inc.....	—	105,769	7,541,109	—	—	105,769	7,541,109
McDonough Power Coop.....	—	70,916	4,890,574	—	—	70,916	4,890,574
Menard Electric Coop.....	—	160,827	9,596,929	—	1,621	160,827	9,598,550
Monroe County Elec Coop Inc.....	—	76,315	5,307,661	—	—	76,315	5,307,661
Rural Electric Conven Coop.....	—	86,242	5,983,138	—	—	86,242	5,983,138
Southeastern IL Elec Coop Inc.....	—	592,974	23,461,887	—	—	592,974	23,461,887
Southern Illinois Elec Coop.....	—	173,864	7,090,373	—	—	173,864	7,090,373
Southwestern Electric Coop Inc.....	—	300,680	20,120,045	—	—	300,680	20,120,045
Spoon River Electric Coop Inc.....	—	52,267	3,571,022	—	—	52,267	3,571,022
Wayne-White Counties Elec Coop.....	—	323,431	17,549,699	—	—	323,431	17,549,699
Western Illinois Elec Coop.....	—	39,269	2,855,032	—	—	39,269	2,855,032
Indiana							
Daviess Martin County R E M C.....	—	132,597	5,044,023	—	—	132,597	5,044,023
Decatur County Rural E M C.....	—	236,943	8,328,417	—	—	236,943	8,328,417
Dubois Rural Electric Coop Inc.....	—	216,173	8,207,023	—	—	216,173	8,207,023
Fulton County Rural E M C.....	—	—	—	—	-68,098	82,279	3,383,678
Harrison County Rural E M C.....	—	376,653	14,653,020	—	—	376,653	14,653,020
Jackson County Rural E M C.....	—	—	—	—	—	375,712	14,573,247
Jasper County Rural E M C.....	—	118,152	4,807,644	—	—	118,152	4,807,644
Jay County Rural E M C.....	—	99,016	3,896,684	—	—	99,016	3,896,684
Johnson County Rural E M C.....	—	228,258	8,939,974	—	—	228,258	8,939,974
Kankakee Valley Rural E M C.....	—	194,328	8,136,736	—	—	194,328	8,136,736
Knox County Rural E M C.....	—	213,517	7,970,721	—	—	213,517	7,970,721
Lagrange County Rural E M C.....	—	89,384	3,642,475	—	-138,734	89,384	3,503,741
Marshall County Rural E M C.....	—	80,056	3,442,873	—	—	80,056	3,442,873
Newton County Rural E M C.....	—	25,488	1,062,004	—	—	25,488	1,062,004
Northeastern Rural E M C.....	—	410,111	15,613,828	—	—	410,111	15,613,828
Orange County Rural E M C.....	—	92,223	3,635,355	—	—	92,223	3,635,355
Parke County Rural E M C.....	—	177,137	7,058,822	—	—	177,137	7,058,822
Rush County Rural E M C.....	—	80,818	3,049,240	—	—	80,818	3,049,240
Shelby County Rural E M C.....	—	152,596	5,900,945	—	—	152,596	5,900,945
South Central Indiana REMC.....	—	424,561	16,841,329	—	186,256	424,561	17,027,585
Southeastern Indiana R E M C.....	—	363,401	14,252,927	—	—	363,401	14,252,927

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Investor-Owned		Federal		State and Other Government		Municipal
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
Indiana							
Southern Indiana R E C Inc.....	—	—	—	—	—	—	—
Sullivan County Rural E M C.....	—	—	—	—	—	—	—
Tipmont Rural Elec Member Corp.....	—	—	—	—	—	—	—
United Rural Elec Member Corp.....	—	—	—	—	—	—	—
Utilities Dist-Western IN REMC.....	—	—	—	—	—	—	—
Wabash County Rural E M C.....	—	—	—	—	—	—	—
White County Rural E M C.....	—	—	—	—	—	—	—
Whitewater Valley Rural EMC.....	—	—	—	—	—	—	—
Iowa							
Adams County Coop Electric Co.....	—	—	—	—	—	—	—
Allamakee-Clayton El Coop Inc.....	—	—	—	—	—	—	—
Butler County Rural Elec Coop.....	—	—	—	—	—	—	—
Calhoun County Elec Coop Assn.....	—	—	—	—	—	—	—
Cedar Valley Electric Coop.....	—	—	—	—	—	—	—
Chariton Valley Elec Coop Inc.....	—	—	—	—	—	—	—
Clarke Electric Coop Inc.....	—	—	—	—	—	—	—
East-Central Iowa Rrl El Coop.....	—	—	—	—	—	—	—
Eastern Iowa Light&Power Coop.....	—	—	—	—	—	—	—
Farmers Electric Coop Inc.....	—	—	—	—	—	—	—
Franklin Rural Electric Coop.....	—	—	—	—	—	—	—
Glidden Rural Electric Coop.....	—	—	—	—	—	—	—
Grundy County Rural Elec Coop.....	—	—	—	—	—	—	—
Guthrie County Rural E C A.....	—	—	—	—	—	—	—
Hancock County Rural Elec Coop.....	—	—	—	—	—	—	—
Harrison County Rrl Elec Coop.....	—	—	—	—	—	—	—
Hawkeye Tri-County El Coop Inc.....	—	—	—	—	—	—	—
Humboldt County R E C.....	—	—	—	—	—	—	—
Ida County Rural Electric Coop.....	—	—	—	—	—	—	—
Iowa Lakes Electric Coop.....	—	—	—	—	—	—	—
Linn County Rural E C A.....	—	—	—	—	—	—	—
Lyon Rural Electric Coop.....	—	—	—	—	—	—	—
Maquoketa Valley Rrl Elec Coop.....	—	—	—	—	—	—	—
Marshall County Rrl Elec Coop.....	—	—	—	—	—	—	—
Midland Power Coop.....	—	—	—	—	—	—	—
Monona County Rural Elec Coop.....	—	—	—	—	—	—	—
Nyman Electric Coop Inc.....	—	—	—	—	—	—	—
Osceola Electric Coop Inc.....	—	—	—	—	—	—	—
Pella Coop Elec Assn.....	—	—	—	—	—	—	—
Plymouth Electric Coop Assn.....	—	—	—	—	—	—	—
Rideta Electric Coop Inc.....	—	—	—	—	—	—	—
S E Iowa Coop Electric Assn.....	—	—	—	—	—	—	—
Sac County Rural Electric Coop.....	—	—	—	—	—	—	—
South Crawford Rural Elec Coop.....	—	—	—	—	—	—	—
Southern Iowa Elec Coop Inc.....	—	—	—	—	—	—	—
T I P Rural Electric Coop.....	—	—	—	—	—	—	—
Winnebago Rural Elec Coop Assn.....	—	—	—	—	—	—	—
Woodbury County Rural E C A.....	—	—	—	—	—	—	—
Wright County Rural Elec Coop.....	—	—	—	—	—	—	—
Kansas							
Ark Valley Elec Coop Assn Inc.....	—	—	—	—	—	—	—
Brown-Atchison E C A Inc.....	—	—	—	—	—	—	—
Butler Rural El Coop Assn Inc.....	—	—	—	—	—	—	—
C & W Rural Elec Coop Assn Inc.....	—	—	—	—	—	—	—
Caney Valley El Coop Assn Inc.....	—	—	—	—	—	—	—
CMS Electric Coop Inc.....	—	—	—	—	—	—	—
D S & O Rural E C A Inc.....	—	—	—	—	—	—	—
Doniphan Elec Coop Assn Inc.....	17,629	616,371	—	—	—	—	—
Flint Hills Rural E C A Inc.....	—	—	—	—	—	—	—
Jewell-Mitchell Coop Elec Inc.....	—	—	—	—	—	—	—
Kaw Valley Electric Coop Inc.....	112,153	3,892,089	—	—	—	—	—
Lane-Scott Electric Coop Inc.....	—	—	—	—	—	—	—
Leavenworth-Jefferson E C Inc.....	—	—	—	—	—	—	—

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Indiana							
Southern Indiana R E C Inc.....	—	133,936	5,151,866	—	—	133,936	5,151,866
Sullivan County Rural E M C.....	—	129,816	4,995,655	—	—	129,816	4,995,655
Tipmont Rural Elec Member Corp.....	—	287,056	11,889,279	—	—	287,056	11,889,279
United Rural Elec Member Corp.....	—	402,320	14,844,311	—	—	402,320	14,844,311
Utilities Dist-Western IN REMC.....	—	274,943	10,731,362	—	—	274,943	10,731,362
Wabash County Rural E M C.....	—	133,671	5,150,603	—	—	133,671	5,150,603
White County Rural E M C.....	—	105,847	4,177,040	—	—	105,847	4,177,040
Whitewater Valley Rural EMC.....	—	178,556	6,864,029	—	—	178,556	6,864,029
Iowa							
Adams County Coop Electric Co.....	—	29,013	1,368,718	—	—	29,013	1,368,718
Allamakee-Clayton El Coop Inc.....	—	124,691	5,096,613	—	—	124,691	5,096,613
Butler County Rural Elec Coop.....	—	111,075	5,124,635	3	223	111,078	5,124,858
Calhoun County Elec Coop Assn.....	—	30,245	1,435,546	—	—	30,245	1,435,546
Cedar Valley Electric Coop.....	—	6,553	2,462,654	—	—	6,553	2,462,654
Chariton Valley Elec Coop Inc.....	—	75,139	2,521,592	—	—	75,139	2,521,592
Clarke Electric Coop Inc.....	—	57,295	2,798,452	—	—	57,295	2,798,452
East-Central Iowa Rrl El Coop.....	—	155,562	7,384,867	—	—	155,562	7,384,867
Eastern Iowa Light&Power Coop.....	—	360,338	20,071,486	—	—	360,338	20,071,486
Farmers Electric Coop Inc.....	—	107,561	4,777,824	—	—	107,561	4,777,824
Franklin Rural Electric Coop.....	—	40,325	1,884,748	—	—	40,325	1,884,748
Glidden Rural Electric Coop.....	—	39,165	1,796,453	—	—	39,165	1,796,453
Grundy County Rural Elec Coop.....	—	49,047	2,315,291	—	—	49,047	2,315,291
Guthrie County Rural E C A.....	—	78,282	3,623,473	—	—	78,282	3,623,473
Hancock County Rural Elec Coop.....	—	47,131	2,211,922	—	—	47,131	2,211,922
Harrison County Rrl Elec Coop.....	—	52,060	1,897,946	—	—	52,060	1,897,946
Hawkeye Tri-County El Coop Inc.....	—	126,325	5,005,505	—	—	126,325	5,005,505
Humboldt County R E C.....	—	45,628	2,013,523	—	—	45,628	2,013,523
Ida County Rural Electric Coop.....	—	37,478	1,349,870	—	—	37,478	1,349,870
Iowa Lakes Electric Coop.....	—	266,480	11,213,183	—	—	266,480	11,213,183
Linn County Rural E C A.....	—	201,931	10,428,935	—	—	201,931	10,428,935
Lyon Rural Electric Coop.....	—	60,513	1,938,750	—	—	60,513	1,938,750
Maquoketa Valley Rrl Elec Coop.....	—	234,473	11,921,822	—	—	234,473	11,921,822
Marshall County Rrl Elec Coop.....	—	74,704	3,720,370	—	—	74,704	3,720,370
Midland Power Coop.....	—	215,639	9,553,081	—	—	215,639	9,553,081
Monona County Rural Elec Coop.....	—	39,431	1,567,004	—	—	39,431	1,567,004
Nyman Electric Coop Inc.....	—	23,912	1,121,676	—	—	23,912	1,121,676
Oseola Electric Coop Inc.....	—	28,538	903,215	—	—	28,538	903,215
Pella Coop Elec Assn.....	—	43,035	2,137,897	—	—	43,035	2,137,897
Plymouth Electric Coop Assn.....	—	75,295	2,644,548	—	—	75,295	2,644,548
Rideta Electric Coop Inc.....	—	38,150	1,735,720	—	—	38,150	1,735,720
S E Iowa Coop Electric Assn.....	—	181,920	5,772,518	1	55	181,921	5,772,573
Sac County Rural Electric Coop.....	—	21,590	987,804	—	—	21,590	987,804
South Crawford Rural Elec Coop.....	—	74,421	2,512,649	—	—	74,421	2,512,649
Southern Iowa Elec Coop Inc.....	—	101,448	3,107,989	—	—	101,448	3,107,989
T I P Rural Electric Coop.....	—	106,583	5,195,779	—	—	106,583	5,195,779
Winnebago Rural Elec Coop Assn.....	—	38,042	1,450,705	—	—	38,042	1,450,705
Woodbury County Rural E C A.....	—	55,705	1,951,309	—	—	55,705	1,951,309
Wright County Rural Elec Coop.....	—	101,892	3,806,460	—	—	101,892	3,806,460
Kansas							
Ark Valley Elec Coop Assn Inc.....	—	76,576	4,106,976	31	740	76,607	4,107,716
Brown-Atchison E C A Inc.....	—	—	—	38,080	2,082,881	38,080	2,082,881
Butler Rural El Coop Assn Inc.....	—	95,413	5,201,172	7	1,118	95,420	5,202,290
C & W Rural Elec Coop Assn Inc.....	—	40,689	2,144,294	—	—	40,689	2,144,294
Caney Valley El Coop Assn Inc.....	—	53,842	2,936,566	—	—	53,842	2,936,566
CMS Electric Coop Inc.....	—	103,390	4,740,521	—	—	103,390	4,740,521
D S & O Rural E C A Inc.....	—	98,237	5,591,530	—	—	98,237	5,591,530
Doniphan Elec Coop Assn Inc.....	—	—	—	—	—	17,629	616,371
Flint Hills Rural E C A Inc.....	—	68,659	3,910,683	—	—	68,659	3,910,683
Jewell-Mitchell Coop Elec Inc.....	—	49,544	2,649,108	—	—	49,544	2,649,108
Kaw Valley Electric Coop Inc.....	—	—	—	—	—	112,153	3,892,089
Lane-Scott Electric Coop Inc.....	—	64,557	4,108,234	—	—	64,557	4,108,234
Leavenworth-Jefferson E C Inc.....	—	76,784	4,700,587	—	—	76,784	4,700,587

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Investor-Owned		Federal		State and Other Government		Municipal
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
Kansas							
Lyon-Coffey Electric Coop Inc	—	—	—	—	—	—	—
N C K Electric Coop Inc.....	—	—	—	—	—	—	—
Nemaha-Marshall E C A Inc.....	45,894	1,553,235	—	—	—	—	—
Ninnescah Rural E C A Inc	—	—	—	—	—	—	—
Northwest Kansas E C A Inc	—	—	—	—	—	—	—
Norton-Decatur Coop El Co Inc	—	—	—	—	—	—	—
P R & W Electric Coop Assn Inc.....	—	—	—	—	—	—	—
Pioneer Electric Coop Inc.....	—	—	—	—	—	—	—
Radiant Electric Coop Inc	—	—	—	—	—	—	—
Sedgwick Cnty El Coop Assn Inc	—	—	—	—	—	—	—
Sekan Electric Coop Assn Inc.....	—	—	—	—	—	—	—
Smoky Hill Elec Coop Assn Inc.....	—	—	—	—	—	—	—
Sumner-Cowley Elec Coop Inc	—	—	—	—	—	—	—
Twin Valley Electric Coop Inc	—	—	—	—	—	—	—
United Electric Coop Inc.....	—	—	—	—	—	—	—
Victory Electric Coop Assn Inc	—	—	—	—	—	—	—
Western Coop Electric Assn Inc	—	—	—	—	—	—	—
Wheatland Electric Coop Inc	—	—	—	—	—	—	—
Kentucky							
Big Sandy Rural Elec Coop Corp.....	—	—	—	—	—	—	—
Blue Grass Rural El Coop Corp.....	—	—	—	—	—	—	—
Clark Rural Electric Coop Corp.....	—	—	—	—	—	—	—
Cumberland Valley Rural E C C	—	—	—	—	—	—	—
Farmers Rural Elec Coop Corp.....	—	—	—	—	—	—	—
Fleming-Mason Rural E C C	—	—	—	—	—	—	—
Fox Creek Rural Elec Coop Corp.....	—	—	—	—	—	—	—
Grayson Rural Elec Coop Corp	—	—	—	—	—	—	—
Green River Electric Corp.....	—	—	—	—	—	—	—
Harrison County Rural E C C	—	—	—	—	—	—	—
Henderson-Union Elec Coop Corp.....	—	—	—	—	—	—	—
Hickman-Fulton Counties RECC	—	—	128,491	5,619,538	—	—	—
Inter County Rural E C C	—	—	—	—	—	—	—
Jackson County Rural E C C	—	—	—	—	—	—	—
Jackson Purchase El Coop Corp	—	—	—	—	—	—	—
Licking Valley Rural E C C.....	—	—	—	—	—	—	—
Meade County Rural E C C.....	—	—	—	—	—	—	—
Nolin Rural Electric Coop Corp.....	—	—	—	—	—	—	—
Owen Electric Coop Inc	—	—	—	—	—	—	—
Pennyrite Rural Elec Coop Corp.....	—	—	919,276	41,696,138	—	—	—
Salt River Electric Coop Corp	—	—	—	—	—	—	—
Shelby Rural Elec Coop Corp.....	—	—	—	—	—	—	—
South Kentucky Rural E C C.....	—	—	—	—	—	—	—
Taylor County Rural E C C	—	—	—	—	—	—	—
Warren Rural Elec Coop Corp.....	—	—	1,238,104	52,193,002	—	—	—
West Kentucky Rural E C C.....	—	—	822,948	35,055,298	—	—	—
Louisiana							
Claiborne Electric Coop Inc	—	—	—	—	—	—	—
Concordia Electric Coop Inc	—	—	—	—	—	—	—
Dixie Electric Membership Corp	—	—	—	—	—	—	—
Jefferson Davis Elec Coop Inc.....	—	—	—	—	—	—	—
Northeast Louisiana Power Coop.....	—	—	—	—	—	—	—
Pointe Coupee Elec Member Corp.....	—	—	—	—	—	—	—
South Louisiana Elec Coop Assn.....	—	—	—	—	—	—	—
Southwest Louisiana E M C.....	—	—	—	—	—	—	—
Teche Electric Coop Inc	—	—	—	—	—	—	—
Valley Electric Member Corp	—	—	—	—	—	—	—
Washington-St Tammany E C Inc	—	—	—	—	—	—	—
Maine							
Eastern Maine Electric Coop.....	29,328	1,409,884	—	—	—	—	—
Fox Islands Electric Coop Inc	9,236	405,920	—	—	—	—	—
Swans Island Electric Coop Inc	2,379	174,701	—	—	—	—	—

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Kansas							
Lyon-Coffey Electric Coop Inc.....	—	92,584	4,839,431	—	229	92,584	4,839,660
N C K Electric Coop Inc.....	—	33,418	1,838,410	—	—	33,418	1,838,410
Nemaha-Marshall E C A Inc.....	—	—	—	—	—	45,894	1,553,235
Ninnescah Rural E C A Inc.....	—	66,552	3,237,911	2	54	66,554	3,237,965
Northwest Kansas E C A Inc.....	—	29,736	1,901,298	—	—	29,736	1,901,298
Norton-Decatur Coop El Co Inc.....	—	105,516	5,379,545	14	170	105,530	5,379,715
P R & W Electric Coop Assn Inc.....	—	36,026	2,130,426	—	—	36,026	2,130,426
Pioneer Electric Coop Inc.....	—	305,845	16,329,242	61	726	305,906	16,329,968
Radiant Electric Coop Inc.....	—	44,611	2,366,514	—	—	44,611	2,366,514
Sedgwick Cnty El Coop Assn Inc.....	—	77,187	4,626,668	3	87	77,190	4,626,755
Sekan Electric Coop Assn Inc.....	—	53,790	2,895,851	—	—	53,790	2,895,851
Smoky Hill Elec Coop Assn Inc.....	—	37,791	1,960,035	—	—	37,791	1,960,035
Sumner-Cowley Elec Coop Inc.....	—	63,296	3,504,847	—	—	63,296	3,504,847
Twin Valley Electric Coop Inc.....	—	26,248	1,527,050	—	—	26,248	1,527,050
United Electric Coop Inc.....	—	62,356	3,380,653	567	14,564	62,923	3,395,217
Victory Electric Coop Assn Inc.....	—	117,783	5,709,371	4	94	117,787	5,709,465
Western Coop Electric Assn Inc.....	—	118,481	7,120,740	—	—	118,481	7,120,740
Wheatland Electric Coop Inc.....	—	662,985	35,887,469	28	312	663,013	35,887,781
Kentucky							
Big Sandy Rural Elec Coop Corp.....	—	252,046	8,385,103	—	—	252,046	8,385,103
Blue Grass Rural El Coop Corp.....	—	499,549	16,565,441	—	—	499,549	16,565,441
Clark Rural Electric Coop Corp.....	—	323,310	10,831,006	—	—	323,310	10,831,006
Cumberland Valley Rural E C C.....	—	447,894	14,778,764	—	—	447,894	14,778,764
Farmers Rural Elec Coop Corp.....	—	353,150	11,643,457	—	—	353,150	11,643,457
Fleming-Mason Rural E C C.....	—	613,647	17,371,954	—	—	613,647	17,371,954
Fox Creek Rural Elec Coop Corp.....	—	159,720	5,437,551	—	—	159,720	5,437,551
Grayson Rural Elec Coop Corp.....	—	206,250	6,953,630	—	—	206,250	6,953,630
Green River Electric Coop.....	—	4,436,934	131,759,318	-1,968	-84,349	4,434,966	131,674,969
Harrison County Rural E C C.....	—	207,788	6,000,315	—	—	207,788	6,000,315
Henderson-Union Elec Coop Corp.....	—	2,719,371	81,710,450	—	-35,076	2,719,371	81,675,374
Hickman-Fulton Counties RECC.....	—	—	—	—	-3,959	128,491	5,615,579
Inter County Rural E C C.....	—	315,813	10,827,682	—	—	315,813	10,827,682
Jackson County Rural E C C.....	—	773,645	25,880,650	—	—	773,645	25,880,650
Jackson Purchase El Coop Corp.....	—	572,452	24,404,144	—	—	572,452	24,404,144
Licking Valley Rural E C C.....	—	225,850	7,671,400	—	—	225,850	7,671,400
Meade County Rural E C C.....	—	317,204	13,241,313	743	—	317,947	13,241,313
Nolin Rural Electric Coop Corp.....	—	551,432	18,287,638	—	—	551,432	18,287,638
Owen Electric Coop Inc.....	—	1,264,151	37,464,023	—	—	1,264,151	37,464,023
Pennyrite Rural Elec Coop Corp.....	—	—	—	—	—	919,276	41,696,138
Salt River Electric Coop Corp.....	—	640,326	21,452,372	—	—	640,326	21,452,372
Shelby Rural Elec Coop Corp.....	—	333,011	10,403,370	—	—	333,011	10,403,370
South Kentucky Rural E C C.....	—	813,983	27,828,896	—	—	813,983	27,828,896
Taylor County Rural E C C.....	—	339,528	11,492,917	—	—	339,528	11,492,917
Warren Rural Elec Coop Corp.....	—	—	—	—	—	1,238,104	52,193,002
West Kentucky Rural E C C.....	—	—	—	—	—	822,948	35,055,298
Louisiana							
Claiborne Electric Coop Inc.....	—	413,168	19,301,977	—	—	413,168	19,301,977
Concordia Electric Coop Inc.....	—	161,265	7,729,741	—	—	161,265	7,729,741
Dixie Electric Membership Corp.....	—	1,210,709	60,143,520	—	—	1,210,709	60,143,520
Jefferson Davis Elec Coop Inc.....	—	188,924	9,089,519	—	—	188,924	9,089,519
Northeast Louisiana Power Coop.....	—	214,910	10,881,883	—	—	214,910	10,881,883
Pointe Coupee Elec Member Corp.....	—	194,340	8,511,841	—	—	194,340	8,511,841
South Louisiana Elec Coop Assn.....	—	422,335	19,417,943	—	—	422,335	19,417,943
Southwest Louisiana E M C.....	—	1,499,056	70,415,811	—	—	1,499,056	70,415,811
Teche Electric Coop Inc.....	—	179,665	8,606,029	—	-2,088	179,665	8,603,941
Valley Electric Member Corp.....	—	489,784	24,771,261	—	—	489,784	24,771,261
Washington-St Tammany E C Inc.....	—	660,511	32,526,168	—	—	660,511	32,526,168
Maine							
Eastern Maine Electric Coop.....	—	—	—	76,428	3,914,702	105,756	5,324,586
Fox Islands Electric Coop Inc.....	—	—	—	—	—	9,236	405,920
Swans Island Electric Coop Inc.....	—	—	—	—	-11,561	2,379	163,140

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Investor-Owned		Federal		State and Other Government		Municipal
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
Maryland							
Choptank Electric Coop Inc	—	—	—	—	—	—	—
Southern Maryland El Coop Inc	2,564,785	122,210,991	—	—	—	—	—
Michigan							
Alger-Delta Coop Electric Assn.....	43,828	1,555,280	—	—	—	—	12,454
Cherryland Electric Coop Inc.....	—	—	—	—	—	—	—
Cloverland Electric Coop	208,953	4,875,838	—	—	—	—	—
Fruit Belt Electric Coop	—	—	—	—	—	—	—
O & A Electric Coop.....	—	—	—	—	—	—	—
Ontonagon County R E A	23,752	898,410	—	—	—	—	—
Southeastern Michigan REC Inc	32,987	1,290,522	—	—	—	—	5,590
Thumb Electric Coop-Michigan	122,504	4,999,477	—	—	—	—	—
Top O' Michigan Electric Co	—	—	—	—	—	—	—
Tri-County Electric Coop	—	—	—	—	—	—	—
Western Michigan Electric Coop	—	—	—	—	—	—	—
Minnesota							
Agralite Coop.....	—	—	—	—	—	—	—
Arrowhead Electric Coop Inc.....	—	—	—	—	—	—	—
Beltrami Electric Coop Inc.....	—	—	—	—	—	—	—
Blue Earth-Nicollet-Faribault	—	—	—	—	—	—	—
Brown County Rural Elec Assn.....	—	—	—	—	—	—	—
Carlton County Coop Power Assn.....	—	—	—	—	—	—	—
Clearwater-Polk Elec Coop Inc.....	—	—	—	—	—	—	—
Coop L & P Assn of Lake County.....	—	—	—	—	—	—	—
Crow Wing Coop Power&Light Co.....	—	—	—	—	—	—	—
Dairyland Electric Coop Inc.....	—	—	—	—	—	—	—
East Central Electric Assn.....	—	—	—	—	—	—	4
Federated Rural Electric Assn.....	—	—	—	—	—	—	—
Freeborn-Mower Electric Coop.....	—	—	—	—	—	—	—
Goodhue County Coop Elec Assn	—	—	—	—	—	—	—
Itasca-Mantrap Co-op Elec Assn.....	—	—	22,879	439,828	—	—	—
Kandiyohi Coop Elec Power Assn.....	—	—	—	—	—	—	—
Lake Region Coop Elec Assn	—	—	—	—	—	—	—
Lyon-Lincoln Electric Coop Inc.....	—	—	—	—	—	—	—
McLeod Coop Power Assn.....	—	—	—	—	—	—	—
Meecker Coop Light & Power Assn	—	—	—	—	—	—	—
Mille Lacs Electric Coop.....	—	—	—	—	—	—	—
Minnesota Valley Coop L&P Assn.....	—	—	57,148	813,781	—	—	—
Minnesota Valley Electric Coop	—	—	—	—	—	—	—
Nobles Coop Electric.....	—	—	—	—	—	—	—
North Itasca Electric Coop Inc.....	—	—	—	—	—	—	—
North Star Electric Coop Inc.....	—	—	—	—	—	—	—
Northern Electric Coop Assn	—	—	—	—	—	—	—
P K M Electric Coop Inc	—	—	—	—	—	—	—
People 's Coop Power Assn.....	—	—	—	—	—	—	—
Red Lake Electric Coop Inc.....	—	—	—	—	—	—	—
Red River Valley Coop Pwr Assn	—	—	—	—	—	—	—
Redwood Electric Coop.....	—	—	—	—	—	—	—
Renville-Sibley Coop Pwr Assn.....	—	—	—	—	—	—	—
Roseau Electric Coop Inc	—	—	—	—	—	—	—
Runestone Electric Assn.....	—	—	—	—	—	—	—
South Central Electric Assn	—	—	—	—	—	—	—
Stearns Coop Electric Assn	—	—	—	—	—	—	—
Steele-Waseca Coop Electric.....	—	—	—	—	—	—	—
Todd-Wadena Electric Coop	—	—	—	—	—	—	—
Traverse Electric Coop Inc.....	—	—	—	—	—	—	—
Tri-County Electric Coop	—	—	—	—	—	—	—
Wild Rice Electric Coop Inc	—	—	—	—	—	—	—
Wright-Hennepin Coop Elec Assn	—	—	—	—	—	—	—
Mississippi							
Central Electric Power Assn.....	—	—	589,258	25,225,767	—	—	—
Coahoma Electric Power Assn.....	—	—	—	—	—	—	—

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Maryland							
Choptank Electric Coop Inc	—	661,271	34,355,493	—	—	661,271	34,355,493
Southern Maryland El Coop Inc	—	—	—	—	2,262,250	2,564,785	124,473,241
Michigan							
Alger-Delta Coop Electric Assn.....	575,898	—	—	—	—	56,282	2,131,178
Cherryland Electric Coop Inc.....	—	240,836	13,103,451	—	—	240,836	13,103,451
Cloverland Electric Coop	—	—	—	—	-9,126	208,953	4,866,712
Fruit Belt Electric Coop	—	355,949	12,846,853	—	—	355,949	12,846,853
O & A Electric Coop.....	—	263,087	14,362,511	—	—	263,087	14,362,511
Ontonagon County R E A	—	—	—	—	—	23,752	898,410
Southeastern Michigan REC Inc.....	319,039	12,186	441,773	—	—	50,763	2,051,334
Thumb Electric Coop-Michigan.....	—	—	—	—	17,848	122,504	5,017,325
Top O' Michigan Electric Co	—	458,275	24,820,577	—	—	458,275	24,820,577
Tri-County Electric Coop	—	228,778	12,742,255	—	—	228,778	12,742,255
Western Michigan Electric Coop	—	66,428	3,708,791	—	-400	66,428	3,708,391
Minnesota							
Agralite Coop	—	126,110	3,235,926	32	2,058	126,142	3,237,984
Arrowhead Electric Coop Inc.....	—	50,602	1,683,430	—	—	50,602	1,683,430
Beltrami Electric Coop Inc.....	—	378,510	11,225,494	—	—	378,510	11,225,494
Blue Earth-Nicollet-Faribault	—	221,384	8,323,352	6	414	221,390	8,323,766
Brown County Rural Elec Assn.....	—	103,097	3,228,650	—	—	103,097	3,228,650
Carlton County Coop Power Assn.....	—	138,321	4,789,764	—	—	138,321	4,789,764
Clearwater-Polk Elec Coop Inc.....	—	65,726	2,121,848	—	—	65,726	2,121,848
Coop L & P Assn of Lake County.....	—	72,364	2,388,081	—	—	72,364	2,388,081
Crow Wing Coop Power&Light Co.....	—	343,532	12,469,509	—	—	343,532	12,469,509
Dairyland Electric Coop Inc.....	—	160,016	6,159,020	—	—	160,016	6,159,020
East Central Electric Assn.....	3,852	634,105	24,012,285	—	—	634,109	24,016,137
Federated Rural Electric Assn.....	—	130,016	3,655,793	—	—	130,016	3,655,793
Freeborn-Mower Electric Coop.....	—	129,571	4,683,756	—	—	129,571	4,683,756
Goodhue County Coop Elec Assn.....	—	78,271	3,348,844	—	—	78,271	3,348,844
Itasca-Mantrap Co-op Elec Assn.....	—	114,141	3,908,496	—	—	137,020	4,348,324
Kandiyohi Coop Elec Power Assn.....	—	128,131	4,296,483	—	—	128,131	4,296,483
Lake Region Coop Elec Assn.....	—	31,110	10,499,289	1	40	31,111	10,499,329
Lyon-Lincoln Electric Coop Inc.....	—	76,727	2,790,483	—	—	76,727	2,790,483
McLeod Coop Power Assn.....	—	128,073	4,742,271	—	—	128,073	4,742,271
Meeker Coop Light & Power Assn	—	131,564	4,268,217	—	—	131,564	4,268,217
Mille Lacs Electric Coop.....	—	133,077	4,732,319	—	—	133,077	4,732,319
Minnesota Valley Coop L&P Assn.....	—	97,121	3,923,081	—	—	154,269	4,736,862
Minnesota Valley Electric Coop.....	—	327,568	12,858,922	—	-102,084	327,568	12,756,838
Nobles Coop Electric.....	—	109,098	2,918,858	—	—	109,098	2,918,858
North Itasca Electric Coop Inc.....	—	37,698	1,394,164	—	—	37,698	1,394,164
North Star Electric Coop Inc.....	—	100,078	2,835,734	—	8	100,078	2,835,742
Northern Electric Coop Assn	—	242,645	8,266,035	—	—	242,645	8,266,035
P K M Electric Coop Inc	—	110,497	3,288,017	—	—	110,497	3,288,017
People 's Coop Power Assn.....	—	210,379	8,164,097	8	512	210,387	8,164,609
Red Lake Electric Coop Inc.....	—	116,287	3,687,564	—	—	116,287	3,687,564
Red River Valley Coop Pwr Assn.....	—	126,950	4,017,385	—	—	126,950	4,017,385
Redwood Electric Coop.....	—	58,521	1,631,468	25	1,755	58,546	1,633,223
Renville-Sibley Coop Pwr Assn.....	—	86,828	2,619,998	—	—	86,828	2,619,998
Roseau Electric Coop Inc.....	—	154,410	4,185,026	6	500	154,416	4,185,526
Runestone Electric Assn.....	—	176,242	5,481,505	—	—	176,242	5,481,505
South Central Electric Assn.....	—	94,843	2,612,124	—	—	94,843	2,612,124
Stearns Coop Electric Assn.....	—	334,056	11,808,494	8	485	334,064	11,808,979
Steele-Waseca Coop Electric.....	—	151,446	5,553,391	28	2,415	151,474	5,555,806
Todd-Wadena Electric Coop.....	—	141,868	4,398,619	—	—	141,868	4,398,619
Traverse Electric Coop Inc.....	—	69,100	2,283,680	—	—	69,100	2,283,680
Tri-County Electric Coop	—	253,799	9,624,966	28	1,827	253,827	9,626,793
Wild Rice Electric Coop Inc.....	—	203,643	6,345,485	—	—	203,643	6,345,485
Wright-Hennepin Coop Elec Assn.....	—	513,570	18,640,167	—	—	513,570	18,640,167
Mississippi							
Central Electric Power Assn.....	—	—	—	—	—	589,258	25,225,767
Coahoma Electric Power Assn.....	—	111,780	4,936,525	—	—	111,780	4,936,525

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Investor-Owned		Federal		State and Other Government		Municipal
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
Mississippi							
Coast Electric Power Assn	—	—	—	—	—	—	—
Dixie Electric Power Assn	—	—	—	—	—	—	—
East Mississippi Elec Pwr Assn	326,073	12,558,079	230,138	9,541,937	—	—	—
Magnolia Electric Power Assn	—	—	—	—	—	—	—
Monroe County Elec Power Assn	—	—	177,348	7,811,723	—	—	—
North East Mississippi E P A	—	—	387,995	16,727,557	—	—	—
Northcentral Mississippi E P A	—	—	648,958	28,417,251	—	—	—
Singing River Elec Power Assn	—	—	—	—	—	—	—
Southern Pine Elec Power Assn	—	—	—	—	—	—	—
Southwest Mississippi E P A	—	—	—	—	—	—	—
Tallahatchie Valley E P A	—	—	621,469	26,144,759	—	—	—
Tishomingo County E P A	—	—	240,707	11,147,851	—	—	—
Tombigbee Electric Power Assn	—	—	989,894	43,406,004	—	—	—
Twin County Electric Pwr Assn	—	—	—	—	—	—	—
Yazoo Valley Elec Power Assn	—	—	—	—	—	—	—
Missouri							
Atchison-Holt Electric Coop	—	—	—	—	—	—	—
Barry Electric Coop	—	—	—	—	—	—	—
Barton County Elec Coop Inc	—	—	—	—	—	—	—
Black River Electric Coop	—	—	—	—	—	—	—
Boone Electric Coop	—	—	—	—	—	—	—
Callaway Electric Coop	—	—	—	—	—	—	—
Central Missouri Elec Coop Inc	—	—	—	—	—	—	—
Citizens Electric Corp	775,955	27,542,584	—	—	—	—	—
Consolidated Electric Coop	—	—	—	—	—	—	—
Crawford Electric Coop Inc	—	—	—	—	—	—	—
CO-MO Electric Coop Inc	—	—	—	—	—	—	—
Farmers ' Electric Coop Inc	—	—	—	—	—	—	—
Gascosage Electric Coop	—	—	—	—	—	—	—
Grundy Electric Coop Inc	—	—	—	—	—	—	—
Howard Electric Coop	—	—	—	—	—	—	—
Howell-Oregon Elec Coop Inc	—	—	—	—	—	—	—
Intercounty Electric Coop Assn	—	—	—	—	—	—	—
Laclede Electric Coop Inc	—	—	—	—	—	—	—
Lewis County Rural E C A	—	—	—	—	—	—	—
Macon Electric Coop	—	—	—	—	—	—	—
Missouri Rural Electric Coop	—	—	—	—	—	—	—
New-Mac Electric Coop Inc	—	—	—	—	—	—	—
Nodaway Worth Elec Coop Inc	—	—	—	—	—	—	—
North Central MO Elec Coop Inc	—	—	—	—	—	—	—
Northwest Missouri El Coop Inc	—	—	—	—	—	—	—
Osage Valley Elec Coop Assn	—	—	—	—	—	—	—
Ozark Border Electric Coop	—	—	—	—	—	—	—
Ozark Electric Coop Inc	—	—	—	—	—	—	—
Pemiscot-Dunklin Elec Coop Inc	—	—	—	—	—	—	—
Platte-Clay Electric Coop Inc	—	—	—	—	—	—	—
Ralls County Electric Coop	29	1,732	—	—	—	—	—
Sac-Osage Electric Coop Inc	—	—	—	—	—	—	—
Southwest Electric Coop Inc	—	—	—	—	—	—	—
SE-MA-NO Electric Coop	—	—	—	—	—	—	—
Three Rivers Electric Coop	—	—	—	—	—	—	—
Tri-County Electric Coop Assn	—	—	—	—	—	—	—
Webster Electric Coop	—	—	—	—	—	—	—
West Central Electric Coop Inc	—	—	—	—	—	—	—
White River Valley El Coop Inc	—	—	—	—	—	—	95
Montana							
Beartooth Electric Coop Inc	—	—	—	—	—	—	—
Big Flat Electric Coop Inc	—	—	—	—	—	—	—
Big Horn County Elec Coop Inc	—	—	—	—	—	—	—
Fergus Electric Coop Inc	—	—	—	—	—	—	—
Goldenwest Electric Coop Inc	—	—	—	—	—	—	—
Hill County Electric Coop Inc	—	—	—	—	—	—	—

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Mississippi							
Coast Electric Power Assn	—	1,045,075	46,644,603	—	—	1,045,075	46,644,603
Dixie Electric Power Assn	—	638,820	28,396,146	—	—	638,820	28,396,146
East Mississippi Elec Pwr Assn	—	—	—	—	—	556,211	22,100,016
Magnolia Electric Power Assn	—	463,652	20,101,767	—	—	463,652	20,101,767
Monroe County Elec Power Assn	—	—	—	—	—	177,348	7,811,723
North East Mississippi E P A	—	—	—	—	—	387,995	16,727,557
Northcentral Mississippi E P A	—	—	—	—	—	648,958	28,417,251
Singing River Elec Power Assn	—	1,036,249	46,268,501	—	—	1,036,249	46,268,501
Southern Pine Elec Power Assn	—	1,474,607	61,231,682	—	—	1,474,607	61,231,682
Southwest Mississippi E P A	—	403,981	17,360,575	—	—	403,981	17,360,575
Tallahatchie Valley E P A	—	—	—	—	—	621,469	26,144,759
Tishomingo County E P A	—	—	—	—	—	240,707	11,147,851
Tombigbee Electric Power Assn	—	—	—	—	—	989,894	43,406,004
Twin County Electric Pwr Assn	—	252,551	10,993,062	—	—	252,551	10,993,062
Yazoo Valley Elec Power Assn	—	233,543	8,455,742	—	—	233,543	8,455,742
Missouri							
Atchison-Holt Electric Coop	—	48,997	1,750,488	—	—	48,997	1,750,488
Bary Electric Coop	—	150,785	5,886,131	—	—	150,785	5,886,131
Barton County Elec Coop Inc	—	95,107	3,692,524	—	—	95,107	3,692,524
Black River Electric Coop	—	372,041	12,087,620	—	—	372,041	12,087,620
Boone Electric Coop	—	381,826	12,999,350	—	—	381,826	12,999,350
Callaway Electric Coop	—	159,566	5,210,255	—	—	159,566	5,210,255
Central Missouri Elec Coop Inc	—	210,676	6,145,961	—	—	210,676	6,145,961
Citizens Electric Corp	—	—	—	—	—	775,955	27,542,584
Consolidated Electric Coop	—	193,145	5,832,513	—	—	193,145	5,832,513
Crawford Electric Coop Inc	—	228,385	7,928,046	—	—	228,385	7,928,046
CO-MO Electric Coop Inc	—	300,074	10,181,799	—	—	300,074	10,181,799
Farmers ' Electric Coop Inc	—	244,099	7,602,514	—	—	244,099	7,602,514
Gascosage Electric Coop	—	107,014	4,043,353	—	—	107,014	4,043,353
Grundy Electric Coop Inc	—	131,393	4,302,442	—	—	131,393	4,302,442
Howard Electric Coop	—	34,894	1,121,596	—	—	34,894	1,121,596
Howell-Oregon Elec Coop Inc	—	310,674	10,521,764	395	25,700	311,069	10,547,464
Intercounty Electric Coop Assn	—	436,991	15,267,049	—	—	436,991	15,267,049
Laclede Electric Coop Inc	—	481,157	16,809,493	—	—	481,157	16,809,493
Lewis County Rural E C A	—	82,290	2,824,988	—	—	82,290	2,824,988
Macon Electric Coop	—	239,790	6,887,874	—	—	239,790	6,887,874
Missouri Rural Electric Coop	—	279,055	8,449,991	—	—	279,055	8,449,991
New-Mac Electric Coop Inc	—	205,312	8,284,631	—	—	205,312	8,284,631
Nodaway Worth Elec Coop Inc	—	51,251	1,845,816	—	—	51,251	1,845,816
North Central MO Elec Coop Inc	—	154,629	4,523,043	—	—	154,629	4,523,043
Northwest Missouri El Coop Inc	—	77,621	2,651,587	—	—	77,621	2,651,587
Osage Valley Elec Coop Assn	—	203,454	8,590,270	—	—	203,454	8,590,270
Ozark Border Electric Coop	—	510,142	16,679,065	—	—	510,142	16,679,065
Ozark Electric Coop Inc	—	368,446	15,287,337	—	—	368,446	15,287,337
Pemiscot-Dunklin Elec Coop Inc	—	114,509	3,600,396	—	—	114,509	3,600,396
Platte-Clay Electric Coop Inc	—	333,881	12,115,695	—	—	333,881	12,115,695
Ralls County Electric Coop	—	64,456	2,244,290	—	—	64,485	2,246,022
Sac-Osage Electric Coop Inc	—	110,695	4,519,906	—	—	110,695	4,519,906
Southwest Electric Coop Inc	—	407,025	16,862,027	—	—	407,025	16,862,027
SE-MA-NO Electric Coop	—	73,854	2,544,163	—	—	73,854	2,544,163
Three Rivers Electric Coop	—	310,401	10,146,470	—	—	310,401	10,146,470
Tri-County Electric Coop Assn	—	106,044	3,419,484	—	—	106,044	3,419,484
Webster Electric Coop	—	248,627	8,403,592	—	—	248,627	8,403,592
West Central Electric Coop Inc	—	173,872	6,417,521	—	—	173,872	6,417,521
White River Valley El Coop Inc	3,945	554,187	21,448,925	—	—	554,282	21,452,870
Montana							
Beartooth Electric Coop Inc	—	55,662	1,660,496	—	—	55,662	1,660,496
Big Flat Electric Coop Inc	—	60,790	1,539,547	—	—	60,790	1,539,547
Big Horn County Elec Coop Inc	—	60,136	1,815,260	—	—4,188	60,136	1,811,072
Fergus Electric Coop Inc	—	91,584	2,599,527	—	—	91,584	2,599,527
Goldenwest Electric Coop Inc	—	15,321	550,344	—	—	15,321	550,344
Hill County Electric Coop Inc	—	55,864	1,503,761	—	—	55,864	1,503,761

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Investor-Owned		Federal		State and Other Government		Municipal
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
Montana							
Lincoln Electric Coop Inc	6,627	102,471	111,788	3,079,804	—	—	—
Lower Yellowstone R E A Inc.....	—	—	—	—	—	—	—
Marias River Electric Coop Inc	—	—	—	—	—	—	—
McCone Electric Coop Inc	—	—	—	—	—	—	—
Mid-Yellowstone Elec Coop Inc.....	—	—	—	—	—	—	—
Missoula Electric Coop Inc	—	—	169,786	4,552,935	—	—	—
Northern Electric Coop Inc	—	—	—	—	—	—	—
Park Electric Coop Inc	—	—	—	—	—	—	—
Ravalli County Elec Coop Inc	—	—	113,410	3,018,376	—	—	—
Sheridan Electric Coop Inc	—	—	—	—	—	—	—
Southeast Electric Coop Inc	—	—	—	—	—	—	—
Sun River Electric Coop Inc	—	—	—	—	—	—	—
Tongue River Electric Coop Inc	—	—	—	—	—	—	—
Valley Electric Coop Inc	—	—	—	—	—	—	—
Vigilante Electric Coop Inc.....	4,418	64,945	125,841	3,310,925	—	—	—
Yellowstone Vily Elec Coop Inc	160,775	4,786,885	26,976	819,589	—	—	—
Nebraska							
Midwest Electric Member Corp.....	—	—	—	—	—	—	—
Panhandle Rural El Member Assn.....	—	—	—	—	—	—	51
Nevada							
Mt Wheeler Power Inc	—	73,941	—	—	—	—	—
Wells Rural Electric Co.....	—	16,225	703,492	18,922,186	—	—	—
New Hampshire							
New Hampshire Elec Coop Inc.....	638,180	49,702,810	—	—	—	—	—
New Jersey							
Sussex Rural Electric Coop Inc	—	—	—	—	—	—	—
New Mexico							
Central New Mexico El Coop Inc	—	—	—	—	—	—	—
Central Valley Elec Coop Inc	482,661	16,577,898	—	—	—	—	—
Columbus Electric Coop Inc	—	—	—	—	—	—	—
Continental Divide El Coop Inc.....	—	—	—	—	—	—	—
Farmers ' Electric Coop Inc.....	189,295	6,939,614	21,523	354,020	—	—	—
Jemez Mountains Elec Coop Inc.....	—	—	—	—	—	—	—
Kit Carson Electric Coop Inc.....	—	—	—	—	—	—	—
Lea County Electric Coop Inc.....	825,869	28,636,617	—	—	—	—	—
Mora-San Miguel Elec Coop Inc	—	—	—	—	—	—	—
Northern Rio Arriba E C Inc	—	—	—	—	—	—	—
Otero County Electric Coop Inc.....	—	—	—	—	—	—	—
Roosevelt County Elec Coop Inc	143,794	5,020,047	—	354,020	—	—	—
Sierra Electric Coop Inc	—	—	—	—	—	—	—
Socorro Electric Coop Inc	—	—	—	—	—	—	—
Southwestern Electric Coop Inc	—	—	—	—	—	—	—
Springer Electric Coop Inc	—	—	—	—	—	—	—
New York							
Delaware County Elec Coop Inc.....	—	—	—	—	48,267	854,167	—
Oneida-Madison Elec Coop Inc	—	—	—	—	18,682	365,463	—
Otsego Electric Coop Inc	—	—	—	—	46,109	962,776	—
Steuben Rural Elec Coop Inc.....	—	—	—	—	62,697	1,071,731	—
North Carolina							
Albemarle Electric Member Corp.....	—	—	11,066	204,054	—	—	—
Blue Ridge Elec Member Corp.....	—	—	14,498	377,189	—	—	—
Brunswick Electric Member Corp.....	—	—	16,497	241,745	—	—	—
Cape Hatteras Elec Member Corp	—	—	—	—	—	—	—
Carteret-Craven El Member Corp.....	—	—	12,574	184,249	—	—	—
Central Electric Member Corp.....	—	—	5,815	85,212	—	—	—
Crescent Electric Member Corp.....	—	—	33,178	863,187	—	—	—
Davidson Electric Member Corp.....	—	—	—	—	—	—	—

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Montana							
Lincoln Electric Coop Inc	—	—	—	2,149	7,328	120,564	3,189,603
Lower Yellowstone R E A Inc.....	—	78,294	2,911,877	—	—	78,294	2,911,877
Marias River Electric Coop Inc	—	84,684	2,279,829	—	—	84,684	2,279,829
McCone Electric Coop Inc	—	69,457	2,373,575	—	—	69,457	2,373,575
Mid-Yellowstone Elec Coop Inc.....	—	30,117	809,231	—	—	30,117	809,231
Missoula Electric Coop Inc	—	—	—	—	—	169,786	4,552,935
Northern Electric Coop Inc	—	31,384	747,652	—	—	31,384	747,652
Park Electric Coop Inc	—	57,832	1,737,050	—	—	57,832	1,737,050
Ravalli County Elec Coop Inc	—	—	—	—	—	113,410	3,018,376
Sheridan Electric Coop Inc.....	—	89,541	3,000,937	—	—	89,541	3,000,937
Southeast Electric Coop Inc	—	24,692	875,473	—	-6,338	24,692	869,135
Sun River Electric Coop Inc	—	85,592	2,322,240	—	-9,093	85,592	2,313,147
Tongue River Electric Coop Inc	—	92,036	2,519,735	—	—	92,036	2,519,735
Valley Electric Coop Inc	—	24,588	701,875	—	—	24,588	701,875
Vigilante Electric Coop Inc.....	—	—	—	—	-5,233	130,259	3,370,637
Yellowstone Vily Elec Coop Inc	—	—	-181,451	—	—	187,751	5,425,023
Nebraska							
Midwest Electric Member Corp.....	—	114,245	5,677,555	—	—	114,245	5,677,555
Panhandle Rural El Member Assn.....	8,212	95,527	4,016,228	—	—	95,578	4,024,440
Nevada							
Mt Wheeler Power Inc	—	340,621	16,155,683	84,752	1,764,819	425,373	17,994,443
Wells Rural Electric Co.....	—	—	—	—	180,165	703,492	19,118,576
New Hampshire							
New Hampshire Elec Coop Inc.....	—	—	—	-865	-473,034	637,315	49,229,776
New Jersey							
Sussex Rural Electric Coop Inc	—	118,708	7,014,201	—	—	118,708	7,014,201
New Mexico							
Central New Mexico El Coop Inc	—	128,257	7,523,605	—	—	128,257	7,523,605
Central Valley Elec Coop Inc	—	—	—	—	—	482,661	16,577,898
Columbus Electric Coop Inc	—	305,542	13,159,543	—	—	305,542	13,159,543
Continental Divide El Coop Inc.....	—	354,105	18,384,012	—	—	354,105	18,384,012
Farmers ' Electric Coop Inc	—	—	—	—	—	210,818	7,293,634
Jemez Mountains Elec Coop Inc.....	—	252,507	15,078,377	—	—	252,507	15,078,377
Kit Carson Electric Coop Inc	—	236,452	13,463,041	—	—	236,452	13,463,041
Lea County Electric Coop Inc.....	—	—	—	—	—	825,869	28,636,617
Mora-San Miguel Elec Coop Inc	—	54,012	3,321,987	—	—	54,012	3,321,987
Northern Rio Arriba E C Inc	—	27,334	1,604,878	—	—	27,334	1,604,878
Otero County Electric Coop Inc.....	—	111,442	6,660,098	—	—	111,442	6,660,098
Roosevelt County Elec Coop Inc	—	—	—	—	—	143,794	5,374,067
Sierra Electric Coop Inc	—	40,224	2,218,693	—	—	40,224	2,218,693
Socorro Electric Coop Inc	—	148,295	8,434,902	—	—	148,295	8,434,902
Southwestern Electric Coop Inc	—	459,888	16,738,581	—	—	459,888	16,738,581
Springer Electric Coop Inc	—	50,527	2,795,101	—	—	50,527	2,795,101
New York							
Delaware County Elec Coop Inc.....	—	—	—	—	—	48,267	854,167
Oneida-Madison Elec Coop Inc	—	—	—	—	2,880	18,682	368,343
Otsego Electric Coop Inc	—	—	—	—	—	46,109	962,776
Steuben Rural Elec Coop Inc	—	—	—	—	—	62,697	1,071,731
North Carolina							
Albemarle Electric Member Corp.....	—	118,497	6,471,308	—	—	129,563	6,675,362
Blue Ridge Elec Member Corp.....	—	983,421	40,557,476	654	20,739	998,573	40,955,404
Brunswick Electric Member Corp.....	—	710,394	43,389,463	—	—	726,891	43,631,208
Cape Hatteras Elec Member Corp	—	87,219	4,349,005	—	—	87,219	4,349,005
Carteret-Craven El Member Corp	—	423,443	25,924,663	—	—	436,017	26,108,912
Central Electric Member Corp	—	204,755	12,297,807	—	—	210,570	12,383,019
Crescent Electric Member Corp.....	—	885,556	44,203,079	—	-504,858	918,734	44,561,408
Davidson Electric Member Corp.....	—	572,615	28,209,483	—	—	572,615	28,209,483

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Investor-Owned		Federal		State and Other Government		Municipal
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
North Carolina							
Edgecombe-Martin County E M C	—	—	17,733	326,975	—	—	—
Four County Elec Member Corp.....	—	—	19,703	288,718	—	—	—
French Broad Elec Member Corp.....	407,778	17,197,744	12,739	421,867	—	—	—
Halifax Electric Member Corp.....	—	—	24,336	199,274	—	—	—
Harkers Island El Member Corp.....	—	—	43	2,163	—	—	—
Haywood Electric Member Corp.....	—	—	5,431	167,781	—	—	—
Lumbee River Elec Member Corp.....	—	—	17,502	256,463	—	—	—
Pee Dee Electric Member Corp.....	—	—	14,728	224,864	—	—	—
Piedmont Electric Member Corp.....	—	—	5,097	74,690	—	—	—
Randolph Electric Member Corp.....	—	—	16,934	248,141	—	—	—
Roanoke Electric Member Corp.....	—	—	23,593	435,022	—	—	—
Rutherford Elec Member Corp.....	—	—	46,434	1,208,160	—	—	—
South River Elec Member Corp.....	—	—	28,719	420,835	—	—	—
Surry-Yadkin Elec Member Corp.....	—	—	—	—	—	—	—
Tideland Electric Member Corp.....	—	—	13,511	237,050	—	—	—
Tri-County Elec Member Corp.....	—	—	14,531	212,928	—	—	—
Union Electric Membership Corp.....	—	—	22,168	576,728	—	—	—
North Dakota							
Baker Electric Coop Inc.....	—	—	—	—	—	—	—
Burke-Divide Electric Coop Inc.....	—	—	—	—	—	—	—
Capital Electric Coop Inc.....	—	—	13,335	199,865	—	—	—
Cass County Electric Coop Inc.....	—	—	—	—	—	—	—
Cavalier Rural Elec Coop Inc.....	—	—	—	—	—	—	—
James Valley Electric Coop Inc.....	71	2,495	—	—	—	—	—
KEM Electric Coop Inc.....	—	—	35,736	530,551	—	—	—
McKenzie Electric Coop Inc.....	—	—	—	—	—	—	—
McLean Electric Coop Inc.....	—	—	—	—	—	—	—
Mor-Gran-Sou Electric Coop Inc.....	—	—	29,174	434,985	—	—	—
Mountrail-Williams Elec Coop.....	—	—	—	—	—	—	—
Nodak Electric Coop Inc.....	—	—	—	—	—	—	—
North Central Elec Coop Inc.....	—	—	—	—	—	—	—
Oliver-Mercer Elec Coop Inc.....	—	—	19,652	276,749	—	—	—
R S R Electric Coop Inc.....	—	—	—	—	—	—	—
Sheyenne Valley Elec Coop Inc.....	—	—	—	—	—	—	—
Slope Electric Coop Inc.....	—	—	—	—	—	—	—
Tri-County Electric Coop Inc.....	—	—	—	—	—	—	—
Verendrye Electric Coop Inc.....	—	—	—	—	—	—	—
West Plains Electric Coop Inc.....	—	—	—	—	—	—	—
Ohio							
Adams Rural Electric Coop Inc.....	—	—	—	—	—	—	—
Buckeye Rural Elec Coop Inc.....	—	—	—	—	—	—	—
Butler Rural Electric Coop Inc.....	—	—	—	—	—	—	—
Carroll Electric Coop Inc.....	—	—	—	—	—	—	—
Darke Rural Electric Coop Inc.....	—	—	—	—	—	—	—
Firelands Electric Coop Inc.....	—	—	—	—	—	—	—
Frontier Power Co.....	—	—	—	—	—	—	—
Guernsey-Muskingum El Coop Inc.....	—	—	—	—	—	—	—
Hancock-Wood Electric Coop Inc.....	—	—	—	—	—	—	—
Holmes-Wayne Electric Coop Inc.....	—	—	—	—	—	—	—
Logan Cnty Coop P&L Assn Inc.....	—	—	—	—	—	—	—
Lorain-Medina R E C Inc.....	—	—	—	—	—	—	—
Marion Rural Electric Coop Inc.....	—	—	—	—	—	—	—
Midwest Electric Inc.....	—	—	—	—	—	—	—
Morrow Electric Coop Inc.....	—	—	—	—	—	—	—
North Central Elec Coop Inc.....	—	—	—	—	—	—	—
North Western Elec Coop Inc.....	—	—	—	—	—	—	—
Pioneer Rural Elec Coop Inc.....	—	—	—	—	—	—	—
South Central Power Co.....	—	—	—	—	—	—	—
Union Rural Electric Coop Inc.....	—	—	—	—	—	—	—
United Rural Electric Coop Inc.....	—	—	—	—	—	—	—
Washington Electric Coop Inc.....	—	—	—	—	—	—	—

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
North Carolina							
Edgecombe-Martin County E M C	—	185,671	8,711,393	—	27,778	203,404	9,066,146
Four County Elec Member Corp.....	—	655,195	30,703,467	—	—	674,898	30,992,185
French Broad Elec Member Corp.....	—	—	—	—	—	420,517	17,619,611
Halifax Electric Member Corp.....	—	99,280	5,506,572	—	—	123,616	5,705,846
Harkers Island El Member Corp.....	—	15,972	888,915	—	—	16,015	891,078
Haywood Electric Member Corp.....	—	194,554	9,285,230	—	—	199,985	9,453,011
Lumbee River Elec Member Corp.....	—	675,795	40,856,921	—	—	693,297	41,113,384
Pee Dee Electric Member Corp.....	—	286,065	16,390,428	—	—	300,793	16,615,292
Piedmont Electric Member Corp.....	—	336,423	16,421,289	—	—	341,520	16,495,979
Randolph Electric Member Corp.....	—	405,781	23,243,024	—	—	422,715	23,491,165
Roanoke Electric Member Corp.....	—	191,116	9,925,470	—	—	214,709	10,360,492
Rutherford Elec Member Corp.....	—	882,754	41,348,743	—	—	929,188	42,556,903
South River Elec Member Corp.....	—	523,336	32,868,860	—	—	552,055	33,289,695
Surry-Yadkin Elec Member Corp.....	—	287,171	14,767,846	—	—	287,171	14,767,846
Tideland Electric Member Corp.....	—	246,298	13,564,465	—	—	259,809	13,801,515
Tri-County Elec Member Corp.....	—	387,606	23,283,949	—	—	402,137	23,496,877
Union Electric Membership Corp.....	—	587,491	31,942,270	—	—	609,659	32,518,998
North Dakota							
Baker Electric Coop Inc.....	—	172,266	5,998,653	—	—	172,266	5,998,653
Burke-Divide Electric Coop Inc.....	—	62,307	1,963,761	—	—	62,307	1,963,761
Capital Electric Coop Inc.....	—	128,010	4,880,546	—	1	141,345	5,080,412
Cass County Electric Coop Inc.....	—	550,901	14,213,178	—	—	550,901	14,213,178
Cavalier Rural Elec Coop Inc.....	—	41,070	1,433,847	—	—	41,070	1,433,847
James Valley Electric Coop Inc.....	—	78,429	3,117,917	—	—	78,500	3,120,412
KEM Electric Coop Inc.....	—	27,289	1,079,431	—	10,406	63,025	1,620,388
McKenzie Electric Coop Inc.....	—	265,797	9,348,027	—	—	265,797	9,348,027
McLean Electric Coop Inc.....	—	55,340	2,061,367	81	1,470	55,421	2,062,837
Mor-Gran-Sou Electric Coop Inc.....	—	86,181	3,462,653	19	1,903	115,374	3,899,541
Mountrail-Williams Elec Coop.....	—	163,043	5,029,473	—	—	163,043	5,029,473
Nodak Electric Coop Inc.....	—	560,989	17,400,259	—	—	560,989	17,400,259
North Central Elec Coop Inc.....	—	175,238	6,335,766	—	—	175,238	6,335,766
Oliver-Mercer Elec Coop Inc.....	—	175,511	7,143,246	—	—	195,163	7,419,995
R S R Electric Coop Inc.....	—	165,247	5,809,847	—	—	165,247	5,809,847
Sheyenne Valley Elec Coop Inc.....	—	79,643	2,529,285	—	—	79,643	2,529,285
Slope Electric Coop Inc.....	—	63,894	2,202,310	—	—	63,894	2,202,310
Tri-County Electric Coop Inc.....	—	139,149	4,985,646	—	—	139,149	4,985,646
Verendrye Electric Coop Inc.....	—	317,565	10,636,456	—	—	317,565	10,636,456
West Plains Electric Coop Inc.....	—	222,874	8,528,209	—	—	222,874	8,528,209
Ohio							
Adams Rural Electric Coop Inc.....	—	77,920	2,814,863	—	—	77,920	2,814,863
Buckeye Rural Elec Coop Inc.....	—	216,498	8,202,043	—	—	216,498	8,202,043
Butler Rural Electric Coop Inc.....	—	181,273	6,966,679	—	—	181,273	6,966,679
Carroll Electric Coop Inc.....	—	138,265	4,834,585	—	—	138,265	4,834,585
Darke Rural Electric Coop Inc.....	—	102,765	3,771,332	—	—	102,765	3,771,332
Firelands Electric Coop Inc.....	—	117,400	3,845,492	—	—	117,400	3,845,492
Frontier Power Co.....	—	106,941	3,716,107	—	—	106,941	3,716,107
Guernsey-Muskingum El Coop Inc.....	—	160,783	5,696,686	—	—	160,783	5,696,686
Hancock-Wood Electric Coop Inc.....	—	297,378	9,422,811	—	—	297,378	9,422,811
Holmes-Wayne Electric Coop Inc.....	—	254,050	8,563,677	—	—	254,050	8,563,677
Logan Cnty Coop P&L Assn Inc.....	—	91,538	3,182,835	—	—	91,538	3,182,835
Lorain-Medina R E C Inc.....	—	203,231	6,856,100	—	—	203,231	6,856,100
Marion Rural Electric Coop Inc.....	—	59,125	2,128,106	—	—	59,125	2,128,106
Midwest Electric Inc.....	—	184,601	6,366,112	—	—	184,601	6,366,112
Morrow Electric Coop Inc.....	—	221,361	7,767,336	—	—	221,361	7,767,336
North Central Elec Coop Inc.....	—	264,419	8,213,814	—	—	264,419	8,213,814
North Western Elec Coop Inc.....	—	87,274	2,986,138	—	6,300	87,274	2,992,438
Pioneer Rural Elec Coop Inc.....	—	462,595	14,751,915	—	—	462,595	14,751,915
South Central Power Co.....	—	1,570,715	555,580,862	—	—	1,570,715	555,580,862
Union Rural Electric Coop Inc.....	—	423,031	13,295,191	—	—	423,031	13,295,191
United Rural Electric Coop Inc.....	—	58,603	2,026,780	—	—	58,603	2,026,780
Washington Electric Coop Inc.....	—	85,221	2,953,814	—	—	85,221	2,953,814

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Investor-Owned		Federal		State and Other Government		Municipal
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
Oklahoma							
Alfalfa Electric Coop Inc	—	—	—	—	—	—	—
Caddo Electric Coop Inc	—	—	—	—	—	—	—
Canadian Valley Elec Coop Inc	—	—	—	—	—	—	—
Central Rural Electric Coop	—	—	—	—	—	—	—
Choctaw Electric Coop Inc	—	—	—	—	—	—	—
Cimarron Electric Coop	—	—	—	—	—	—	—
Cookson Hills Elec Coop Inc	—	—	—	—	—	—	—
Cotton Electric Coop Inc	—	—	—	—	—	—	—
East Central Okla El Coop Inc	—	—	—	—	—	—	—
Harmon Electric Assn Inc	—	—	—	—	—	—	—
Indian Electric Coop Inc	—	—	—	—	—	—	—
Kay Electric Coop	—	—	—	—	—	—	—
Kiwash Electric Coop Inc	—	—	—	—	—	—	—
Lake Region Electric Coop Inc	—	88	—	—	—	—	—
Northeast Oklahoma El Coop Inc	65,392	2,299,602	—	—	359,197	13,939,553	—
Northfork Electric Coop Inc	—	—	—	—	—	—	—
Northwestern Electric Coop Inc	—	—	—	—	—	—	—
Red River Valley Rrl Elec Assn	—	—	—	—	—	—	—
Rural Electric Coop Inc	—	—	—	—	—	—	—
Southeastern Electric Coop Inc	—	—	—	—	—	—	—
Southwest Rural Elec Assn Inc	—	—	—	—	—	—	—
Tri-County Electric Coop Inc	—	—	—	—	—	—	—
Verdigris Valley Elec Coop Inc	—	—	—	—	—	—	—
Oregon							
Blachly-Lane Cnty Coop El Assn	—	—	125,794	3,572,754	—	—	57
Columbia Basin Elec Coop Inc	—	—	105,858	2,668,051	—	—	—
Columbia Power Coop Assn Inc	—	—	—	—	28,262	727,649	—
Consumers Power Inc	24	1,426	299,136	9,043,378	—	—	—
Coos-Curry Electric Coop Inc	—	—	257,904	6,550,604	—	—	—
Douglas Electric Coop Inc	—	—	145,064	3,659,671	—	—	—
Harney Electric Coop Inc	—	—	209,437	4,614,171	—	—	—
Lane Electric Coop Inc	—	—	188,052	5,321,876	—	—	—
Midstate Electric Coop Inc	—	—	295,805	7,926,024	—	—	—
Umatilla Electric Coop Assn	—	—	583,917	15,273,516	—	—	—
Wasco Electric Coop Inc	—	—	86,481	2,340,518	—	—	—
West Oregon Electric Coop Inc	—	—	71,566	1,952,490	—	—	—
Pennsylvania							
Adams Electric Coop Inc	—	—	—	—	—	—	—
Bedford Rural Elec Coop Inc	—	—	—	—	—	—	—
Central Electric Coop Inc	—	—	—	—	—	—	—
Claverack Rural Elec Coop Inc	—	—	—	—	—	—	—
Northwestern Rural E C A Inc	—	—	—	—	—	—	—
Somerset Rural Elec Coop Inc	—	—	—	—	—	—	—
Southwest Central R E C Corp	—	—	—	—	—	—	—
Sullivan County R E C Inc	—	—	—	—	—	—	—
Tri-County Rural Elec Coop Inc	—	—	—	—	—	—	—
United Electric Coop Inc	—	—	—	—	—	—	—
Valley Rural Electric Coop Inc	—	—	—	—	—	—	—
Warren Electric Coop Inc	—	—	—	—	—	—	—
South Carolina							
Aiken Electric Coop Inc	—	—	—	—	—	—	—
Berkeley Electric Coop Inc	—	—	—	—	—	—	—
Black River Electric Coop Inc	—	—	—	—	—	—	—
Blue Ridge Electric Coop Inc	—	—	36,442	948,138	—	—	—
Broad River Electric Coop Inc	—	—	10,477	272,576	—	—	—
Coastal Electric Coop Inc	—	—	—	—	—	—	—
Edisto Electric Coop Inc	—	—	—	—	—	—	—
Fairfield Electric Coop Inc	—	—	—	—	—	—	—
Horry Electric Coop Inc	—	—	—	—	—	—	—
Laurens Electric Coop Inc	—	—	27,242	708,768	—	—	—
Little River Electric Coop Inc	—	—	10,501	280,129	—	—	—

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Oklahoma							
Alfalfa Electric Coop Inc	—	154,780	6,117,548	—	—	154,780	6,117,548
Caddo Electric Coop Inc	—	258,522	10,685,073	—	—	258,522	10,685,073
Canadian Valley Elec Coop Inc	—	337,575	13,454,319	—	—	337,575	13,454,319
Central Rural Electric Coop	—	282,694	10,930,673	—	—	282,694	10,930,673
Choctaw Electric Coop Inc.....	—	264,189	9,730,383	—	—	264,189	9,730,383
Cimarron Electric Coop	—	190,135	7,646,880	—	—	190,135	7,646,880
Cookson Hills Elec Coop Inc.....	—	224,009	9,031,501	—	—	224,009	9,031,501
Cotton Electric Coop Inc.....	—	446,773	16,955,924	—	—	446,773	16,955,924
East Central Okla El Coop Inc.....	—	402,482	16,205,502	—	—	402,482	16,205,502
Harmon Electric Assn Inc	—	54,205	1,934,167	—	—	54,205	1,934,167
Indian Electric Coop Inc.....	—	304,982	12,257,667	—	—	304,982	12,257,667
Kay Electric Coop.....	—	110,153	4,414,435	—	—	110,153	4,414,435
Kiwash Electric Coop Inc.....	—	78,767	3,213,677	—	—	78,767	3,213,677
Lake Region Electric Coop Inc.....	—	265,384	11,181,193	—	—	265,384	11,181,193
Northeast Oklahoma El Coop Inc.....	—	15,525	592,721	—	—	440,114	16,831,876
Northfork Electric Coop Inc.....	—	80,179	3,178,352	—	—	80,179	3,178,352
Northwestern Electric Coop Inc.....	—	183,601	7,227,975	—	—	183,601	7,227,975
Red River Valley Rrl Elec Assn.....	—	214,545	8,056,939	—	—	214,545	8,056,939
Rural Electric Coop Inc.....	—	222,093	8,419,675	—	—	222,093	8,419,675
Southeastern Electric Coop Inc.....	—	151,501	6,068,730	—	—	151,501	6,068,730
Southwest Rural Elec Assn Inc.....	—	101,547	4,111,866	—	—	101,547	4,111,866
Tri-County Electric Coop Inc.....	—	285,987	10,679,572	—	—	285,987	10,679,572
Verdigris Valley Elec Coop Inc.....	—	393,014	16,314,721	—	—	393,014	16,314,721
Oregon							
Blachly-Lane Cnty Coop El Assn.....	687	21,322	557,956	—	28,999	147,173	4,160,396
Columbia Basin Elec Coop Inc.....	—	—	—	—	—	105,858	2,668,051
Columbia Power Coop Assn Inc.....	—	—	—	—	—	28,262	727,649
Consumers Power Inc.....	—	72,099	1,078,001	—	—	371,259	10,122,805
Coos-Curry Electric Coop Inc.....	—	55,139	1,244,128	11,453	33,389	324,496	7,828,121
Douglas Electric Coop Inc	—	—	—	—	—	145,064	3,659,671
Harney Electric Coop Inc	—	—	—	—	—	209,437	4,614,171
Lane Electric Coop Inc.....	—	32,330	691,565	9,289	25,844	229,671	6,039,285
Midstate Electric Coop Inc.....	—	—	—	—	—	295,805	7,926,024
Umatilla Electric Coop Assn.....	—	102,396	375,347	—	—	686,313	15,648,863
Wasco Electric Coop Inc.....	—	—	—	—	—	86,481	2,340,518
West Oregon Electric Coop Inc.....	—	—	—	—	—	71,566	1,952,490
Pennsylvania							
Adams Electric Coop Inc	—	367,719	21,549,987	—	—	367,719	21,549,987
Bedford Rural Elec Coop Inc.....	—	120,178	6,878,269	—	—	120,178	6,878,269
Central Electric Coop Inc.....	—	215,914	12,496,048	—	-46,557	215,914	12,449,491
Claverack Rural Elec Coop Inc.....	—	—	—	171,055	9,689,328	171,055	9,689,328
Northwestern Rural E C A Inc.....	—	213,990	11,866,820	—	—	213,990	11,866,820
Somerset Rural Elec Coop Inc.....	—	174,889	9,862,190	—	—	174,889	9,862,190
Southwest Central R E C Corp.....	—	282,590	16,938,020	—	—	282,590	16,938,020
Sullivan County R E C Inc.....	—	46,937	2,772,093	—	17,676	46,937	2,789,769
Tri-County Rural Elec Coop Inc.....	—	142,011	8,049,041	—	—	142,011	8,049,041
United Electric Coop Inc.....	—	138,206	7,763,055	—	—	138,206	7,763,055
Valley Rural Electric Coop Inc.....	—	215,454	12,459,957	—	—	215,454	12,459,957
Warren Electric Coop Inc.....	—	50,364	2,789,662	—	—	50,364	2,789,662
South Carolina							
Aiken Electric Coop Inc	—	710,397	28,425,954	—	—	710,397	28,425,954
Berkeley Electric Coop Inc	—	1,108,278	46,373,393	—	—	1,108,278	46,373,393
Black River Electric Coop Inc.....	—	504,360	20,965,535	—	—	504,360	20,965,535
Blue Ridge Electric Coop Inc.....	—	685,279	38,322,702	—	—	721,721	39,270,840
Broad River Electric Coop Inc.....	—	230,982	13,174,110	—	—	241,459	13,446,686
Coastal Electric Coop Inc.....	—	138,479	5,857,097	—	—	138,479	5,857,097
Edisto Electric Coop Inc.....	—	259,783	10,953,636	—	—	259,783	10,953,636
Fairfield Electric Coop Inc.....	—	538,046	20,647,758	—	—	538,046	20,647,758
Horry Electric Coop Inc.....	—	595,186	26,382,322	—	—	595,186	26,382,322
Laurens Electric Coop Inc.....	—	580,949	32,916,784	—	—	608,191	33,625,552
Little River Electric Coop Inc.....	—	143,789	8,105,194	—	—	154,290	8,385,323

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Investor-Owned		Federal		State and Other Government		Municipal
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
South Carolina							
Lynches River Elec Coop Inc	—	—	—	—	—	—	—
Marlboro Electric Coop Inc.....	—	—	—	—	—	—	—
Mid-Carolina Electric Coop Inc.....	—	—	—	—	—	—	—
Newberry Electric Coop Inc.....	—	—	—	—	—	—	—
Palmetto Electric Coop Inc.....	—	—	—	—	—	—	—
Pee Dee Electric Coop Inc	—	—	—	—	—	—	—
Santee Electric Coop Inc.....	—	—	—	—	—	—	—
Tri-County Electric Coop Inc.....	—	—	—	—	—	—	—
York Electric Coop Inc.....	—	—	16,831	437,896	—	—	—
South Dakota							
Black Hills Electric Coop Inc	—	—	—	—	—	—	—
Bon Homme Yankton El Assn Inc	—	—	—	—	—	—	—
Butte Electric Coop Inc.....	—	—	—	—	—	—	—
Cam Wal Electric Coop Inc	—	—	—	—	—	—	—
Charles Mix Electric Assn Inc	—	—	—	—	—	—	—
Cherry-Todd Electric Coop Inc.....	—	—	—	—	—	—	—
Clay-Union Electric Corp.....	—	—	—	—	—	—	—
Codington-Clark Elec Coop Inc.....	—	—	—	—	—	—	—
Dakota Energy Coop Inc	—	—	—	—	—	—	—
Douglas Electric Coop Inc	—	—	—	—	—	—	—
FEM Electric Assn Inc.....	—	—	—	—	—	—	—
Grand Electric Coop Inc.....	—	—	38,510	559,083	—	—	—
H-D Electric Coop Inc.....	—	—	—	—	—	—	—
Intercounty Electric Assn Inc.....	—	—	—	—	—	—	—
Kingsbury Electric Coop Inc.....	—	—	—	—	—	—	—
Lake Region Electric Assn Inc.....	—	—	—	—	—	—	—
LaCreek Electric Assn Inc.....	—	—	—	—	—	—	—
Lincoln-Union Electric Co	—	—	—	—	—	—	—
McCook Electric Coop Inc.....	—	—	—	—	—	—	—
Moreau-Grand Electric Coop Inc.....	—	—	—	—	—	—	—
Northern Electric Coop Inc.....	—	—	7,697	110,335	—	—	—
Oahe Electric Coop Inc	—	—	—	—	—	—	—
Rosebud Electric Coop Inc.....	—	—	66,053	1,003,516	—	—	—
Sioux Valley Empire E A Inc	—	—	—	—	—	—	—
Spink Electric Coop Inc	—	—	—	—	—	—	—
Tri-County Electric Assn Inc	—	—	—	—	—	—	—
Turner-Hutchinson El Coop Inc.....	—	—	—	—	—	—	—
Union County Electric Coop Inc.....	—	—	—	—	—	—	—
West Central Electric Coop Inc	—	—	—	—	—	—	—
West River Electric Assn Inc.....	—	—	—	—	—	—	—
Whetstone Valley Elec Coop Inc.....	—	—	—	—	—	—	—
Tennessee							
Appalachian Electric Coop.....	—	—	832,284	35,618,114	—	—	—
Caney Fork Electric Coop Inc.....	—	—	561,947	24,698,741	—	—	—
Chickasaw Electric Coop Inc.....	—	—	328,787	15,677,871	—	—	—
Cumberland Elec Member Corp.....	—	—	1,700,365	72,366,439	—	—	—
Duck River Elec Member Corp.....	—	—	1,249,835	54,780,723	—	—	—
Forked Deer Electric Coop Inc	—	—	205,748	8,874,297	—	—	—
Fort Loudoun Electric Coop.....	—	—	438,081	19,720,517	—	—	—
Gibson Electric Members Corp.....	—	—	760,525	33,984,250	—	—	—
Holston Electric Coop Inc	—	—	698,733	28,075,653	—	—	—
Meriwether Lewis Electric Coop	—	—	727,980	31,696,961	—	—	—
Middle Tennessee E M C.....	—	—	3,177,115	132,984,686	—	—	—
Mountain Electric Coop Inc.....	—	—	553,140	22,446,891	—	—	—
Pickwick Electric Coop	—	—	398,373	17,831,998	—	—	—
Plateau Electric Coop	—	—	271,169	12,423,331	—	—	—
Powell Valley Electric Coop.....	—	—	471,346	20,181,296	—	—	—
Sequachee Valley Electric Coop.....	—	—	721,444	31,068,936	—	—	—
Southwest Tennessee E M C.....	—	—	890,741	39,328,774	—	—	—
Tennessee Valley Electric Coop.....	—	—	351,422	15,845,915	—	—	—
Tri-County Elec Member Corp.....	—	—	1,064,256	46,050,277	—	—	—
Upper Cumberland E M C.....	—	—	865,986	38,038,819	—	—	—
Volunteer Electric Coop	—	—	1,750,557	75,797,239	—	—	—

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
South Carolina							
Lynches River Elec Coop Inc	—	266,372	10,787,399	—	—	266,372	10,787,399
Marlboro Electric Coop Inc.....	—	646,625	19,423,285	—	—	646,625	19,423,285
Mid-Carolina Electric Coop Inc.....	—	705,880	29,390,248	—	—	705,880	29,390,248
Newberry Electric Coop Inc.....	—	202,028	7,856,541	—	—	202,028	7,856,541
Palmetto Electric Coop Inc.....	—	973,720	41,922,874	—	—	973,720	41,922,874
Pee Dee Electric Coop Inc	—	734,493	28,007,492	—	—	734,493	28,007,492
Santee Electric Coop Inc.....	—	914,962	36,205,866	—	—	914,962	36,205,866
Tri-County Electric Coop Inc.....	—	251,370	10,464,672	—	—	251,370	10,464,672
York Electric Coop Inc.....	—	440,063	24,552,916	—	-39,943	456,894	24,950,869
South Dakota							
Black Hills Electric Coop Inc	—	96,525	3,005,178	—	—	96,525	3,005,178
Bon Homme Yankton El Assn Inc	—	74,514	2,662,755	—	—	74,514	2,662,755
Butte Electric Coop Inc.....	—	68,539	2,244,496	—	—	68,539	2,244,496
Cam Wal Electric Coop Inc	—	44,679	1,710,395	—	1,623	44,679	1,712,018
Charles Mix Electric Assn Inc	—	43,664	1,536,876	—	—	43,664	1,536,876
Cherry-Todd Electric Coop Inc.....	—	90,807	3,176,222	45	1,554	90,852	3,177,776
Clay-Union Electric Corp.....	—	57,666	2,022,561	—	—	57,666	2,022,561
Codington-Clark Elec Coop Inc.....	—	76,577	2,663,115	—	—	76,577	2,663,115
Dakota Energy Coop Inc	—	74,245	2,691,072	—	—	74,245	2,691,072
Douglas Electric Coop Inc	—	20,985	762,947	—	—	20,985	762,947
FEM Electric Assn Inc.....	—	48,865	1,722,935	—	—	48,865	1,722,935
Grand Electric Coop Inc.....	—	125,942	3,337,753	—	—	164,452	3,896,836
H-D Electric Coop Inc.....	—	63,796	2,284,659	—	—	63,796	2,284,659
Intercounty Electric Assn Inc.....	—	69,141	2,548,114	—	—	69,141	2,548,114
Kingsbury Electric Coop Inc.....	—	21,752	803,679	—	—	21,752	803,679
Lake Region Electric Assn Inc.....	—	67,373	2,296,280	—	—	67,373	2,296,280
LaCreek Electric Assn Inc.....	—	84,469	2,955,078	—	—	84,469	2,955,078
Lincoln-Union Electric Co	—	88,336	3,030,021	1	51	88,337	3,030,072
McCook Electric Coop Inc.....	—	32,116	1,187,297	—	—	32,116	1,187,297
Moreau-Grand Electric Coop Inc.....	—	82,296	2,847,778	—	—	82,296	2,847,778
Northern Electric Coop Inc	—	113,900	3,880,435	210	2,598	121,807	3,993,368
Oahe Electric Coop Inc.....	—	54,795	1,872,149	—	—	54,795	1,872,149
Rosebud Electric Coop Inc.....	—	27,414	1,085,506	—	—	93,467	2,089,022
Sioux Valley Empire E A Inc.....	—	365,733	12,936,016	37	1,913	365,770	12,937,929
Spink Electric Coop Inc.....	—	30,547	1,082,713	—	—	30,547	1,082,713
Tri-County Electric Assn Inc	—	72,704	2,559,437	—	-37,150	72,704	2,522,287
Turner-Hutchinson El Coop Inc.....	—	92,037	3,348,948	—	—	92,037	3,348,948
Union County Electric Coop Inc.....	—	19,529	708,454	—	-34,048	19,529	674,406
West Central Electric Coop Inc	—	115,132	4,026,039	—	—	115,132	4,026,039
West River Electric Assn Inc.....	—	161,026	5,350,301	—	—	161,026	5,350,301
Whetstone Valley Elec Coop Inc.....	—	65,505	2,379,294	—	—	65,505	2,379,294
Tennessee							
Appalachian Electric Coop	—	—	—	—	—	832,284	35,618,114
Caney Fork Electric Coop Inc.....	—	—	—	—	—	561,947	24,698,741
Chickasaw Electric Coop Inc.....	—	—	—	—	—	328,787	15,677,871
Cumberland Elec Member Corp.....	—	—	—	—	—	1,700,365	72,366,439
Duck River Elec Member Corp.....	—	—	—	271	4,548	1,250,106	54,785,271
Forked Deer Electric Coop Inc	—	—	—	—	—	205,748	8,874,297
Fort Loudoun Electric Coop.....	—	—	—	—	—	438,081	19,720,517
Gibson Electric Members Corp.....	—	—	—	—	—	760,525	33,984,250
Holston Electric Coop Inc.....	—	—	—	—	—	698,733	28,075,653
Meriwether Lewis Electric Coop	—	—	—	—	—	727,980	31,696,961
Middle Tennessee E M C.....	—	—	—	—	—	3,177,115	132,984,686
Mountain Electric Coop Inc.....	—	—	—	—	—	553,140	22,446,891
Pickwick Electric Coop.....	—	—	—	—	—	398,373	17,831,998
Plateau Electric Coop.....	—	—	—	82	1,459	271,251	12,424,790
Powell Valley Electric Coop.....	—	—	—	—	—	471,346	20,181,296
Sequachee Valley Electric Coop.....	—	—	—	—	—	721,444	31,068,936
Southwest Tennessee E M C.....	—	—	—	—	—	890,741	39,328,774
Tennessee Valley Electric Coop.....	—	—	—	—	—	351,422	15,845,915
Tri-County Elec Member Corp.....	—	—	—	—	—	1,064,256	46,050,277
Upper Cumberland E M C.....	—	—	—	—	—	865,986	38,038,819
Volunteer Electric Coop.....	—	—	—	—	—	1,750,557	75,797,239

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Investor-Owned		Federal		State and Other Government		Municipal
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
Texas							
B-K Electric Coop Inc.....	—	—	—	—	—	—	—
Bailey County Elec Coop Assn.....	—	—	—	—	—	—	—
Bartlett Electric Coop Inc.....	—	—	—	—	—	—	—
Belfalls Electric Coop Inc.....	—	—	—	—	—	—	—
Bowie-Cass Electric Coop Inc.....	—	—	—	—	—	—	—
Central Texas Elec Coop Inc.....	—	—	—	—	318,696	13,943,268	—
Cherokee County Elec Coop Assn.....	—	—	—	—	—	—	—
Coleman County Elec Coop Inc.....	111,019	4,209,326	—	—	—	—	—
Comanche County Elec Coop Assn.....	—	—	—	—	—	—	—
Deep East Texas Elec Coop Inc.....	—	—	—	—	—	—	—
Dewitt Electric Coop Inc.....	—	—	—	—	76,738	3,154,628	—
Erath County Elec Coop Assn.....	—	—	—	—	—	—	—
Fannin County Electric Coop.....	—	—	—	—	—	—	—
Gate City Electric Coop Inc.....	—	—	—	—	—	—	—
Grayson-Collin Elec Coop Inc.....	—	—	—	—	—	—	—
Greenbelt Electric Coop Inc.....	—	—	—	—	—	—	—
Hamilton County Elec Coop Assn.....	—	—	—	—	—	—	—
Houston County Elec Coop Inc.....	—	—	—	—	—	—	—
J-A-C Electric Coop Inc.....	—	—	—	—	—	—	—
Jackson Electric Coop Inc.....	—	—	—	—	—	—	—
Jasper-Newton Elec Coop Inc.....	—	—	—	—	—	—	—
Johnson County Elec Coop Assn.....	—	—	—	—	—	—	—
Karnes Electric Coop Inc.....	—	—	—	—	—	—	—
Kimble Electric Coop Inc.....	16,137	696,499	—	—	36,419	1,451,296	—
Lamar County Elec Coop Assn.....	—	—	—	—	—	—	—
Lamb County Electric Coop Inc.....	—	—	—	—	—	—	—
Lighthouse Electric Coop Inc.....	13,978	581,045	—	—	—	—	—
Lyntegar Electric Coop Inc.....	513,786	20,350,499	—	—	—	—	—
Magic Valley Electric Coop Inc.....	714,352	32,224,595	—	—	—	—	—
McCulloch Electric Coop Inc.....	—	—	—	—	72,449	2,881,301	—
McLennan County Elec Coop Inc.....	—	—	—	—	—	—	—
Medina Electric Coop Inc.....	78,873	3,442,190	—	—	—	—	—
Midwest Electric Coop Inc.....	77,271	3,324,577	—	—	—	—	—
Navarro County Elec Coop Inc.....	—	—	—	—	—	—	—
New Era Electric Coop Inc.....	—	—	—	—	—	—	—
North Plains Electric Coop Inc.....	—	—	—	—	—	—	—
Nueces Electric Coop Inc.....	—	—	—	—	—	—	—
Panola-Harrison Elec Coop Inc.....	—	—	—	—	—	—	—
Rio Grande Electric Coop Inc.....	118,053	5,205,499	—	—	—	—	—
Rita Blanca Electric Coop Inc.....	—	—	—	—	—	—	—
Rusk County Electric Coop Inc.....	—	—	—	—	—	—	—
San Patricio Electric Coop Inc.....	—	—	—	—	—	—	—
South Plains Electric Coop Inc.....	—	—	—	—	—	—	—
Southwest Texas Elec Coop Inc.....	169,083	6,187,255	—	—	—	—	—
Swisher Electric Coop Inc.....	—	—	—	—	—	—	—
Taylor Electric Coop Inc.....	201,217	8,744,958	—	—	—	—	—
Upshur Rural Elec Coop Corp.....	—	—	—	—	—	—	—
Victoria Electric Coop Inc.....	—	—	—	—	—	—	—
Wood County Electric Coop Inc.....	—	—	—	—	—	—	—
Utah							
Garkane Power Assn Inc.....	—	—	69,387	1,367,036	—	—	—
Vermont							
Washington Electric Coop Inc.....	11,150	1,587,709	—	—	9,249	142,868	9,510
Virginia							
A & N Electric Coop.....	—	—	—	—	—	—	—
BARC Electric Coop Inc.....	—	—	15,429	269,362	—	—	—
Central Virginia Electric Coop.....	266,854	12,926,090	33,955	626,091	—	—	—
Community Electric Coop.....	—	—	18,053	303,859	—	—	—
Craig-Botetourt Electric Coop.....	18,408	861,976	7,221	124,881	—	—	—
Mecklenburg Electric Coop Inc.....	—	—	48,414	892,708	—	—	—
Northern Neck Elec Coop Inc.....	—	—	16,832	310,370	—	—	—

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Texas							
B-K Electric Coop Inc.....	—	94,733	3,610,569	—	—	94,733	3,610,569
Bailey County Elec Coop Assn.....	—	211,449	8,757,190	—	—	211,449	8,757,190
Bartlett Electric Coop Inc.....	—	107,624	4,589,729	—	—	107,624	4,589,729
Belfalls Electric Coop Inc.....	—	67,596	2,786,627	—	—	67,596	2,786,627
Bowie-Cass Electric Coop Inc.....	—	537,741	16,142,947	—	—	537,741	16,142,947
Central Texas Elec Coop Inc.....	—	—	—	—	—	318,696	13,943,268
Cherokee County Elec Coop Assn.....	—	231,968	10,927,002	—	—	231,968	10,927,002
Coleman County Elec Coop Inc.....	—	—	—	—	—	111,019	4,209,326
Comanche County Elec Coop Assn.....	—	169,215	6,784,244	—	—	169,215	6,784,244
Deep East Texas Elec Coop Inc.....	—	651,972	26,936,154	—	—	651,972	26,936,154
Dewitt Electric Coop Inc.....	—	—	—	—	—	76,738	3,154,628
Erath County Elec Coop Assn.....	—	293,737	12,099,770	—	—	293,737	12,099,770
Fannin County Electric Coop.....	—	83,350	4,456,242	—	58,000	83,350	4,514,242
Gate City Electric Coop Inc.....	—	36,986	1,382,607	—	—	36,986	1,382,607
Grayson-Collin Elec Coop Inc.....	—	310,132	16,378,670	—	—	310,132	16,378,670
Greenbelt Electric Coop Inc.....	—	41,062	1,651,131	—	—	41,062	1,651,131
Hamilton County Elec Coop Assn.....	—	145,579	6,105,056	—	—	145,579	6,105,056
Houston County Elec Coop Inc.....	—	229,148	10,359,520	—	—	229,148	10,359,520
J-A-C Electric Coop Inc.....	—	93,227	3,639,828	—	—	93,227	3,639,828
Jackson Electric Coop Inc.....	—	159,617	8,324,889	—	—	159,617	8,324,889
Jasper-Newton Elec Coop Inc.....	—	354,119	14,133,322	—	—	354,119	14,133,322
Johnson County Elec Coop Assn.....	—	737,531	30,734,230	—	—	737,531	30,734,230
Karnes Electric Coop Inc.....	—	187,612	9,445,102	—	—	187,612	9,445,102
Kimble Electric Coop Inc.....	—	—	—	—	—	52,556	2,147,795
Lamar County Elec Coop Assn.....	—	120,083	6,388,909	—	—	120,083	6,388,909
Lamb County Electric Coop Inc.....	—	269,201	11,349,836	—	—	269,201	11,349,836
Lighthouse Electric Coop Inc.....	—	225,630	9,567,534	—	—	239,608	10,148,579
Lyntegar Electric Coop Inc.....	—	—	—	—	—	513,786	20,350,499
Magic Valley Electric Coop Inc.....	—	—	—	—	—	714,352	32,224,595
McCulloch Electric Coop Inc.....	—	—	—	—	—	72,449	2,881,301
McLennan County Elec Coop Inc.....	—	192,208	8,100,428	—	—	192,208	8,100,428
Medina Electric Coop Inc.....	—	342,277	10,834,790	—	—	421,150	14,276,980
Midwest Electric Coop Inc.....	—	69,429	2,610,405	—	—	146,700	5,934,982
Navarro County Elec Coop Inc.....	—	245,077	9,900,677	—	—	245,077	9,900,677
New Era Electric Coop Inc.....	—	311,461	15,978,223	—	—	311,461	15,978,223
North Plains Electric Coop Inc.....	—	133,100	5,051,417	6	139	133,106	5,051,556
Nueces Electric Coop Inc.....	—	181,878	9,011,778	—	—	181,878	9,011,778
Panola-Harrison Elec Coop Inc.....	—	265,175	8,004,472	—	—	265,175	8,004,472
Rio Grande Electric Coop Inc.....	—	25,717	1,129,415	—	—	143,770	6,334,914
Rita Blanca Electric Coop Inc.....	—	148,107	5,742,865	—	—	148,107	5,742,865
Rusk County Electric Coop Inc.....	—	331,890	10,032,093	—	—	331,890	10,032,093
San Patricio Electric Coop Inc.....	—	149,622	7,426,327	—	—	149,622	7,426,327
South Plains Electric Coop Inc.....	—	519,214	21,612,736	—	—	519,214	21,612,736
Southwest Texas Elec Coop Inc.....	—	—	—	—	—	169,083	6,187,255
Swisher Electric Coop Inc.....	—	202,644	8,388,865	—	—	202,644	8,388,865
Taylor Electric Coop Inc.....	—	—	—	—	—	201,217	8,744,958
Upshur Rural Elec Coop Corp.....	—	636,132	18,609,817	—	—	636,132	18,609,817
Victoria Electric Coop Inc.....	—	263,737	13,880,015	—	—	263,737	13,880,015
Wood County Electric Coop Inc.....	—	453,058	15,260,167	—	—	453,058	15,260,167
Utah							
Garkane Power Assn Inc.....	—	18,853	585,307	2,351	309,760	90,591	2,262,103
Vermont							
Washington Electric Coop Inc.....	677,169	—	—	35,060	1,302,334	64,969	3,710,080
Virginia							
A & N Electric Coop.....	—	181,810	7,969,921	—	—	181,810	7,969,921
BARC Electric Coop Inc.....	—	141,327	6,717,130	—	-354,991	156,756	6,631,501
Central Virginia Electric Coop.....	—	—	—	171,774	4,344,064	472,583	17,896,245
Community Electric Coop.....	—	132,542	7,054,758	—	—	150,595	7,358,617
Craig-Botetourt Electric Coop.....	—	—	—	45,522	1,623,375	71,151	2,610,232
Mecklenburg Electric Coop Inc.....	—	419,736	19,922,639	—	—	468,150	20,815,347
Northern Neck Elec Coop Inc.....	—	177,209	9,359,683	—	—	194,041	9,670,053

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Investor-Owned		Federal		State and Other Government		Municipal
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)
Virginia							
Northern Virginia Elec Coop	—	—	13,947	246,073	—	—	—
Prince George Electric Coop	—	—	10,798	195,515	—	—	—
Rappahannock Electric Coop	—	—	95,715	2,138,180	—	—	—
Shenandoah Valley Elec Coop	—	—	42,414	782,063	—	—	—
Southside Electric Coop Inc	—	—	62,204	1,146,969	—	—	—
Washington							
Benton Rural Electric Assn	—	—	416,281	10,471,447	—	—	—
Columbia Rural Elec Assn Inc	948	33,723	219,150	5,054,486	—	—	—
Nespelem Valley Elec Coop Inc	—	—	42,680	1,158,643	—	—	—
Okanogan County Elec Coop Inc	—	—	42,416	1,156,712	—	—	—
Orcas Power & Light Co	—	—	167,085	4,675,222	—	—	—
Tanner Electric Coop	—	—	51,260	1,405,663	—	—	—
West Virginia							
Harrison Rural Elec Assn Inc	—	—	—	—	—	—	—
Wisconsin							
Adams-Columbia Electric Coop	352,701	11,180,703	—	—	—	—	—
Bayfield Electric Coop Inc	—	—	—	—	—	—	—
Central Wisconsin Elec Coop	81,943	2,572,111	—	—	—	—	—
Chippewa Valley Electric Coop	—	—	—	—	—	—	—
Clark Electric Coop	—	—	—	—	—	—	—
Crawford Electric Coop	—	—	—	—	—	—	—
Dunn County Electric Coop	—	—	—	—	—	—	—
Grant-Lafayette Electric Coop	—	—	—	—	—	—	—
Head of Lakes Electric Coop	—	—	—	—	—	—	—
Jackson Electric Coop Inc	—	—	—	—	—	—	—
Jump River Electric Coop Inc	—	—	—	—	—	—	—
Oakdale Electric Coop	—	—	—	—	—	—	—
Oconto Electric Coop	84,649	2,946,960	—	—	—	—	—
Price Electric Coop Inc	—	—	—	—	—	—	—
Richland Electric Coop	—	—	—	—	—	—	—
Rock County Electric Coop Assn	68,866	2,273,325	—	—	—	—	—
St Croix Electric Coop	—	—	—	—	—	—	—
Vernon Electric Coop	—	—	—	—	—	—	—
Washington Island El Coop Inc	9,106	321,887	—	—	—	—	—
Wyoming							
Big Horn Rural Electric Co	—	—	—	—	—	—	—
Bridger Valley Elec Assn Inc	—	—	39,411	761,961	—	—	—
Carbon Power & Light Inc	—	—	—	—	—	—	—
Garland Light & Power Co	—	—	—	—	—	—	—
Hot Springs Rural El Assn Inc	—	—	—	—	—	—	—
Niobrara Electric Assn Inc	—	—	—	—	—	—	—
Riverton Valley Elec Assn Inc	—	—	—	—	—	—	—
Rural Electric Co	—	—	—	—	—	—	—
Sheridan-Johnson Rrl Elec Assn	—	—	—	—	—	—	—
Tri-County Electric Assn Inc	—	—	—	—	—	—	—
Wheatland Rural Elec Assn Inc	—	—	—	—	—	—	—
Wynolec Co	—	—	—	—	—	—	—

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1996 (Continued)

State / Cooperative Borrower	Source of Electricity						
	Municipal	Cooperative		Other ¹		Total	
	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Virginia							
Northern Virginia Elec Coop	—	1,901,161	97,061,185	—	—	1,915,108	97,307,258
Prince George Electric Coop	—	167,054	8,768,785	—	—	177,852	8,964,300
Rappahannock Electric Coop	—	1,830,525	77,605,392	—	—	1,926,240	79,743,572
Shenandoah Valley Elec Coop	—	583,888	26,643,579	—	—	626,302	27,425,642
Southside Electric Coop Inc	—	569,803	29,288,880	—	—	632,007	30,435,849
Washington							
Benton Rural Electric Assn	—	—	59,628	—	—	416,281	10,531,075
Columbia Rural Elec Assn Inc	—	—	—	—	—	220,098	5,088,209
Nespelem Valley Elec Coop Inc	—	—	—	1,134	3,339	43,814	1,161,982
Okanogan County Elec Coop Inc	—	—	—	—	—	42,416	1,156,712
Orcas Power & Light Co	—	—	—	73	1,280	167,158	4,676,502
Tanner Electric Coop	—	—	—	16	468	51,276	1,406,131
West Virginia							
Harrison Rural Elec Assn Inc	—	—	—	53,294	2,516,216	53,294	2,516,216
Wisconsin							
Adams-Columbia Electric Coop	—	—	—	96	3,194	352,797	11,183,897
Bayfield Electric Coop Inc	—	68,489	2,681,898	—	—	68,489	2,681,898
Central Wisconsin Elec Coop	—	—	—	—	—	81,943	2,572,111
Chippewa Valley Electric Coop	—	86,752	3,331,574	—	—	86,752	3,331,574
Clark Electric Coop	—	140,574	5,567,828	—	—	140,574	5,567,828
Crawford Electric Coop	—	45,787	1,797,915	—	—	45,787	1,797,915
Dunn County Electric Coop	—	121,910	4,920,954	—	—	121,910	4,920,954
Grant-Lafayette Electric Coop	—	162,948	6,589,672	—	—	162,948	6,589,672
Head of Lakes Electric Coop	—	44,484	1,582,805	—	—	44,484	1,582,805
Jackson Electric Coop Inc	—	107,935	3,416,301	—	—	107,935	3,416,301
Jump River Electric Coop Inc	—	78,696	2,883,490	—	—	78,696	2,883,490
Oakdale Electric Coop	—	170,169	6,271,010	—	—	170,169	6,271,010
Oconto Electric Coop	—	—	—	18	5,696	84,667	2,952,656
Price Electric Coop Inc	—	63,053	2,345,976	—	—	63,053	2,345,976
Richland Electric Coop	—	49,549	1,935,672	—	—	49,549	1,935,672
Rock County Electric Coop Assn	—	—	—	—	—	68,866	2,273,325
St Croix Electric Coop	—	118,318	4,616,549	—	—	118,318	4,616,549
Vernon Electric Coop	—	133,849	5,425,695	—	—	133,849	5,425,695
Washington Island El Coop Inc	—	—	—	—	—	9,106	321,887
Wyoming							
Big Horn Rural Electric Co	—	78,422	2,887,926	—	—	78,422	2,887,926
Bridger Valley Elec Assn Inc	—	50,958	2,732,520	—	—	90,369	3,494,481
Carbon Power & Light Inc	—	85,642	3,155,146	—	—	85,642	3,155,146
Garland Light & Power Co	—	19,741	789,004	—	—	19,741	789,004
Hot Springs Rural El Assn Inc	—	290,476	10,019,245	—	—	290,476	10,019,245
Niobrara Electric Assn Inc	—	48,797	1,685,317	—	—	48,797	1,685,317
Riverton Valley Elec Assn Inc	—	188,113	6,952,588	—	—	188,113	6,952,588
Rural Electric Co	—	187,237	7,426,600	—	—	187,237	7,426,600
Sheridan-Johnson Rrl Elec Assn	—	84,362	3,092,366	—	—	84,362	3,092,366
Tri-County Electric Assn Inc	—	1,322,215	45,998,552	—	—	1,322,215	45,998,552
Wheatland Rural Elec Assn Inc	—	109,121	3,614,000	—	—	109,121	3,614,000
Wyrulec Co	—	130,792	4,494,739	—	—	130,792	4,494,739

¹ Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •The Department of Agriculture under the Rural Electrification Act is authorized to provide Federal commitments for long-term financing and to guarantee non-Federal long-term loans to utilities supplying power to rural America. The utilities that received guarantees for their loans are referred to as borrowers by the Rural Utilities Service (formerly, the Rural Electrification Administration). Nonborrowing cooperatives and other utilities that do not borrow from the RUS are not required to file the RUS-7 and RUS-12 forms. •Distribution borrowers do not generate electricity; they purchase electricity from other utilities. •For identification purposes, the Cooperative Borrowers are listed in the State in which the administrative office is located. •Totals may not equal sum of components because of independent rounding.

Source: Rural Utilities Service, RUS Form 7, "Financial and Statistical Report," RUS Form 12a through 12i, "Electric Power Supply Borrowers," Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities."

Table 35. Electricity Purchases by Electrical Cooperatives Not Reported to the Rural Utilities Service, by State, 1996

State / Utility	Source of Electricity (Purchases in thousand kWh)						Total
	Investor-Owned	Federal	State and Other Government	Municipal	Cooperative	Other ¹	
Alabama							
Marshall-De Kalb Elec Coop	—	417,227	—	—	—	—	417,227
Alaska							
Chugach Electric Assn Inc	—	72,886	—	23,589	199,075	—	295,550
Arizona							
Graham County Elec Coop Inc	—	—	—	—	118,172	—	118,172
Florida							
Lee County Electric Coop Inc	—	—	—	—	2,409,649	—	2,409,649
Idaho							
Fall River Rural Elec Coop	—	169,633	—	—	—	—	169,633
Farmers Electric Co	—	4,117	—	—	—	—	4,117
Rural Electric Co	—	93,578	—	—	—	—	93,578
South Side Elec Lines, Inc	—	45,485	—	—	—	—	45,485
Unity Light & Power Coop	—	82,825	—	—	—	—	82,825
Indiana							
Bartholomew County Rural E M C	—	—	—	—	232,828	—	232,828
Carroll County Rural E M C	—	—	—	—	138,275	—	138,275
Central Indiana Power	—	—	—	—	144,316	—	144,316
Clark County Rural E M C	—	—	—	—	264,039	—	264,039
Hendricks County Rural E M C	—	—	—	—	307,689	—	307,689
Kosciusko Cnty Rural EMC	—	—	—	—	258,823	—	258,823
Miami-Cass Cnty Rural EMC	—	—	—	—	105,469	—	105,469
Noble Cnty Rural EMC	—	—	—	—	171,607	—	171,607
Steuben County Rural EMC	—	—	—	—	103,101	—	103,101
Warren County Rural EMC	—	—	—	—	73,777	—	73,777
Iowa							
Boone Valley Elec Coop	—	—	—	—	6,600	—	6,600
Cass Electric Coop	—	—	—	—	1,446	—	1,446
Nishnabotna Valley REC	—	—	—	—	77,230	—	77,230
North West Rural Elec Coop	—	—	—	—	132,680	—	132,680
Louisiana							
Beauregard Electric Coop Inc	—	—	—	—	566,734	—	566,734
Michigan							
Oceana Electric Coop	—	—	—	—	96,140	—	96,140
Presque Isle Electric Coop Inc	—	—	—	—	209,389	—	209,389
Mississippi							
Delta Electric Power Assn	—	—	—	—	448,928	—	448,928
Pontotoc Elec Power Assoc	—	348,662	—	—	—	—	348,662
Prentiss Cnty Elec Pwr Assoc	—	332,175	—	—	—	—	332,175
Tippah Elec Power Assoc	—	306,398	—	—	—	—	306,398
Missouri							
Consolidated Elec Coop	—	—	—	—	50,082	—	50,082
Cuivre River Electric Coop Inc	—	—	—	—	671,305	—	671,305
Scott-New Madrid-MS El Coop	—	—	—	—	236,462	—	236,462
Montana							
Flathead Electric Coop Inc	—	1,559,678	—	—	—	—	1,559,678
Glacier Electric Coop Inc	—	184,177	—	—	—	—	184,177
Nebraska							
Niobrara Valley El Mbr Corp	—	—	98,181	—	—	—	98,181
Nevada							
Farmers Mutual Power Assn	—	—	—	—	1,154	—	1,154
Penoyer Valley Electric Coop	—	—	526	—	—	—	526

See notes and footnotes at end of table.

Table 35. Electricity Purchases by Electrical Cooperatives Not Reported to the Rural Utilities Service, by State, 1996 –Continued

State / Utility	Source of Electricity (Purchases in thousand kWh)						Total
	Investor-Owned	Federal	State and Other Government	Municipal	Cooperative	Other ¹	
North Carolina							
4-County Electric Power Assn	—	874,494	—	—	—	—	874,494
Ohio							
Licking Rural Electric Inc	—	—	—	—	282,541	—	282,541
Paulding-Putman Elec Coop	—	—	—	—	217,451	—	217,451
TriCounty Rural Elec Coop Inc	—	—	—	—	56,020	—	56,020
Oklahoma							
Kiamichi Elec Coop Inc	—	—	—	—	225,657	—	225,657
Oklahoma Elec Coop Inc	—	—	—	—	640,381	—	640,381
People 's Electric Coop	—	—	—	—	272,562	—	272,562
Oregon							
Hood River Electric Coop	—	94,373	—	—	—	—	94,373
Salem Electric	—	398,033	—	—	—	—	398,033
Pennsylvania							
New Enterprise R E C Inc	—	—	—	—	41,647	—	41,647
Texas							
Bandera Elec Coop Inc	—	—	335,605	—	—	—	335,605
Bluebonnet Electric Coop Inc	—	—	1,156,641	—	—	—	1,156,641
Cooke County Elec Coop Assn	—	—	—	—	281,513	—	281,513
Denton Cnty Elec Coop Inc	—	—	—	—	840,217	—	840,217
Dickens Elec Coop Inc	—	—	—	—	513,894	—	513,894
Fayette Electric Coop Inc	—	—	172,730	—	—	—	172,730
Fort Belknap Electric Coop Inc	—	—	—	—	97,754	—	97,754
Guadalupe Valley Elec Coop	—	—	1,160,028	—	—	—	1,160,028
Hill County Elec Coop	—	—	—	—	247,046	—	247,046
Mid-South Electric Coop Assn	—	—	—	—	327,270	—	327,270
Navasota Valley Elec Coop	—	—	—	—	293,528	—	293,528
Pedernales Elec Coop Inc	—	—	2,400,933	—	—	—	2,400,933
Rayburn Country Elec Coop Inc	1,391,770	177,574	—	—	218,112	—	1,787,456
San Bernard Elec Coop Inc	—	—	353,934	—	—	—	353,934
Wharton Cnty Elec Coop Inc	—	—	—	—	148,306	—	148,306
Wise Elec Coop Inc	—	—	—	—	215,425	—	215,425
Virginia							
Old Dominion Electric Coop	3,732,364	—	—	103	—	173,703	3,906,170
Washington							
Big Bend Elec Coop Inc	—	425,000	—	—	—	—	425,000
Lakeview Light & Power	—	—	—	—	—	287,769	287,769
Wisconsin							
Barron Elec Coop	—	—	—	—	300,391	—	300,391
Buffalo Electric Coop	—	—	—	—	75,379	—	75,379
Eau Claire Elec Coop	—	—	—	—	135,348	—	135,348
Pierce-Pepin Elec Coop	—	—	—	—	101,355	—	101,355
Taylor Electric Coop	—	—	—	—	59,567	—	59,567
Trempealeau Elec Coop	—	—	—	—	141,544	—	141,544
Wyoming							
Lower Valley Pwr & Lgt Inc	—	254,897	—	—	254,898	—	509,795

¹ Includes transactions with power marketers, power pools, utilities in Canada and Mexico, and nonutilities.

—Not Applicable

Notes: •The Department of Agriculture under the Rural Electrification Act is authorized to provide Federal commitments for long-term financing and to guarantee non-Federal long-term loans to utilities supplying power to rural America. The utilities that received guarantees for their loans are referred to as borrowers by the REA. Nonborrowing cooperatives and other utilities that do not borrow from the REA are not required to file the REA-7 and REA-12 forms. •Distribution borrowers do not generate electricity; they purchase electricity from other utilities. •For identification purposes, the Cooperative Borrowers are listed in the State in which the administrative office is located. •Totals may not equal sum of components because of independent rounding.

Source: •Energy Information Administration Form EIA-861, "Annual Electric Utility Report" and FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees."

Table 36. Electricity Exchanges and Wheeling by Cooperative Borrowers, by State, 1996
(Thousand Kilowatthours)

State / Cooperative Borrower	Exchanges		Wheeling	
	Received	Delivered	Received	Delivered
Alabama				
Alabama Electric Coop Inc	—	—	102,338	99,357
Alaska				
Chugach Electric Assn Inc	99,152	96,613	113,468	113,468
Arizona				
Arizona Electric Pwr Coop Inc	26,159	18,505	12,273	12,040
Arkansas				
Arkansas Electric Coop Corp	37,665	29,162	—	—
Colorado				
Empire Electric Assn Inc	—	—	32,744	32,018
Tri-State G & T Assn Inc	1,176,558	1,096,746	189,545	181,651
Florida				
Seminole Electric Coop Inc	24,071	18,983	225,577	224,139
Idaho				
Idaho Cnty L&P Coop Assn Inc	—	—	3,811	3,811
Rural Electric Co	—	—	1,429	1,429
Illinois				
Southern Illinois Power Coop	133,310	190,218	120,585	120,585
Indiana				
Hoosier Energy R E C Inc	94,159	87,157	245,161	233,341
Iowa				
Central Iowa Power Coop	1,829,995	1,732,388	—	—
Corn Belt Power Coop	150,257	176,645	—	—
L & O Power Coop	—	—	108,739	101,625
Northwest Iowa Power Coop	161,828	156,610	357,152	341,689
Kansas				
Midwest Energy Inc	—	—	130,758	130,758
Sunflower Electric Power Corp	—	—	314,846	314,846
Kentucky				
Big Rivers Electric Corp	2,809	4,714	1,659,002	1,659,002
East Kentucky Power Coop Inc	252,511	211,838	2,064,334	2,064,334
Minnesota				
United Power Assn	12,762	111,807	96,184	27,140
Mississippi				
South Mississippi El Pwr Assn	29,229	28,084	598,669	580,708
Missouri				
Associated Electric Coop Inc	139,483	63,196	785,951	725,343
Northeast Missouri El Pwr Coop	—	—	176,253	176,253
Montana				
Sun River Electric Coop Inc	—	—	3,378	3,378
Nevada				
Valley Electric Assn Inc	25,187	25,765	—	—
New Mexico				
Jemez Mountains Elec Coop Inc	—	—	43,881	42,849
Plains Elec Gen&Trans Coop Inc	9,569	16,433	—	—
North Dakota				
Basin Electric Power Coop	260,543	4,760	—	—
Minnkota Power Coop Inc	60,665	170,769	24,592	22,983
Mor-Gran-Sou Electric Coop Inc	—	—	169	169
Oliver-Mercer Elec Coop Inc	—	—	2,192	2,192

See notes and footnotes at end of table.

Table 36. Electricity Exchanges and Wheeling by Cooperative Borrowers, by State, 1996
(Thousand Kilowatthours) (Continued)

State / Cooperative Borrower	Exchanges		Wheeling	
	Received	Delivered	Received	Delivered
Oklahoma				
Peoples Electric Coop Inc	—	—	49,766	49,766
Western Farmers Elec Coop Inc	60,966	41,821	—	—
Oregon				
Hood River Electric Coop	—	—	25,869	25,869
Pacific Northwest Genertg Coop	—	—	260,328	260,328
South Dakota				
East River Elec Power Coop Inc	—	—	385,442	361,044
Texas				
Brazos Electric Power Coop Inc	21,473,267	21,027,081	205,086	201,410
Rayburn Country Elec Coop, Inc.....	143,160	173,290	—	—
South Texas Electric Coop Inc	—	341,708	325,237	322,111
Utah				
Deseret Generation & Tran Coop	27,581	43,772	—	—
Flowell Electric Assn Inc	4,059	4,059	—	—
Moon Lake Electric Assn Inc	—	—	30,495	30,495
Virginia				
Rappahannock Electric Coop	—	—	5,867	5,759
Wyoming				
Big Horn Rural Electric Co	—	—	10,689	9,681

—Not Applicable

Notes: •The Department of Agriculture under the Rural Electrification Act is authorized to provide Federal commitments for long-term financing and to guarantee non-Federal long-term loans to utilities supplying power to rural America. The utilities that received guarantees for their loans are referred to as borrowers by the RUS. Nonborrowing cooperatives and other utilities that do not borrow from the RUS are not required to file the Rural Utilities Service, RUS Form 7, "Financial and Statistical Report," the RUS Form 12a through 12i, "Electric Power Supply Borrowers," and the Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities." •For identification purposes, the Cooperative Borrowers are listed in the State in which the administrative office is located. •Totals may not equal sum of components because of independent rounding.

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

Appendix A

**Federal
Energy
Regulatory
Commission
Regulation of
the Electric
Utility
Industry**

Appendix A

Federal Energy Regulatory Commission Regulation of the Electric Utility Industry

The responsibility for regulating most interstate wholesale electric trade rests with the Federal Government, and not with State or local governments. Therefore, data on wholesale trade are collected within a framework of Federal laws and regulations. In wholesale trade between electrically connected utilities, if even one utility is electrically connected to a utility that operates in a different State, then trade among any of these utilities is considered interstate and jurisdictional for the Federal Energy Regulatory Commission (FERC) regulatory purposes. Hence virtually all wholesale trade except that in Alaska, Hawaii, and part of Texas is considered interstate.

FERC is responsible for governing interstate trade of wholesale electricity for investor-owned utilities. In order to participate in wholesale electricity trade, utilities must file interconnection agreements (contracts) with the FERC. FERC exercises its regulatory authority directly by approving interconnections between utilities, coordinating agreements to exchange power, and approving wholesale power rates. Authority for bulk power transactions is typically prearranged under interconnection contracts. These agreements define an individual electric utility's overall relationship to other utilities. In addition, they define how each will maintain its part of the electrical system operations. Other contracts are often negotiated to handle specific needs. In fact, one of the most common is for support of full or partial requirement power. Requirements contracts cover electric utilities that have either insufficient or no generating capability to satisfy their customer load. They represent long-term, firm power contractual obligations in which the terms and conditions obligate the selling electric utility to provide the buying electric utility a level of service equivalent to the seller's requirement to support its own retail customers. These contracts may be with more than one electric utility.

For restructuring the electric utility industry, the FERC has issued policy statements in several critical areas and initiated a number of proceedings in the period immediately following the passage of the Energy Policy Act of 1992. These include: (1) Regional Transmission Group Policy Statement,

Docket No. RM93-3-000 (July 30, 1993), (2) Docket No. RM94-7-000, *Recover of Stranded Costs by Public Utilities and Transmitting Utilities*, Notice of Proposed Rulemaking (June 29, 1994), (3) Transmission Pricing Policy Statement, Docket No. RM93-19-000 (October 26, 1994), (4) Pooling Notice of Inquiry, Docket No. RM94-20-000 (October 26, 1994), (5) Notice of Proposed Rulemaking and Supplemental Notice of Proposed Rulemaking: (i) *Promoting Wholesale Competition through Open Access Non-Discriminatory Transmission Services by Public Utilities*, Docket No. RM95-8-000, and (ii) *Recovery of Stranded Costs by Public Utilities and Transmitting Utilities*, Docket No. RM-94-7-001 (March 29, 1995), and *Notice of Inquiry on Merger Policy*, Docket No. Rm-96-000 (January 31, 1996).

These reviews and actions taken by the FERC are designed to create a business environment conducive to competition in wholesale electricity trade. However, the contemplated industry transformation from a regulated cost-of-service pricing structure which has an obligation to serve all customers to one that is fully competitive in generation with open access to transmission faces a host of complex and controversial issues. See the Energy Information Administration report, *The Changing Structure of the Electric Power Industry: Selected Issues, 1998* for a discussion of many of the current issues.¹⁶

The FERC established a Uniform System of Accounts for the financial reporting of electric trade transactions. The transactions reported are complex and involve specifics of contracts, simultaneous energy transactions, the unintended receipt and delivery of energy, and the handling of energy losses. These accounts can be found in the FERC's "Accounting and Reporting Requirements For Public Utilities and Licensees." FERC requires only investor-owned utilities to file financial information on electric trade. The Rural Utilities Service (RUS) requires its borrowers (usually cooperatives) to file similar information, while EIA requires similar information from public utilities. Both the RUS and the EIA request the reporting of information based on the Uniform System of Accounts.

¹⁶ Energy Information Administration, *The Changing Structure of the Electric Power Industry: Selected Issues, 1998* DOE/EIA-0562(98)(Washington DC, July 1998).

Data on wholesale electricity trade are collected on Federal survey data forms that are accounting-system based. They were designed for regulatory purposes to meet individual electric utility administrative and rate case needs as opposed to overall aggregate industry statistical and analytical purposes.

The FERC Forms 1 and 1-F are the primary financial reporting forms. Wholesale data are collected on 4 of the approximately 75 survey schedules comprising the FERC Form 1. The wholesale electricity trade schedules are categorized as sales for resale, purchased power, summary of interchange, and transmission of electricity for or by others. These schedules correspond to one or more of the following accounts from the Uniform System of Accounts as follows:

- Sales for Resale (447)
 - A. This account shall include the net billing for electricity supplied to other electric utilities or to public authorities for resale purposes.
 - B. Records shall be maintained so as to show the quantity of electricity sold and the revenue received from each customer.
 - NOTE: Revenues from electricity supplied to other public utilities for use by them and not for distribution shall be included in account 443, Commercial and Industrial Sales, unless supplied under the same contract as and not readily separable from revenues includable in this account.
- Purchased Power (555)
 - A. This account shall include the cost at point of receipt by the utility of electricity purchased for resale. It shall include, also, net settlements for exchange of electricity or power, such as economy energy, off-peak energy for on-peak energy, spinning reserve capacity, etc. In addition, the account shall include the net settlements for transactions under pooling or interconnection agreements wherein there is a balancing of debits and credits for energy, capacity, etc. Distinct purchases and sales shall not be recorded as exchanges and net amounts are only recorded merely because debit and credit amounts are combined in the voucher settlement.
 - B. The records supporting this account shall show, by months, the demands and demand charges, kilowatthours and prices thereof under each purchase contract and the charges and credits under each exchange or power pooling contract.
- Other Electric Revenues (456)
 - 5. Revenues from transmission of electricity of others over transmission facilities of the utility.
- Transmission of Electricity By Others (565)
 - This account shall include amounts payable to others for the transmission of the utility's electricity over transmission facilities owned by others.

Addition of Statistical Classification Codes to the FERC Form 1

The Federal Energy Regulatory Commission modified the FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others" for the 1990 collection year. The Statistical Classification Codes are based on the original contractual terms and conditions of the service. The following codes were added to FERC Form 1:

- RQ - for requirements service. Requirements service is service which the supplier plans to provide on an ongoing basis (i.e., the supplier includes projected load for this service in its system resource planning). In addition, the reliability of requirements service must be the same as, or second only to, the supplier's service to its own ultimate consumers.
- LF - for long-term firm service. "Long-term" means 5 years or longer and "firm" means that service cannot be interrupted for economic reasons and is intended to remain reliable even under adverse conditions (e.g., the supplier must attempt to buy emergency energy from third parties to maintain deliveries of LF service). This category should not be used for long-term firm service, which meets the definition of RQ service. For all transactions identified as LF, provide in a footnote the termination date of the contract defined as the earliest date that either buyer or seller can unilaterally get out of the contract.
- IF - for intermediate-term firm service. The same as LF service except that "intermediate-term" means longer than 1 year but less than 5 years.
- SF - for short-term firm service. Use this category for all firm services where the duration of each period of commitment for service is 1 year or less.
- LU - for long-term service from a designated generating unit. "Long-term" means 5 years or longer. The availability and reliability of service, aside from transmission constraints, must match the availability and reliability of the designated unit.
- IU - for intermediate-term service from a designated generating unit. The same as LU service except that "intermediate-term" means longer than 1 year but less than 5 years.
- EX - for exchange of electricity. Use this category for transactions involving a balancing of debits and credits for energy, capacity, etc. and any settlements for imbalanced exchanges.
- OS - for other service. Use this category only for those services which cannot be placed in the above-defined categories, such as all nonfirm service regardless of the length of the contract and service from designated units of less than 1 year. Describe the nature of the service in a footnote.
- AD - for out-of-period adjustments. Use this code for any accounting adjustments or "tune-ups" for

service provided in prior reporting years. Provide an explanation in a footnote for each adjustment.

Appendix B

State, NERC Region, and Data Sources for Electric Utilities

Appendix B

State, NERC Region, and Data Sources for Electric Utilities

Table B1. Investor-Owned Utilities, 1996

Utility	State ¹	NERC Region ²	Survey Form ³
Alabama Power Co	Alabama	SERC	FERC FORM 1
Alaska Electric Light & Power Co	Alaska	ASCC	FERC FORM 1-F
Alcoa Generating Corp	Indiana	ECAR	FERC FORM 1
Allegheny Generating Co	Maryland	ECAR	FERC FORM 1-F
Appalachian Power Co	Virginia	ECAR	FERC FORM 1
Arizona Public Service Co	Arizona	WSCC	FERC FORM 1
Aroostook Valley Electric Co	Maine	NPCC	FERC FORM 1
Atlantic City Electric Co	New Jersey	MAAC	FERC FORM 1
AEP Generating Co	Ohio	ECAR	FERC FORM 1
Baltimore Gas & Electric Co	Maryland	MAAC	FERC FORM 1
Bangor Hydro-Electric Co	Maine	NPCC	FERC FORM 1
Beebe Island Corp	New York	NPCC	FERC FORM 1
Black Hills Corp	South Dakota	WSCC	FERC FORM 1
Blackstone Valley Electric Co	Rhode Island	NPCC	FERC FORM 1
Boston Edison Co	Massachusetts	NPCC	FERC FORM 1
Cambridge Electric Light Co	Massachusetts	NPCC	FERC FORM 1
Canal Electric Co	Massachusetts	NPCC	FERC FORM 1
Carolina Power & Light Co	North Carolina	SERC	FERC FORM 1
Catalyst Old River Hydroel LP	Louisiana	SPP	FERC FORM 1
Central Hudson Gas & Elec Corp	New York	NPCC	FERC FORM 1
Central Illinois Light Co	Illinois	MAIN	FERC FORM 1
Central Illinois Pub Serv Co	Illinois	MAIN	FERC FORM 1
Central Louisiana Elec Co Inc	Louisiana	SPP	FERC FORM 1
Central Maine Power Co	Maine	NPCC	FERC FORM 1
Central Power & Light Co	Texas	ERCOT	FERC FORM 1
Central Vermont Pub Serv Corp	Vermont	NPCC	FERC FORM 1
Cincinnati Gas & Electric Co	Ohio	ECAR	FERC FORM 1
Citizens Utilities Co	Connecticut	NPCC	FERC FORM 1
Citizens ' Electric Co	Pennsylvania	MAAC	FERC FORM 1-F
Cleveland Electric Illum Co	Ohio	ECAR	FERC FORM 1
Columbus Southern Power Co	Ohio	ECAR	FERC FORM 1
Commonwealth Edison Co	Illinois	MAIN	FERC FORM 1
Commonwealth Edison Co IN Inc	Indiana	MAIN	FERC FORM 1
Commonwealth Electric Co	Massachusetts	NPCC	FERC FORM 1
Concord Electric Co	New Hampshire	NPCC	FERC FORM 1-F
Connecticut Light & Power Co	Connecticut	NPCC	FERC FORM 1
Connecticut Valley Elec Co Inc	New Hampshire	NPCC	FERC FORM 1
Connecticut Yankee Atom Pwr Co	Connecticut	NPCC	FERC FORM 1
Consolidated Edison Co-NY Inc	New York	NPCC	FERC FORM 1
Consolidated Water Power Co	Wisconsin	MAIN	FERC FORM 1
Consumers Power Co	Michigan	ECAR	FERC FORM 1
Dayton Power & Light Co	Ohio	ECAR	FERC FORM 1
Delmarva Power & Light Co	Delaware	MAAC	FERC FORM 1
Detroit Edison Co	Michigan	ECAR	FERC FORM 1
Duke Power Co	North Carolina	SERC	FERC FORM 1
Duquesne Light Co	Pennsylvania	ECAR	FERC FORM 1
Eastern Edison Co	Massachusetts	NPCC	FERC FORM 1
Edison Sault Electric Co	Michigan	ECAR	FERC FORM 1
El Paso Electric Co	Texas	WSCC	FERC FORM 1
Electric Energy Inc	Illinois	MAIN	FERC FORM 1

See footnotes at end of table.

Table B1. Investor-Owned Utilities, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Empire District Electric Co.....	Missouri	SPP	FERC FORM 1
Entergy Arkansas Inc.....	Arkansas	SPP	FERC FORM 1
Entergy Gulf States Inc.....	Texas	SPP	FERC FORM 1
Entergy Louisiana Inc.....	Louisiana	SPP	FERC FORM 1
Entergy Mississippi Inc.....	Mississippi	SPP	FERC FORM 1
Entergy New Orleans Inc.....	Louisiana	SPP	FERC FORM 1
Entergy Power Inc.....	Arkansas	SPP	FERC FORM 1
Exeter & Hampton Electric Co.....	New Hampshire	NPCC	FERC FORM 1-F
Fitchburg Gas & Elec Light Co.....	Massachusetts	NPCC	FERC FORM 1
Florida Power & Light Co.....	Florida	SERC	FERC FORM 1
Florida Power Corp.....	Florida	SERC	FERC FORM 1
Georgia Power Co.....	Georgia	SERC	FERC FORM 1
Granite State Electric Co.....	New Hampshire	NPCC	FERC FORM 1-F
Great Bay Power Corp.....	New Hampshire	NPCC	FERC FORM 1
Green Mountain Power Corp.....	Vermont	NPCC	FERC FORM 1
Gulf Power Co.....	Florida	SERC	FERC FORM 1
Hawaiian Electric Co Inc.....	Hawaii	HI	FERC FORM 1
Holyoke Power & Electric Co.....	Massachusetts	NPCC	FERC FORM 1
Holyoke Water Power Co.....	Massachusetts	NPCC	FERC FORM 1
Houston Lighting & Power Co.....	Texas	ERCOT	FERC FORM 1
Idaho Power Co.....	Idaho	WSCC	FERC FORM 1
Illinois Power Co.....	Illinois	MAIN	FERC FORM 1
Indiana Michigan Power Co.....	Indiana	ECAR	FERC FORM 1
Indiana-Kentucky Electric Corp.....	Ohio	ECAR	FERC FORM 1
Indianapolis Power & Light Co.....	Indiana	ECAR	FERC FORM 1
Interstate Power Co.....	Iowa	MAPP	FERC FORM 1
IES Utilities Inc.....	Iowa	MAPP	FERC FORM 1
Jersey Central Power&Light Co.....	New Jersey	MAAC	FERC FORM 1
Kansas City Power & Light Co.....	Missouri	SPP	FERC FORM 1
Kansas Gas & Electric Co.....	Kansas	SPP	FERC FORM 1
Kentucky Power Co.....	Kentucky	ECAR	FERC FORM 1
Kentucky Utilities Co.....	Kentucky	ECAR	FERC FORM 1
Kingsport Power Co.....	Tennessee	ECAR	FERC FORM 1
Lockhart Power Co.....	South Carolina	SERC	FERC FORM 1
Long Island Lighting Co.....	New York	NPCC	FERC FORM 1
Long Sault Inc.....	New York	ERCOT	FERC FORM 1
Louisville Gas & Electric Co.....	Kentucky	ECAR	FERC FORM 1
Madison Gas & Electric Co.....	Wisconsin	MAIN	FERC FORM 1
Maine Electric Power Co Inc.....	Maine	NPCC	FERC FORM 1
Maine Public Service Co.....	Maine	NPCC	FERC FORM 1
Maine Yankee Atomic Power Co.....	Maine	NPCC	FERC FORM 1
Massachusetts Electric Co.....	Massachusetts	NPCC	FERC FORM 1
Maui Electric Co Ltd.....	Hawaii	HI	FERC FORM 1
Metropolitan Edison Co.....	Pennsylvania	MAAC	FERC FORM 1
MidAmerican Energy Co.....	Iowa	MAPP	FERC FORM 1
Minnesota Power & Light Co.....	Minnesota	MAPP	FERC FORM 1
Mississippi Power Co.....	Mississippi	SERC	FERC FORM 1
Monongahela Power Co.....	West Virginia	ECAR	FERC FORM 1
Montana Power Co.....	Montana	WSCC	FERC FORM 1
Montaup Electric Co.....	Massachusetts	NPCC	FERC FORM 1
Mt Carmel Public Utility Co.....	Illinois	MAIN	FERC FORM 1
MDU Resources Group Inc.....	North Dakota	MAPP	FERC FORM 1
Nantahala Power & Light Co.....	North Carolina	SERC	FERC FORM 1
Narragansett Electric Co.....	Rhode Island	NPCC	FERC FORM 1
Nevada Power Co.....	Nevada	WSCC	FERC FORM 1
New England Elec Transm'n Cor.....	New Hampshire	NPCC	FERC FORM 1
New England Hydro-Tran Elec Co.....	Massachusetts	NPCC	FERC FORM 1
New England Hydro-Trans Corp.....	New Hampshire	NPCC	FERC FORM 1
New England Power Co.....	Massachusetts	NPCC	FERC FORM 1
New York State Elec & Gas Corp.....	New York	NPCC	FERC FORM 1
Newport Electric Corp.....	Rhode Island	NPCC	FERC FORM 1
Niagara Mohawk Power Corp.....	New York	NPCC	FERC FORM 1
North Atlantic Energy Corp.....	New Hampshire	NPCC	FERC FORM 1
Northern Indiana Pub Serv Co.....	Indiana	ECAR	FERC FORM 1
Northern States Power Co.....	Wisconsin	MAPP	FERC FORM 1
Northern States Power Co.....	Minnesota	MAPP	FERC FORM 1
Northwestern Public Service Co.....	South Dakota	MAPP	FERC FORM 1
Northwestern Wisconsin Elec Co.....	Wisconsin	MAPP	FERC FORM 1
Ocean State Power.....	Rhode Island	NPCC	FERC FORM 1
Ohio Edison Co.....	Ohio	ECAR	FERC FORM 1

See footnotes at end of table.

Table B1. Investor-Owned Utilities, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Ohio Power Co.....	Ohio	ECAR	FERC FORM 1
Ohio Valley Electric Corp.....	Ohio	ECAR	FERC FORM 1
Oklahoma Gas & Electric Co.....	Oklahoma	SPP	FERC FORM 1
Orange & Rockland Utils Inc.....	New York	NPCC	FERC FORM 1
Otter Tail Power Co.....	Minnesota	MAPP	FERC FORM 1
Pacific Gas & Electric Co.....	California	WSCC	FERC FORM 1
PacifiCorp.....	Oregon	WSCC	FERC FORM 1
Pennsylvania Electric Co.....	Pennsylvania	MAAC	FERC FORM 1
Pennsylvania Power & Light Co.....	Pennsylvania	MAAC	FERC FORM 1
Pennsylvania Power Co.....	Pennsylvania	ECAR	FERC FORM 1
Pioneer Power & Light Co.....	Wisconsin	MAIN	FERC FORM 1
Portland General Electric Co.....	Oregon	WSCC	FERC FORM 1
Potomac Edison Co.....	Maryland	ECAR	FERC FORM 1
Potomac Electric Power Co.....	District of Col.	MAAC	FERC FORM 1
Public Service Co of Colorado.....	Colorado	WSCC	FERC FORM 1
Public Service Co of NH.....	New Hampshire	NPCC	FERC FORM 1
Public Service Co of NM.....	New Mexico	WSCC	FERC FORM 1
Public Service Co of Oklahoma.....	Oklahoma	SPP	FERC FORM 1
Public Service Electric&Gas Co.....	New Jersey	MAAC	FERC FORM 1
Puget Sound Power & Light Co.....	Washington	WSCC	FERC FORM 1
PECO Energy Co.....	Pennsylvania	MAAC	FERC FORM 1
PSI Energy Inc.....	Indiana	ECAR	FERC FORM 1
Rochester Gas & Electric Corp.....	New York	NPCC	FERC FORM 1
Rockland Electric Co.....	New Jersey	MAAC	FERC FORM 1
Safe Harbor Water Power Corp.....	Pennsylvania	MAAC	FERC FORM 1
San Diego Gas & Electric Co.....	California	WSCC	FERC FORM 1
Savannah Electric & Power Co.....	Georgia	SERC	FERC FORM 1
Sierra Pacific Power Co.....	Nevada	WSCC	FERC FORM 1
South Beloit Water Gas&Elec Co.....	Wisconsin	MAIN	FERC FORM 1
South Carolina Electric&Gas Co.....	South Carolina	SERC	FERC FORM 1
South Carolina Genertg Co Inc.....	South Carolina	SERC	FERC FORM 1
Southern California Edison Co.....	California	WSCC	FERC FORM 1
Southern Electric Generat'g C.....	Alabama	SERC	FERC FORM 1
Southern Indiana Gas & Elec Co.....	Indiana	ECAR	FERC FORM 1
Southwestern Electric Power Co.....	Louisiana	SPP	FERC FORM 1
Southwestern Electric Serv Co.....	Texas	ERCOT	FERC FORM 1
Southwestern Public Service Co.....	Texas	SPP	FERC FORM 1
St Joseph Light & Power Co.....	Missouri	SPP	FERC FORM 1
Superior Water Light&Power Co.....	Wisconsin	MAPP	FERC FORM 1
Susquehanna Electric Co.....	Pennsylvania	MAAC	FERC FORM 1
System Energy Resources Inc.....	Mississippi	SERC	FERC FORM 1
Tampa Electric Co.....	Florida	SERC	FERC FORM 1
Texas Utilities Electric Co.....	Texas	ERCOT	FERC FORM 1
Texas-New Mexico Power Co.....	Texas	ERCOT	FERC FORM 1
Toledo Edison Co.....	Ohio	ECAR	FERC FORM 1
Tucson Electric Power Co.....	Arizona	WSCC	FERC FORM 1
Union Electric Co.....	Missouri	MAIN	FERC FORM 1
Union Light Heat & Power Co.....	Kentucky	ECAR	FERC FORM 1
United Illuminating Co.....	Connecticut	NPCC	FERC FORM 1
Upper Peninsula Power Co.....	Michigan	MAIN	FERC FORM 1
UtiliCorp United Inc.....	Missouri	SPP	FERC FORM 1
UNITIL Power Corp.....	New Hampshire	NPCC	FERC FORM 1-F
Vermont Electric Power Co Inc.....	Vermont	NPCC	FERC FORM 1
Vermont Electric Trans Co Inc.....	Vermont	NPCC	FERC FORM 1
Vermont Yankee Nucl Pwr Corp.....	Vermont	NPCC	FERC FORM 1
Virginia Electric & Power Co.....	Virginia	SERC	FERC FORM 1
Washington Water Power Co.....	Washington	WSCC	FERC FORM 1
West Penn Power Co.....	Pennsylvania	ECAR	FERC FORM 1
West Texas Utilities Co.....	Texas	ERCOT	FERC FORM 1
Western Massachusetts Elec Co.....	Massachusetts	NPCC	FERC FORM 1

See footnotes at end of table.

Table B1. Investor-Owned Utilities, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Western Resources Inc.....	Kansas	SPP	FERC FORM 1
Wheeling Power Co.....	West Virginia	ECAR	FERC FORM 1
Wisconsin Electric Power Co.....	Wisconsin	MAIN	FERC FORM 1
Wisconsin Power & Light Co.....	Wisconsin	MAIN	FERC FORM 1
Wisconsin Public Service Corp.....	Wisconsin	MAIN	FERC FORM 1
Wisconsin River Power Co.....	Wisconsin	MAIN	FERC FORM 1
Yankee Atomic Electric Co.....	Massachusetts	NPCC	FERC FORM 1
York Haven Power Co.....	Pennsylvania	MAAC	FERC FORM 1

¹ The State in which the corporate office of the utility is located.

² The principal North American Electric Reliability Council region in which the utility operates. See Glossary for a list of all regions.

³ Source of data for this publication

Note: Some of the investor-owned electric utilities that are required to file as "minor" utilities did not use the FERC Form 1-F, instead they filed the FERC Form 1. Table B1 identifies only the actual form filed with the FERC and not the list of "minor" investor-owned electric utilities.

Sources: •Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others." •FERC Form 1-F, "Annual Report for Nonmajor Public Utilities and Licensees."

Table B2. Federal Utilities, 1996

Utility	State ¹	NERC Region ²	Survey Form ³
Bonneville Power Admin	Oregon	WSCC	EIA-412
Southeastern Power Admin	Georgia	SERC	EIA-412
Southwestern Power Admin	Oklahoma	SPP	EIA-412
Tennessee Valley Authority	Tennessee	SERC	EIA-412
U S Army Corps of Engineers	Michigan	ECAR	EIA-412
U S Bureau of Indian Affairs.....			
Mission Valley Power ⁴	Montana	WSCC	EIA-412
San Carlos Irrigation Project ⁵	Arizona	WSCC	EIA-412
Western Area Power Admin	Colorado	WSCC/MAPP	EIA-412

¹ The State in which the administrative office of the utility is located.

² The principal North American Electric Reliability Council regions in which the utility operates. See glossary for a list of all regions.

³ Source of data for this publication

⁴ Under P.L. 93-638, the operation and maintenance of the electric utility portion of the irrigation project has been contracted with Mission Valley Power, an entity of the Confederated Salish and Kootenai Tribes.

⁵ During 1992, portions of the utility were divested by the Federal Government. The off-reservation distribution system is to be transferred to San Carlos Irrigation and Drainage District (a state entity) which will sell it to Arizona Public Service. The on-reservation distribution system is to be transferred to Gila River Utility Authority (of the Gila River Indian Community) and the San Carlos Apache Tribe. The Coolidge Dam will remain U.S. property and be run by the Bureau of Indian Affairs.

Note: The Federal Government both produces electricity and sells it at wholesale. Federal producers include the U.S. Army Corps of Engineers, Bureau of Indian Affairs, Bureau of Reclamation, and the International Boundary and Water Commission. The power marketing administrations of the U.S. Department of Energy are also federally owned utilities; they include the Alaska, Bonneville, Southeastern, Southwestern, and Western Area Power Administrations. The Tennessee Valley Authority also both generates and markets electricity.

Sources: •Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities." •Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

Table B3. State and Other Government Utilities, 1996

Utility	State ¹	NERC Region ²	Survey Form ³
Alaska Energy Authority.....	Alaska	ASCC	EIA-412
Arizona Power Authority.....	Arizona	WSCC	EIA-412
Arkansas River Power Authority.....	Colorado	WSCC	EIA-412
Burt County Public Power Dist.....	Nebraska	MAPP	RUS-7
Butler County Rural P P D.....	Nebraska	MAPP	RUS-7
California Dept-Wtr Resources.....	California	WSCC	EIA-412
Central Lincoln Peoples Util Dt.....	Oregon	WSCC	EIA-412
Central Nebraska Pub P&I Dist.....	Nebraska	MAPP	EIA-412
Chimney Rock Public Power Dist.....	Nebraska	MAPP	RUS-7
Clatskanie Peoples Util Dist.....	Oregon	WSCC	EIA-412
Colorado River Comm of Nevada.....	Nevada	WSCC	EIA-412
Columbia River Peoples Ut Dist.....	Oregon	WSCC	EIA-412
Cornhusker Public Power Dist.....	Nebraska	MAPP	EIA-412
Crisp County Power Comm.....	Georgia	SERC	EIA-412
Dawson County Public Pwr Dist.....	Nebraska	MAPP	EIA-412
Electrical Dist No2 Pinal Cnty.....	Arizona	WSCC	EIA-412
Emerald People 's Utility Dist.....	Oregon	WSCC	EIA-412
Grand River Dam Authority.....	Oklahoma	SPP	EIA-412
Heartland Consumers Power Dist.....	South Dakota	MAPP	EIA-412
Imperial Irrigation District.....	California	WSCC	EIA-412
Indiana Municipal Power Agency.....	Indiana	ECAR	EIA-412
Kansas Municipal Energy Agency.....	Kansas	SPP	EIA-412
Kings River Conservation Dist.....	California	WSCC	EIA-412
KBR Rural Public Power Dist.....	Nebraska	MAPP	RUS-7
Lafayette Public Power Auth.....	Louisiana	SPP	EIA-412
Louisiana Energy & Power Auth.....	Louisiana	SPP	EIA-412
Loup River Public Power Dist.....	Nebraska	MAPP	EIA-412
Lower Colorado River Authority.....	Texas	ERCOT	EIA-412
Massachusetts Mun Whls Elec Co.....	Massachusetts	NPCC	EIA-412
Merced Irrigation District.....	California	WSCC	EIA-412
Michigan Public Power Agency.....	Michigan	ECAR	EIA-412
Michigan South Central Pwr Agy.....	Michigan	ECAR	EIA-412
Minnesota Municipal Power Agny.....	Minnesota	MAPP	EIA-412
Missouri Basin Mun Power Agny.....	South Dakota	MAPP	EIA-412
Modesto Irrigation District.....	California	WSCC	EIA-412
Municipal Electric Authority.....	Georgia	SERC	EIA-412
Municipal Energy Agency of NE.....	Nebraska	MAPP	EIA-412
MSR Public Power Agency.....	California	WSCC	EIA-412
Navajo Tribal Utility Auth.....	Arizona	WSCC	EIA-412
Nebraska Public Power District.....	Nebraska	MAPP	EIA-412
New River Light & Power Co.....	North Carolina	SERC	EIA-412
Norris Public Power District.....	Nebraska	MAPP	EIA-412
North Central Public Pwr Dist.....	Nebraska	MAPP	RUS-7
Northeast Nebraska Rural P P D.....	Nebraska	MAPP	RUS-7
Northern California Power Agny.....	California	WSCC	EIA-412
Northern Municipal Power Agny.....	Minnesota	MAPP	EIA-412
Northern Wasco County P U D.....	Oregon	WSCC	EIA-412
Oakdale & South San Joaquin.....	California	WSCC	EIA-412
Oklahoma Municipal Power Auth.....	Oklahoma	SPP	EIA-412
Omaha Public Power District.....	Nebraska	MAPP	EIA-412
Oroville-Wyandotte Irrig Dist.....	California	WSCC	EIA-412
Overton Power District No 5.....	Nevada	WSCC	EIA-412
Placer County Water Agency.....	California	WSCC	EIA-412
Platte River Power Authority.....	Colorado	WSCC	EIA-412
Polk County Rural Pub Pwr Dist.....	Nebraska	MAPP	RUS-7
Power Authority of State of NY.....	New York	NPCC	EIA-412
PUD No 1 of Benton County.....	Washington	WSCC	EIA-412
PUD No 1 of Chelan County.....	Washington	WSCC	EIA-412
PUD No 1 of Clallam County.....	Washington	WSCC	EIA-412
PUD No 1 of Clark County.....	Washington	WSCC	EIA-412
PUD No 1 of Cowlitz County.....	Washington	WSCC	EIA-412
PUD No 1 of Douglas County.....	Washington	WSCC	EIA-412
PUD No 1 of Ferry County.....	Washington	WSCC	RUS-7
PUD No 1 of Franklin County.....	Washington	WSCC	EIA-412
PUD No 1 of Grays Harbor Cnty.....	Washington	WSCC	EIA-412
PUD No 1 of Klickitat County.....	Washington	WSCC	EIA-412
PUD No 1 of Lewis County.....	Washington	WSCC	EIA-412
PUD No 1 of Mason County.....	Washington	WSCC	RUS-7
PUD No 1 of Okanogan County.....	Washington	WSCC	EIA-412
PUD No 1 of Pend Oreille Cnty.....	Washington	WSCC	EIA-412
PUD No 1 of Snohomish County.....	Washington	WSCC	EIA-412
PUD No 1 of Whatcom County.....	Washington	WSCC	EIA-412
PUD No 2 of Grant County.....	Washington	WSCC	EIA-412
PUD No 2 of Pacific County.....	Washington	WSCC	EIA-412
PUD No 3 of Mason County.....	Washington	WSCC	EIA-412
Sacramento Municipal Util Dist.....	California	WSCC	EIA-412

See footnotes at end of table.

Table B3. State and Other Government Utilities, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Salt River Proj Ag I & P Dist.....	Arizona	WSCC	EIA-412
Sam Rayburn Municipal Pwr Agny.....	Texas	SPP	EIA-412
Seward County Rrl Pub Pwr Dist.....	Nebraska	MAPP	RUS-7
South Carolina Pub Serv Auth.....	South Carolina	SERC	EIA-412
Southern California P P A.....	California	WSCC	EIA-412
Southern Minnesota Mun P Agny.....	Minnesota	MAPP	EIA-412
Southern Nebraska Rural P P D.....	Nebraska	MAPP	EIA-412
Stanton County Public Pwr Dist.....	Nebraska	MAPP	RUS-7
Tillamook Peoples Utility Dist.....	Oregon	WSCC	EIA-412
Tlingit & Haida Region El Auth.....	Alaska	ASCC	RUS-7
Tohono O 'Odham Utility Auth.....	Arizona	WSCC	EIA-412
Toledo Bend Project Joint Oper.....	Texas	SPP	EIA-412
Twin Valleys Public Power Dist.....	Nebraska	MAPP	RUS-7
Utah Associated Mun Power Sys.....	Utah	WSCC	EIA-412
Utah Municipal Power Agency.....	Utah	WSCC	EIA-412
Vera Irrigation District # 15.....	Washington	WSCC	EIA-412
Vermont Public Pwr Supply Auth.....	Vermont	NPCC	EIA-412
Virginia Tech Electric Service.....	Virginia	ECAR	EIA-412
Washington Pub Pwr Supply Sys.....	Washington	WSCC	EIA-412
Wayne County Public Power Dist.....	Nebraska	MAPP	RUS-7
Wheat Belt Public Power Dist.....	Nebraska	WSCC	RUS-7
Wyoming Municipal Power Agency.....	Wyoming	WSCC	EIA-412
Yuba County Water Agency.....	California	WSCC	EIA-412

¹ The State in which the authority is located.

² The principal North American Electric Reliability Council region in which the utility operates. See glossary for a list of all regions.

³ Source of data for this publication

Sources: •Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities." •Rural Utilities Service, RUS Form 7, "Financial and Statistical Report," RUS Form 12a through 12i, "Electric Power Supply Borrowers," Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities." •Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

Table B4. Municipal Utilities, 1996

Utility	State ¹	NERC Region ²	Survey Form ³
Alabama Municipal Elec Auth.....	Alabama	SERC	EIA-412
Alameda City of.....	California	WSCC	EIA-412
Albany Water Gas & Light Comm.....	Georgia	SERC	EIA-412
Albemarle City of.....	North Carolina	SERC	EIA-412
Albertville Municipal Utils Bd.....	Alabama	SERC	EIA-412
Alcoa Utilities.....	Tennessee	SERC	EIA-412
Alexandria City of.....	Minnesota	MAPP	EIA-412
Alexandria City of.....	Louisiana	SPP	EIA-412
Altus City of.....	Oklahoma	SPP	EIA-412
American Mun Power-Ohio Inc.....	Ohio	ECAR	EIA-412
Ames City of.....	Iowa	MAPP	EIA-412
Anaheim City of.....	California	WSCC	EIA-412
Anchorage City of.....	Alaska	ASCC	EIA-412
Andalusia City of.....	Alabama	SERC	EIA-412
Anderson City of.....	Indiana	ECAR	EIA-412
Anoka City of.....	Minnesota	MAPP	EIA-412
Ashland City of.....	Oregon	WSCC	EIA-412
Athens City of.....	Alabama	SERC	EIA-412
Athens Utility Board.....	Tennessee	SERC	EIA-412
Auburn City of.....	Indiana	ECAR	EIA-412
Austin City of.....	Minnesota	MAPP	EIA-412
Austin City of.....	Texas	ERCOT	EIA-412
Azusa City of.....	California	WSCC	EIA-412
Badger Power Marketing Auth.....	Wisconsin	MAIN	EIA-412
Bardstown City of.....	Kentucky	ECAR	EIA-412
Bartow City of.....	Florida	SERC	EIA-412
Batavia City of.....	Illinois	MAIN	EIA-412
Bay City City of.....	Michigan	ECAR	EIA-412
Beatrice City of.....	Nebraska	MAPP	EIA-412
Bedford City of.....	Virginia	ECAR	EIA-412
Benton City of.....	Arkansas	SPP	EIA-412
Benton County.....	Tennessee	SERC	EIA-412
Bentonville City of.....	Arkansas	SPP	EIA-412
Bessemer City of.....	Alabama	SERC	EIA-412
Bluffton City of.....	Indiana	ECAR	EIA-412
Bolivar City of.....	Tennessee	SERC	EIA-412
Bountiful City City of.....	Utah	WSCC	EIA-412
Bowling Green City of.....	Ohio	ECAR	EIA-412
Bowling Green City of.....	Kentucky	SERC	EIA-412
Brainerd Public Utilities.....	Minnesota	MAPP	EIA-412
Braintree Town of.....	Massachusetts	NPCC	EIA-412
Brenham City of.....	Texas	ERCOT	EIA-412
Bristol City of.....	Tennessee	SERC	EIA-412
Bristol Utilities Board.....	Virginia	SERC	EIA-412
Brookings City of.....	South Dakota	MAPP	EIA-412
Brownsville Public Utils Board.....	Texas	ERCOT	EIA-412
Bryan City of.....	Ohio	ECAR	EIA-412
Bryan City of.....	Texas	ERCOT	EIA-412
Burbank City of.....	California	WSCC	EIA-412
Burlington City of.....	Vermont	NPCC	EIA-412
Calhoun City of.....	Georgia	SERC	EIA-412
Camden City of.....	South Carolina	SERC	EIA-412
Carroll County.....	Tennessee	SERC	EIA-412
Cartersville City of.....	Georgia	SERC	EIA-412
Carthage City of.....	Missouri	SPP	EIA-412
Cedar Falls City of.....	Iowa	MAPP	EIA-412
Celina City of.....	Ohio	ECAR	EIA-412
Centralia City of.....	Washington	WSCC	EIA-412
Chambersburg Borough of.....	Pennsylvania	ECAR	EIA-412
Chanute City of.....	Kansas	SPP	EIA-412
Chaska City of.....	Minnesota	MAPP	EIA-412
Chattanooga City of.....	Tennessee	SERC	EIA-412
Chicopee City of.....	Massachusetts	NPCC	EIA-412
Claremore City of.....	Oklahoma	SPP	EIA-412
Clarksdale City of.....	Mississippi	SPP	EIA-412
Clarksville City of.....	Tennessee	SERC	EIA-412
Clarksville Light & Water Co.....	Arkansas	SPP	EIA-412
Cleveland City of.....	Tennessee	SERC	EIA-412
Cleveland City of.....	Ohio	ECAR	EIA-412
Clinton City of.....	Tennessee	SERC	EIA-412
Coffeyville City of.....	Kansas	SPP	EIA-412
Coldwater Board of Public Util.....	Michigan	ECAR	EIA-412
College Park City of.....	Georgia	SERC	EIA-412
College Station City of.....	Texas	ERCOT	EIA-412
Colorado Springs City of.....	Colorado	WSCC	EIA-412
Colton City of.....	California	WSCC	EIA-412

See footnotes at end of table.

Table B4. Municipal Utilities, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Columbia City of	Tennessee	SERC	EIA-412
Columbia City of	Missouri	MAIN	EIA-412
Columbus City of.....	Ohio	ECAR	EIA-412
Columbus City of.....	Mississippi	SERC	EIA-412
Concord City of.....	North Carolina	SERC	EIA-412
Concord Town of.....	Massachusetts	NPCC	EIA-412
Connecticut Mun Elec Engy Coop.....	Connecticut	NPCC	EIA-412
Conway Corp.....	Arkansas	SPP	EIA-412
Cookeville City of.....	Tennessee	SERC	EIA-412
Covington City of.....	Georgia	SERC	EIA-412
Covington City of.....	Tennessee	SERC	EIA-412
Crawfordsville Elec Lgt&Pwr Co.....	Indiana	ECAR	EIA-412
Cullman Power Board.....	Alabama	SERC	EIA-412
Cuyahoga Falls City of.....	Ohio	ECAR	EIA-412
Dalton City of.....	Georgia	SERC	EIA-412
Danvers Town of.....	Massachusetts	NPCC	EIA-412
Danville City of.....	Virginia	ECAR	EIA-412
Decatur City of.....	Alabama	SERC	EIA-412
Denton City of.....	Texas	ERCOT	EIA-412
Detroit City of.....	Michigan	ECAR	EIA-412
Dickson City of.....	Tennessee	SERC	EIA-412
Dothan City of.....	Alabama	SERC	EIA-412
Douglas City of.....	Georgia	SERC	EIA-412
Dover City of.....	Delaware	MAAC	EIA-412
Dover City of.....	Ohio	ECAR	EIA-412
Duncan City of.....	Oklahoma	SPP	EIA-412
Dyersburg City of.....	Tennessee	SERC	EIA-412
Easley Combined Utility System.....	South Carolina	SERC	EIA-412
East Point City of.....	Georgia	SERC	EIA-412
Easton Utilities Comm.....	Maryland	MAAC	EIA-412
Edmond City of.....	Oklahoma	SPP	EIA-412
Elizabeth City City of.....	North Carolina	SERC	EIA-412
Elizabethton City of.....	Tennessee	SERC	EIA-412
Ellensburg City of.....	Washington	WSCC	EIA-412
Ephrata Borough of.....	Pennsylvania	MAAC	EIA-412
Erwin Town of.....	Tennessee	SERC	EIA-412
Eugene City of.....	Oregon	WSCC	EIA-412
Fairbanks City of.....	Alaska	ASCC	EIA-412
Fairmont Public Utilities Comm.....	Minnesota	MAPP	EIA-412
Fairport Village of.....	New York	NPCC	EIA-412
Farmington City of.....	New Mexico	WSCC	EIA-412
Fayetteville City of.....	Tennessee	SERC	EIA-412
Fayetteville Public Works Comm.....	North Carolina	SERC	EIA-412
Fitzgerald Wtr Lgt & Bond Comm.....	Georgia	SERC	EIA-412
Florence City of.....	Alabama	SERC	EIA-412
Floresville City of.....	Texas	ERCOT	EIA-412
Florida Municipal Power Agency.....	Florida	SERC	EIA-412
Foley City of (Riviera Utils).....	Alabama	SERC	EIA-412
Forest City Town of.....	North Carolina	SERC	EIA-412
Forest Grove City of.....	Oregon	WSCC	EIA-412
Fort Collins City of.....	Colorado	WSCC	EIA-412
Fort Morgan City of.....	Colorado	WSCC	EIA-412
Fort Payne Improvement Auth.....	Alabama	SERC	EIA-412
Fort Pierce Utilities Auth.....	Florida	SERC	EIA-412
Frankfort City of.....	Indiana	ECAR	EIA-412
Frankfort City of.....	Kentucky	ECAR	EIA-412
Freeport Village of Inc.....	New York	NPCC	EIA-412
Fremont City of.....	Nebraska	MAPP	EIA-412
Gaffney City of.....	South Carolina	SERC	EIA-412
Gainesville Regional Utilities.....	Florida	SERC	EIA-412
Gallatin City of.....	Tennessee	SERC	EIA-412
Gallup City of.....	New Mexico	WSCC	EIA-412
Garden City City of.....	Kansas	SPP	EIA-412
Garland City of.....	Texas	ERCOT	EIA-412
Gastonia City of.....	North Carolina	SERC	EIA-412
Geneva City of.....	Illinois	MAIN	EIA-412
Georgetown City of.....	Texas	ERCOT	EIA-412
Gillette City of.....	Wyoming	WSCC	EIA-412
Glendale City of.....	California	WSCC	EIA-412
Grand Haven City of.....	Michigan	ECAR	EIA-412
Grand Island City of.....	Nebraska	MAPP	EIA-412
Greeneville City of.....	Tennessee	SERC	EIA-412
Greenfield City of.....	Indiana	ECAR	EIA-412
Greenville Electric Util Sys.....	Texas	ERCOT	EIA-412
Greenville Utilities Comm.....	North Carolina	SERC	EIA-412
Greenwood Commissioners-Pub Wk.....	South Carolina	SERC	EIA-412

See footnotes at end of table.

Table B4. Municipal Utilities, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Greenwood Utilities Comm.....	Mississippi	SPP	EIA-412
Greer Comm of Public Works.....	South Carolina	SERC	EIA-412
Griffin City of.....	Georgia	SERC	EIA-412
Groton City of.....	Connecticut	NPCC	EIA-412
Guntersville Electric Board.....	Alabama	SERC	EIA-412
Hagerstown City of.....	Maryland	ECAR	EIA-412
Hamilton City of.....	Ohio	ECAR	EIA-412
Hannibal City of.....	Missouri	MAIN	EIA-412
Harriman City of.....	Tennessee	SERC	EIA-412
Harrisonburg City of.....	Virginia	SERC	EIA-412
Hastings City of.....	Nebraska	MAPP	EIA-412
Henderson City Utility Comm.....	Kentucky	ECAR	EIA-412
High Point Town of.....	North Carolina	SERC	EIA-412
Hillsdale Board of Public Wks.....	Michigan	ECAR	EIA-412
Hingham City of.....	Massachusetts	NPCC	EIA-412
Holland City of.....	Michigan	ECAR	EIA-412
Holly Springs City of.....	Mississippi	SERC	EIA-412
Holyoke City of.....	Massachusetts	NPCC	EIA-412
Homestead City of.....	Florida	SERC	EIA-412
Hope City of.....	Arkansas	SPP	EIA-412
Hopkinsville City of.....	Kentucky	SERC	EIA-412
Hudson Town of.....	Massachusetts	NPCC	EIA-412
Humboldt City of.....	Tennessee	SERC	EIA-412
Huntsville City of.....	Alabama	SERC	EIA-412
Hutchinson Utilities Comm.....	Minnesota	MAPP	EIA-412
Idaho Falls City of.....	Idaho	WSCC	EIA-412
Illinois Municipal Elec Agency.....	Illinois	MAIN	EIA-412
Independence City of.....	Missouri	SPP	EIA-412
Intermountain Power Agency.....	Utah	WSCC	EIA-412
Jackson City of.....	Tennessee	SERC	EIA-412
Jacksonville Beach City of.....	Florida	SERC	EIA-412
Jacksonville Electric Auth.....	Florida	SERC	EIA-412
Jamestown City of.....	New York	NPCC	EIA-412
Jasper City of.....	Texas	SPP	EIA-412
Jasper City of.....	Indiana	ECAR	EIA-412
Jefferson City of.....	Wisconsin	MAIN	EIA-412
Johnson City City of.....	Tennessee	SERC	EIA-412
Jonesboro City of.....	Arkansas	SPP	EIA-412
Kansas City City of.....	Kansas	SPP	EIA-412
Kaukauna City of.....	Wisconsin	MAIN	EIA-412
Kennett City of.....	Missouri	SPP	EIA-412
Kerrville Public Utility Board.....	Texas	ERCOT	EIA-412
Ketchikan City of.....	Alaska	ASCC	EIA-412
Key West City of.....	Florida	SERC	EIA-412
Kinston City of.....	North Carolina	SERC	EIA-412
Kirkwood City of.....	Missouri	MAIN	EIA-412
Kissimmee Utility Authority.....	Florida	SERC	EIA-412
Knoxville Utilities Board.....	Tennessee	SERC	EIA-412
La Grange City of.....	Georgia	SERC	EIA-412
Lafayette City of.....	Louisiana	SPP	EIA-412
Lake Placid Village Inc.....	New York	NPCC	EIA-412
Lake Worth City of.....	Florida	SERC	EIA-412
Lakeland City of.....	Florida	SERC	EIA-412
Lansdale Borough of.....	Pennsylvania	MAAC	EIA-412
Lansing City of.....	Michigan	ECAR	EIA-412
Lassen Municipal Utility Dist.....	California	WSCC	EIA-412
Laurinburg City of.....	North Carolina	SERC	EIA-412
Lawrenceburg City of.....	Tennessee	SERC	EIA-412
Lawrenceville City of.....	Georgia	SERC	EIA-412
LaFollette City of.....	Tennessee	SERC	EIA-412
Lebanon City of.....	Indiana	ECAR	EIA-412
Lebanon City of.....	Tennessee	SERC	EIA-412
Lebanon City of.....	Missouri	SPP	EIA-412
Leesburg City of.....	Florida	SERC	EIA-412
Lenoir City City of.....	Tennessee	SERC	EIA-412
Lewisburg City of.....	Tennessee	SERC	EIA-412
Lexington City of.....	North Carolina	SERC	EIA-412
Lexington City of.....	Tennessee	SERC	EIA-412
Lincoln Electric System.....	Nebraska	MAPP	EIA-412
Littleton Town of.....	Massachusetts	NPCC	EIA-412
Lodi City of.....	California	WSCC	EIA-412
Logan City of.....	Utah	WSCC	EIA-412
Logansport City of.....	Indiana	ECAR	EIA-412
Longmont City of.....	Colorado	WSCC	EIA-412
Los Alamos County.....	New Mexico	WSCC	EIA-412
Los Angeles City of.....	California	WSCC	EIA-412

See footnotes at end of table.

Table B4. Municipal Utilities, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Loudon Utilities Board	Tennessee	SERC	EIA-412
Loveland City of	Colorado	WSCC	EIA-412
Lubbock City of	Texas	SPP	EIA-412
Lumberton City of	North Carolina	SERC	EIA-412
Madison Borough	New Jersey	MAAC	EIA-412
Madisonville Municipal Utils	Kentucky	ECAR	EIA-412
Manassas City of	Virginia	SERC	EIA-412
Manitowoc Public Utilities	Wisconsin	MAIN	EIA-412
Mansfield Town of	Massachusetts	NPCC	EIA-412
Marietta City of	Georgia	SERC	EIA-412
Marquette City of	Michigan	MAIN	EIA-412
Marshall City of	Minnesota	MAPP	EIA-412
Marshall City of	Missouri	SPP	EIA-412
Marshfield City of	Wisconsin	MAIN	EIA-412
Martinsville City of	Virginia	ECAR	EIA-412
Maryville Utilities	Tennessee	SERC	EIA-412
Massena Town of	New York	NPCC	EIA-412
McMinnville City of	Oregon	WSCC	EIA-412
McMinnville Electric System	Tennessee	SERC	EIA-412
McPherson City of	Kansas	SPP	EIA-412
Memphis City of	Tennessee	SERC	EIA-412
Menasha City of	Wisconsin	MAIN	EIA-412
Mesa City of	Arizona	WSCC	EIA-412
Metropolitan Water District	California	WSCC	EIA-412
Miami City of	Oklahoma	SPP	EIA-412
Middleborough Town of	Massachusetts	NPCC	EIA-412
Milan City of	Tennessee	SERC	EIA-412
Milford City of	Delaware	MAAC	EIA-412
Mishawaka City of	Indiana	ECAR	EIA-412
Monett City of	Missouri	SPP	EIA-412
Monroe City of	North Carolina	SERC	EIA-412
Moorhead City of	Minnesota	MAPP	EIA-412
Morgan City City of	Louisiana	SPP	EIA-412
Morganton City of	North Carolina	SERC	EIA-412
Morristown City of	Tennessee	SERC	EIA-412
Moultrie City of	Georgia	SERC	EIA-412
Municipal Energy Agency of MS	Mississippi	SPP	EIA-412
Murfreesboro City of	Tennessee	SERC	EIA-412
Murray City of	Utah	WSCC	EIA-412
Murray City of	Kentucky	SERC	EIA-412
Muscatine City of	Iowa	MAPP	EIA-412
Naperville City of	Illinois	MAIN	EIA-412
Napoleon City of	Ohio	ECAR	EIA-412
Nashville Electric Service	Tennessee	SERC	EIA-412
Natchitoches City of	Louisiana	SPP	EIA-412
New Albany City of	Mississippi	SERC	EIA-412
New Bern City of	North Carolina	SERC	EIA-412
New Braunfels City of	Texas	ERCOT	EIA-412
New London Electric&Water Util	Wisconsin	MAIN	EIA-412
New Smyrna Beach Utils Comm	Florida	SERC	EIA-412
New Ulm Public Utilities Comm	Minnesota	MAPP	EIA-412
Newark City of	Delaware	MAAC	EIA-412
Newberry City of	South Carolina	SERC	EIA-412
Newport City of	Tennessee	SERC	EIA-412
Niles City of	Ohio	ECAR	EIA-412
North Attleborough Town of	Massachusetts	NPCC	EIA-412
North Carolina Eastern M P A	North Carolina	SERC	EIA-412
North Carolina Mun Power Agny	North Carolina	SERC	EIA-412
North Little Rock City of	Arkansas	SPP	EIA-412
North Platte City of	Nebraska	MAPP	EIA-412
Norwich City of	Connecticut	NPCC	EIA-412
Norwood City of	Massachusetts	NPCC	EIA-412
Oak Ridge City of	Tennessee	SERC	EIA-412
Ocala City of	Florida	SERC	EIA-412
Oconomowoc City of	Wisconsin	MAIN	EIA-412
Okolona City of	Mississippi	SERC	RUS-7
Opelika City of	Alabama	SERC	EIA-412
Orangeburg City of	South Carolina	SERC	EIA-412
Orlando Utilities Comm	Florida	SERC	EIA-412
Orrville City of	Ohio	ECAR	EIA-412
Osceola City of	Arkansas	SPP	EIA-412
Owatonna City of	Minnesota	MAPP	EIA-412
Owensboro City of	Kentucky	ECAR	EIA-412
Paducah City of	Kentucky	ECAR	EIA-412
Painesville City of	Ohio	ECAR	EIA-412
Palo Alto City of	California	WSCC	EIA-412

See footnotes at end of table.

Table B4. Municipal Utilities, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Paragould Light & Water Comm.....	Arkansas	SPP	EIA-412
Paris City of.....	Tennessee	SERC	EIA-412
Pasadena City of.....	California	WSCC	EIA-412
Peabody City of.....	Massachusetts	NPCC	EIA-412
Pella City of.....	Iowa	MAPP	EIA-412
Peru City of.....	Indiana	ECAR	EIA-412
Piedmont Municipal Power Agny.....	South Carolina	SERC	EIA-412
Pierre City of.....	South Dakota	MAPP	EIA-412
Piqua City of.....	Ohio	ECAR	EIA-412
Plattsburgh City of.....	New York	NPCC	EIA-412
Plymouth City of.....	Wisconsin	MAIN	EIA-412
Ponca City City of.....	Oklahoma	SPP	EIA-412
Poplar Bluff City of.....	Missouri	SPP	EIA-412
Port Angeles City of.....	Washington	WSCC	EIA-412
Provo City Corp.....	Utah	WSCC	EIA-412
Pulaski City of.....	Tennessee	SERC	EIA-412
Quincy City of.....	Florida	SERC	EIA-412
Radford City of.....	Virginia	ECAR	EIA-412
Reading Town of.....	Massachusetts	NPCC	EIA-412
Redding City of.....	California	WSCC	EIA-412
Reedsburg Utility Comm.....	Wisconsin	MAPP	EIA-412
Reedy Creek Improvement Dist.....	Florida	SERC	EIA-412
Richland City of.....	Washington	WSCC	EIA-412
Richmond City of.....	Indiana	ECAR	EIA-412
Ripley City of.....	Tennessee	SERC	EIA-412
Riverside City of.....	California	WSCC	EIA-412
Rochelle Municipal Utilities.....	Illinois	MAIN	EIA-412
Rochester Public Utilities.....	Minnesota	MAPP	EIA-412
Rock Hill City of.....	South Carolina	SERC	EIA-412
Rockville Centre Village of.....	New York	NPCC	EIA-412
Rockwood City of.....	Tennessee	SERC	EIA-412
Rocky Mount City of.....	North Carolina	SERC	EIA-412
Rolla City of.....	Missouri	SPP	EIA-412
Roseville City of.....	California	WSCC	EIA-412
Ruston City of.....	Louisiana	SPP	EIA-412
Salem City of.....	Virginia	ECAR	EIA-412
San Antonio Public Service Bd.....	Texas	ERCOT	EIA-412
San Francisco City & County of.....	California	WSCC	EIA-412
San Marcos City of.....	Texas	ERCOT	EIA-412
Santa Clara City of.....	California	WSCC	EIA-412
Scottsboro City of.....	Alabama	SERC	EIA-412
Scottsburg City of.....	Indiana	ECAR	EIA-412
Seattle City of.....	Washington	WSCC	EIA-412
Seguin City of.....	Texas	ERCOT	EIA-412
Seneca City of.....	South Carolina	SERC	EIA-412
Shakopee Public Utilities Comm.....	Minnesota	MAPP	EIA-412
Shawano Municipal Utilities.....	Wisconsin	MAIN	EIA-412
Sheboygan Falls City of.....	Wisconsin	MAIN	EIA-412
Sheffield Utilities.....	Alabama	SERC	EIA-412
Shelby City of.....	North Carolina	SERC	EIA-412
Shelbyville City of.....	Tennessee	SERC	EIA-412
Shrewsbury Town of.....	Massachusetts	NPCC	EIA-412
Sikeston City of.....	Missouri	SPP	EIA-412
Siloam Springs City of.....	Arkansas	SPP	EIA-412
Solvay Village of.....	New York	NPCC	EIA-412
Springfield City of.....	Illinois	MAIN	EIA-412
Springfield City of.....	Tennessee	SERC	EIA-412
Springfield City of.....	Missouri	SPP	EIA-412
Springfield City of.....	Oregon	WSCC	EIA-412
St Charles City of.....	Illinois	MAIN	EIA-412
St Cloud City of.....	Florida	SERC	EIA-412
St George City of.....	Utah	WSCC	EIA-412
St Marys City of.....	Ohio	ECAR	EIA-412
Starkville City of.....	Mississippi	SERC	EIA-412
Statesville City of.....	North Carolina	SERC	EIA-412
Stillwater Utilities Authority.....	Oklahoma	SPP	EIA-412
Sturgeon Bay City of.....	Wisconsin	MAIN	EIA-412
Sturgis City of.....	Michigan	ECAR	EIA-412
Sun Prairie Water & Light Comm.....	Wisconsin	MAIN	EIA-412
Sylacauga Utilities Board.....	Alabama	SERC	EIA-412
Tacoma City of.....	Washington	WSCC	EIA-412
Tallahassee City of.....	Florida	SERC	EIA-412
Tarboro Town of.....	North Carolina	SERC	EIA-412
Taunton City of.....	Massachusetts	NPCC	EIA-412
Terrebonne Parish Consol Gov.....	Louisiana	SPP	EIA-412
Texas Municipal Power Agency.....	Texas	ERCOT	EIA-412

See footnotes at end of table.

Table B4. Municipal Utilities, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Thomasville City of.....	Georgia	SERC	EIA-412
Traverse City City of.....	Michigan	ECAR	EIA-412
Troy City of.....	Alabama	SERC	EIA-412
Tullahoma Board of Pub Utils.....	Tennessee	SERC	EIA-412
Tupelo City of.....	Mississippi	SERC	EIA-412
Turlock Irrigation District.....	California	WSCC	EIA-412
Union City City of.....	Tennessee	SERC	EIA-412
Vernon City of.....	California	WSCC	EIA-412
Vero Beach City of.....	Florida	SERC	EIA-412
Vineland City of.....	New Jersey	MAAC	EIA-412
Wadsworth City of.....	Ohio	ECAR	EIA-412
Wakefield Town of.....	Massachusetts	NPCC	EIA-412
Wallingford Town of.....	Connecticut	NPCC	EIA-412
Wapakoneta City of.....	Ohio	ECAR	EIA-412
Washington City of.....	Indiana	ECAR	EIA-412
Washington City of.....	North Carolina	SERC	EIA-412
Watertown Municipal Utilities.....	South Dakota	MAPP	EIA-412
Weakley County Mun Elec Sys.....	Tennessee	SERC	EIA-412
Weatherford Mun Utility System.....	Texas	ERCOT	EIA-412
Wellesley Town of.....	Massachusetts	NPCC	EIA-412
West Memphis City of.....	Arkansas	SPP	EIA-412
West Plains City of.....	Missouri	SPP	EIA-412
Western Minnesota Mun Pwr Agny.....	Minnesota	MAPP	EIA-412
Westerville City of.....	Ohio	ECAR	EIA-412
Westfield City of.....	Massachusetts	NPCC	EIA-412
Willmar Municipal Utils Comm.....	Minnesota	MAPP	EIA-412
Wilson City of.....	North Carolina	SERC	EIA-412
Winfield City of.....	Kansas	SPP	EIA-412
Wisconsin Public Power Inc Sys.....	Wisconsin	MAIN	EIA-412
Wisconsin Rapids W W & L Comm.....	Wisconsin	MAPP	EIA-412
Worthington City of.....	Minnesota	MAPP	EIA-412
Wyandotte Municipal Serv Comm.....	Michigan	ECAR	EIA-412
Zeeland City of.....	Michigan	ECAR	EIA-412

¹ The State in which the municipality is located.

² The principal North American Electric Reliability Council region in which the utility operates. See glossary for a list of all regions.

³ Source of data for this publication

Sources: •Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities." •Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

Table B5. Cooperative Borrowers, 1996

Utility	State ¹	NERC Region ²	Survey Form ³
A & N Electric Coop	Virginia	MAAC	RUS-7
Adams County Coop Electric Co	Iowa	MAPP	RUS-7
Adams Electric Coop Inc.....	Pennsylvania	MAAC	RUS-7
Adams Electrical Coop	Illinois	MAIN	RUS-7
Adams Rural Electric Coop Inc.....	Ohio	ECAR	RUS-7
Adams-Columbia Electric Coop	Wisconsin	MAIN	RUS-7
Agralite Coop	Minnesota	MAPP	RUS-7
Aiken Electric Coop Inc	South Carolina	SERC	RUS-7
Alabama Electric Coop Inc.....	Alabama	SERC	RUS-12
Alaska Electric G & T Coop Inc.....	Alaska	ASCC	RUS-12
Albemarle Electric Member Corp.....	North Carolina	SERC	RUS-7
Alfalfa Electric Coop Inc.....	Oklahoma	SPP	RUS-7
Alger-Delta Coop Electric Assn	Michigan	ECAR	RUS-7
Allamakee-Clayton El Coop Inc.....	Iowa	MAPP	RUS-7
Allegheny Electric Coop Inc.....	Pennsylvania	MAAC	RUS-12
Altamaha Electric Member Corp	Georgia	SERC	RUS-7
Amicalola Electric Member Corp.....	Georgia	SERC	RUS-7
Anza Electric Coop Inc.....	California	WSCC	RUS-7
Appalachian Electric Coop	Tennessee	SERC	RUS-7
Arab Electric Coop Inc	Alabama	SERC	RUS-7
Arizona Electric Pwr Coop Inc.....	Arizona	WSCC	RUS-12
Ark Valley Elec Coop Assn Inc.....	Kansas	SPP	RUS-7
Arkansas Electric Coop Corp	Arkansas	SPP	RUS-12
Arkansas Valley Elec Coop Corp.....	Arkansas	SPP	RUS-7
Arrowhead Electric Coop Inc	Minnesota	MAPP	RUS-7
Ashley Chicot Elec Coop Inc	Arkansas	SPP	RUS-7
Associated Electric Coop Inc.....	Missouri	SPP	RUS-12
Atchison-Holt Electric Coop.....	Missouri	SPP	RUS-7
B-K Electric Coop Inc	Texas	ERCOT	RUS-7
Bailey County Elec Coop Assn.....	Texas	SPP	RUS-7
Baker Electric Coop Inc.....	North Dakota	MAPP	RUS-7
Baldwin County El Member Corp.....	Alabama	SERC	RUS-7
Barry Electric Coop.....	Missouri	MAIN	RUS-7
Bartlett Electric Coop Inc	Texas	ERCOT	RUS-7
Barton County Elec Coop Inc.....	Missouri	SPP	RUS-7
Basin Electric Power Coop	North Dakota	WSCC	RUS-12
Bayfield Electric Coop Inc	Wisconsin	MAPP	RUS-7
Beartooth Electric Coop Inc	Montana	WSCC	RUS-7
Bedford Rural Elec Coop Inc	Pennsylvania	MAAC	RUS-7
Belfalls Electric Coop Inc	Texas	ERCOT	RUS-7
Beltrami Electric Coop Inc	Minnesota	MAPP	RUS-7
Benton Rural Electric Assn.....	Washington	WSCC	RUS-7
Berkeley Electric Coop Inc.....	South Carolina	SERC	RUS-7
Big Flat Electric Coop Inc.....	Montana	WSCC	RUS-7
Big Horn County Elec Coop Inc	Montana	WSCC	RUS-7
Big Horn Rural Electric Co	Wyoming	WSCC	RUS-7
Big Rivers Electric Corp.....	Kentucky	ECAR	RUS-12
Big Sandy Rural Elec Coop Corp	Kentucky	ECAR	RUS-7
Blachly-Lane Cnty Coop El Assn	Oregon	WSCC	RUS-7
Black Hills Electric Coop Inc.....	South Dakota	MAPP	RUS-7
Black River Electric Coop	Missouri	MAIN	RUS-7
Black River Electric Coop Inc.....	South Carolina	SERC	RUS-7
Black Warrior Elec Member Corp	Alabama	SERC	RUS-7
Blue Earth-Nicollet-Faribault.....	Minnesota	MAPP	RUS-7
Blue Grass Rural El Coop Corp.....	Kentucky	ECAR	RUS-7
Blue Ridge Elec Member Corp	North Carolina	SERC	RUS-7
Blue Ridge Electric Coop Inc.....	South Carolina	SERC	RUS-7
Blue Ridge Mountain E M C	Georgia	SERC	RUS-7
Bon Homme Yankton El Assn Inc.....	South Dakota	MAPP	RUS-7
Boone Electric Coop	Missouri	MAIN	RUS-7
Bowie-Cass Electric Coop Inc.....	Texas	SPP	RUS-7
Brazos Electric Power Coop Inc.....	Texas	ERCOT	RUS-12
Bridger Valley Elec Assn Inc	Wyoming	WSCC	RUS-7
Broad River Electric Coop Inc	South Carolina	SERC	RUS-7
Brown County Rural Elec Assn	Minnesota	MAPP	RUS-7
Brown-Atchison E C A Inc	Kansas	SPP	RUS-7
Brunswick Electric Member Corp.....	North Carolina	SERC	RUS-7
Buckeye Power Inc	Ohio	ECAR	RUS-12
Buckeye Rural Elec Coop Inc	Ohio	ECAR	RUS-7
Burke-Divide Electric Coop Inc	North Dakota	MAPP	RUS-7
Butler County Rural Elec Coop.....	Iowa	MAPP	RUS-7
Butler Rural El Coop Assn Inc.....	Kansas	SPP	RUS-7
Butler Rural Electric Coop Inc	Ohio	ECAR	RUS-7
Butte Electric Coop Inc.....	South Dakota	MAPP	RUS-7
BARC Electric Coop Inc	Virginia	SERC	RUS-7
C & L Electric Coop Corp	Arkansas	SPP	RUS-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
C & W Rural Elec Coop Assn Inc.....	Kansas	SPP	RUS-7
Caddo Electric Coop Inc.....	Oklahoma	SPP	RUS-7
Cajun Electric Power Coop Inc.....	Louisiana	SPP	RUS-12
Calhoun County Elec Coop Assn.....	Iowa	MAPP	RUS-7
Callaway Electric Coop.....	Missouri	SPP	RUS-7
Cam Wal Electric Coop Inc.....	South Dakota	MAPP	RUS-7
Canadian Valley Elec Coop Inc.....	Oklahoma	SPP	RUS-7
Caney Fork Electric Coop Inc.....	Tennessee	SERC	RUS-7
Caney Valley El Coop Assn Inc.....	Kansas	SPP	RUS-7
Canoochee Electric Member Corp.....	Georgia	SERC	RUS-7
Cape Hatteras Elec Member Corp.....	North Carolina	SERC	RUS-7
Capital Electric Coop Inc.....	North Dakota	MAPP	RUS-7
Carbon Power & Light Inc.....	Wyoming	WSCC	RUS-7
Carlton County Coop Power Assn.....	Minnesota	MAPP	RUS-7
Carroll Electric Coop Corp.....	Arkansas	SPP	RUS-7
Carroll Electric Coop Inc.....	Ohio	ECAR	RUS-7
Carroll Electric Member Corp.....	Georgia	SERC	RUS-7
Carteret-Craven El Member Corp.....	North Carolina	SERC	RUS-7
Cass County Electric Coop Inc.....	North Dakota	MAPP	RUS-7
Cavalier Rural Elec Coop Inc.....	North Dakota	MAPP	RUS-7
Cedar Valley Electric Coop.....	Iowa	MAPP	RUS-7
Central Alabama Electric Coop.....	Alabama	SERC	RUS-7
Central Electric Coop Inc.....	Pennsylvania	MAAC	RUS-7
Central Electric Member Corp.....	North Carolina	SERC	RUS-7
Central Electric Power Assn.....	Mississippi	SERC	RUS-7
Central Electric Power Coop.....	Missouri	MAIN	RUS-12
Central Electric Pwr Coop Inc.....	South Carolina	SERC	RUS-12
Central Florida Elec Coop Inc.....	Florida	SERC	RUS-7
Central Georgia El Member Corp.....	Georgia	SERC	RUS-7
Central Iowa Power Coop.....	Iowa	MAPP	RUS-12
Central Missouri Elec Coop Inc.....	Missouri	MAIN	RUS-7
Central New Mexico El Coop Inc.....	New Mexico	WSCC	RUS-7
Central Power Elec Coop Inc.....	North Dakota	MAPP	RUS-12
Central Rural Electric Coop.....	Oklahoma	SPP	RUS-7
Central Texas Elec Coop Inc.....	Texas	ERCOT	RUS-7
Central Valley Elec Coop Inc.....	New Mexico	SPP	RUS-7
Central Virginia Electric Coop.....	Virginia	SERC	RUS-7
Central Wisconsin Elec Coop.....	Wisconsin	MAIN	RUS-7
Chariton Valley Elec Coop Inc.....	Iowa	MAPP	RUS-7
Charles Mix Electric Assn Inc.....	South Dakota	MAPP	RUS-7
Cherokee County Elec Coop Assn.....	Texas	ERCOT	RUS-7
Cherokee Electric Coop.....	Alabama	SERC	RUS-7
Cherry-Todd Electric Coop Inc.....	South Dakota	MAPP	RUS-7
Cherryland Electric Coop Inc.....	Michigan	ECAR	RUS-7
Chickasaw Electric Coop Inc.....	Tennessee	SERC	RUS-7
Chippewa Valley Electric Coop.....	Wisconsin	MAPP	RUS-7
Choctaw Electric Coop Inc.....	Oklahoma	SPP	RUS-7
Choctawhatche Elec Coop Inc.....	Florida	SERC	RUS-7
Choptank Electric Coop Inc.....	Maryland	MAAC	RUS-7
Cimarron Electric Coop.....	Oklahoma	SPP	RUS-7
Citizens Electric Corp.....	Missouri	SPP	RUS-7
Claiborne Electric Coop Inc.....	Louisiana	SPP	RUS-7
Clark Electric Coop.....	Wisconsin	MAPP	RUS-7
Clark Rural Electric Coop Corp.....	Kentucky	ECAR	RUS-7
Clarke Electric Coop Inc.....	Iowa	MAPP	RUS-7
Clarke-Washington E M C.....	Alabama	SERC	RUS-7
Claverack Rural Elec Coop Inc.....	Pennsylvania	MAAC	RUS-7
Clay County Electric Coop Corp.....	Arkansas	SPP	RUS-7
Clay Electric Coop Inc.....	Illinois	MAIN	RUS-7
Clay Electric Coop Inc.....	Florida	SERC	RUS-7
Clay-Union Electric Corp.....	South Dakota	MAPP	RUS-7
Clearwater Power Co.....	Idaho	WSCC	RUS-7
Clearwater-Polk Elec Coop Inc.....	Minnesota	MAPP	RUS-7
Clinton County Elec Coop Inc.....	Illinois	MAIN	RUS-7
Cloverland Electric Coop.....	Michigan	ECAR	RUS-7
Coahoma Electric Power Assn.....	Mississippi	SPP	RUS-7
Coast Electric Power Assn.....	Mississippi	SERC	RUS-7
Coastal Electric Coop Inc.....	South Carolina	SERC	RUS-7
Coastal Electric Member Corp.....	Georgia	SERC	RUS-7
Codington-Clark Elec Coop Inc.....	South Dakota	MAPP	RUS-7
Coleman County Elec Coop Inc.....	Texas	ERCOT	RUS-7
Coles-Moultrie Electric Coop.....	Illinois	MAIN	RUS-7
Colquitt Electric Members Corp.....	Georgia	SERC	RUS-7
Columbia Basin Elec Coop Inc.....	Oregon	WSCC	RUS-7
Columbia Power Coop Assn Inc.....	Oregon	WSCC	RUS-7
Columbia Rural Elec Assn Inc.....	Washington	WSCC	RUS-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Columbus Electric Coop Inc.....	New Mexico	WSCC	RUS-7
Comanche County Elec Coop Assn.....	Texas	ERCOT	RUS-7
Community Electric Coop.....	Virginia	SERC	RUS-7
Concordia Electric Coop Inc.....	Louisiana	SPP	RUS-7
Consolidated Electric Coop.....	Missouri	SPP	RUS-7
Consumers Power Inc.....	Oregon	WSCC	RUS-7
Continental Divide El Coop Inc.....	New Mexico	WSCC	RUS-7
Cookson Hills Elec Coop Inc.....	Oklahoma	SPP	RUS-7
Coop L & P Assn of Lake County.....	Minnesota	MAPP	RUS-7
Coop Power Assn.....	Minnesota	MAPP	RUS-12
Coos-Curry Electric Coop Inc.....	Oregon	WSCC	RUS-7
Coosa Valley Electric Coop Inc.....	Alabama	SERC	RUS-7
Copper Valley Elec Assn Inc.....	Alaska	ASCC	RUS-7
Corn Belt Power Coop.....	Iowa	MAPP	RUS-12
Cotton Electric Coop Inc.....	Oklahoma	SPP	RUS-7
Covington Electric Coop Inc.....	Alabama	SERC	RUS-7
Coweta-Fayette El Member Corp.....	Georgia	SERC	RUS-7
Craig-Botetourt Electric Coop.....	Virginia	ECAR	RUS-7
Craighead Electric Coop Corp.....	Arkansas	SPP	RUS-7
Crawford Electric Coop.....	Wisconsin	MAPP	RUS-7
Crawford Electric Coop Inc.....	Missouri	SPP	RUS-7
Crescent Electric Member Corp.....	North Carolina	SERC	RUS-7
Crow Wing Coop Power&Light Co.....	Minnesota	MAPP	RUS-7
Cullman Electric Coop Inc.....	Alabama	SERC	RUS-7
Cumberland Elec Member Corp.....	Tennessee	SERC	RUS-7
Cumberland Valley Rural E C C.....	Kentucky	SERC	RUS-7
CMS Electric Coop Inc.....	Kansas	SPP	RUS-7
CO-MO Electric Coop Inc.....	Missouri	MAIN	RUS-7
D S & O Rural E C A Inc.....	Kansas	SPP	RUS-7
Dairyland Electric Coop Inc.....	Minnesota	MAPP	RUS-7
Dairyland Power Coop.....	Wisconsin	MAPP	RUS-12
Dakota Energy Coop Inc.....	South Dakota	MAPP	RUS-7
Darke Rural Electric Coop Inc.....	Ohio	ECAR	RUS-7
Davidson Electric Member Corp.....	North Carolina	SERC	RUS-7
Daviess Martin County R E M C.....	Indiana	ECAR	RUS-7
Decatur County Rural E M C.....	Indiana	ECAR	RUS-7
Deep East Texas Elec Coop Inc.....	Texas	ERCOT	RUS-7
Delaware County Elec Coop Inc.....	New York	NPCC	RUS-7
Delaware Electric Coop Inc.....	Delaware	MAAC	RUS-7
Delta Montrose Electric Assn.....	Colorado	WSCC	RUS-7
Dewitt Electric Coop Inc.....	Texas	ERCOT	RUS-7
Dixie Electric Coop.....	Alabama	SERC	RUS-7
Dixie Electric Membership Corp.....	Louisiana	SPP	RUS-7
Dixie Electric Power Assn.....	Mississippi	SERC	RUS-7
Doniphan Elec Coop Assn Inc.....	Kansas	SPP	RUS-7
Douglas Electric Coop Inc.....	Oregon	WSCC	RUS-7
Douglas Electric Coop Inc.....	South Dakota	MAPP	RUS-7
Dubois Rural Electric Coop Inc.....	Indiana	ECAR	RUS-7
Duck River Elec Member Corp.....	Tennessee	SERC	RUS-7
Duncan Valley Elec Coop Inc.....	Arizona	WSCC	RUS-7
Dunn County Electric Coop.....	Wisconsin	MAPP	RUS-7
East Central Electric Assn.....	Minnesota	MAPP	RUS-7
East Central Okla El Coop Inc.....	Oklahoma	SPP	RUS-7
East Kentucky Power Coop Inc.....	Kentucky	ECAR	RUS-12
East Mississippi Elec Pwr Assn.....	Mississippi	SERC	RUS-7
East River Elec Power Coop Inc.....	South Dakota	MAPP	RUS-12
East-Central Iowa Rrl El Coop.....	Iowa	MAPP	RUS-7
Eastern Illini Electric Coop.....	Illinois	MAIN	RUS-7
Eastern Iowa Light&Power Coop.....	Iowa	MAPP	RUS-7
Eastern Maine Electric Coop.....	Maine	NPCC	RUS-7
Edgecombe-Martin County E M C.....	North Carolina	SERC	RUS-7
Edisto Electric Coop Inc.....	South Carolina	SERC	RUS-7
Egyptian Electric Coop Assn.....	Illinois	MAIN	RUS-7
Empire Electric Assn Inc.....	Colorado	WSCC	RUS-7
Erath County Elec Coop Assn.....	Texas	ERCOT	RUS-7
Escambia River Elec Coop Inc.....	Florida	SERC	RUS-7
Excelsior Electric Member Corp.....	Georgia	SERC	RUS-7
Fairfield Electric Coop Inc.....	South Carolina	SERC	RUS-7
Fannin County Electric Coop.....	Texas	ERCOT	RUS-7
Farmers Electric Coop Corp.....	Arkansas	SPP	RUS-7
Farmers Electric Coop Inc.....	Iowa	MAPP	RUS-7
Farmers Mutual Electric Co.....	Illinois	MAIN	RUS-7
Farmers Rural Elec Coop Corp.....	Kentucky	ECAR	RUS-7
Farmers ' Electric Coop Inc.....	Missouri	SPP	RUS-7
Farmers ' Electric Coop Inc.....	New Mexico	WSCC	RUS-7
Federated Rural Electric Assn.....	Minnesota	MAPP	RUS-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Fergus Electric Coop Inc	Montana	WSCC	RUS-7
Firelands Electric Coop Inc	Ohio	ECAR	RUS-7
First Electric Coop Corp	Arkansas	SPP	RUS-7
Fleming-Mason Rural E C C	Kentucky	ECAR	RUS-7
Flint Electric Membership Corp	Georgia	SERC	RUS-7
Flint Hills Rural E C A Inc	Kansas	SPP	RUS-7
Forked Deer Electric Coop Inc	Tennessee	SERC	RUS-7
Fort Loudoun Electric Coop	Tennessee	SERC	RUS-7
Four County Elec Member Corp	North Carolina	SERC	RUS-7
Fox Creek Rural Elec Coop Corp	Kentucky	ECAR	RUS-7
Fox Islands Electric Coop Inc	Maine	NPCC	RUS-7
Franklin Electric Coop	Alabama	SERC	RUS-7
Franklin Rural Electric Coop	Iowa	MAPP	RUS-7
Freeborn-Mower Electric Coop	Minnesota	MAPP	RUS-7
French Broad Elec Member Corp	North Carolina	SERC	RUS-7
Frontier Power Co	Ohio	ECAR	RUS-7
Fruit Belt Electric Coop	Michigan	ECAR	RUS-7
Fulton County Rural E M C	Indiana	ECAR	RUS-7
FEM Electric Assn Inc	South Dakota	MAPP	RUS-7
Garkane Power Assn Inc	Utah	WSCC	RUS-7
Garland Light & Power Co	Wyoming	WSCC	RUS-7
Gascosage Electric Coop	Missouri	MAIN	RUS-7
Gate City Electric Coop Inc	Texas	ERCOT	RUS-7
Gibson Electric Members Corp	Tennessee	SERC	RUS-7
Glades Electric Coop Inc	Florida	SERC	RUS-7
Glidden Rural Electric Coop	Iowa	MAPP	RUS-7
Golden Valley Elec Assn Inc	Alaska	ASCC	RUS-7
Goldenwest Electric Coop Inc	Montana	WSCC	RUS-7
Goodhue County Coop Elec Assn	Minnesota	MAPP	RUS-7
Grady County Elec Member Corp	Georgia	SERC	RUS-7
Grand Electric Coop Inc	South Dakota	MAPP	RUS-7
Grand Valley Rrl Pwr Line Inc	Colorado	WSCC	RUS-7
Grant-Lafayette Electric Coop	Wisconsin	MAPP	RUS-7
Grayson Rural Elec Coop Corp	Kentucky	ECAR	RUS-7
Grayson-Collin Elec Coop Inc	Texas	ERCOT	RUS-7
Green River Electric Corp	Kentucky	ECAR	RUS-7
Greenbelt Electric Coop Inc	Texas	SPP	RUS-7
GreyStone Power Corp	Georgia	SERC	RUS-7
Grundy County Rural Elec Coop	Iowa	MAPP	RUS-7
Grundy Electric Coop Inc	Missouri	SPP	RUS-7
Guernsey-Muskingum El Coop Inc	Ohio	ECAR	RUS-7
Gulf Coast Electric Coop Inc	Florida	SERC	RUS-7
Guthrie County Rural E C A	Iowa	MAPP	RUS-7
H-D Electric Coop Inc	South Dakota	MAPP	RUS-7
Habersham Electric Member Corp	Georgia	SERC	RUS-7
Halifax Electric Member Corp	North Carolina	SERC	RUS-7
Hamilton County Elec Coop Assn	Texas	ERCOT	RUS-7
Hancock County Rural Elec Coop	Iowa	MAPP	RUS-7
Hancock-Wood Electric Coop Inc	Ohio	ECAR	RUS-7
Harkers Island El Member Corp	North Carolina	SERC	RUS-7
Harmon Electric Assn Inc	Oklahoma	SPP	RUS-7
Harney Electric Coop Inc	Oregon	WSCC	RUS-7
Harrison County Rrl Elec Coop	Iowa	MAPP	RUS-7
Harrison County Rural E C C	Kentucky	ECAR	RUS-7
Harrison County Rural E M C	Indiana	ECAR	RUS-7
Harrison Rural Elec Assn Inc	West Virginia	ECAR	RUS-7
Hart Electric Member Corp	Georgia	SERC	RUS-7
Hawkeye Tri-County El Coop Inc	Iowa	MAPP	RUS-7
Haywood Electric Member Corp	North Carolina	SERC	RUS-7
Head of Lakes Electric Coop	Wisconsin	MAPP	RUS-7
Henderson-Union Elec Coop Corp	Kentucky	ECAR	RUS-7
Hickman-Fulton Counties RECC	Kentucky	ECAR	RUS-7
Highline Electric Assn	Colorado	WSCC	RUS-7
Hill County Electric Coop Inc	Montana	WSCC	RUS-7
Holmes-Wayne Electric Coop Inc	Ohio	ECAR	RUS-7
Holston Electric Coop Inc	Tennessee	SERC	RUS-7
Holy Cross Electric Assn Inc	Colorado	WSCC	RUS-7
Homer Electric Assn Inc	Alaska	ASCC	RUS-7
Hoosier Energy R E C Inc	Indiana	ECAR	RUS-12
Horry Electric Coop Inc	South Carolina	SERC	RUS-7
Hot Springs Rural El Assn Inc	Wyoming	WSCC	RUS-7
Houston County Elec Coop Inc	Texas	ERCOT	RUS-7
Howard Electric Coop	Missouri	SPP	RUS-7
Howell-Oregon Elec Coop Inc	Missouri	SPP	RUS-7
Humboldt County R E C	Iowa	MAPP	RUS-7
Ida County Rural Electric Coop	Iowa	MAPP	RUS-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Idaho Cnty L&P Coop Assn Inc	Idaho	WSCC	RUS-7
Illinois Rural Electric Co	Illinois	MAIN	RUS-7
Indian Electric Coop Inc	Oklahoma	SPP	RUS-7
Inter County Rural E C C	Kentucky	ECAR	RUS-7
Intercounty Electric Assn Inc	South Dakota	MAPP	RUS-7
Intercounty Electric Coop Assn	Missouri	SPP	RUS-7
Iowa Lakes Electric Coop	Iowa	MAPP	RUS-7
Irwin Electric Membership Corp	Georgia	SERC	RUS-7
Itasca-Mantrap Co-op Elec Assn	Minnesota	MAPP	RUS-7
J-A-C Electric Coop Inc	Texas	ERCOT	RUS-7
Jackson County Rural E C C	Kentucky	ECAR	RUS-7
Jackson County Rural E M C	Indiana	ECAR	RUS-7
Jackson Electric Coop Inc	Wisconsin	MAPP	RUS-7
Jackson Electric Coop Inc	Texas	ERCOT	RUS-7
Jackson Electric Member Corp	Georgia	SERC	RUS-7
Jackson Purchase El Coop Corp	Kentucky	ECAR	RUS-7
James Valley Electric Coop Inc	North Dakota	MAPP	RUS-7
Jasper County Rural E M C	Indiana	ECAR	RUS-7
Jasper-Newton Elec Coop Inc	Texas	SPP	RUS-7
Jay County Rural E M C	Indiana	ECAR	RUS-7
Jefferson Davis Elec Coop Inc	Louisiana	SPP	RUS-7
Jefferson Electric Member Corp	Georgia	SERC	RUS-7
Jemez Mountains Elec Coop Inc	New Mexico	WSCC	RUS-7
Jewell-Mitchell Coop Elec Inc	Kansas	SPP	RUS-7
Jo-Carroll Electric Coop Inc	Illinois	MAPP	RUS-7
Joe Wheeler Elec Member Corp	Alabama	SERC	RUS-7
Johnson County Elec Coop Assn	Texas	ERCOT	RUS-7
Johnson County Rural E M C	Indiana	ECAR	RUS-7
Jump River Electric Coop Inc	Wisconsin	MAPP	RUS-7
K C Electric Assn	Colorado	WSCC	RUS-7
Kandiyohi Coop Elec Power Assn	Minnesota	MAPP	RUS-7
Kankakee Valley Rural E M C	Indiana	ECAR	RUS-7
Kansas Electric Power Coop Inc	Kansas	SPP	RUS-12
Karnes Electric Coop Inc	Texas	ERCOT	RUS-7
Kaw Valley Electric Coop Inc	Kansas	SPP	RUS-7
Kay Electric Coop	Oklahoma	SPP	RUS-7
Kimble Electric Coop Inc	Texas	ERCOT	RUS-7
Kingsbury Electric Coop Inc	South Dakota	MAPP	RUS-7
Kit Carson Electric Coop Inc	New Mexico	WSCC	RUS-7
Kiwash Electric Coop Inc	Oklahoma	SPP	RUS-7
Knox County Rural E M C	Indiana	ECAR	RUS-7
Kodiak Electric Assn Inc	Alaska	ASCC	RUS-7
Kootenai Electric Coop Inc	Idaho	WSCC	RUS-7
KAMO Electric Coop Inc	Oklahoma	SPP	RUS-12
KEM Electric Coop Inc	North Dakota	MAPP	RUS-7
L & O Power Coop	Iowa	MAPP	RUS-12
La Plata Electric Assn Inc	Colorado	WSCC	RUS-7
Laclede Electric Coop Inc	Missouri	SPP	RUS-7
Lagrange County Rural E M C	Indiana	ECAR	RUS-7
Lake Region Coop Elec Assn	Minnesota	MAPP	RUS-7
Lake Region Electric Assn Inc	South Dakota	MAPP	RUS-7
Lake Region Electric Coop Inc	Oklahoma	SPP	RUS-7
Lamar County Elec Coop Assn	Texas	ERCOT	RUS-7
Lamar Electric Membership Corp	Georgia	SERC	RUS-7
Lamb County Electric Coop Inc	Texas	SPP	RUS-7
Lane Electric Coop Inc	Oregon	WSCC	RUS-7
Lane-Scott Electric Coop Inc	Kansas	SPP	RUS-7
Laurens Electric Coop Inc	South Carolina	SERC	RUS-7
LaCreek Electric Assn Inc	South Dakota	MAPP	RUS-7
Lea County Electric Coop Inc	New Mexico	SPP	RUS-7
Leavenworth-Jefferson E C Inc	Kansas	SPP	RUS-7
Lewis County Rural E C A	Missouri	MAIN	RUS-7
Licking Valley Rural E C C	Kentucky	ECAR	RUS-7
Lighthouse Electric Coop Inc	Texas	SPP	RUS-7
Lincoln Electric Coop Inc	Montana	WSCC	RUS-7
Lincoln-Union Electric Co	South Dakota	MAPP	RUS-7
Linn County Rural E C A	Iowa	MAPP	RUS-7
Little Ocmulgee El Member Corp	Georgia	SERC	RUS-7
Little River Electric Coop Inc	South Carolina	SERC	RUS-7
Logan Cnty Coop P&L Assn Inc	Ohio	ECAR	RUS-7
Lorain-Medina R E C Inc	Ohio	ECAR	RUS-7
Lost River Electric Coop Inc	Idaho	WSCC	RUS-7
Lower Yellowstone R E A Inc	Montana	MAPP	RUS-7
Lumbee River Elec Member Corp	North Carolina	SERC	RUS-7
Lynches River Elec Coop Inc	South Carolina	SERC	RUS-7
Lyntegar Electric Coop Inc	Texas	SPP	RUS-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Lyon Rural Electric Coop.....	Iowa	MAPP	RUS-7
Lyon-Coffey Electric Coop Inc.....	Kansas	SPP	RUS-7
Lyon-Lincoln Electric Coop Inc.....	Minnesota	MAPP	RUS-7
M & A Electric Power Coop.....	Missouri	SPP	RUS-12
M J M Electric Coop Inc.....	Illinois	MAIN	RUS-7
Macon Electric Coop.....	Missouri	SPP	RUS-7
Magic Valley Electric Coop Inc.....	Texas	ERCOT	RUS-7
Magnolia Electric Power Assn.....	Mississippi	SPP	RUS-7
Maquoketa Valley Rrl Elec Coop.....	Iowa	MAPP	RUS-7
Marias River Electric Coop Inc.....	Montana	WSCC	RUS-7
Marion Rural Electric Coop Inc.....	Ohio	ECAR	RUS-7
Marlboro Electric Coop Inc.....	South Carolina	SERC	RUS-7
Marshall County Rrl Elec Coop.....	Iowa	MAPP	RUS-7
Marshall County Rural E M C.....	Indiana	ECAR	RUS-7
McCone Electric Coop Inc.....	Montana	WSCC	RUS-7
McCook Electric Coop Inc.....	South Dakota	MAPP	RUS-7
McCulloch Electric Coop Inc.....	Texas	ERCOT	RUS-7
McDonough Power Coop.....	Illinois	MAIN	RUS-7
McKenzie Electric Coop Inc.....	North Dakota	MAPP	RUS-7
McLean Electric Coop Inc.....	North Dakota	MAPP	RUS-7
McLennan County Elec Coop Inc.....	Texas	ERCOT	RUS-7
McLeod Coop Power Assn.....	Minnesota	MAPP	RUS-7
Meade County Rural E C C.....	Kentucky	ECAR	RUS-7
Mecklenburg Electric Coop Inc.....	Virginia	SERC	RUS-7
Medina Electric Coop Inc.....	Texas	ERCOT	RUS-7
Meeker Coop Light & Power Assn.....	Minnesota	MAPP	RUS-7
Menard Electric Coop.....	Illinois	MAIN	RUS-7
Meriwether Lewis Electric Coop.....	Tennessee	SERC	RUS-7
Mid-Carolina Electric Coop Inc.....	South Carolina	SERC	RUS-7
Mid-Yellowstone Elec Coop Inc.....	Montana	WSCC	RUS-7
Middle Georgia El Member Corp.....	Georgia	SERC	RUS-7
Middle Tennessee E M C.....	Tennessee	SERC	RUS-7
Midland Power Coop.....	Iowa	MAPP	RUS-7
Midstate Electric Coop Inc.....	Oregon	WSCC	RUS-7
Midwest Electric Coop Inc.....	Texas	ERCOT	RUS-7
Midwest Electric Inc.....	Ohio	ECAR	RUS-7
Midwest Electric Member Corp.....	Nebraska	MAPP	RUS-7
Mille Lacs Electric Coop.....	Minnesota	MAPP	RUS-7
Minnesota Valley Coop L&P Assn.....	Minnesota	MAPP	RUS-7
Minnesota Valley Electric Coop.....	Minnesota	MAPP	RUS-7
Minnkota Power Coop Inc.....	North Dakota	MAPP	RUS-12
Mississippi Cnty Elec Coop Inc.....	Arkansas	SPP	RUS-7
Missoula Electric Coop Inc.....	Montana	WSCC	RUS-7
Missouri Rural Electric Coop.....	Missouri	MAIN	RUS-7
Mohave Electric Coop Inc.....	Arizona	WSCC	RUS-7
Monona County Rural Elec Coop.....	Iowa	MAPP	RUS-7
Monroe County Elec Coop Inc.....	Illinois	MAIN	RUS-7
Monroe County Elec Power Assn.....	Mississippi	SERC	RUS-7
Mor-Gran-Sou Electric Coop Inc.....	North Dakota	MAPP	RUS-7
Mora-San Miguel Elec Coop Inc.....	New Mexico	WSCC	RUS-7
Moreau-Grand Electric Coop Inc.....	South Dakota	MAPP	RUS-7
Morgan County Rural Elec Assn.....	Colorado	WSCC	RUS-7
Morrow Electric Coop Inc.....	Ohio	ECAR	RUS-7
Mountain Electric Coop Inc.....	Tennessee	SERC	RUS-7
Mountain Parks Electric Inc.....	Colorado	WSCC	RUS-7
Mountain View Elec Assn Inc.....	Colorado	WSCC	RUS-7
Mountrail-Williams Elec Coop.....	North Dakota	MAPP	RUS-7
Mt Wheeler Power Inc.....	Nevada	WSCC	RUS-7
N C K Electric Coop Inc.....	Kansas	SPP	RUS-7
N W Electric Power Coop Inc.....	Missouri	SPP	RUS-12
National Chemical Corp.....	Alabama	SERC	RUS-7
Navarro County Elec Coop Inc.....	Texas	ERCOT	RUS-7
Navapache Electric Coop Inc.....	Arizona	WSCC	RUS-7
Nebraska Electric G&T Coop Inc.....	Nebraska	MAPP	RUS-12
Nemaha-Marshall E C A Inc.....	Kansas	SPP	RUS-7
Nespelem Valley Elec Coop Inc.....	Washington	WSCC	RUS-7
New Era Electric Coop Inc.....	Texas	ERCOT	RUS-7
New Hampshire Elec Coop Inc.....	New Hampshire	NPCC	RUS-7
New-Mac Electric Coop Inc.....	Missouri	MAIN	RUS-7
Newberry Electric Coop Inc.....	South Carolina	SERC	RUS-7
Newton County Rural E M C.....	Indiana	ECAR	RUS-7
Ninnesah Rural E C A Inc.....	Kansas	SPP	RUS-7
Niobrara Electric Assn Inc.....	Wyoming	WSCC	RUS-7
Nobles Coop Electric.....	Minnesota	MAPP	RUS-7
Nodak Electric Coop Inc.....	North Dakota	MAPP	RUS-7
Nodaway Worth Elec Coop Inc.....	Missouri	SPP	RUS-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Nolin Rural Electric Coop Corp.....	Kentucky	ECAR	RUS-7
North Alabama Electric Coop.....	Alabama	SERC	RUS-7
North Arkansas Elec Coop Inc.....	Arkansas	SPP	RUS-7
North Carolina El Member Corp.....	North Carolina	SERC	RUS-12
North Central Elec Coop Inc.....	Ohio	ECAR	RUS-7
North Central Elec Coop Inc.....	North Dakota	MAPP	RUS-7
North Central MO Elec Coop Inc.....	Missouri	SPP	RUS-7
North East Mississippi E P A.....	Mississippi	SERC	RUS-7
North Georgia Elec Member Corp.....	Georgia	SERC	RUS-7
North Itasca Electric Coop Inc.....	Minnesota	MAPP	RUS-7
North Plains Electric Coop Inc.....	Texas	SPP	RUS-7
North Star Electric Coop Inc.....	Minnesota	MAPP	RUS-7
North Western Elec Coop Inc.....	Ohio	ECAR	RUS-7
Northcentral Mississippi E P A.....	Mississippi	SERC	RUS-7
Northeast Louisiana Power Coop.....	Louisiana	SPP	RUS-7
Northeast Missouri El Pwr Coop.....	Missouri	MAIN	RUS-12
Northeast Oklahoma El Coop Inc.....	Oklahoma	SPP	RUS-7
Northeast Texas Elec Coop Inc.....	Texas	SPP	RUS-12
Northeastern Rural E M C.....	Indiana	ECAR	RUS-7
Northern Electric Coop Assn.....	Minnesota	MAPP	RUS-7
Northern Electric Coop Inc.....	Montana	WSCC	RUS-7
Northern Electric Coop Inc.....	South Dakota	MAPP	RUS-7
Northern Lights Inc.....	Idaho	WSCC	RUS-7
Northern Neck Elec Coop Inc.....	Virginia	SERC	RUS-7
Northern Rio Arriba E C Inc.....	New Mexico	WSCC	RUS-7
Northern Virginia Elec Coop.....	Virginia	SERC	RUS-7
Northfork Electric Coop Inc.....	Oklahoma	SPP	RUS-7
Northwest Iowa Power Coop.....	Iowa	MAPP	RUS-12
Northwest Kansas E C A Inc.....	Kansas	SPP	RUS-7
Northwest Missouri El Coop Inc.....	Missouri	MAIN	RUS-7
Northwestern Electric Coop Inc.....	Oklahoma	SPP	RUS-7
Northwestern Rural E C A Inc.....	Pennsylvania	MAAC	RUS-7
Norton-Decatur Coop El Co Inc.....	Kansas	SPP	RUS-7
Nueces Electric Coop Inc.....	Texas	ERCOT	RUS-7
Nyman Electric Coop Inc.....	Iowa	MAPP	RUS-7
O & A Electric Coop.....	Michigan	ECAR	RUS-7
Oahe Electric Coop Inc.....	South Dakota	MAPP	RUS-7
Oakdale Electric Coop.....	Wisconsin	MAPP	RUS-7
Ocmulgee Electric Member Corp.....	Georgia	SERC	RUS-7
Oconee Electric Member Corp.....	Georgia	SERC	RUS-7
Oconto Electric Coop.....	Wisconsin	MAIN	RUS-7
Oglethorpe Power Corp.....	Georgia	SERC	RUS-12
Okanogan County Elec Coop Inc.....	Washington	WSCC	RUS-7
Okefenoke Rural El Member Corp.....	Georgia	SERC	RUS-7
Oliver-Mercer Elec Coop Inc.....	North Dakota	MAPP	RUS-7
Oneida-Madison Elec Coop Inc.....	New York	NPCC	RUS-7
Ontonagon County R E A.....	Michigan	MAIN	RUS-7
Orange County Rural E M C.....	Indiana	ECAR	RUS-7
Orcas Power & Light Co.....	Washington	WSCC	RUS-7
Osage Valley Elec Coop Assn.....	Missouri	SPP	RUS-7
Osceola Electric Coop Inc.....	Iowa	MAPP	RUS-7
Otero County Electric Coop Inc.....	New Mexico	WSCC	RUS-7
Otsego Electric Coop Inc.....	New York	NPCC	RUS-7
Ouachita Electric Coop Corp.....	Arkansas	SPP	RUS-7
Owen Electric Coop Inc.....	Kentucky	ECAR	RUS-7
Ozark Border Electric Coop.....	Missouri	SPP	RUS-7
Ozark Electric Coop Inc.....	Missouri	SPP	RUS-7
Ozarks Electric Coop Corp.....	Arkansas	SPP	RUS-7
P K M Electric Coop Inc.....	Minnesota	MAPP	RUS-7
P R & W Electric Coop Assn Inc.....	Kansas	SPP	RUS-7
Palmetto Electric Coop Inc.....	South Carolina	SERC	RUS-7
Panhandle Rural El Member Assn.....	Nebraska	MAPP	RUS-7
Panola-Harrison Elec Coop Inc.....	Texas	SPP	RUS-7
Park Electric Coop Inc.....	Montana	WSCC	RUS-7
Parke County Rural E M C.....	Indiana	ECAR	RUS-7
Pataula Electric Member Corp.....	Georgia	SERC	RUS-7
Pea River Electric Coop.....	Alabama	SERC	RUS-7
Peace River Electric Coop Inc.....	Florida	SERC	RUS-7
Pee Dee Electric Coop Inc.....	South Carolina	SERC	RUS-7
Pee Dee Electric Member Corp.....	North Carolina	SERC	RUS-7
Pella Coop Elec Assn.....	Iowa	MAPP	RUS-7
Pemiscot-Dunklin Elec Coop Inc.....	Missouri	SPP	RUS-7
Pennyrite Rural Elec Coop Corp.....	Kentucky	SERC	RUS-7
People 's Coop Power Assn.....	Minnesota	MAPP	RUS-7
Petit Jean Electric Coop Corp.....	Arkansas	SPP	RUS-7
Pickwick Electric Coop.....	Tennessee	SERC	RUS-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Piedmont Electric Member Corp.....	North Carolina	SERC	RUS-7
Pioneer Electric Coop Inc.....	Kansas	SPP	RUS-7
Pioneer Electric Coop Inc.....	Alabama	SERC	RUS-7
Pioneer Rural Elec Coop Inc.....	Ohio	ECAR	RUS-7
Plains Elec Gen&Trans Coop Inc.....	New Mexico	WSCC	RUS-12
Planters Electric Member Corp.....	Georgia	SERC	RUS-7
Plateau Electric Coop.....	Tennessee	SERC	RUS-7
Platte-Clay Electric Coop Inc.....	Missouri	SPP	RUS-7
Plumas-Sierra Rural Elec Coop.....	California	WSCC	RUS-7
Plymouth Electric Coop Assn.....	Iowa	MAPP	RUS-7
Pointe Coupee Elec Member Corp.....	Louisiana	SPP	RUS-7
Poudre Valley R E A Inc.....	Colorado	WSCC	RUS-7
Powell Valley Electric Coop.....	Tennessee	SERC	RUS-7
Price Electric Coop Inc.....	Wisconsin	MAPP	RUS-7
Prince George Electric Coop.....	Virginia	SERC	RUS-7
R S R Electric Coop Inc.....	North Dakota	MAPP	RUS-7
Radiant Electric Coop Inc.....	Kansas	SPP	RUS-7
Raft River Rural Elec Coop Inc.....	Idaho	WSCC	RUS-7
Ralls County Electric Coop.....	Missouri	SPP	RUS-7
Randolph Electric Member Corp.....	North Carolina	SERC	RUS-7
Rappahannock Electric Coop.....	Virginia	SERC	RUS-7
Ravalli County Elec Coop Inc.....	Montana	WSCC	RUS-7
Rayle Electric Membership Corp.....	Georgia	SERC	RUS-7
Red Lake Electric Coop Inc.....	Minnesota	MAPP	RUS-7
Red River Valley Coop Pwr Assn.....	Minnesota	MAPP	RUS-7
Red River Valley Rrl Elec Assn.....	Oklahoma	SPP	RUS-7
Redwood Electric Coop.....	Minnesota	MAPP	RUS-7
Renville-Sibley Coop Pwr Assn.....	Minnesota	MAPP	RUS-7
Rich Mountain Elec Coop Inc.....	Arkansas	SPP	RUS-7
Richland Electric Coop.....	Wisconsin	MAPP	RUS-7
Rideta Electric Coop Inc.....	Iowa	MAPP	RUS-7
Rio Grande Electric Coop Inc.....	Texas	ERCOT	RUS-7
Rita Blanca Electric Coop Inc.....	Texas	SPP	RUS-7
Riverton Valley Elec Assn Inc.....	Wyoming	WSCC	RUS-7
Roanoke Electric Member Corp.....	North Carolina	SERC	RUS-7
Rock County Electric Coop Assn.....	Wisconsin	MAPP	RUS-7
Roosevelt County Elec Coop Inc.....	New Mexico	SPP	RUS-7
Roseau Electric Coop Inc.....	Minnesota	MAPP	RUS-7
Rosebud Electric Coop Inc.....	South Dakota	MAPP	RUS-7
Runestone Electric Assn.....	Minnesota	MAPP	RUS-7
Rural Electric Co.....	Wyoming	WSCC	RUS-7
Rural Electric Conven Coop.....	Illinois	MAIN	RUS-7
Rural Electric Coop Inc.....	Oklahoma	SPP	RUS-7
Rush County Rural E M C.....	Indiana	ECAR	RUS-7
Rusk County Electric Coop Inc.....	Texas	SPP	RUS-7
Rutherford Elec Member Corp.....	North Carolina	SERC	RUS-7
S E Iowa Coop Electric Assn.....	Iowa	MAPP	RUS-7
Sac County Rural Electric Coop.....	Iowa	MAPP	RUS-7
Sac-Osage Electric Coop Inc.....	Missouri	SPP	RUS-7
Salmon River Electric Coop Inc.....	Idaho	WSCC	RUS-7
Salt River Electric Coop Corp.....	Kentucky	ECAR	RUS-7
Saluda River Electric Coop Inc.....	South Carolina	SERC	RUS-12
Sam Rayburn G&T Elec Coop Inc.....	Texas	SPP	RUS-12
San Isabel Electric Assn Inc.....	Colorado	WSCC	RUS-7
San Luis Valley R E C Inc.....	Colorado	WSCC	RUS-7
San Miguel Power Assn Inc.....	Colorado	WSCC	RUS-7
San Patricio Electric Coop Inc.....	Texas	ERCOT	RUS-7
Sand Mountain Electric Coop.....	Alabama	SERC	RUS-7
Sangre De Cristo Elec Assn Inc.....	Colorado	WSCC	RUS-7
Santee Electric Coop Inc.....	South Carolina	SERC	RUS-7
Satilla Rural Elec Member Corp.....	Georgia	SERC	RUS-7
Sawnee Electric Members Corp.....	Georgia	SERC	RUS-7
Sedgwick Cnty El Coop Assn Inc.....	Kansas	SPP	RUS-7
Sekan Electric Coop Assn Inc.....	Kansas	SPP	RUS-7
Seminole Electric Coop Inc.....	Florida	SERC	RUS-12
Sequachee Valley Electric Coop.....	Tennessee	SERC	RUS-7
Shelby County Rural E M C.....	Indiana	ECAR	RUS-7
Shelby Rural Elec Coop Corp.....	Kentucky	ECAR	RUS-7
Shenandoah Valley Elec Coop.....	Virginia	SERC	RUS-7
Sheridan Electric Coop Inc.....	Montana	MAPP	RUS-7
Sheridan-Johnson Rrl Elec Assn.....	Wyoming	WSCC	RUS-7
Sheyenne Valley Elec Coop Inc.....	North Dakota	MAPP	RUS-7
Sho-Me Power Electric Coop.....	Missouri	SPP	RUS-12
Sierra Electric Coop Inc.....	New Mexico	WSCC	RUS-7
Singing River Elec Power Assn.....	Mississippi	SERC	RUS-7
Sioux Valley Empire E A Inc.....	South Dakota	MAPP	RUS-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Slash Pine Elec Member Corp.....	Georgia	SERC	RUS-7
Slope Electric Coop Inc.....	North Dakota	MAPP	RUS-7
Smoky Hill Elec Coop Assn Inc.....	Kansas	SPP	RUS-7
Socorro Electric Coop Inc.....	New Mexico	WSCC	RUS-7
Somerset Rural Elec Coop Inc.....	Pennsylvania	MAAC	RUS-7
South Alabama Elec Coop Inc.....	Alabama	SERC	RUS-7
South Central Ark El Coop Inc.....	Arkansas	SPP	RUS-7
South Central Electric Assn.....	Minnesota	MAPP	RUS-7
South Central Indiana REMC.....	Indiana	ECAR	RUS-7
South Central Power Co.....	Ohio	ECAR	RUS-7
South Crawford Rural Elec Corp.....	Iowa	MAPP	RUS-7
South Kentucky Rural E C C.....	Kentucky	ECAR	RUS-7
South Louisiana Elec Coop Assn.....	Louisiana	SPP	RUS-7
South Mississippi El Pwr Assn.....	Mississippi	SERC	RUS-12
South Plains Electric Coop Inc.....	Texas	SPP	RUS-7
South River Elec Member Corp.....	North Carolina	SERC	RUS-7
South Texas Electric Coop Inc.....	Texas	ERCOT	RUS-12
Southeast Colorado Power Assn.....	Colorado	WSCC	RUS-7
Southeast Electric Coop Inc.....	Montana	WSCC	RUS-7
Southeastern Electric Coop Inc.....	Oklahoma	SPP	RUS-7
Southeastern Indiana R E M C.....	Indiana	ECAR	RUS-7
Southeastern IL Elec Coop Inc.....	Illinois	MAIN	RUS-7
Southeastern Michigan REC Inc.....	Michigan	ECAR	RUS-7
Southern Illinois Elec Coop.....	Illinois	MAIN	RUS-7
Southern Illinois Power Coop.....	Illinois	MAIN	RUS-12
Southern Indiana R E C Inc.....	Indiana	ECAR	RUS-7
Southern Iowa Elec Coop Inc.....	Iowa	MAPP	RUS-7
Southern Maryland El Coop Inc.....	Maryland	MAAC	RUS-7
Southern Pine Elec Coop Inc.....	Alabama	SERC	RUS-7
Southern Pine Elec Power Assn.....	Mississippi	SERC	RUS-7
Southside Electric Coop Inc.....	Virginia	SERC	RUS-7
Southwest Arkansas E C C.....	Arkansas	SPP	RUS-7
Southwest Central R E C Corp.....	Pennsylvania	MAAC	RUS-7
Southwest Electric Coop Inc.....	Missouri	SPP	RUS-7
Southwest Louisiana E M C.....	Louisiana	SPP	RUS-7
Southwest Mississippi E P A.....	Mississippi	SPP	RUS-7
Southwest Rural Elec Assn Inc.....	Oklahoma	SPP	RUS-7
Southwest Tennessee E M C.....	Tennessee	SERC	RUS-7
Southwest Texas Elec Coop Inc.....	Texas	ERCOT	RUS-7
Southwestern Electric Coop Inc.....	Illinois	MAIN	RUS-7
Southwestern Electric Coop Inc.....	New Mexico	SPP	RUS-7
Spink Electric Coop Inc.....	South Dakota	MAPP	RUS-7
Spoon River Electric Coop Inc.....	Illinois	MAIN	RUS-7
Springer Electric Coop Inc.....	New Mexico	WSCC	RUS-7
Square Butte Electric Coop.....	North Dakota	MAPP	RUS-12
St Croix Electric Coop.....	Wisconsin	MAPP	RUS-7
Stearns Coop Electric Assn.....	Minnesota	MAPP	RUS-7
Steele-Waseca Coop Electric.....	Minnesota	MAPP	RUS-7
Steuben Rural Elec Coop Inc.....	New York	NPCC	RUS-7
Sullivan County R E C Inc.....	Pennsylvania	MAAC	RUS-7
Sullivan County Rural E M C.....	Indiana	ECAR	RUS-7
Sulphur Springs Valley E C Inc.....	Arizona	WSCC	RUS-7
Summer-Cowley Elec Coop Inc.....	Kansas	SPP	RUS-7
Sumter Electric Coop Inc.....	Florida	SERC	RUS-7
Sumter Electric Member Corp.....	Georgia	SERC	RUS-7
Sun River Electric Coop Inc.....	Montana	WSCC	RUS-7
Sunflower Electric Power Corp.....	Kansas	SPP	RUS-12
Surprise Valley Electric Corp.....	California	WSCC	RUS-7
Surry-Yadkin Elec Member Corp.....	North Carolina	SERC	RUS-7
Sussex Rural Electric Coop Inc.....	New Jersey	MAAC	RUS-7
Suwannee Valley Elec Coop Inc.....	Florida	SERC	RUS-7
Swans Island Electric Coop Inc.....	Maine	NPCC	RUS-7
Swisher Electric Coop Inc.....	Texas	SPP	RUS-7
SE-MA-NO Electric Coop.....	Missouri	SPP	RUS-7
T I P Rural Electric Coop.....	Iowa	MAPP	RUS-7
Tallahatchie Valley E P A.....	Mississippi	SERC	RUS-7
Tallapoosa River Elec Coop Inc.....	Alabama	SERC	RUS-7
Talquin Electric Coop Inc.....	Florida	SERC	RUS-7
Tanner Electric Coop.....	Washington	WSCC	RUS-7
Taylor County Rural E C C.....	Kentucky	ECAR	RUS-7
Taylor Electric Coop Inc.....	Texas	ERCOT	RUS-7
Teche Electric Coop Inc.....	Louisiana	SPP	RUS-7
Tennessee Valley Electric Coop.....	Tennessee	SERC	RUS-7
Tex-La Electric Coop-Texas Inc.....	Texas	ERCOT	RUS-12
Three Notch Elec Member Corp.....	Georgia	SERC	RUS-7
Three Rivers Electric Coop.....	Missouri	SPP	RUS-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Thumb Electric Coop-Michigan	Michigan	ECAR	RUS-7
Tideland Electric Member Corp	North Carolina	SERC	RUS-7
Tipmont Rural Elec Member Corp.....	Indiana	ECAR	RUS-7
Tishomingo County E P A	Mississippi	SERC	RUS-7
Todd-Wadena Electric Coop.....	Minnesota	MAPP	RUS-7
Tombigbee Electric Coop Inc.....	Alabama	SERC	RUS-7
Tombigbee Electric Power Assn.....	Mississippi	SERC	RUS-7
Tongue River Electric Coop Inc.....	Montana	MAPP	RUS-7
Top O' Michigan Electric Co.....	Michigan	ECAR	RUS-7
Traverse Electric Coop Inc	Minnesota	MAPP	RUS-7
Tri-County Elec Member Corp.....	Georgia	SERC	RUS-7
Tri-County Elec Member Corp.....	North Carolina	SERC	RUS-7
Tri-County Elec Member Corp.....	Tennessee	SERC	RUS-7
Tri-County Electric Assn Inc.....	South Dakota	MAPP	RUS-7
Tri-County Electric Assn Inc.....	Wyoming	WSCC	RUS-7
Tri-County Electric Coop.....	Minnesota	MAPP	RUS-7
Tri-County Electric Coop.....	Michigan	ECAR	RUS-7
Tri-County Electric Coop Assn	Missouri	SPP	RUS-7
Tri-County Electric Coop Inc	South Carolina	SERC	RUS-7
Tri-County Electric Coop Inc	Oklahoma	SPP	RUS-7
Tri-County Electric Coop Inc	Florida	SERC	RUS-7
Tri-County Electric Coop Inc	North Dakota	MAPP	RUS-7
Tri-County Rural Elec Coop Inc	Pennsylvania	MAAC	RUS-7
Tri-State Electric Member Corp	Georgia	SERC	RUS-7
Tri-State G & T Assn Inc.....	Colorado	WSCC	RUS-12
Trico Electric Coop Inc.....	Arizona	WSCC	RUS-7
Turner-Hutchinson El Coop Inc	South Dakota	MAPP	RUS-7
Twin County Electric Pwr Assn.....	Mississippi	SERC	RUS-7
Twin Valley Electric Coop Inc.....	Kansas	SPP	RUS-7
Umatilla Electric Coop Assn	Oregon	WSCC	RUS-7
Union County Electric Coop Inc	South Dakota	MAPP	RUS-7
Union Electric Membership Corp.....	North Carolina	SERC	RUS-7
Union Rural Electric Coop Inc	Ohio	ECAR	RUS-7
United Electric Coop Inc	Kansas	SPP	RUS-7
United Electric Coop Inc	Pennsylvania	MAAC	RUS-7
United Power Assn.....	Minnesota	MAPP	RUS-12
United Power Inc.....	Colorado	WSCC	RUS-7
United Rural Elec Member Corp.....	Indiana	ECAR	RUS-7
United Rural Electric Coop Inc	Ohio	ECAR	RUS-7
Upper Cumberland E M C.....	Tennessee	SERC	RUS-7
Upper Missouri G&T El Coop Inc.....	Montana	MAPP	RUS-12
Upshur Rural Elec Coop Corp.....	Texas	SPP	RUS-7
Upson County Elec Member Corp	Georgia	SERC	RUS-7
Utilities Dist-Western IN REMC.....	Indiana	ECAR	RUS-7
Valley Electric Coop Inc.....	Montana	WSCC	RUS-7
Valley Electric Member Corp.....	Louisiana	SPP	RUS-7
Valley Rural Electric Coop Inc	Pennsylvania	MAAC	RUS-7
Verdigris Valley Elec Coop Inc	Oklahoma	SPP	RUS-7
Verendrye Electric Coop Inc	North Dakota	MAPP	RUS-7
Vernon Electric Coop.....	Wisconsin	MAPP	RUS-7
Victoria Electric Coop Inc	Texas	ERCOT	RUS-7
Victory Electric Coop Assn Inc.....	Kansas	SPP	RUS-7
Vigilante Electric Coop Inc	Montana	WSCC	RUS-7
Volunteer Electric Coop.....	Tennessee	SERC	RUS-7
Wabash County Rural E M C.....	Indiana	ECAR	RUS-7
Warren Electric Coop Inc	Pennsylvania	MAAC	RUS-7
Warren Rural Elec Coop Corp	Kentucky	SERC	RUS-7
Wasco Electric Coop Inc	Oregon	WSCC	RUS-7
Washington Elec Member Corp	Georgia	SERC	RUS-7
Washington Electric Coop Inc.....	Ohio	ECAR	RUS-7
Washington Electric Coop Inc.....	Vermont	NPCC	RUS-7
Washington Island El Coop Inc.....	Wisconsin	MAIN	RUS-7
Washington-St Tammany E C Inc.....	Louisiana	SPP	RUS-7
Wayne-White Counties Elec Coop.....	Illinois	MAIN	RUS-7
Webster Electric Coop	Missouri	SPP	RUS-7
Wells Rural Electric Co.....	Nevada	WSCC	RUS-7
West Central Electric Coop Inc.....	Missouri	SPP	RUS-7
West Central Electric Coop Inc.....	South Dakota	MAPP	RUS-7
West Florida El Coop Assn Inc.....	Florida	SERC	RUS-7
West Kentucky Rural E C C	Kentucky	ECAR	RUS-7
West Oregon Electric Coop Inc.....	Oregon	WSCC	RUS-7
West Plains Electric Coop Inc.....	North Dakota	MAPP	RUS-7
West River Electric Assn Inc	South Dakota	MAPP	RUS-7
Western Coop Electric Assn Inc.....	Kansas	SPP	RUS-7
Western Farmers Elec Coop Inc.....	Oklahoma	SPP	RUS-12
Western Illinois Elec Coop.....	Illinois	MAIN	RUS-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Western Michigan Electric Coop.....	Michigan	MAIN	RUS-7
Wheatland Electric Coop Inc.....	Kansas	SPP	RUS-7
Wheatland Rural Elec Assn Inc.....	Wyoming	WSCC	RUS-7
Whetstone Valley Elec Coop Inc.....	South Dakota	MAPP	RUS-7
White County Rural E M C.....	Indiana	ECAR	RUS-7
White River Electric Assn Inc.....	Colorado	WSCC	RUS-7
White River Valley El Coop Inc.....	Missouri	SPP	RUS-7
Whitewater Valley Rural EMC.....	Indiana	ECAR	RUS-7
Wild Rice Electric Coop Inc.....	Minnesota	MAPP	RUS-7
Winnebago Rural Elec Coop Assn.....	Iowa	MAPP	RUS-7
Wiregrass Electric Coop Inc.....	Alabama	SERC	RUS-7
Withlacoochee River Elec Coop.....	Florida	SERC	RUS-7
Wolverine Pwr Supply Coop Inc.....	Michigan	ECAR	RUS-12
Wood County Electric Coop Inc.....	Texas	SPP	RUS-7
Woodbury County Rural E C A.....	Iowa	MAPP	RUS-7
Woodruff Electric Coop Corp.....	Arkansas	SPP	RUS-7
Wright County Rural Elec Coop.....	Iowa	MAPP	RUS-7
Wright-Hennepin Coop Elec Assn.....	Minnesota	MAPP	RUS-7
Wyrulec Co.....	Wyoming	WSCC	RUS-7
Y-W Electric Assn Inc.....	Colorado	WSCC	RUS-7
Yampa Valley Electric Assn Inc.....	Colorado	WSCC	RUS-7
Yazoo Valley Elec Power Assn.....	Mississippi	SERC	RUS-7
Yellowstone Villy Elec Coop Inc.....	Montana	WSCC	RUS-7
York Electric Coop Inc.....	South Carolina	SERC	RUS-7

¹ The State in which the administrative office of the cooperative borrower is located.

² The principal North American Electric Reliability Council region in which the utility operates. See glossary for a list of all regions.

³ Source of data for this publication

Sources: •Rural Utilities Service, RUS Form 7, "Financial and Statistical Report," RUS Form 12a through 12i, "Electric Power Supply Borrowers," Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities." •Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

Table B6. Electric Utilities Not Reported Elsewhere in Surveys Reporting Detailed Transactions, 1996

Utility	State ¹	NERC Region ²	Survey Form ³
Investor-Owned			
Ajo Improvement Co.....	Arizona	WSCC	EIA-861
Block Island Power Co.....	Rhode Island	NPCC	EIA-861
Champion International Corp.....	Montana	WSCC	EIA-861
Haines Light & Power Co Inc.....	Alaska	ASCC	EIA-861
Hawaii Electric Light Co Inc.....	Hawaii	HI	EIA-861
Modern Electric Water Company.....	Washington	WSCC	EIA-861
Morenci Water & Electric Co.....	Arizona	WSCC	EIA-861
Napakiak Ircinaq Power Co.....	Alaska	ASCC	EIA-861
Panaca Power & Light Co.....	Utah	WSCC	EIA-861
Westfield Milling & El Lgt Co.....	Wisconsin	MAIN	EIA-861
Cooperative			
Bandera Elec Coop Inc.....	Texas	ERCOT	EIA-861
Barron Elec Coop.....	Wisconsin	MAPP	EIA-861
Bartholomew County Rural E M C.....	Indiana	ECAR	EIA-861
Beauregard Electric Coop Inc.....	Louisiana	SPP	EIA-861
Big Bend Elec Coop Inc.....	Washington	WSCC	EIA-861
Bluebonnet Electric Coop Inc.....	Texas	ERCOT	EIA-861
Boone Valley Elec Coop.....	Iowa	MAPP	EIA-861
Buffalo Electric Coop.....	Wisconsin	MAPP	EIA-861
Carroll County Rural E M C.....	Indiana	ECAR	EIA-861
Cass Electric Coop.....	Iowa	MAPP	EIA-861
Central Indiana Power.....	Indiana	ECAR	EIA-861
Clark County Rural E M C.....	Indiana	ECAR	EIA-861
Consolidated Elec Coop.....	Missouri	MAIN	EIA-861
Cooke County Elec Coop Assn.....	Texas	ERCOT	EIA-861
Cuivre River Electric Coop Inc.....	Missouri	MAIN	EIA-861
Delta Electric Power Assn.....	Mississippi	SERC	EIA-861
Denton Cnty Elec Coop Inc.....	Texas	ERCOT	EIA-861
Dickens Elec Coop Inc.....	Texas	ERCOT	EIA-861
Eau Claire Elec Coop.....	Wisconsin	MAPP	EIA-861
Fall River Rural Elec Coop.....	Idaho	WSCC	EIA-861
Farmers Electric Co.....	Idaho	WSCC	EIA-861
Farmers Mutual Power Assn.....	Nevada	WSCC	EIA-861
Fayette Electric Coop Inc.....	Texas	ERCOT	EIA-861
Flathead Electric Coop Inc.....	Montana	WSCC	EIA-861
Fort Belknap Electric Coop Inc.....	Texas	ERCOT	EIA-861
Glacier Electric Coop Inc.....	Montana	WSCC	EIA-861
Graham County Elec Coop Inc.....	Arizona	WSCC	EIA-861
Guadalupe Valley Elec Coop.....	Texas	ERCOT	EIA-861
Hendricks County Rural E M C.....	Indiana	ECAR	EIA-861
Hill County Elec Coop.....	Texas	ERCOT	EIA-861
Hood River Electric Coop.....	Oregon	WSCC	EIA-861
Kiamichi Elec Coop Inc.....	Oklahoma	SPP	EIA-861
Kosciusko Cnty Rural EMC.....	Indiana	ECAR	EIA-861
Lakeview Light & Power.....	Washington	WSCC	EIA-861
Lee County Electric Coop Inc.....	Florida	SERC	EIA-861
Licking Rural Electric Inc.....	Ohio	ECAR	EIA-861
Lower Valley Pwr & Lgt Inc.....	Wyoming	WSCC	EIA-861
Marshall-De Kalb Elec Coop.....	Alabama	SERC	EIA-861
Miami-Cass Cnty Rural EMC.....	Indiana	ECAR	EIA-861
Mid-South Electric Coop Assn.....	Texas	ERCOT	EIA-861
Navasota Valley Elec Coop.....	Texas	ERCOT	EIA-861
New Enterprise R E C Inc.....	Pennsylvania	MAAC	EIA-861
Niobrara Valley El Mbr Corp.....	Nebraska	SPP	EIA-861
Nishnabotna Valley REC.....	Iowa	MAPP	EIA-861
Noble Cnty Rural EMC.....	Indiana	ECAR	EIA-861
North West Rural Elec Coop.....	Iowa	MAPP	EIA-861
Oceana Electric Coop.....	Michigan	ECAR	EIA-861
Oklahoma Elec Coop Inc.....	Oklahoma	SPP	EIA-861
Paulding-Putman Elec Coop.....	Ohio	ERCOT	EIA-861
Pedernales Elec Coop Inc.....	Texas	ERCOT	EIA-861
Penoyer Valley Electric Coop.....	Nevada	WSCC	EIA-861
Pierce-Pepin Elec Coop.....	Wisconsin	MAPP	EIA-861
Pontotoc Elec Power Assoc.....	Mississippi	SERC	EIA-861
Prentiss Cnty Elec Pwr Assoc.....	Mississippi	SERC	EIA-861
Presque Isle Electric Coop Inc.....	Michigan	ECAR	EIA-861
Rural Electric Co.....	Idaho	WSCC	EIA-861
Salem Electric.....	Oregon	WSCC	EIA-861
San Bernard Elec Coop Inc.....	Texas	ERCOT	EIA-861
Scott-New Madrid-MS El Coop.....	Missouri	MAPP	EIA-861
South Side Elec Lines, Inc.....	Idaho	WSCC	EIA-861
Steuben County Rural EMC.....	Indiana	ECAR	EIA-861
Taylor Electric Coop.....	Wisconsin	MAPP	EIA-861

See footnotes at end of table.

Table B6. Electric Utilities Not Reported Elsewhere in Surveys Reporting Detailed Transactions, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Tippah Elec Power Assoc.....	Mississippi	SERC	EIA-861
Trempealeau Elec Coop.....	Wisconsin	MAPP	EIA-861
TriCounty Rural Elec Coop Inc.....	Ohio	ECAR	EIA-861
Unity Light & Power Coop.....	Idaho	WSCC	EIA-861
Warren County Rural EMC.....	Indiana	ECAR	EIA-861
Wharton Cnty Elec Coop Inc.....	Texas	ERCOT	EIA-861
Wise Elec Coop Inc.....	Texas	ERCOT	EIA-861
4-County Electric Power Assn.....	North Carolina	SERC	EIA-861
Municipal			
Aberdeen City of.....	Mississippi	SERC	EIA-861
Albany City of.....	Missouri	SPP	EIA-861
Albion City of.....	Idaho	WSCC	EIA-861
Alder Mutual Lgt Co.....	Washington	WSCC	EIA-861
Alpha City of.....	Minnesota	MAPP	EIA-861
Alvarado City of.....	Minnesota	MAPP	EIA-861
Amory City of.....	Mississippi	SERC	EIA-861
Anadarko Public Works Auth.....	Oklahoma	SPP	EIA-861
Aplington City of.....	Iowa	MAPP	EIA-861
Arcadia City of.....	Wisconsin	MAPP	EIA-861
Arctic Utilities Inc.....	Alaska	ASCC	EIA-861
Argyle City of.....	Wisconsin	MAPP	EIA-861
Ava City of.....	Missouri	SPP	EIA-861
Bancroft City of.....	Iowa	MAPP	EIA-861
Bandon City of.....	Oregon	WSCC	EIA-861
Bartley Village of.....	Nebraska	MAPP	EIA-861
Basin Town of.....	Wyoming	WSCC	EIA-861
Belleville City of.....	Kansas	SPP	EIA-861
Bennettsville City of.....	South Carolina	SERC	EIA-861
Bethany City of.....	Missouri	MAIN	EIA-861
Bigelow City of.....	Minnesota	MAPP	EIA-861
Blaine City of.....	Washington	WSCC	EIA-861
Bloomfield City of.....	Iowa	MAPP	EIA-861
Bonnars Ferry City of.....	Idaho	WSCC	EIA-861
Braman Town of.....	Oklahoma	SPP	EIA-861
Brooklyn City of.....	Iowa	MAPP	EIA-861
Brownsville City of.....	Tennessee	SERC	EIA-861
Brundidge City of.....	Alabama	SERC	EIA-861
Burley City of.....	Idaho	WSCC	EIA-861
Burlington City of.....	Oklahoma	SPP	EIA-861
Butler City of.....	Missouri	SPP	EIA-861
Cabool City of.....	Missouri	MAIN	EIA-861
Caledonia City of.....	Minnesota	MAPP	EIA-861
Caliente City of.....	Nevada	WSCC	EIA-861
Cameron City of.....	Missouri	SPP	EIA-861
Campbell Village of.....	Nebraska	MAPP	EIA-861
Cannelton Utilities.....	Indiana	ECAR	EIA-861
Cascade City of.....	Iowa	MAPP	EIA-861
Cascade Locks City of.....	Oregon	WSCC	EIA-861
Cashton Village of.....	Wisconsin	MAPP	EIA-861
Ceylon City of.....	Minnesota	MAPP	EIA-861
Chester Mun Elec Light Dept.....	Massachusetts	NPCC	EIA-861
Chewelah Light Dept.....	Washington	MAPP	EIA-861
Chillicothe City of.....	Missouri	SPP	EIA-861
Cordell City of.....	Oklahoma	SPP	EIA-861
Corwith City of.....	Iowa	MAPP	EIA-861
Coulee Dam Light Dept.....	Washington	WSCC	EIA-861
Courtland City of.....	Alabama	SERC	EIA-861
Crane City of.....	Missouri	MAIN	EIA-861
Cuba City of.....	Missouri	MAIN	EIA-861
Culpeper Town of.....	Virginia	SERC	EIA-861
Cumberland City of.....	Wisconsin	MAPP	EIA-861
Dakota Elec Assoc.....	Minnesota	MAPP	EIA-861
Darwin Village of.....	Minnesota	MAPP	EIA-861
Dayton City of.....	Iowa	MAPP	EIA-861
Dayton City of.....	Tennessee	SERC	EIA-861
Decatur Village of.....	Nebraska	MAPP	EIA-861
Declo City of.....	Idaho	WSCC	EIA-861
Dighton City of.....	Kansas	SPP	EIA-861
Doerun City of.....	Georgia	SERC	EIA-861
Drain Electric Dept.....	Oregon	WSCC	EIA-861
Dunnell Village of.....	Minnesota	MAPP	EIA-861
Durant City of.....	Iowa	MAPP	EIA-861
Earlville City of.....	Iowa	MAPP	EIA-861
East End Mutual Elec Co Ltd.....	Idaho	WSCC	EIA-861

See footnotes at end of table.

Table B6. Electric Utilities Not Reported Elsewhere in Surveys Reporting Detailed Transactions, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Easton City of.....	Missouri	SPP	EIA-861
Eatonville Town of.....	Washington	WSCC	EIA-861
Elba City of.....	Alabama	SERC	EIA-861
Electra City of.....	Texas	ERCOT	EIA-861
Elk Point City of.....	South Dakota	MAPP	EIA-861
Ellsworth City of.....	Iowa	MAPP	EIA-861
Elmhurst Mutual Power & Lgt.....	Washington	WSCC	EIA-861
Elroy City of.....	Wisconsin	MAPP	EIA-861
Emerson City of.....	Nebraska	MAPP	EIA-861
Endicott Village of.....	Nebraska	MAPP	EIA-861
Escanaba Munic Elec Util.....	Michigan	ECAR	EIA-861
Etowah City of.....	Tennessee	SERC	EIA-861
Fairfield City of.....	Illinois	MAIN	EIA-861
Farnhamville City of.....	Iowa	MAPP	EIA-861
Fayette City of.....	Missouri	MAIN	EIA-861
Fennimore City of.....	Wisconsin	MAPP	EIA-861
Forest City City of.....	Iowa	MAPP	EIA-861
Fort Supply Town of.....	Oklahoma	SPP	EIA-861
Fountain Town of.....	North Carolina	SERC	EIA-861
Franklin City of.....	Kentucky	SERC	EIA-861
Gallatin City of.....	Missouri	MAIN	EIA-861
Garrison City of.....	Texas	ERCOT	EIA-861
Glasgow City of.....	Kentucky	SERC	EIA-861
Gowrie Municipal Utilities.....	Iowa	MAPP	EIA-861
Granada Town of.....	Colorado	WSCC	EIA-861
Greenfield City of.....	Iowa	MAPP	EIA-861
Grove City City of.....	Minnesota	MAPP	EIA-861
Grundy Center City of.....	Iowa	MAPP	EIA-861
Harmony City of.....	Minnesota	MAPP	EIA-861
Hartselle City of.....	Alabama	SERC	EIA-861
Hearne City of.....	Texas	ERCOT	EIA-861
Hemphill City of.....	Texas	SPP	EIA-861
Herndon City of.....	Kansas	SPP	EIA-861
Heyburn City of.....	Idaho	WSCC	EIA-861
Houston City of.....	Missouri	SPP	EIA-861
Hunnewell City of.....	Missouri	SPP	EIA-861
Iuka City of.....	Kansas	SPP	EIA-861
Johnson City of.....	Kansas	SPP	EIA-861
Keosauqua City of.....	Iowa	MAPP	EIA-861
Kiowa City of.....	Kansas	SPP	EIA-861
La Farge Municipal Electric Co.....	Wisconsin	MAPP	EIA-861
La Plata City of.....	Missouri	MAIN	EIA-861
Lake Mills City of.....	Iowa	MAPP	EIA-861
Lakin City of.....	Kansas	SPP	EIA-861
Lamoni City of.....	Iowa	MAPP	EIA-861
Lanesboro Public Utility Comm.....	Minnesota	MAPP	EIA-861
Larchwood City of.....	Iowa	MAPP	EIA-861
Lehigh City of.....	Iowa	MAPP	EIA-861
Lindsay City of.....	Oklahoma	SPP	EIA-861
Louisville Electric System.....	Mississippi	SERC	EIA-861
Mabel City of.....	Minnesota	MAPP	EIA-861
Macon City of.....	Missouri	MAIN	EIA-861
Mansfield City of.....	Missouri	MAIN	EIA-861
Mayfield City of.....	Kentucky	ECAR	EIA-861
McCleary Light & Power.....	Washington	WSCC	EIA-861
McLeansboro City of.....	Illinois	MAIN	EIA-861
Meade City of.....	Kansas	SPP	EIA-861
Meadville City of.....	Missouri	SPP	EIA-861
Memphis City of.....	Missouri	MAIN	EIA-861
Midvale Irrigation District.....	Wyoming	WSCC	EIA-861
Milan City of.....	Missouri	SPP	EIA-861
Milltown Borough of.....	New Jersey	MAAC	EIA-861
Milton City of.....	Washington	WSCC	EIA-861
Minidoka City of.....	Idaho	WSCC	EIA-861
Monmouth City of.....	Oregon	WSCC	EIA-861
Monroe City City of.....	Missouri	SPP	EIA-861
Moore Haven City of.....	Florida	SERC	EIA-861
Mooreland City of.....	Oklahoma	SPP	EIA-861
Mountain View City of.....	Missouri	SPP	EIA-861
Muscle Shoals City of.....	Alabama	SERC	EIA-861
Nashwauk City of.....	Minnesota	MAPP	EIA-861
New Hampton City of.....	Iowa	MAPP	EIA-861
New Lisbon City of.....	Wisconsin	MAPP	EIA-861
Newberry Water & Light Board.....	Michigan	ECAR	EIA-861

See footnotes at end of table.

Table B6. Electric Utilities Not Reported Elsewhere in Surveys Reporting Detailed Transactions, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Newburg City of	Missouri	MAIN	EIA-861
Norton City of	Kansas	SPP	EIA-861
Oak City Town of	North Carolina	SERC	EIA-861
Ohop Mutual Light Co	Washington	WSCC	EIA-861
Onida City of	South Dakota	MAPP	EIA-861
Opp City of	Alabama	SERC	EIA-861
Osage City of	Iowa	MAPP	EIA-861
Oxford City of	Georgia	SERC	EIA-861
Oxford City of	Mississippi	SERC	EIA-861
Palmyra City of	Missouri	MAIN	EIA-861
Panama Village of	Nebraska	MAPP	EIA-861
Panora Mun Electric Util	Iowa	MAPP	EIA-861
Paris City of	Missouri	SPP	EIA-861
Park Ridge Elec Dept Borough	New Jersey	MAAC	EIA-861
Parkland Light & Water Co	Washington	WSCC	EIA-861
Paton City of	Iowa	MAPP	EIA-861
Pattonsburg City of	Missouri	MAIN	EIA-861
Peninsula Light Company	Washington	WSCC	EIA-861
Peterson City of	Minnesota	MAPP	EIA-861
Philadelphia City of	Mississippi	SERC	EIA-861
Pioche City of	Nevada	WSCC	EIA-861
Plains City of	Texas	SPP	EIA-861
Plummer Electric Dept	Idaho	WSCC	EIA-861
PUD No 1 Asotin County	Washington	WSCC	EIA-861
Radium City of	Kansas	SPP	EIA-861
Red Bud City of	Illinois	MAIN	EIA-861
Renwick City of	Iowa	MAPP	EIA-861
Reynolds Village of	Nebraska	MAPP	EIA-861
Richland City of	Missouri	MAIN	EIA-861
Rockport City of	Missouri	SPP	EIA-861
Round Lake City of	Minnesota	MAPP	EIA-861
Rupert City of	Idaho	WSCC	EIA-861
Rushmore City of	Minnesota	MAPP	EIA-861
Russell Municipal Light Dept	Massachusetts	NPCC	EIA-861
Russellville City of	Kentucky	SERC	EIA-861
Salem City of	Missouri	SPP	EIA-861
San Augustine City of	Texas	SPP	EIA-861
Sanger City of	Texas	ERCOT	EIA-861
Seymour City of	Missouri	SPP	EIA-861
Seymour City of	Texas	ERCOT	EIA-861
Shelbina City of	Missouri	SPP	EIA-861
Soda Springs City of	Idaho	WSCC	EIA-861
Spring Grove City of	Minnesota	MAPP	EIA-861
Springer Town of	New Mexico	SPP	EIA-861
St Paul City of	Nebraska	MAPP	EIA-861
St Robert City of	Missouri	MAIN	EIA-861
Stanberry City of	Missouri	SPP	EIA-861
Stanton City of	Iowa	MAPP	EIA-861
Steelville City of	Missouri	MAIN	EIA-861
Steilacoom Town of	Washington	WSCC	EIA-861
Stratford City of	Iowa	MAPP	EIA-861
Stratton City of	Nebraska	MAPP	EIA-861
Stromsburg City of	Nebraska	MAPP	EIA-861
Stuart Municipal Utility	Iowa	MAPP	EIA-861
Sullivan City of	Missouri	MAIN	EIA-861
Summer City of	Iowa	MAPP	EIA-861
Sweetwater City of	Tennessee	SERC	EIA-861
Talmage Village of	Nebraska	MAPP	EIA-861
Tennant City of	Iowa	MAPP	EIA-861
Timpson City of	Texas	ERCOT	EIA-861
Trenton City of	Nebraska	MAPP	EIA-861
Troy City of	Indiana	ECAR	EIA-861
Troy City of	Montana	ECAR	EIA-861
Tuskegee City of	Alabama	SERC	EIA-861
Unalaska City of	Alaska	ASCC	EIA-861
Vandalia City of	Missouri	MAIN	EIA-861
Village of Holbrook	Nebraska	MAPP	EIA-861
Viola City of	Wisconsin	MAPP	EIA-861
Waelder Utilities	Texas	ERCOT	EIA-861
Waynesville City of	Missouri	SPP	EIA-861
Webster City City of	Iowa	MAPP	EIA-861
Weimar Utilities	Texas	ERCOT	EIA-861
Welsh Town of	Louisiana	SPP	EIA-861
West Bend City of	Iowa	MAPP	EIA-861

See footnotes at end of table.

Table B6. Electric Utilities Not Reported Elsewhere in Surveys Reporting Detailed Transactions, 1996 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
West Point City of	Mississippi	SERC	EIA-861
Westfield Town of	Iowa	MAPP	EIA-861
Whalan City of	Minnesota	MAPP	EIA-861
Whitesboro City of	Texas	ERCOT	EIA-861
Willow Springs City of	Missouri	SPP	EIA-861
Wilton City of	Iowa	MAPP	EIA-861
Winchester City of	Tennessee	SERC	EIA-861
Winona City of	Missouri	SPP	EIA-861
Winterset City of	Iowa	MAPP	EIA-861
Woodsfield City of	Ohio	ECAR	EIA-861
Woolstock City of	Iowa	MAPP	EIA-861

¹ The State in which the administrative or corporate office of the utility is located.

² The principal North American Electric Reliability Council region in which the utility operates. See glossary for a list of all regions.

³ Source of data for this publication

Note: These electric utilities are not reported elsewhere because they fall below the class of ownership survey threshold and/or information on exchanges and wheeling for selected utilities are only reported on the Form, EIA-861.

Source: •Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

Table B7. Electric Power Marketers in the United States, 1996

Company Name	Total Purchase (megawatthours)	Total Sales (megawatthours)	Total Revenue from Sales (thousand dollars)
e prime, inc	1,144,900	1,144,900	14,366
Amoco Energy Trading Corp	2,978,240	2,978,240	72,895
Aquila Power Corp	65,302,125	65,301,117	1,500,589
Avista Energy, Inc	208,798	—	91,621
AES Power, Inc.	6,297,271	6,001,560	112,333
AIG Trading Corporation	23,978,917	23,978,502	586,141
AYP Energy, Inc.	3,695,758	3,695,758	81,736
Bonneville Fuels Management Corp	19,918	19,918	506
Bruin Energy, Inc.	31	—	—
Calpine Power Marketing, Inc.	987,600	987,600	15,384
Cargill-Alliant LLC	78,155	78,155	1,649
Catex Vitol Electric	64,657,017	64,568,331	1,552,728
Citizens Power Sales	34,513,838	34,510,711	801,436
Cogentrix Energy Pwr Marketing	2,386,107	2,386,107	36,767
Constellation Pwr Source, Inc	1,268,381	1,268,196	30,478
Cook Inlet Energy Supply	3,200	3,200	72
Coral Power LLC	9,842,916	9,842,916	235,110
CL Power Sales Two LLC	356,354	356,354	17,736
CNG Power Services Corp	25,248,346	25,248,346	594,575
CNG Retail Services Corp	12,087	—	—
Delhi Energy Services, Inc	5,820,187	5,812,676	158,453
Destec Power Services Inc	636,554	557,339	20,544
Duke Energy Trading & Mkt 'g	22,469,842	21,623,375	531,805
Duke/Lous Dreyfus LLC	69,234,296	69,333,306	1,590,104
Dupont Power Marketing, Inc	21,020,473	21,003,964	507,800
DTE Energy Trading, Inc	540	500	13
DTE-CoEnergy LLC	2,157	—	—
Edison Source Energy, Inc	2,195,184	2,195,184	45,172
El Paso Energy Marketing Co	9,486,238	9,486,238	239,101
Electric Clearinghouse	93,644,728	93,589,956	2,269,066
Energis Resources, Inc	36,293	3,796	89
Energy Masters international In	147,320	147,015	1,968
Energy Services, Inc	4,201,332	1,158,250	16,575
Energy Transfer Group LLC	196,374	196,374	358
EnerZ Corporation	5,326,875	5,326,875	132,184
Engage Energy US, LP	31,048,000	31,048,000	755,490
Engelhard Power Marketing, Inc	3,180,950	3,180,950	89,234
Enron Power Marketing	189,532,718	188,780,078	4,384,277
EPEC Marketing Company	2,986,650	2,986,650	64,167
Federal Energy Sales, Inc	1,734,643	1,735,302	—
GEN-SYS Energy	381,888	381,888	6,182
GPU Advanced Resources, Inc	17,821	—	—
Hartford Power Sales LLC	335,326	335,326	20,309
Hinson Power Company	1,215,795	1,215,795	28,324
Horizon Energy Company	114,423	—	—
Illinova Power Marketing, Inc	35,567,702	35,236,177	703,426
International Util Consult Inc	400	400	9
InterCoast Power Marketing Co	80,945	80,945	1,586
IGI Resources, Inc	470,900	322,092	4,043
Koch Energy Trading, Inc	16,167,546	16,156,106	398,362
KN Marketing Inc	3,266,094	3,266,094	4,614
Louis Dreyfus Elec Pwr	—	—	—
LG&E Power Marketing	49,296,450	53,384,815	1,183,564
MidCon Power Services Corp	4,354,730	4,354,730	112,316
Montana Power Trad&Market 'g C	53,048	52,351	862
Morgan Stanley Capital Group	10,290,030	10,290,030	158,451
National Fuel Resources, Inc	671	—	—
National Gas & Electric LP	1,284,699	1,239,814	33,501
New Millennium Energy Corp	39	—	—
North American Energy Cons	5,606,782	5,499,071	114,619
NorAm Energy Services, Inc	25,025,901	25,025,901	608,032
NESI Power Marketing, Inc	7,455,970	7,455,012	167,050
NEV LLC	1,010,203	960,903	18,233
NP Energy, Inc	10,231,967	10,231,967	257,267
NUI Energy Brokers, Inc	—	—	—
PacifiCorp Power Marketing Inc	35,800,241	35,800,241	911,929
Phibro, Inc	4,527,914	4,527,914	116,032
Plum Street Energy Market Co	3,265,235	3,258,614	87,146
Powertec International LLC	—	—	—
Progress Power Marketing, Inc	1,540	1,532	40
Proliance Energy LCC	89,176	89,176	2,203
PG&E Energy Services	4,466,983	4,466,983	88,851
Questar Energy Trading Company	699,267	699,267	12,110
QST Energy Trading, Inc	1,069,135	1,069,135	25,073
QST Energy, Inc	350,759	4,308	63

See footnotes at end of table.

Table B7. Electric Power Marketers in the United States, 1996--Continued

Company Name	Total Purchase (megawatthours)	Total Sales (megawatthours)	Total Revenue from Sales (thousand dollars)
Rainbow Energy Marketing.....	848,866	845,034	23,532
Sonat Power Mkt 'g Limited.....	8,782,536	8,767,524	225,282
Southern Energy Trd 'g & Mkt'g.....	76,808,022	76,808,022	1,880,743
Stand Energy Corporation.....	3,559,909	3,559,909	67,943
State Line Energ LCC.....	7,642	7,642	216
Strategic Energy Limited.....	—	—	—
Sunoco Power Marketing LLC.....	364	364	7
SCANA Energy Marketing, Inc.....	109,964	108,556	2,129
Tenaska Power Services Co.....	1,229,515	1,226,940	24,740
Tennessee Power Company.....	117,665	117,665	2,048
The Power Co of America LP.....	18,203,968	18,198,374	423,097
Tractebel Energy Markt 'g Inc.....	2,582,800	2,582,800	64,079
Unitil Resources, Inc.....	16,800	—	—
UGI Power Supply, Inc.....	107	—	—
Vastar Power Marketing, Inc.....	5,901,096	5,900,487	141,505
Wheeled Electric Power Company.....	1,727,392	—	—
Williams Energy Services Co.....	13,258,110	13,258,110	332,432
Williams Generation Co-Hazeltn.....	—	816	16
Working Assets Green Power, Inc.....	4,551	—	—
XENERGY, INC.....	246,903	—	—

Notes: •Active Power Marketers that submitted information to EIA. •Information on cost of purchase power are not collected on the Form EIA-861.
Source: Energy Information Administration, Form EIA-861 "Annual Electric Utility Report."

Appendix C

Fundamentals of Electric Power Transmission and Integrating Nonutility Generators

Appendix C

Fundamentals of Electric Power Transmission and Integrating Nonutility Generators

Fundamentals of the Electric Power Transmission System

The electric power system in the United States contains three interrelated elements: the generating facilities that produce the power; the transmission network that conducts the flow of power from the points of generation to the points of distribution; and the distribution system that delivers the electric power to the consumers. The transmission network is the integrating medium of the power supply system providing the electrical connections between the many geographically separated parts of the electric power generating and distribution systems.

The electric transmission network is unlike any other mode of transportation. The flow of electricity is virtually instantaneous, changing magnitude and direction as conditions on the power system dictate.¹⁷ Electricity distributes itself along paths of least resistance that are determined by a complex electrical relationship involving the relative size, location and distribution of generation resources, transmission line facilities, and centers of demand. All transmission paths share the power transfer, and the degree of sharing is determined by the relationship of the network components. The system consists of transmission lines, substations with voltage transformers, circuit breakers, and other equipment required to transmit power safely from generation sources to ultimate customers. Transmission voltage levels have increased with improvements in technology and in keeping with the growing demand for electricity.

The transmission system performs several essential functions simultaneously: (1) it supplies the physical means for delivering electricity from the generating sources to the load centers; (2) it integrates generating sources and load centers into a flexible and resilient whole; and (3) it interconnects the physical facilities with those of neighboring systems. Although transmission lines are often added to the network initially to meet a single specific requirement, once added they become an integrated part of the transmission network

and their operation becomes interdependent with all the other elements of the network. Operating the system effectively requires significant planning and operational coordination of the generators and transmission facilities to: (1) achieve efficient use of all system facilities, (2) prevent overloading and failure, and (3) maintain adequate reserve transmission and generation capacity to ensure system reliability.

The Need for Coordination of System Operation

The current electrical system has developed in response to the regulations and economics of the electrical utility and nonutility sectors of the electric power industry, as well as to the changing technical factors that influence the generation, transmission, and distribution of electricity. Since the different electrical systems operate as a unified power grid (there are three in the contiguous United States) and the effects of power flows are not confined to contractual paths or apparent direct paths, handling the ever changing flow of electricity is a critical activity for system operators of the power grids. Large power transfers, for example, can change transmission line loadings hundreds of miles from the direct electrical path connecting the source and destination. Actions by individual utilities or NUGs can affect the operation of all the others on the system.

Control and Operation of Electric Systems

As electrical energy itself cannot be stored (at the voltage and ampere levels in use on a power grid), power must be instantaneously available to end users at any time, in any amount at the proper voltage. As a result, severe demands are imposed on electrical equipment and the transmission network when meeting changing loads. Monitoring the flow of scheduled electricity, handling customer requirements, and coordinating trade among utilities are the responsibility of the dispatch center. A dispatch center

¹⁷ The frequency of electric power supply in the United States is almost entirely 60 hertz (formerly cycles per second). The frequency of a system depends entirely upon the speed at which the supply generator is rotated by its prime mover. James Robert Eaton, *Electric Power Transmission Systems* (Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1972), pp. 2-3.

can be operated independently of other electrical systems by a single utility; it can link two or more interconnected utilities, or even unify several power systems with combined load requirements and maintenance programs.

The operators of dispatch centers must continually monitor load patterns to ensure that adequate electricity is available at all times. For most dispatch centers, it is the daily responsibility to (1) record the flow of electricity at the customer load centers and the entering and exiting amounts on its transmission lines, (2) watch the transmission connecting points for each interconnected electrical system, and (3) monitor the power flow from each generation plant. The dispatch center determines the power available from its system, balances the unit-generation marginal costs with buy-or-sell opportunities with other utilities, coordinates the bulk power transactions, examines what plants must be dispatched to avoid technical system problems or undue economic costs, and accounts for system power losses. It also projects demand requirements in order to determine how much generating capacity will be needed and when. These projections may be done hourly, daily, weekly, or at longer intervals.

One electrical operating entity (power pool, electric utility, State authority, and/or Federal utility) within a group of interconnected electrical systems takes responsibility for maintaining system frequency for that electrical geographic area, monitors the load, and ensures generation availability to meet load requirements. Some control centers within these control areas are highly computerized, automatically loading the generating facilities as needed and maintaining the system at the correct operating frequency. This is important because deviations in the scheduled power flows or from the standard system frequency can automatically cause compensating changes in the output at the generating plants. These deviations can mean there has been a loss or gain of a customer load, a plant or line has suffered a forced outage, or some plant or line has been returned to the system. Any of these changes can require some review or action by these control centers.

Stabilizing system frequency is made easier by coordination with other electric systems and by drawing from a larger base of on-line capability. Load changes are absorbed by all the electrical systems, and many of the increasing and decreasing load changes cancel out or offset each other, so that the effect on the entire interconnected electrical system is less than it would be on an isolated electric utility. Also, this integrated system frees each generating unit from the necessity to make continual large changes in production levels.

Integrating Nonutility Generators with the Bulk Electric System

Nonutility generation sources continue to be a growing portion of the U.S. electrical generation capacity. This role of NUGs reflects the changing structure of the electric supply system.

Integrating Nonutility Generators

NUGs present a challenge to the operators of the power grids because of the increasing numbers and their growing contribution to wholesale generation. Matching customer load and generation for both daily operations and future planning activities is becoming increasingly complex with the growing NUG role and increasing use of the transmission system. Electrical reliability concerns and the proper integration of NUGs into the supply system have become important issues.

The proper integration of NUGs into the electrical operations of interconnection and dispatching generation can be regarded as engineering problems for which technical solutions are available. However, there are institutional issues associated with the responsibility for serving customers and control of the electrical system. The increasing role of NUGs has altered the traditional view of participants in the electrical supply.

Utilities have three basic concerns involving the integration of NUGs with the bulk power system, relating primarily to the relationships of the NUGs, utilities, and customers:

- Utilities, with the principal responsibility to operate the system, do not always have full operating control over the NUGs.
- The forces that drive NUG development and operation do not necessarily coincide with the obligations of the utilities to serve customer demands.
- The fulfillment of NUG development plans to support the future generation requirements of the system are not controlled by the utilities, which are obligated to provide sufficient capacity.

The investor-owned utility obligation to serve is part of what was once called the "regulatory compact," which tied the utility exclusivity to a service territory franchise and requires that the rate of return and prices be set by a regulatory body. However, the obligation of NUGs to provide power tends to be contractual. This contractual obligation (power sales contract) must be satisfied to provide an adequate return on investment and to service debt.

The perspectives of some utility industry organizations and NUG participants on these obligations may differ. Some of these differences can be attributed to positions of the organizations in the market, with respect to their cost structures and existing capacity.

Some utilities welcome the opportunity for potential cost savings and diversity of supply options offered by NUGs, others are more concerned about operations and overall system reliability.

In response to such concerns, the North American Electric Reliability Council (NERC), which the utility industry charged to oversee the reliability of the bulk electric supply, has established guidelines on the minimum operating considerations that all utility and nonutility generators must follow to ensure the continued reliability of the system.¹⁸

Impact of Nonutility Generation on the Supply System

The electric utility industry and nonutility industry have worked together to safely and reliably interconnect NUGs. Many utilities are increasingly relying on NUG power as an important source of power. Several factors which utilities may not control can influence the operation of the overall system. The overall level of increase in NUG capacity is just one element. The size of individual facilities has a direct bearing on the potential system impacts; small facilities are less likely to have the same impacts as large ones. At the same time, the locations of individual projects, even small ones, can be critical. Where a facility is sited can affect transmission line loadings and substation equipment operation. Similarly, the timing of power

production from a NUG facility can affect the balance of power flows on the system. Moreover, the availability and reliability of NUG power can influence the operation of the system and the requirements for reserve capacity.

The electrical supply system is operated within closely watched tolerances and can require complex and real-time balancing of generation and transmission facilities with fluctuating demand. The substantial interrelationships of all the system components--utility and nonutility--suggest that generation capacity that falls outside the direct control of system operators increases their operational and planning challenges, and may affect system reliability. The extent to which operation, size, location, timing, availability and reliability of NUG power production can be coordinated with system operators will determine the impacts of NUG integration on the bulk electricity supply system.

Technically, all of these factors exert both positive and negative influences on the electrical system, depending on site-specific conditions and timing of actions. For example, a NUG facility could be located specifically to help a utility avoid a transmission or distribution bottleneck. Proper integration of NUGs into the daily operational control and management of the electrical power grid is critical for capturing the benefits and minimizing the disadvantages for all entities connected to the grid.

¹⁸ North American Electric Reliability Council, *Integrating Nonutility Generators* (Princeton, New Jersey, January 1992). The specific guidelines now address both planning and operating considerations, and apply to all utility and nonutility sources. The guidelines address a range of needs, from specific design issues, to information needs, and data exchange requirements. The guidelines also cover how the generation sources would be brought on- and off-line during routine and emergency conditions.

Appendix D

Technical Notes

Appendix D

Technical Notes

Sources of Data

The data sources used to produce this publication include selected items from the following Federal Energy Regulatory Commission (FERC), Energy Information Administration (EIA), and Rural Utilities Service Administration (RUS) annual data collection forms:

- Form EIA-412, "Annual Report of Public Electric Utilities"
- Form EIA-861, "Annual Electric Utility Report"
- Form FE-781R, "Annual Report of International Electrical Export/Import Data"
- FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others"
- FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees"
- RUS Form 7, "Financial and Statistical Reports - Electric Distribution Borrowers"
- RUS Form 12a through 12i, "Electric Power Supply Borrowers," and RUS Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities"

Completion of these forms by electric utilities is mandatory. Individual forms are completed by all U.S. utilities meeting specific ownership and size criteria. Sampling methods are not used as part of these surveys except for minimum threshold reporting; all qualifying utilities (that is, all utilities satisfying reporting criteria) are required to report annually.

Other 1996 data collected on these forms are also published by EIA and RUS in the following reports: *Financial Statistics of Selected Investor-Owned Electric Utilities 1996* (DOE/EIA-0437)/1, *Financial Statistics of Selected Publicly Owned Electric Utilities 1996* (DOE/EIA-0437)/2, and *Annual Report of Energy Purchased by RUS Borrowers* (REA).

Form EIA-412, "Annual Report of Public Electric Utilities"

Summary of Primary Purpose.

Form EIA-412 is used to collect detailed accounting, financial, and operating data annually from publicly owned electric utilities in the United States. For the fiscal or calendar year that ended December 31, 1996, new criteria were used to select the reporting respondents for this form. Publicly owned electric utilities engaged in the generation, transmission, or distribution of electricity that had 120 million kilowatthours of sales to ultimate consumers or 120 million kilowatthours of sales for resale for the 2 previous years as reported on Form EIA-861, "Annual Electric Utility Report," must submit Form EIA-412.

Instrument and Design History.

Federal Power Commission (FPC) Form 1M was implemented as a mandatory survey by the FPC in 1961. It became the responsibility of the EIA in October 1977 when the FPC was merged into the DOE. Effective January 1980, the FPC Form 1M was superseded by Form EIA-412, also a mandatory survey, used to collect the same data as those previously reported on FPC Form 1M.

Data Processing

The processing of data reported on FERC Form 1, Form EIA-412, and Form EIA-861 is the responsibility of the Electric Power Division of the Office of Coal, Nuclear, Electric and Alternate Fuels. The normal processing of FERC Form 1-F is the responsibility of the FERC. Automated systems are used to edit data from the surveys, using deterministic and statistical checks. When these data have passed the editing process, they are aggregated into a master file, which is used as input to this publication's data base.

Form EIA-861, "Annual Electric Utility Report"

Summary of Primary Purpose.

Form EIA-861 is a census of electric utilities in the United States. The mandatory survey is used to collect information on power production and sales data from approximately 3,195 electric utilities. The data collected are used to maintain and update the EIA electric utility frame data base. This data base supports queries from the Executive Branch, Congress, other public agencies, and the general public. Summary data from Form EIA-861 are also contained in the *Electric Power Monthly*, the *Electric Sales and Revenues 1996*, the *Financial Statistics of Selected Investor-Owned Electric Utilities 1996*, and the *Financial Statistics of Selected Publicly Owned Electric Utilities 1996*. These reports present totals for electric utilities on a national level, by State, and by ownership type.

Instrument and Design History.

Form EIA-861 was implemented in January 1985 to collect data as of the end of 1984. The Federal Energy Administration Act of 1974 (Public Law 93-275) defines the legislative authority to collect these data. Detailed comparisons and descriptions of conceptual problems affecting the quality of the data are discussed in the report, *An Assessment of the Quality of Selected EIA Data Series: Electric Power Data*.

Form FE-781R, "Annual Report of International Electrical Export/Import Data"

Summary of Primary Purpose.

Form FE-781R is used to collect on an annual basis, monthly international electricity trade information on the gross amounts of electrical energy imports and exports and the costs and revenues associated with these transactions. The use of the format contained in Form FE-781R is optional for reporting purposes; however, submission of the data is mandatory

Instrument and Design History.

The authority to issue presidential permits pursuant to Executive Order Number 10485 was transferred to the Secretary of Energy by Executive Order Number 12038 (43 FR 4957 February 7, 1978). This responsibility was delegated by the Secretary to the Economic Regulatory Administration (DOE Delegation Order Number 0204-04, October 1, 1977). The authority was redelegated (DOE Delegation Order Number 127) to the Office of Fuels Programs, the Office of Fossil Energy (54 FR 11436 March 20, 1989). The survey universe is defined under Title 10 of the Code of Federal Regulations, Sections 205.308 and 205.325 to include all public utilities or other entities subject to the Department of Energy jurisdiction under Part II of the Federal Power Act, engaged in the export of electrical energy across the international borders of the

United States with Canada and Mexico, or, who own the physical facilities, which are used to transmit power across the international border.

Data Processing.

Form FE-781R is mailed to the respondents to collect annually the monthly data for the preceding calendar year. The completed forms are to be returned to the DOE by February 15. The receipts are manually edited and the data used for the Presidential Permit Program are entered into a machine readable format.

FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others"

Summary of Primary Purpose.

The Federal Energy Regulatory Commission (FERC) Form 1 is used to collect detailed accounting, financial, and operating data annually from "major" investor-owned electric utilities having, in each of the last 3 consecutive years, sales or transmission service that exceeds any one of the following: 1 billion kilowatthours of total sales, 100 thousand kilowatthours of sales for resale, 500 thousand kilowatthours of gross interchange out, or 500 thousand kilowatthours of wheeling for others (deliveries plus losses). The FERC Form 1-F is used to collect detailed accounting, financial, and operating data annually from "minor" investor-owned electric utilities that fall below the major category. For the year 1996, jurisdictional filings of the FERC Form 1 and 1-F totaled 212; though not all can be considered traditional electric utilities. See Table B1 (Appendix B) for those that qualified in 1996.

Instrument and Design History.

FERC Form 1 was implemented in 1935 by the Federal Power Commission (FPC). In October 1977, it became the responsibility of the EIA to publish energy data when the FPC was merged into the Department of Energy (DOE). This mandatory report is prepared in accordance with the FERC's Uniform System of Accounts for private utilities and licensees. In 1990, the wholesale trade schedules were modified. The Summary of Interchange schedule was absorbed by the Purchased Power Schedule and the Transmission For and By Others schedule was changed from a narrative format into two separate tabular collection schedules. In addition to these schedule changes, the statistical classifications covering the data filed on these schedules were adjusted.

Uniformity of Treatment.

The uniformity of treatment accorded the utilities' statements in this report will generally permit ready comparison of items among the utilities included in the compilations. These statements were filed by all "major" investor-owned electric utilities subject to the FERC accounting jurisdiction.

The Uniform System of Accounts prescribed for use by electric utilities under the FERC's jurisdiction was prepared in cooperation with the National Association of Regulatory Utility Commissioners.¹⁹ In all material respects, the Uniform System of Accounts conforms with the Association's approved system adopted by certain State commissions. The "major" investor-owned electric utilities are required to follow the Uniform System of Accounts. In the presentation of individual utility data, the utilities are grouped according to the survey form and the class of ownership to which the utility belongs. The 504 publicly owned electric utilities that filed the EIA-412 in 1996 are requested to follow the Uniform System of Accounts when making their filings.

No attempt has been made to consolidate (in the technical accounting sense) the accounts of the utilities included in the summary statement of this report. The combined totals represent the arithmetic sum of accounts as reported by the individual utilities. Consequently, duplications exist to a limited extent in the composite totals shown in several statements. Therefore, as a result of mergers, consolidations, and sales of properties to public authorities, as well as the introduction of new utilities, the dollar and quantity figures presented in the report will not be representative of exactly the same properties from year to year.

FERC Form 1-F, "Annual Report of Nonmajor Public Utilities and Licensees"

Summary of Primary Purpose.

FERC Form 1-F is used to collect limited accounting, financial, and operating data annually from investor-owned electric utilities that are not classified as "major," and had total sales in each of the last 3 consecutive years of 10 million kilowatthours or more.

Instrument and Design History.

FERC Form 1-F was implemented by the FPC regulations under the authority of the Federal Power Act as FPC Form 1-F for the year 1961 and thereafter. In October 1977, the FPC was merged into the DOE. This mandatory report is prepared in accordance with the FERC's Uniform System of Accounts for Private Utilities and Licensees.

Publication--FERC Form 1 and Form EIA-412

Data on plant construction cost, production expenses, generating equipment characteristics, and other relevant operating data are no longer published.

Financial data can be found in the *Financial Statistics of Selected Investor-Owned Electric Utilities 1996* and *Financial Statistics of Selected Publicly Owned Electric Utilities 1996*. These data include the following: income and earnings, taxes, depreciation and amortization, distribution of salaries and wages, electric utility operating revenues, electric utility operation and maintenance expenses, and generating plant statistics. Planned construction data, year-end balance sheets, and general corporate information are also included.

Information Collected on FERC Form 1, Form EIA-412, and Form

EIA-861

Reported data selected from FERC Form 1 include sales for resale, purchased power, exchanges, and wheeling, while the reported data selected from Form EIA-412 include only sales for resale and purchased power.

"Electric Energy Account Summary data" for the municipals, cooperatives, Federal power marketing administrations, and the Tennessee Valley Authority were summarized from Form EIA-861. Form EIA-861 is used to collect information for EIA on the statistics of electric utilities and their generation, transmission and distribution of electric energy in the United States, its territories, or Puerto Rico. Form EIA-861 is mandatory under Public Law 93-275, the Federal Energy Administration Act of 1974.

Rural Utilities Service (USDA) Cooperative Utilities

In an effort to broaden the coverage in this report of the electric utility industry, information has been included from the Cooperative Borrowers of the Rural Utilities Service (RUS). These data are based on financial and statistical information submitted to the RUS in 1996.

The operating data collected by the RUS furnish information needed for checking the security of government loans, the preparation of estimates used in forecasting expenses for future loans, and allow the RUS to fulfill its reporting obligations. The reports prepared by the cooperative utilities must accurately

¹⁹ The National Association of Regulatory Utility Commissioners includes members of the railroad, public utilities, and public service commissions of the 50 States, the District of Columbia, the Commonwealth of Puerto Rico, and the territory of the Virgin Islands. The following Federal regulatory agencies also were included: the Interstate Commerce Commission, the Federal Energy Regulatory Commission, the Federal Communication Commission, and the Securities and Exchange Commission.

reflect the financial data as shown by their books of account.

Confidentiality of the Data.

The data collected on the forms used for input to this report are not confidential.

Quality of Data

The Office of Coal, Nuclear, Electric and Alternate Fuels is responsible for routine data improvements and quality-assurance activities in accordance with standards established by EIA. These standards are the measuring rod necessary for quality statistics. Data-improvement efforts include follow-up on nonrespondents, verification of data-keyed input by automatic computerized methods, and editing by subject-matter specialists.

Completed forms received by the Office of Coal, Nuclear, Electric and Alternate Fuels are sorted, screened for completion of reported information, and keyed onto computer tapes for storage and transfer to data bases on random access storage devices for computer processing. The information coded on the computer tapes is spot-checked against the data reported on the forms to certify accuracy of the tapes. Computerized respondent data files are checked to identify those who fail to respond to the survey. By law, nonrespondents may be fined or otherwise penalized for not filing an EIA data form as prescribed in the instructions. Before invoking the law, EIA tries to obtain the required information by encouraging cooperation of nonrespondents.

The individual utility identification codes for new and existing entities are edited prior to being sent for data entry. Additional edit checks of these data are performed through computer programs. The program edits include both deterministic checks, in which records are checked for the presence of data in required fields, and statistical checks, in which the data are checked against a range of values based on historical data values and for logical or mathematical consistency with data elements reported in the form. Discrepancies arising as a result of these checks are resolved either by the processing office or by a telephone call to the company concerned.

Data Validation Procedures

The methodology used to develop this report is based on procedures and techniques routinely employed in data requirement reviews and data validation projects conducted by and for EIA. The four-step process used consists of: (1) identifying patterns of respondent misreporting and inconsistencies in reporting between respondents; (2) analyzing each problem identified to

develop probable causes; (3) correcting the identified problems; and (4) modifying the forms and/or instructions to eliminate or minimize future occurrences. The objective of the process is to make improvements that will:

- Improve the readability, accuracy, and meaningfulness of the data collected on wholesale electricity trade
- Reduce respondent burden by means of clarifying instructions, simplifying form layout, and eliminating unnecessary calculations
- Effect data standardization among the various forms used to collect wholesale electricity trade data
- Facilitate the computerization of wholesale electricity trade data to be collected in the future.

A variety of methods were used to identify reporting problems including:

- Manual pre-edit of FERC Form 1 and Form EIA-412 to identify nonstandard responses that could not be computerized as submitted by the respondent
- Manual review of selected forms to characterize patterns of reporting and misreporting and the type of respondents responsible
- Automated statistical reports (such as frequency counts) summarizing respondent reporting regarding individual data items
- Automated interform data validation to identify inconsistencies between aggregate level data reported by a respondent on Form EIA-861 and FERC Form 1
- Automated intraform data validation to identify reporting inconsistencies (such as, total does not equal the sum of the components)
- Automated interform data validation to identify inconsistencies between respondents reporting the same transaction (such as, the buyer and the seller of power reporting different quantities of energy delivered and received)
- Follow-up telephone calls are made to respondents (excluding those who filed FERC Forms) regarding confusing and/or inaccurate entries. Questions on the accuracy of filings made to the FERC are handled at the discretion of FERC staff.

The causes of misreporting and inconsistent reporting were identified principally by studying in detail the form layouts and instructions, and identifying patterns and trends in misreporting among all respondents. Considerable judgment was necessary in developing probable causes since all respondents could not be systematically contacted regarding errors. As an alternative, explanatory footnotes found in the completed forms, supplementary pages, and manual checks were used to confirm and validate the data. Once probable causes were identified, modification of the forms was straightforward.

Data Edits

The data used for this publication are limited to those reported by respondent utilities. The following edit checks were used to identify missing or inaccurate data from the information that was initially reported by the respondent utilities.

- Energy--Sales for Resale and Purchased Power
 - No single transaction could exceed 4,380 million kilowatthours.
 - If sales or purchase transactions were reported, an energy receipt or delivery was required.
 - Reported totals or subtotals had to equal the sum of energy transactions.
- Energy--Interchanges (Exchanges)
 - No single transaction could exceed 4,380 million kilowatthours.
 - If interchange transactions were reported, an energy receipt or delivery was required.
 - Net energy received for a transaction had to equal total energy received minus energy delivered.
 - Reported totals or subtotals had to equal the sum of energy transactions.
- Revenue--Sales for Resale
 - Total revenue for a transaction had to equal the sum of reported revenue-demand, revenue-energy, and revenue-other.
 - Total revenue for a transaction divided by the kilowatthours sold for resale had to be in the range of 0.5 to 20 cents per kilowatthour.
 - Reported revenue totals or subtotals had to equal the sum of revenue transactions.
- Cost--Purchased Power
 - Total cost for a transaction had to equal the sum of demand, energy, and other costs.
 - Total cost of a transaction divided by kilowatthours purchased had to be in the range of 0.5 to 20 cents per kilowatthour.
 - Reported cost totals or subtotals had to equal the sum of cost transactions.
- Settlement--Interchanged Energy (Exchanges)
 - For transactions involving monetary settlement, the settlement amount divided by net kilowatthours received or delivered was required to be in the range of 0.5 to 20 cents per kilowatthour.
 - For settlement transactions involving monetary settlement, settlement amount was required to be positive if more energy was received than delivered; negative if more energy was delivered than received.
 - Reported totals and subtotals had to equal the sum of settlement transactions.

Adjustments

Since the Federal forms used to collect electricity trade data are essentially accounting forms, adjustment data are routinely provided so that submitted data will be consistent with the accounting systems of the utilities. Many respondents include adjustments, particularly those related to transactions occurring in the reporting year, as a component of the related transaction. However, adjustments to transactions occurring in previous years are aggregated with current year transactions or are listed separately (that is, rebates, overcharges, reclassifications, fuel cost adjustments, etc.).

Sales for Resale and Purchased Power

Sales for resale data are collected on FERC Form 1, Form EIA-412, RUS Form 7, and RUS Form 12. The primary sources of this information are FERC Form 1 and a few of the Form EIA-412's completed by Federal and State agencies. These respondents account for most of the wholesale electricity trade in the United States. The detailed data on sales for resale are not keyed into a machine-readable format by the RUS; therefore computer matching was not done.

Since sales for resale on Form EIA-412 is on a fiscal-year basis as opposed to calendar year, the Form EIA-412 data are not consistent with data collected on the other wholesale electricity trade schedules. Also wholesale electricity trade sales cannot be aggregated for all Form EIA-412 respondents because the respondents use different fiscal years. This is also true for the purchased power data. In 1989, the statistical classifications of the Form EIA-412 were modified to gather information on the types of electrical power and energy purchased and sold. The 1990 data reflect the collection of data using the enlarged statistical classification groupings.

The RUS Form 12, unlike FERC Form 1 and Form EIA-412, is not used to collect sales according to statistical classification (that is, firm, dump, and other power). The RUS does not process the sales for resale data reported on the RUS Forms 7 and 12. As such, cross-checking between buyers and sellers is less comprehensive. It also should be noted that Form EIA-412 was used to collect statistical classification data for both sales and purchased energy in 1996, while the RUS did not collect statistical classification data for either.

The purchased power schedules on Form EIA-412 and RUS Forms 7 and 12 does not include interchange (exchange) transactions. Form EIA-412 respondents are asked to report exchanges on a gross basis on the Energy Account Balance schedule. The RUS Forms 7 and 12 do not specifically address interchange (exchanges) transactions, but respondents are to report transactions on a net basis, if there is a cash payment.

Interchange (Exchange)

Both purchase and interchange costs fall under the Uniform System of Accounts No. 555, and were reported on two different schedules until 1990. In 1990, the Summary of Interchange Schedule was deleted from the FERC Form 1 and the information collected on that schedule were shifted to the Purchased Power Schedule. The FERC has determined, for their regulatory accounting purposes, that the term, "interchange," means energy that is only exchanged in kind. Historically, however, "interchange" has been used by the industry to mean all energy transfers between utilities (sales, purchases, exchanges, and wheeling) and it has resulted in inconsistent reporting.

Transmission For Others and By Others (Wheeling)

Detailed data on the Transmission For or By Others are collected only on FERC Form 1. Before 1990, respondents provided in a narrative format six basic elements of information for each wheeling transaction:

- Name of company and description of service
- Points of origin and termination of service
- Megawatthours received and delivered
- Monetary settlement
- Nonmonetary settlement
- Other explanations needed to describe the transactions.

The FERC Form 1 was modified for the 1990 collection year. The narrative schedule was changed to two separate tabular formats. The Transmission For Others schedule now collects additional information on: payments made by, energy received from; energy delivered to; statistical classification; FERC rate schedule; disaggregation of monetary settlement into demand, energy, other, and total; and points of origin, termination of service, and nonmonetary settlement were all deleted. Transmission By Others now collects information on name of company; megawatthours received and delivered; and expenses for transmission of electricity by others (e.g., demand, energy, other, and total).

Difference between Publication Methodologies

The Federal Energy Regulatory Commission modified the FERC Form 1 in 1990 in order to handle better their responsibilities under the Federal Power Act. New information was requested that included statistical classification categories which collected data on power and energy transactions based on the original contractual terms and conditions. Because of this new information, the firm, nonfirm, and miscellaneous publication categories used in prior years were adjusted to handle these new classifications.

In prior publications, firm trade was defined as any transaction in which the charges had to include a demand charge. Firm trade data were then separated into two groups. The first group included transactions with demand charges where no quantities of energy were delivered or received (possible under "take or pay contracts"), and the second included quantities of energy that were traded with an "Energy," and sometimes, "Other" charge. (The "Other" charge in the firm category covers associated payments made on utility transactions for expenses associated with operating and/or renting physical facilities such as transmission lines and substations).

The differences between nonfirm electricity trade and the firm categories is that no demand charges are involved in the nonfirm transactions. The energy charge plus any "Other" charges associated with those transactions represented the value of these nonfirm transactions. The last grouping, "Other," includes transactions which did not include a demand or energy charge. (The filing electric utilities usually did not provide descriptive explanations.) However, from the footnotes provided and the account descriptions, data in this category do include: purchasing or maintaining operating reserve expenses; stability and reliability standards expenses; transmission line and other facility rentals; and other system operating charges.²⁰

For this publication, the revised FERC classifications were used for inputs which helped define the firm, economy, and other electricity trade categories. Form redesigns implemented in reporting year 1990 for both FERC Form 1 and Form EIA-412 permitted respondent reported data to be used to differentiate between firm and nonfirm power trades.

The following list shows the type-of-trade categories reported by the FERC Form 1 and the Form EIA-412 respondents.

- FERC Form 1
 - Requirements (RQ)
 - Long-Term (LF)
 - Intermediate Firm (IF)
 - Short-Term Firm (SF)

²⁰ FERC Form 1 provides summary totals for electric operation and maintenance expenses. Pages 320-323 of FERC Form 1, under the schedule "Electric Operation and Maintenance Expenses," include information on power production, transmission, and distribution expenses (Uniform System of Accounts 500 to 935). These summary data are reported in the EIA publication, *Financial Statistics of Selected Investor-Owned Electric Utilities*, DOE/EIA-0437(94). This information cannot be linked to the individual transactions.

- Long-Term
- Intermediate Firm (IF)
- Short-Term Firm (SF)
- Long-Term Unit (LU)
- Intermediate Unit (IU)
- Exchange Power (EX)
- Other Service (OS)
- Adjustments (AD)
- Form EIA-412
 - Firm Power (FP)
 - Unit Power (UP)
 - Economy Power (EP)
 - Dump Power (DP)
 - Maintenance/Emergency Power (ME)
 - Operating Reserve (OR)
 - Other Capacity/Energy (OT).

Appendix A provides the FERC Form 1 definitions found on pages 310 and 326. Form EIA-412 definitions are found on Schedules V and VII of the form.

Like previous years, 1996 transactions without energy receipts or deliveries but with demand charges are classified as firm, "demand charge only" trade. FERC Form 1 and Form EIA-412 respondents do not always report type of trade data, which results in missing data. Likewise, data is missing for cooperatives, since they are not required to report the type-of-trade on the Rural Utilities Service (RUS) Forms RUS-7 and RUS-12. Imputations for missing type-of-trade data are performed according to the following procedures:

- Purchased Power. If the respondent utility (the purchasing utility) reported no net generation on the 1996 Form EIA-861, then the trade is classified as firm. Otherwise the trade is classified as economy.

Data Revisions

The foregoing edits identified data errors. Data inaccuracies resulting from transcription and typographical errors, reporting in the wrong units (for example, kilowatthours instead of megawatthours) and arithmetic errors were corrected after discussions with respondents. Many suspected data errors were found to be correct as reported. Explanations provided by respondents included:

- The transaction was an energy or monetary adjustment to information previously reported. Adjustments reflected settlement of contract disputes, reimbursement of overcharges, or accounting errors and often were one-time bookkeeping corrections.
- The transaction involved large demand charges, but a small amount of energy was delivered.

- The transaction was a nonstandard operating condition such as loop and inadvertent energy flow, emergency power deliveries, or sale of energy under a purchase contract.
- The transaction was for access rights or the lease of equipment used in the sale or purchase of energy.
- The transaction was between two associated utilities or a utility and a power pool reporting internal energy, revenue, or cost accounting practices (for example, allocations).

Consistency Checks

In addition to edit checks, data consistency checks were performed to improve the quality of the data presented in this publication. The consistency checks involved comparing, when possible, Sales for Resale data (revenue and energy) reported by one respondent with the purchased power data (cost and energy) reported by the respective buyers of the energy. Discrepancies of more than 10 percent were discussed with both the selling and the buying utilities to determine if a reporting error had been made. A similar procedure was used to confirm data inconsistencies between utilities that interchanged energy.

Consistency checks identified data errors, but discussions with respondents determined that most of the data were correct as reported. Reasons provided included:

- A sale or purchase by one utility was considered an interchange by the other utility in the transaction.
- Sales, purchases, and interchanges for noninvestor-owned utilities transacted late in the year can be reported in the year in which the transaction occurred or in the following year in which they are booked.
- Data submitted by a utility can cover different reporting periods depending upon the requirements of the forms; Form EIA-412 is a report of the utility's fiscal year while the other forms are for a calendar year.
- Different accounting and reporting procedures are used for recording loop and inadvertent energy flow, equipment and lease charges, service fees, fuel and other adjustments, and corrections to previously reported information.

Corrections

Corrections were made to the data when missing or inaccurate data were provided by the respondent. Missing and inaccurate information identified during data automation and report preparation were discussed with respondents during the edit process either to correct the data supplied, or to confirm the values. In all cases, the forms were reviewed during the edit process with the respondent, and changes were made at the direction of the respondent.

Explanatory Notes

Data are reported on FERC Form 1 in accordance with the FERC's Uniform System of Accounts. Data are reported on the RUS Forms 7 and 12 in accordance with the RUS Uniform System of Accounts (based on the FERC System, with minor modifications). Copies of the *Uniform System of Accounts Prescribed for Both Private and Cooperative Borrowing Electric Utilities* are available from the U.S. Government Printing Office (GPO).

General Information

Use of the Glossary

The terms in the glossary have been defined for general use. Restrictions on the definitions, as used in these data collection systems, are included in each definition when necessary to define the terms as they are used in this report.

Obtaining Copies of the Data

This publication is available on a subscription basis from the Superintendent of Documents, U.S. Government Printing Office (GPO). Make check or money order payable to the Superintendent of Documents. You may send your order to the GPO or the National Technical Information Center (NTIC). GPO and NTIC prices are subject to change without advance notice.

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Glossary

Accounting System: A system of recording accounting data for a utility or company; or of supplying accounting information for controlling, evaluating, planning, and decision-making.

Administrative and General Expenses: Expenses of an electric utility relating to the overall directions of its corporate offices and administrative affairs, as contrasted with expenses incurred for specialized functions. Examples include office salaries, office supplies, advertising, and other general expenses.

Ampere: The unit of measurement of electrical current produced in a circuit by 1 volt acting through a resistance of 1 ohm.

Associated Company (Affiliated): A company that is either directly or indirectly controlled by or owned by another firm or holding company.

Automatic Generating Control: The regulation of the power output of electric generators within a prescribed control area in response to changes in system frequency. The line loading or the relation of these to each other, so as to maintain the scheduled system frequency and/or establish interchange with other areas within predetermined limits.

Available but not Needed Capability: Net capability of main generating units that are operable but not considered necessary to carry load, and cannot be connected to load within 30 minutes.

Average Water Conditions: The amount and distribution of precipitation within a drainage basin, and the run-off conditions present, as determined by reviewing the area water supply records over a long period of time.

Backup Power: Electric energy supplied by a utility to replace power and energy lost during an unscheduled equipment outage.

Base Bill: A charge calculated by taking the rate from the appropriate electric rate schedule and applying it to the level of consumption.

Base Rate: A fixed amount charged each month for any of the classes of utility service provided to a customer.

Baseload: The minimum amount of electric power delivered or required over a given period of time at a steady state.

Baseload Capacity: The generating equipment normally operated to serve loads on a round-the-clock basis.

Baseload Plant: A plant, usually housing high-efficiency steam-electric units, which is normally operated to take all or part of the minimum load of a system, and which consequently produces electricity at an essentially constant rate and runs continuously. These units are operated to maximize system mechanical and thermal efficiency and minimize system operating costs.

Black Start Capability: The ability of a generating unit or station to go from a shutdown condition to an operating condition and start delivering power without assistance from the power system.

Block Rate Schedule: An electric rate schedule with a provision for charging a different unit cost for various increasing blocks of demand or energy. A reduced price is charged on succeeding blocks.

Boiler: A device for generating steam for power, processing, or heating purposes; or hot water for heating purposes or hot water supply. Heat from an external combustion source is transmitted to a fluid contained within the tubes found in the boiler shell. This fluid is delivered to an end-use at a desired pressure, temperature and quality.

Boiler Fuel: An energy source to produce heat that is transferred to the boiler vessel in order to generate steam or hot water. Fossil fuel is the primary energy source used to produce heat for boilers.

Borderline Customer: A customer located in the service area of one utility, but supplied by a neighboring utility through an arrangement between the utilities.

Btu (British thermal unit): A standard unit for measuring the quantity of heat energy equal to the quantity of heat required to raise the temperature of 1 pound of water by 1 degree Fahrenheit.

Bulk Power System: The interconnected electrical systems comprising generation and transmission facilities on which faults or disturbances can have a significant effect outside the local area.

Bulk Power Transactions: The wholesale sale, purchase, exchange of electricity, and/or transmission services (wheeling) among electric utilities. Bulk power transactions are used by electric utilities for many different aspects of electric utility operations, from maintaining load to reducing costs.

Bus: An electrical conductor which serves as a common connection for two or more electrical circuits.

Capability: The maximum load that a generating unit, generating station, or other electrical apparatus can carry under specified conditions for a given period of time without exceeding approved limits of temperature and stress.

Capability Margin: The difference between net system capability and system peak load. Nationally, it is the difference between aggregate net system capability and the sum of system peak loads without allowance for time diversity between the loads of the individual systems. Regional computations take into account the diversity between peak loads of the systems that coordinate operations. This margin indicates the capability available to provide for scheduled maintenance, emergency outages, system operating requirements, and unforeseen loads.

Capability, Emergency Transfer: The amount of power transfer allowed between areas or within an area when operating to meet NERC emergency criteria contingencies.

Capability, Normal Transfer: The amount of power transfer allowed between areas or within an area when operating to meet NERC normal criteria contingencies.

Capacity: The full-load continuous rating of a generator, prime mover, or other electric equipment under specified conditions as designated by the manufacturer. It is usually indicated on a nameplate attached to the equipment as the full-load rating.

Capacity (Nameplate): The amount of electric power delivered or required for which a generator, turbine, transformer, transmission circuit, station, or system is rated by the manufacturer.

Capacity Charge: An element in a two-part pricing method used in capacity transactions (energy charge is the other element). The capacity (demand) charge is assessed on the amount of capacity being purchased.

Capacity Factor: The ratio of the average load on the generating unit, generating plant, or other electrical apparatus during a specified period of time during its operations.

Capacity Transaction: The acquisition of a specified quantity of generating capacity from another utility for a specified period of time. The utility selling the capacity is obligated to make available to the buyer a specified quantity.

Certificate: A type of permit for public convenience and necessity issued by a utility commission, which authorizes a utility or regulated company to engage in business, construct facilities, provide some services, or abandon service.

Circuit: A conductor or a system of conductors through which electric current flows.

Circuit-Mile: The total length in miles of separate circuits regardless of the number of conductors used per circuit.

Classes of Service: Customers grouped by similar characteristics in order to be identified for the purpose of setting a common rate for electric service. Usually classified into groups identified as residential, commercial, industrial, governmental, or other similar groupings within each major classification.

Code of Federal Regulations: A compilation of the general and permanent rules of the executive departments and agencies of the Federal Government as published in the Federal Register. The Code is divided into 50 titles that represent broad areas subject to Federal regulation. Title 18 contains the FERC's regulations.

Cogeneration: The sequential or simultaneous process in which useful heat/steam is generated, used in a variety of process applications, and then directed into a turbine to generate electricity and/or mechanical work from the useful thermal energy still available for use.

Cogenerator: A generating facility that produces electricity and another form of useful thermal energy (such as heat or steam), used for industrial, commercial, heating, or cooling purposes.

Combined Cycle: A cogeneration technology in which additional electricity is produced sequentially from the otherwise lost waste heat exiting from one or more gas-fired turbines. The exiting heat flow is routed to an exhaust-fired conventional boiler or to a heat recovery steam generator for utilization by a steam turbine in the production of electricity. This process increases the efficiency of an electric generating system by turning the rejected heat into thermal steam rather than discharging it into the atmosphere.

Commercial and Industrial: Classes of service supplied to a similar grouping of customers. These customer groupings are usually subdivided into smaller segments by classifying such customers as commercial or industrial using the Federal Government's Office Of Management and Budget's Standard Industrial Classification Guide and/or a scale of energy usage as yardsticks; other customers are reclassified as commercial or industrial when their demands or annual use exceeds some specified limit. These limits are generally based on a utility's rate schedules, except for those customers who are supplied under special contracts or agreements calling for particular services.

Commingling: The mixing of one utility's generated supply of electric energy with another utility's generated supply within a transmission system.

Commission: An agency of government usually composed of three or more members charged with specific duties, functions, and responsibilities.

Conductor: Metal wires, cables, and bus-bar used for carrying electric current. Conductors may be solid or stranded, that is, built up by an assembly of smaller solid conductors.

Connected Load: The sum of the continuous ratings or the capacities for a system, part of a system, or a customer's electric power consuming apparatus.

Contingency: The unexpected event, usually the loss of one or more segments in the interconnected electrical power system.

Cooperative (electric utility): An electric utility legally established to be owned by and operated for the benefit of those using its services. The utility company will generate, transmit, and/or distribute supplies of electric energy to a specified area not being serviced by another utility. Such ventures are generally exempt from the Federal income tax laws. Most cooperatives have initially been financed by the U.S. Department of Agriculture's Rural Utilities Service Administration.

Coordination Service: Coordination service generally involves the sale, exchange, or transmission of electricity between two or more electric utilities that typically have sufficient generation and transmission capacity to supply their load requirements under normal conditions.

Coordination Service Pricing: The typical price components of a bulk power coordination sale are an energy charge, a capacity, or reservation charge, and an adder. The price for a particular sale may embody some or all of these components. The energy charge is made on a per-kilowatt-hour basis and is intended to recover the seller's system incremental variable costs of making a sale. Since the nonfuel expenses are usually hard to quantify and small relative to fuel expense, energy charges quoted are usually based on fuel cost. A capacity charge is set at a certain level per kilowatt and is normally paid whether or not energy is taken by the buyer. An adder is added to the energy charge to recover the hard-to-quantify nonfuel variable costs. There are three types of adders: percentage, fixed, and split-savings. A percentage adder increases the energy charge by a certain percentage. A fixed adder, adds a fixed amount per kilowatt-hour to the energy charge. Split-savings adders are used only in economy energy transactions. They split production cost savings between the seller and the buyer by adding one-half of the savings to the energy cost.

Cost: The amount paid to acquire resources such as plant and equipment, fuel, or labor services. Fixed costs in the electric utility industry are associated with resources that cannot be changed easily during a short time span (such as plant and equipment) and are independent of the level of generation. Variable costs are associated with resources that can vary during a given time period (such as fuel or labor services) and are directly related to the level of generation.

Cost of Service: A ratemaking concept used for the design and development of rate schedules to ensure that the filed rate schedules recover only the cost of

providing the electric service at issue. This concept attempts to correlate the utility's costs and revenue with the service provided to each of the various customer classes.

Current: A flow of electrons in an electrical conductor. The strength or rate of movement of the electricity is measured in amperes.

Deliveries (Electric): Energy generated by one system and delivered to another system through one or more transmission lines.

Demand (Electric): The rate at which electric energy is delivered to or by a system, part of a system, or piece of equipment, at a given instant or averaged over any designated period of time.

Demand Charge: That portion of the consumer's bill for electric service based on the consumer's maximum electric capacity usage and calculated based on the billing demand charges under the applicable rate schedule.

Demand Charge Credit: Compensation received by the buyer when the delivery terms of the contract cannot be met by the seller.

Demand Interval: The time period during which the flow of electricity is measured, usually in 15-, 30-, or 60-minute increments.

Dependable Capacity: The load-carrying ability of a station or system under adverse conditions for a specified period of time.

Diesel-Electric Plant: A generating station that uses diesel engines to drive its electric generators.

Direct Current (DC): An electric current that flows in a constant direction. The magnitude of the current does not vary or has a slight variation.

Dispatching: The operating control of an integrated electric system involving operations such as (1) the assignment of load to specific generating stations and other sources of supply to effect the most economical supply as the total or the significant area loads rise or fall; (2) the control of operations and maintenance of high-voltage lines, substations, and equipment; (3) the operation of principal tie lines and switching; (4) the scheduling of energy transactions with connecting electric utilities.

Distribution system: The portion of the transmission lines and facilities of an electric system off the bulk power system that is dedicated to delivering electric energy to an end-user.

Disturbance: Severe oscillations or severe step changes of current, voltage and/or frequency usually caused by faults.

Disturbance (System): An event resulting in widespread interruptions and characterized by one or more of the following phenomena: the loss of power system

stability: cascading outages of circuits; abnormal ranges of frequency or voltage or both.

Diversity: The electric utility system's load is made up of many individual loads that make demands upon the system usually at different times of the day. The individual loads within the customer classes follow similar usage patterns, but these classes of service place different demands upon the facilities and the system grid. The service requirements of one electrical system can differ greatly from another by time of day usage, facility usage, and/or demands placed upon the system grid.

Diversity Exchange: An exchange of capacity or energy, or both, between systems whose peak loads occur at different times.

Diversity Factor: The ratio of the sum of the non-coincident maximum demands for two or more loads to their coincident maximum demand for the same time period.

Docket: A formal record of a Federal Energy Regulatory Commission proceeding. These records are available for inspection and copying by the public. Each individual case proceeding is identified by an assigned number.

DOE: Department of Energy.

Double-circuit Line: A transmission line having two separate circuits. Since each carries three-phase power, at least six conductors, three per circuit, are required.

Dual-Fired Unit: A generating unit that can produce electricity using two or more input fuels. In some of these units only the primary fuel can be used continuously; the alternate fuel(s) can be used only as a start-up fuel or in emergencies.

Dump Energy: Energy generated in a hydroelectric plant by water that cannot be stored or conserved and which energy is in excess of the needs of the system producing the energy.

Economy Energy: Energy produced and supplied from a more economical source in one system, substituted for that being produced or capable of being produced by a less economical source in another system.

Economy of Scale: A proposition that relatively larger production facilities have lower unit costs than smaller facilities. Economy of scale may exist for any of the phases of operation: generation, transmission, or distribution.

EIA: The Energy Information Administration. An independent agency within the U.S. Department of Energy that develops surveys, collects energy data, and analyzes and models energy issues. The Agency must meet the requests of Congress, other elements within the Department of Energy, the Federal Energy Regulatory Commission, the Executive Branch, its own independent needs, and assist the general public,

or other interest groups, without taking a policy position.

Electric Current: The number of electrons per unit of time moving past a point in a conductor.

Electric Energy: The ability of an electric current to produce work, heat, light or other forms of energy. It is measured in kilowatthours.

Electric Expenses: The cost of labor, material, and expenses incurred in operating a facility's prime movers, generators, auxiliary apparatus, switching gear, and other electric equipment for each of the points where electricity enters the transmission or distribution grid.

Electric Plant (Financial): Assets comprising land, building, and equipment permanently employed.

Electric Plant (Physical): A facility containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric Power: The rate at which electric energy is generated, transmitted, or consumed. Electric power is measured in watts or kilowatts.

Electric Power Industry: The public, private, and cooperative electric utility systems of the United States taken as a whole. This includes all electric systems serving the public: regulated investor-owned electric utility companies; Federal power projects; State, municipal, and other government-owned systems, including electric public utility districts; electric cooperatives, including generation and transmission entities (G & T's); jointly owned electric utility facilities, and electric utility facilities owned by a lessor and leased to an electric utility. Excluded from this list are the special purpose electric facilities or systems that do not offer service to the public.

Electric Power System: An individual electric power entity--a company, an electric cooperative, a public electric supply corporation like the Tennessee Valley Authority, a similar Federal department or agency like the Bonneville Power Administration, the Bureau of Reclamation or the Corps of Engineers, a municipally owned, electric department offering service to the public, or an electric public utility district (a "PUD"); also a jointly owned electric supply project such as the Keystone.

Electric Rate: The price set for a specified amount and type of electricity by class of service in an electric rate schedule or sales contract.

Electric Rate Schedule: A statement of the electric rate and the terms and conditions governing its application, including attendant contract terms and conditions that have been accepted by a regulatory body with appropriate oversight authority.

Electric System Loss: Total electric energy loss from all causes for a electric utility.

Electric Utility: A corporation, person, agency, authority, or other legal entity or instrumentality that owns and/or operates facilities within the United States, its territories, or Puerto Rico for the generation, transmission, distribution, or sale of electric energy, primarily for use by the public and files forms listed in the Code of Federal Regulations, Title 18, Part 141. Facilities that qualify as cogenerators or small power producers under the Public Utility Regulatory Policies Act of 1978 and exempt wholesale generators under the Energy Policy Act of 1992 are not considered electric utilities.

Electrical System Energy Losses: The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted for use.

Electricity: A form of energy generated by friction, induction, or chemical change that is caused by the presence and motion of elementary charged particles of which matter consists.

Emergency: The failure of an electric power system to generate or deliver electric power as normally intended, resulting in the cutoff or curtailment of service.

Emergency Energy: Electric energy provided for a limited duration, intended only for use during emergency conditions.

Emergency, (Major): A situation usually accompanied by abnormal frequency, abnormal voltage and/or equipment overloads which might seriously affect the reliability of the bulk power system.

Emergency (System): An emergency is considered to exist in an area if firm load may have to be shed because sufficient power or energy is unavailable in that area or in a portion of it after due allowance for purchases.

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy Broker System: Introduced into Florida by the Public Service Commission, the energy broker system is a system for exchanging information that allows utilities to efficiently exchange hourly quotations of prices at which each is willing to buy and sell electric energy. For the broker system to operate, utility systems must have in place bilateral agreements between all potential parties and must have transmission arrangements between all potential parties which allow the exchanges to take place.

Energy Charge: That portion of the charge for electric service based upon the electric energy (expressed in kilowatthours) consumed or billed.

Energy Deliveries: Energy generated by one electric utility system and delivered to another system through one or more transmission lines.

Energy Loss (Power): The difference between energy input and output as a result of transfer of energy between two points. The loss changed to the equivalent power rating is sometimes referred to as capacity loss.

Energy Receipts: Energy generated by one electric utility system and received by another system through one or more transmission lines.

Energy Source: The primary fuel or transfer medium that provides the heat/power that is converted to electricity through chemical, mechanical, or other means. Energy sources include coal, petroleum and petroleum products, gas, water, uranium, wind, sunlight, geothermal, and other sources.

End-User: The final consumer of electricity.

Exchange Energy: Electric energy received by an electric utility system usually in exchange for energy delivered to the other system at another time or place. Exchange energy is to be distinguished from a direct purchase or sale, although accumulated energy balances are sometimes settled in cash.

Facilities Charge: An amount to be paid by the customer in a lump sum, or periodically as reimbursement for facilities furnished. The charge may include operation and maintenance as well as fixed costs.

Facility: A location at which prime movers, electric generators, and/or equipment for converting mechanical, chemical, and/or nuclear energy into electric energy are situated. A facility may contain more than one type of prime mover. For cogenerators, the facility includes the industrial or commercial process.

Failure or Hazard: Any electric power supply equipment or facility failure or other event that, in the judgment of the reporting entity, constitutes a hazard to maintaining the continuity of the bulk electric power supply system such that a load reduction action may become necessary and a reportable outage may occur. The impact of this failure/hazard may require the imposition of a special operating procedure, the extended purchase of emergency power, and/or other bulk power system actions.

Federal Energy Regulatory Commission (FERC): The independent Federal regulatory agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification.

Federal Power Act: Enacted in 1920, and as amended in 1935, the Act consists of three parts. The first part incorporated the Federal Water Power Act

administered by the former Federal Power Commission, whose activities were confined almost entirely to licensing non-Federal hydroelectric projects. Parts II and III were added with the passage of the Public Utility Act. These parts extended the Act's jurisdiction to include regulating the interstate transmission of electrical energy and rates for its sale as wholesale electricity in interstate commerce. The Federal Energy Regulatory Commission is now charged with the administration of this law.

Federal Power Commission: The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the Department of Energy was created. Its functions were divided between the Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

Feeder Line: An electrical line that extends radially from a distribution substation to supply electrical energy within an electric service area or sub-area.

FERC: The Federal Energy Regulatory Commission.

FERC Guidelines: A compilation of the Federal Energy Regulatory Commission's enabling statutes, procedural and program regulations, and orders, opinions and decisions.

File Rate Schedule: The rate for a particular electric service, including attendant contract terms and conditions, accepted for filing by a regulatory body with appropriate oversight authority.

Filing: Any written application, complaint, declaration, petition, protest, answer, motion, brief, exception, rate schedule, or other pleading, amendment to a pleading, document, or similar paper that is submitted to a utility commission.

Final Order: A final ruling by FERC that terminates an action, decides some matter litigated by the petitioning parties, operates to some right, or completely disposes of the subject matter.

Firm Power: Electric power intended to meet the load requirement of a utility's customers; there is no planned interruption of services with this type of sale. Utilities may sell capacity for a limited duration and time to other utilities and these types of contractual transactions are also referred to as firm power.

Firm Service: The commitment of generation and/or transmission service to a customer under a filed rate schedule to which the parties to the service anticipate no planned interruption. The allocation of the utility's resources may be system wide, or only for a named unit; the time of availability is usually prescribed as well.

Fiscal Year: A financial year based on a predetermined starting date. The Federal Government's

12-month financial year runs from October 1 through September 30.

Force Majeure Clause: An occurrence generally beyond the control of the buyer or seller in which relief is given by this clause to the parties involved in an agreement. This event, which results in nonperformance of terms in a contract, reliability standards, or operating agreements, will typically relieve a buyer or seller of liability for damages. Some financial or other compensation relief may be available, if additional terms or conditions are written into the contract concerning unexpected problems beyond the control of the parties.

Forced Outage: The shutdown of a generating unit, transmission line or other facility, for emergency reasons or a condition in which the generating equipment is unavailable for load because of unanticipated breakdown.

Frame: All units (i.e., electric utilities) that comprise the population of interest to a given survey. Sub-units may in some instances only be represented in groups, but complete coverage is maintained.

Fuel Emergency: An emergency that exists when supplies of fuels or hydroelectric storage for generation are at a level or estimated to be at a level that would threaten the reliability or adequacy of the bulk electric power supply. The following factors should be taken into account to determine that a fuel emergency exists: (1) Fuel stock or hydroelectric project water storage levels are 50 percent or less of normal for that particular time of the year and a continued downward trend in fuel stock or hydroelectric project water storage level are estimated; or (2) Unscheduled dispatch or emergency generation is causing an abnormal use of a particular fuel type, such that the future supply or stocks of that fuel could reach a level which threatens the reliability or adequacy of bulk electric power supplies.

Full-Forced Outage: The net capability of main generating units that are unavailable for load for emergency reasons.

Gas-Turbine Plant: A plant in which the prime mover is a gas turbine. A gas turbine consists typically of an axial-flow air compressor, one or more combustion chambers where liquid or gaseous fuel is burned and the hot gases are passed to the turbine; where the hot gases expand to drive the generator and then are used to run the compressor.

Generally Accepted Accounting Principles (GAAP): Defined as the conventions, rules, and procedures necessary to define accepted accounting practice at a particular time; includes both broad guidelines and relatively detailed practices and procedures.

Generating Station: A station which consists of electric generators and auxiliary equipment for converting mechanical, chemical or nuclear energy into electric energy.

Generating Unit: An electric generator together with its prime mover.

Generation: The process of producing electric energy by transforming other forms of energy; also, the amount of electric energy produced, expressed in kilowatthours.

Generation (Gross): The total amount of electric energy produced by the generating units in a generating station or stations, measured at the generator terminals.

Generation (Net): Gross generation less the electric energy consumed at the generating station for station use.

Generation Rejection: The process of deliberately removing preselected generation from a Power System in response to an abnormal condition in order to maintain the integrity of the system; sometimes also called generator dropping.

Geothermal Energy: Energy from the internal heat of the earth which may be residual heat, friction heat, or a result of radioactive decay. The heat is found in rocks and fluids at various depths and can be extracted by drilling and/or pumping.

Geothermal Plant: A plant in which the prime mover is a steam turbine. The turbine is driven either by steam produced from hot water or by natural steam that derives its energy from heat found in rocks or fluids at various depths beneath the surface of the earth. The energy is extracted by drilling and/or pumping.

Gigawatt (GW): One billion watts.

Gigawatthour (GWh): One billion watthours.

Grid: The layout of an electrical system.

Gross Generation: The total amount of electric energy produced by a generating station or stations, measured at the generator terminals.

Gross Head: A dam's maximum allowed vertical distance between the upstream's surface water (headwater) forebay elevation and the downstream's surface water (tailwater) elevation at the tail-race for reaction wheel dams or the elevation of the jet at impulse wheel dams during specified operation and water conditions.

Head: The product of the water's weight and a usable difference in elevation gives a measurement of the potential energy possessed by water.

Holding Company: A corporation (parent company) that directly or indirectly owns a majority of all of the voting securities of one or more companies located in the same, contiguous States, or operating independent integrated public utility systems in noncontiguous States. A holding company is so structured to bring companies that can best be operated as part of an integrated public utility system under one management.

Many States do not permit or authorize a registered utility company to acquire ownership or operation of an electric or gas utility company serving substantially the same territory. The Securities and Exchange Commission, as administrator of the Public Utility Holding Company Act of 1935, defines a holding company as "a company which...owns, controls...10 percent or more of the outstanding voting securities of a public utility company."

Horsepower: A unit for measuring the rate of work (or power) equivalent to 33,000 foot-pounds per minute or 746 watts.

Hybrid Transmission Line: A double-circuit line which has one alternating current circuit and one direct current circuit. The AC circuit usually serves local loads along the line.

Hydraulic Head: The distance between the respective elevations of the upstream's water surface (headwater) above and the downstream surface water (tailwater) below a hydroelectric power plant.

Hydroelectric Energy: The production of electricity from kinetic energy in flowing water.

Hydroelectric Plant: A plant in which the turbine generators are driven by falling water.

Hydroelectric Plant Capacity: This capacity figure is a function of fluid flow losses, hydraulic turbines, head, and water flow. The minimum net head limits the firm capacity of the plant.

Hydroelectric Power: The harnessing of flowing water to produce mechanical or electrical energy.

Hydroelectric Project: The complete development of a hydroelectric power site. This includes dams, reservoirs, transmission lines and accessories needed for the maintenance and operation of the powerhouse and any other hydroelectric plant support facilities.

Impedance: The opposition to power flow in an AC circuit. Also, applicable to any device that introduces such opposition, in the form of resistance, reactance, or both. The impedance of a circuit or device is measured as the ratio of voltage to current, where a sinusoidal voltage and current of the same frequency are used for the measurement; measured in ohms.

Inadvertent Power Exchange: An unintended power exchange among utilities that is either not previously agreed upon or in an amount different from the amount agreed upon.

Incremental Energy Costs: The additional cost of producing and/or transmitting electric energy above some previously determined base cost.

Installed Nameplate Capacity: The full-load continuous rating of a generator, prime mover, or other electrical equipment under specified conditions as designated by the manufacturer. Installed nameplate capacity is usually indicated on a nameplate attached

physically to the equipment. Installed station capacity does not include auxiliary or house units.

Instantaneous Peak Demand: The maximum demand at the instant of greatest load.

Insulator: A material that is a very poor conductor of electricity. The insulating material is usually a ceramic or fiberglass when used in the transmission line and is designed to support a conductor physically and to separate it electrically from other conductors and supporting material.

Integrated Demand: The summation of the continuously varying instantaneous demand averaged over a specified interval of time. The information is usually determined by examining a demand meter.

Integrated Gasification-Combined Cycle Technology: Coal, water, and oxygen are fed to a gasifier, which produces synthetic natural gas (syngas). This medium Btu gas is cleaned (particulates and sulfur compounds removed) and is fed to a gas turbine. The hot exhaust of the gas turbine and heat recovered from the gasification process are routed through a heat-recovery generator to produce steam, which drives a steam turbine to produce electricity.

Interchange Energy: Kilowatthours delivered to or received by one electric utility or pooling system from another. Settlement may be by payment, returned in kind at a later time or accumulated as energy balances until the end of the stated period.

Interconnected System: A system consisting of two or more individual power systems normally operating with connecting tie lines.

Interconnection: Two or more electric systems having a common transmission line that permits a flow of energy between them. The physical connection of the electric power transmission facilities allows for the sale or exchange of energy.

Interdepartmental Sales: Includes amounts charged by the electric department at tariff or other specified rates for electricity supplied by it to other utility departments.

Interdepartmental Service (Electric): Electricity supplied to departments of the electric utility company other than the electric generating department.

Interlocking Directorates: The holding of a significant position in management or a position on the corporate board of a utility, while simultaneously holding a comparable position with another utility, or with a firm doing business with the utility.

Intermediate Load (Electric System): The range from base load to a point between base load and peak. This point may be the midpoint, a percent of the peak load, or the load over a specified time period.

Internal Combustion Plant: A plant in which the prime mover is an internal combustion engine. An

internal combustion engine has one or more cylinders in which the process of combustion take place, converting energy released from the rapid burning of a fuel-air mixture into mechanical energy. Diesel or gas-fired engines are the principal types used in electric plants. The plant is usually operated during periods of high demand for electricity.

Interruptible Power: Power and usually the associated energy made available by one utility to another which is subject to curtailment or cessation of delivery by the supplier in accordance with a prior agreement with the other party or under specified conditions.

Intervenor: A person, institution, or organization admitted as a participant to a proceeding.

Investor-Owned Electric Utility: A class of utility whose stock is publicly traded and which is organized as a tax-paying business, usually financed by the sale of securities in the capital market. It is regulated and authorized to achieve an allowed rate of return.

Island: A portion of a power system, or several power systems which is (are) electrically separated from the main grid.

Joint-Use Facility: A multiple-purpose hydroelectric plant. An example is a dam that stores water for both flood control and power production.

Jurisdictional Utilities: Utilities regulated by public laws.

Kilowatt (kW): One thousand watts.

Kilowatthour (kWh): One thousand watthours.

Line Loss: Electric energy lost because of the transmission of electricity. Much of the loss is thermal in nature.

Load: The power provided to customers of a system. This may be further identified to more precisely indicate which portion of the system is being considered, (e.g., customer load, station auxiliary load, etc.).

Load, Firm: Power provided to customers that is continuously available on demand and which is subject to interruption only under extreme circumstances.

Load, Interruptible: Those loads that, by contract, can be interrupted in the event of a deficiency on the supplying system.

Load (Electric): The amount of electric power delivered or required at any specific point or points on a system. The requirement originates at the energy-consuming equipment of the customers.

Load Curve: The relationship of power supplied to the time of occurrence which illustrates the varying magnitude of the load during the period covered.

Load Diversity: The difference between the peak of coincident and noncoincident demands of two or more individual loads.

Load Factor: The ratio of the average load to peak load during a specified time interval.

Load Following: Regulation of the power output of electric generators within a prescribed area in response to changes in system frequency, tieline loading, or the relation of these to each other, so as to maintain the scheduled system frequency and/or the established interchange with other areas within predetermined limits.

Load Leveling: Any load control technique that dampens the cyclical daily load flows and increases baseload generation. Peak load pricing and time-of-day charges are two techniques that electric utilities use to reduce peak load and to maximize efficient generation of electricity.

Load Loss (3 hours): Any significant incident on an electric utility system which results in a continuous outage of 3 hours or longer to over 50,000 customers or more than one half of the total customers being served immediately prior to the incident, whichever is less.

Load Management Technique: Utility demand management practices directed at reducing the maximum kilowatt demand on an electric system, and/or modifying the coincident peak demand of one or more classes of service to better meet the utility system capability for a given hour, day, week, season, or year.

Load Reduction Request: The issuance of any public or private request to any customer or the general public to reduce the use of electricity for reasons of maintaining the continuity of service of the reporting entity's electric power supply system. Requests to a customer(s) served under provisions of an interruptible contract are not a reportable action unless the request is made for reasons of maintaining the continuity of service of the reporting entity's electric power supply.

Load Relief: Load reduction accomplished by voltage reduction and/or load shedding.

Load Shedding: Deliberate disconnection of customer load in response to an abnormal condition in order to maintain the integrity of the power system. Disconnection may be automatically or manually initiated. The routine use of load control equipment that reduces firm customer load is not considered to be a reportable action.

Loop Flow: The movement of electric power from generator to load by dividing along multiple parallel paths; it especially refers to power flow along an unintended path that loops away from the most direct geographic path, or contract path.

Low Head: Vertical difference of 100 feet or less in the upstream surface water elevation (headwater) and

the downstream surface water elevation (tailwater) at a dam.

Maximum Demand: The greatest of all demands of the load that has occurred within a specified period of time.

Maximum Dependable Capacity, Net: The gross electrical output measured at the output terminals of the turbine generator(s) during the most restrictive seasonal conditions, less the station service load.

Median Streamflow: The middle rate of flow of water past a given point for which there have been several greater and lesser rates of flow occurring during a specified period.

Median Water Condition: The middle precipitation and run-off condition for a distribution of water conditions that have happened over a long period time; usually determined by examining water supply records of the periods in question.

Megawatt (MW): One million watts.

Megawatt-Electric (MW): One million watts of electric capacity.

Megawatthour (MWh): One million watthours.

Mill: A monetary cost and billing unit used by utilities; it is equal to 1/1000 of the U.S. dollar (equivalent to 1/10 of 1 cent).

Minimum Streamflow: The minimum rate of flow of water past a given point during a specified period.

Multiple Purpose Project: The development of hydroelectric facilities to serve more than one function. Some of the uses include hydroelectric power, irrigation, water supply, water quality control, and/or fish and wildlife enhancement.

Multiple Purpose Reservoir: Stored water and its usage governed by advanced water resource conservation practices to achieve more than one water control objective. Some of the objectives include flood control, hydro-electric power development, irrigation, recreation usage, and wilderness protection.

Municipality: A city, county, district, or a political subdivision of a State competent under the laws thereof to carry on the business of its charter.

National Association of Regulatory Utility Commissioners: An affiliation of the public service commissioners to promote the uniform treatment of members of the railroad, public utilities, and public service commissions of the 50 States, the District of Columbia, the Commonwealth of Puerto Rico, and the territory of the Virgin Islands.

Natural Streamflow: The rate of flow of water past a given point of an uncontrolled stream, or regulated streamflow adjusted to eliminate the effects of reservoir storage or upstream diversions at a set time interval.

Net Energy for Load: Net generation of main generating units that are system-owned or system-operated plus energy receipts minus energy deliveries.

Net Energy for System: The net generation of a group of plants that are electrically interconnected and centrally controlled, plus system receipts of any electrical energy from outside the system minus any system energy delivered to other electrical systems.

Net Generation: Gross generation less plant use, measured at the high-voltage terminals of a station's step-up transformer. The energy required for pumping at pumped-storage plants is regarded as plant use and must be deducted from the gross generation.

Net Head: The gross head minus all hydraulic losses except those chargeable to the turbine.

Net Summer Capability: The steady hourly output which generating equipment is expected to supply to system load exclusive of auxiliary power as demonstrated by test at the time of summer peak demand.

Net System Capability: The generating station capability of a system at a stated period of time (usually at the time of the system's maximum load) plus capability available at such time from other sources through firm power contacts less firm power obligations at such time to other companies or systems.

Net Winter Capability: The steady hourly output which generating equipment is expected to supply to system load exclusive of auxiliary power as demonstrated by test at the time of winter peak demand.

No-Load Loss: Power and energy lost by an electric system when not operating under demand.

Noncoincident Demand: Sum of two or more demands on individual systems that do not occur in the same demand interval.

Noncoincident Peak Load: The sum of two or more peak loads on individual systems that do not occur in the same time interval. Meaningful only when considering loads within a limited period of time, such as a day, week, month, a heating or cooling season, and usually for not more than 1 year.

Nonfirm Power: Power or power-producing capacity supplied or available under a commitment having limited or no assured availability.

Nonspinning Reserve: The generating capacity not currently running, but capable of being connected to the bus and load within a specified time.

Nonutility Generation: Electric generation by end-users, or small power producers under the Public Utility Regulatory Policies Act of 1978, to supply electric power for industrial, commercial, or sales to electric utilities.

Nonutility Power Producer: An enterprise that has electric generating capacity and is not an electric utility. Nonutility power producers include qualifying

cogenerators, qualifying small power producers, and other nonutility generators (including independent power producers) without a designated franchised service area, and which are not otherwise required to file forms listed in the *Code of Federal Regulations*, Title 18, Part 141.

North American Electric Reliability Council (NERC): A council formed in 1968 by the electric utility industry to promote the reliability and adequacy of the bulk power supply in the electric utility systems of North America. NERC consists of ten regional reliability councils and encompasses essentially all the power systems of the contiguous United States, Canada, and some in Mexico. The data summarized by NERC regions in this publication are limited to that portion applicable to the United States, thereby excluding that portion of NERC data applicable to Canada and Mexico. The NERC Regions are:

- ASCC--Alaska System Coordination Council
- ECAR--East Central Area Reliability Coordination Agreement
- ERCOT--Electric Reliability Council of Texas
- MAIN--Mid-America Interconnected Network
- MAAC--Mid-Atlantic Area Council
- MAPP--Mid-Continent Area Power Pool
- NPCC--Northeast Power Coordinating Council
- SERC--Southeastern Electric Reliability Council
- SPP--Southwest Power Pool
- WSCC--Western Systems Coordinating Council

Nuclear Power Plant: A facility in which heat produced in a reactor by the fissioning of nuclear fuel is used to drive a steam turbine.

Off-Peak: Period of relatively low system demand. These periods often occur in daily, weekly, and seasonal patterns; these off-peak periods differ for each individual electric utility.

Ohm: The unit of measurement of electrical resistance. The resistance of a circuit in which a potential difference of 1 volt produces a current of 1 ampere.

On-Peak: Periods of relatively high system demand. These periods often occur in daily, weekly, and seasonal patterns; these on-peak periods differ for each individual electric utility.

Operating Limit: The maximum value of the most critical system operation parameter(s) which meets: precontingency criteria as determined by equipment loading capability and acceptable voltage conditions; transient performance criteria; and post contingency loading and voltage criteria.

Order: A ruling issued by a utility commission granting or denying an application in whole or in part. The order explains the basis for the decision, noting any dispute with the factual assertions of the applicant. Also applied to a final regulation of a utility commission.

Other Generation: Electricity originating from these sources: biomass, fuel cells, geothermal heat, solar power, waste, wind, and wood.

Other Sector: Electricity supplied to public street and highway lighting; other service to public authorities; service to railroads and railways; and interdepartmental service.

Other Service to Public Authorities: Electricity supplied to municipalities or divisions or agencies of State or Federal governments, under special contracts or agreements or service classifications applicable only to public authorities.

Other Unavailable Capability: Net capability of main generating units that are unavailable for load for reasons other than full-forced outage or scheduled maintenance. Legal restrictions or other cause make these units unavailable.

Outage: The period during which a generating unit, transmission line, or other facility is out of service.

Output: The amount of power or energy produced by a generating unit, station, or system.

Peak Load: The maximum load during a specified period of time.

Peak Load Plant: A plant usually housing old, low-efficiency steam units, gas turbines, diesels, or pumped-storage hydroelectric equipment normally used during the peak-load periods.

Peaking Capacity: Capacity of generating equipment normally operated during the hours of highest daily, weekly, or seasonal loads. Some generating equipment may be operated at certain times as peaking capacity and at other times to serve loads on a 'round-the-clock basis.

Percent Difference: The relative change in a quantity over a specified time period. It is calculated as follows: the current value number has the previous value number subtracted from it, and this new number is divided by the absolute value of the previous value number; then this new number is multiplied by 100.

Plant: A station at which are located prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or nuclear energy into electric energy. A station may contain more than one type of prime mover. Electric utility plants exclude stations that satisfy the definition of qualifying facility under the Public Utility Regulatory Policies Act of 1978.

Plant-Use Electricity: The electric energy used in the operation of a plant. This energy total is subtracted from the gross energy production of the plant; for reporting purposes the plant energy production is then reported as a net figure. The energy required for pumping at pumped-storage plants is by definition subtracted, and the energy production for these plants is then reported as a net figure.

Plant Hours Connected to Load: The number of hours the plant is synchronized to load over a time interval usually of 1 year.

Pole-Mile: A unit of measuring the simple length of a transmission line carrying electric conductors, without regard to the number of conductors carried.

Pondage: The amount of water stored behind a hydroelectric dam of relatively small storage capacity; the dam is usually used for daily or weekly control of the flow of the river.

Power: The rate at which energy is transferred, usually measured in watts. Also used for a measurement of capacity.

Power (Electrical): An electric measurement unit of power called a voltampere is equal to the product of 1 volt and 1 ampere. This is equivalent to 1 Watt for a direct current system and a unit of apparent power is separated into real and reactive power. Real power is the work-producing part of apparent power that measures the rate of supply of energy and is denoted as kilowatts (kW). Reactive power is the portion of apparent power that does no work and is referred to as kilovars; this type of power must be supplied to most types of magnetic equipment, such as motors, and is supplied by generator or by electrostatic equipment. Voltamperes are usually divided by 1,000 and called kilovoltamperes (kVA). Energy is denoted by the product of real power and the length of time utilized; this product is expressed as kilowatthours.

Power Factor: The ratio of real power (kilowatt) to apparent power kilovoltampere for any given load and time.

Power Loss: The difference between power input and output as a result of transfer of energy between two points; sometimes referred to as capacity loss.

Power Pool: An association of two or more interconnected electric systems to provide better system reliability and efficiencies. Depending upon the degree of control authorized by the member utilities, these pools may be run under a single system dispatch to supply power to meet combined load requirements and maintenance programs, or just share the benefits of planned or hourly available wholesale sales of power and energy among the member utilities.

Power Production Plant: All the land and land rights, structures and improvements, boiler or reactor vessel equipment, engines and engine-driven generator, turbogenerator units, accessory electric equipment, and miscellaneous power plant equipment are grouped together for each individual facility.

Power System: A group of one or more generating sources and/or connecting transmission lines operated under common management or supervision to supply load.

Power Transfer Limit: The maximum power that can be transferred from one electric utility system to

another without overloading any facility in either system.

Powerhouse: A structure at a hydroelectric plant site that contains the turbine and generator.

Preliminary Permit (Hydroelectric Power): A single site permit granted by the FERC, which gives the recipient priority over anyone else to apply for a hydroelectric license. The preliminary permit enables the recipient to prepare a license application and conduct various studies for economic feasibility and environmental impacts. The period for a preliminary permit may extend to 3 years.

Price: The amount of money or consideration-in-kind for which a service is bought, sold, or offered for sale.

Price Squeeze: Discriminatory rates charged for wholesale electric power that impede competition for retail customers. A price squeeze occurs if an electric utility's price for wholesale service is higher in relation to its wholesale cost than its price for retail service is in relation to its retail costs.

Prime Mover: The engine, turbine, water wheel, or similar machine that drives an electric generator.

Proposed Rates: New electric rate schedule proposed by an applicant to become effective at a future date.

Prudence: Carefulness, precaution, attentiveness, and good judgment, as applied to action or conduct. A legal concept used by regulators to determine the costs to be allowed in a rate base.

Public Authorities: Electricity supplied to municipalities or divisions or agencies of State and Federal governments, usually under special contracts or agreements that are applicable only to public authorities.

Public Utility: Enterprise providing essential public services, such as electric, gas, telephone, water, and sewer, under legally established monopoly conditions.

Public Utility District: Municipal corporations organized to provide electric service to both incorporated cities and towns and unincorporated rural areas. Public utility districts, sometimes called "People's Utility Districts" or "Public Power Districts," operate in six States.

Publicly Owned Electric Utility: A class of ownership found in the electric power industry. This group includes those utilities operated by municipalities, and State and Federal power agencies.

Pumped-Storage Hydroelectric Plant: A plant that usually generates electric energy during peak-load periods by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit

to turbine generators located in a power plant at a lower level.

Purchased Power: Power purchased or available for purchase from a source outside the system.

Purchased Power Adjustment: A clause in a rate schedule that provides for adjustments to the bill when energy from other electric system is acquired and its cost varies from a specified unit base amount.

Pure Pumped-Storage Hydroelectric Plant: A plant that produces power only from water that has previously been pumped to an upper reservoir.

Qualifying Facility: A cogeneration facility or small power production facility that meets certain ownership, operating, and efficiency criteria established by the Federal Energy Commission pursuant to the Public Utilities Regulatory Policies Act of 1978 (See the Code of Federal Regulations, title 18, Part 282).

Rate Base: The value of property upon which a utility is permitted to earn a specified rate of return as established by a regulatory authority. The rate base generally represents the value of property used by the utility in providing service and may be calculated by any one or a combination of the following accounting methods: fair value, prudent investment, reproduction cost, or original cost. Depending on which method is used, the rate base includes cash working capital, materials and supplies, and deductions for accumulated provisions for depreciation, contributions in aid of construction, customer advances for construction, accumulated deferred income taxes, and accumulated deferred investment tax credits.

Rate Case: A proceeding, usually before a regulatory commission, involving the rates to be charged for a public utility service.

Rate of Return: The ratio of net operating income earned by a utility is calculated as a percentage of its rate base.

Rate of Return on Rate Base: The ratio of net operating income to a specified rate base, expressed as a percentage.

Rate Schedule (Electric): A statement of the financial terms and conditions governing a class or classes of utility services provided to a customer. Approval of the schedule is given by the appropriate ratemaking authority.

Rates: The authorized charges per unit or level of consumption for a specified time period for any of the classes of utility services provided to a customer.

Ratemaking Authority: A utility commission's legal authority to fix, modify, approve, or disapprove rates as determined by the powers given the commission by a State or Federal legislature.

Rating: A manufacturer's guaranteed performance of a machine, transmission line, or other electrical apparatus, based on design features and test data. The

rating will specify such limits as load, voltage, temperature, and frequency. The rating is generally printed on a nameplate attached to equipment and is commonly referred to as the nameplate rating, nameplate capacity, etc.

Reactance: A phenomenon associated with AC power characterized by the existence of a time difference between voltage and current variations.

Rectifier: A device for converting alternating current to direct current.

Regulated Streamflow: The rate of flow past a given point during a specified period that is controlled by reservoir water release operations.

Regulation, Procedures, and Practices: A utility commission carries out its regulatory functions through rulemaking and adjudication. Under rulemaking, the utility commission may propose a general rule or regulation change. By law, it must issue a notice of the proposed rule and a request for comments is also made; the Federal Energy Regulatory Commission publishes this in the Federal Register. The final decision must be published. A utility commission may also work on a case-by-case basis from submissions from regulated companies or others. Objections to a proposal may come from the commission or intervenors, in which case the proposal must be presented at a hearing presided over by an administrative law judge. The judge's decision may be adopted, modified, or reversed by the utility commissioners in which case those involved can petition for a rehearing, and may appeal a decision through the courts system to the U.S. Supreme Court.

Reliability (Electric System): A measure of the ability of the system to continue operation while some lines or generators are out of service. Reliability deals with the performance of the system under stress.

Renewable Energy Source: An energy source that is regenerative or virtually inexhaustible. Typical examples are wind, geothermal and water power.

Repowering: Replacement of the combustion technology in an aging generating plant with a new combustion technology, usually resulting in better performance and greater capacity.

Required Rate of Return: The minimum rate of return necessary to induce investors to buy or hold a given security. It equals the risk-free rate of interest, usually represented by the current yield on U.S. Treasury securities, growth potential, plus a risk premium.

Requirements Power: The firm service needs required by designated load plus losses from the points of supply.

Reserve Generating Capacity: Amount of generating capacity available to meet peak or abnormally high demands for power and to generate power during scheduled or unscheduled outages.

Reserve Margin (Operating): The amount of unused available capability of an electric power system at peak load for a utility system. This figure is calculated by adding running and quick-start capability to the capability available but not needed and then subtracting peak load.

Reservoir: A body of water collected and stored in a natural or artificial lake.

Residential Sector: The residential sector includes private household establishments that consume energy primarily for space heating, water heating, air conditioning, lighting, refrigeration, cooking, and clothes drying. The classification of an individual consumer's account, where the use is both residential and commercial, is based on principal use. Apartment houses are included.

Restoration Time: The time when the major portion of the interrupted load has been restored and the emergency is considered to be ended. However, some of the loads interrupted may not have been restored because of local problems.

Retail Wheeling: An arrangement in which a utility transmits electricity from outside its service territory to a retail customer within its customer service territory.

Retired Hydropower Plant Sites: The site of a plant that formerly produced electrical or mechanical power but is now out of service. Includes plants which have been abandoned, damaged by flood or fire, inundated by new reservoirs, or dismantled.

Reversible Turbine: A hydraulic turbine, normally installed in a pumped-storage plant, which can be used alternatively as a pump or as an engine, turbine, water wheel, or other apparatus that drives an electrical generator.

Right-Of-Way: The land, and legal right to use and service the land along which a transmission line is located. Transmission line right-of-way is usually acquired in widths that vary with the kilovolt (kV) size of the line.

Rulemaking (Regulations): The authority delegated to administrative agencies by Congress or State legislative bodies to make rules that have the force of law. Frequently, statutory laws that express broad terms of a policy are implemented more specifically by administrative rules, regulations and practices.

Running and Quick-Start Capability: The net capability of generating units that carry load or have quick-start capability. In general, quick-start capability refers to generating units that can be available for load within a 30-minute period.

Run-off: That portion of the precipitation that flows over the land surface and ultimately reaches streams to complete the water cycle. Melting snow is an important source of this water as well as all amounts of surface water that moves to streams or rivers through any given area of a drainage basin.

Rural Electrification Administration (REA) : A former lending agency of the U.S. Department of Agriculture (USDA) that was established in the 1930's and was terminated in the early 1990's. Its responsibilities now reside with the Rural Utilities Service (RUS) in USDA. RUS makes self-liquidation loans to qualified borrowers to finance electric, telephone, water, and other services to rural areas. RUS finances the construction and operation of generating plants, electric transmission and distribution lines, or systems, for the furnishing of initial and continued adequate electric services to persons in rural areas not receiving central station service.

Sales: The amount of kilowatthours sold in a given period of time; usually grouped by classes of service such as residential, commercial, industrial, and other.

Sales for Resale: A type of wholesale sales covering energy supplied to other electric utilities, cooperatives, municipals, and Federal and State electric agencies for resale to ultimate consumers.

Schedule: A statement of the pricing format of electricity and the terms and conditions governing its applications.

Scheduled Outage: The shutdown of a generating unit, transmission line, or other facility, for inspection or maintenance, in accordance with an advance schedule.

Service Area: The territory in which a utility system or distributor is authorized to provide service to consumers.

Single-circuit Line: A transmission line with one electric circuit. For three-phase supply, a single circuit requires at least three conductors, one per phase.

Single-Purpose Project: A hydroelectric project constructed only to generate electricity.

Small Power Producer: Under the Public Utility Regulatory Policies Act, A small power production facility (or small power producer) generates electricity using renewable biomass, conventional hydroelectric, solar, wind, and geothermal energy as a primary energy source. Fossil fuels can be used, but renewable resources must provide at least 75 percent of the total energy input. (See Code of Federal Regulations, Title 18, Part 292.)

Special Contract Rate Schedule: An electric rate schedule for an electric service agreement between a utility and another party in addition to, or independent of any standard rate schedule.

Special Purpose Rate Schedule: An electric rate schedule limited in its application to some particular purpose or process within one, or more than one, type of industry or business.

Stability: The property of a system or element by virtue of which its output will ultimately attain a

steady state. The amount of power that can be transferred from one machine to another following a disturbance. The stability of a power system is its ability to develop restoring forces equal to or greater than the disturbing forces so as to maintain a state of equilibrium.

Standby Charge: A charge for the potential use of a utility service, usually done by an agreement with another electric utility system. These services include system backup support, and other running and quick-start capabilities.

Standby Facility: A facility that is on call to support a utility system and is available to replace or supplement a facility normally in service.

Standby Service: Support service that is available as needed to supplement a customer, a utility system, or to another utility if a schedule or an agreement authorizes the transaction. The service is not regularly used.

State Severance Taxes: Any severance, production, or similar tax, fee, or other levy imposed on the production of crude oil, natural gas, or coal by any State, local government acting under authority of State law, or by an Indian tribe recognized as eligible for services by the Secretary of the Interior.

Station (Electric): A plant containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or nuclear energy into electric energy.

Station Use: Energy that is used in the operation of an electric generating plant. It includes energy consumed for plant lighting, power, and auxiliary facilities, regardless of whether the energy is produced at the plant or comes from another source.

Steam-Electric Plant (Conventional): A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Streamflow: The rate at which water passes a given point in a stream, usually expressed in cubic feet per second.

Substation: Facility equipment that switches, changes, or regulates electric voltage.

Subtransmission: A set of transmission lines of voltages between transmission voltages and distribution voltages. Generally, lines in the voltage range of 69 kV to 138 kV.

Supporting Structure: The main supporting unit (usually a pole or tower) for transmission line conductors, insulators, and other auxiliary line equipment.

Surplus Energy: Energy generated that is beyond the immediate needs of the producing system. This energy may be supplied by spinning reserve and sold on an interruptible basis.

Suspended Rates: New rates that have been accepted for review by a utility commission. When these rates are suspended, they do not go into effect for a designated period of time, up to a maximum of five months for FERC. Charges under the new rate may be refunded after the resolution of the rate proceeding.

Switching Station: Facility equipment used to tie together two or more electric circuits through switches. The switches are selectively arranged to permit a circuit to be disconnected, or to change the electric connection between the circuits.

System (Electric): Physically connected generation, transmission, and distribution facilities operated as an integrated unit under one central management, or operating supervision.

System Interconnection: A physical connection between two electric systems that permits the transfer of electric energy in either direction.

Tariff: A published volume of rate schedules and general terms and conditions under which a product or service will be supplied.

Terawatt-hour (TWh): One trillion (10^{12}) watt-hours of electric energy.

Thermal Limit: The maximum amount of power a transmission line can carry without suffering heat-related deterioration of line equipment, particularly conductors.

Three-party Wheeling: An arrangement in which a utility transmits electricity for two other utilities that are not physically connected, where the transmitting utility neither buys nor sells the electricity.

Three-phase Power: Power generated, and transmitted from generator to load, on three conductors.

Tie Line: A circuit connecting two or more power systems and/or a generating facility to the grid.

Transfer Capability: The overall capacity of inter-regional or international power lines, together with the associated electrical system facilities, to transfer power and energy from one electrical system to another.

Transformer: An electrical device for changing the voltage of alternating current.

Transmission: The movement or transfer of electric energy over an interconnected group of lines and associated equipment between points of supply and points at which it is transformed for delivery to consumers, or is delivered to other electric systems. Transmission is considered to end when the energy is transformed for distribution to the consumer.

Transmission Circuit: A conductor used to transport electricity from generating stations to load.

Transmission Line: A set of conductors, insulators, supporting structures, and associated equipment used to move large quantities of power at high voltage, usually over long distances between a generating or receiving point and major substations or delivery points.

Transmission Network: A system of transmission or distribution lines so cross-connected and operated as to permit multiple power supply to any principal point.

Transmission System, Electric: An interconnected group of electric transmission lines and associated equipment for moving or transferring electric energy in bulk between points of supply and points at which it is transformed for delivery over the distribution system lines to consumers, or is delivered to other electric systems.

Turbine: A machine for generating rotary mechanical power from the energy in a stream of fluid (such as water, steam, or hot gas). Turbines convert the kinetic energy of fluids to mechanical energy through the principles of impulse and reaction, or a mixture of the two.

Two-party Wheeling: An arrangement between two utilities in which one utility agrees to transmit electricity owned by the other.

Ultimate Consumer: A consumer that purchases electricity for its own use and not for resale.

Uniform System of Accounts: Prescribed financial rules and regulations established by the Federal Energy Regulatory Commission for utilities subject to its jurisdiction under the authority granted by the Federal Power Act.

Unscheduled Outage Service: Power received by a system from another system to replace power from a generating unit forced out of service.

Used and Useful: A concept used by regulators to determine whether an asset should be included in the utility's rate base. This concept requires that an asset currently provide or be capable of providing a needed service to customers.

Utility (Electric): Privately owned companies and public agencies engaged in the generation, transmission, or distribution of electric power for public use. Public agencies include municipal electric utilities, Federal power projects, rural electrification cooperatives, power districts, and State power authorities and projects.

Utility Generation: Generation by electric systems engaged in selling electric energy to the public.

Volt: The unit of measurement of voltage, electrical force, or pressure. The electrical force that, if steadily applied to a circuit with a resistance of 1 ohm, will produce a current of 1 ampere.

Voltage: The difference in electrical potential between any two conductors or between a conductor and ground. It is a measure of the electric energy per electron that electrons can acquire and/or give up as they move between the two conductors.

Voltage Reduction: Any intentional reduction of system voltage by 3 percent or greater for reasons of maintaining the continuity of service of the reporting entity's electric power supply system.

Waterway: A river, channel, canal, or other navigable body of water used for travel or transport.

Watt: The electrical unit of power. The rate of energy transfer equivalent to 1 ampere flowing under a pressure of 1 volt at unity power factor.

Watt-hour (Wh): An electrical energy unit of measure equal to 1 watt of power supplied to, or taken from, an electric circuit steadily for 1 hour.

Weir: A dam in a waterway over which water flows and that serves to raise the water level, or direct or regulate flow.

Wheeling: The use of the transmission facilities of one entity to transmit electricity of and for another entity or entities. The most common type of wheeling involves one utility transferring electricity generated by a second utility for sale to a third utility.

Wheeling Charge: An amount charged by one electrical system to transmit the energy of, and for, another system or systems.

Wheeling Service: The movement of electricity from one system to another over transmission facilities of intervening systems. Wheeling service contracts can be established between two or more systems.

Wholesale Sales: Energy supplied to other electric utilities, cooperatives, municipalities, and Federal and State electric agencies for resale to ultimate consumers.

Wholesale Wheeling: An arrangement in which electricity is transmitted from a generator to a utility through the transmission facilities of an intervening system.

Wind Energy: Energy produced by harnessing the force of the wind. In a wind energy conversion system such as a windmill, the energy of wind is used to turn the shaft of a generator, which in turn usually produces direct current. This direct current is usually converted to alternating current before being fed into a utility grid system.

Year to Date: The cumulative sum of each month's value starting with January and ending with the current month of the data.