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Electric Trade in the United States 1992

September 1994

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Office of Coal, Nuclear, Electric and Alternate Fuels
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Contents

	Page
Executive Summary	vii
1. Introduction	1
Background	1
The Electric Utility Industry Structure	1
Changing Electric Power Industry	3
The Interconnected Networks	5
Wholesale Trade Transactions	6
National and Regional Highlights	9
Tables	13
Sources of Data, 1992	15
Compilation of Data	17
Limitations of Data Coverage	17
Appendices	19
Glossary	19
2. Bulk Power Transactions by Investor-Owned Utilities	47
Overview	47
Tables	48
Highlights	48
Summary	50
3. Bulk Power Transactions by Federal and Other Publicly Owned Utilities	129
Overview	129
Tables	130
Highlights	130
Summary	133
4. Bulk Power Transactions by Cooperative Borrowers	219
Overview	219
Tables	220
Highlights	221
Summary	223
5. Selected Information on the Physical Transmission System	261
Overview	261
Tables	261
Highlights	262
Summary	263
Appendices	
A. Federal Energy Regulatory Commission Regulation of the Electric Utility Industry	301
B. State, NERC Region, and Data Sources for Electric Utilities	307
C. Fundamentals of Electric Power Transmission and Integrating Nonutility Generators	339
D. Technical Notes	345
Glossary	353

Tables

	Page
1. Number of Electric Utilities by Class of Ownership Within NERC Region, 1992	4
2. Energy Account Balance by Class of Ownership, 1992	6
3. Components of Source and Disposition of Electricity by NERC Region, 1992	8
4. Electric Trade in the United States by NERC Region, 1986 Through 1992	11
5. Intra- and Interregional Purchases and Sales for Resale by Selected Ownership Classes, 1986, 1988, 1990, and 1992	14
6. Firm and Nonfirm Purchases and Sales for Resale by Investor-Owned Utilities, by NERC Region, 1986, 1988, 1990, and 1992	14
7. Wheeling Trade in the United States by NERC Region, 1986 Through 1992	16
8. Electricity Purchases by Investor-Owned Utilities, by NERC Region, 1992	20
9. Electricity Sales for Resale by Investor-Owned Utilities, by NERC Region, 1992	24
10. Investor-Owned Utility Exchanges of Electricity with All Ownership Classes, by NERC Region, 1992	28
11. Noninvestor-Owned Utility Exchanges of Electricity, by NERC Region, 1992	30
12. Electricity Wheeling for All Ownership Classes by Investor-Owned Utilities, by NERC Region, 1992	31
13. Electricity Wheeling by All Ownership Classes to Investor-Owned Utilities, by NERC Region, 1992	32
14. Purchases by Cooperative Borrowers, by NERC Region, 1992	33
15. Receipts by Investor-Owned Utilities Within and Between NERC Regions, 1992	34
16. Deliveries by Investor-Owned Utilities Within and Between NERC Regions, 1992	39
17. Electricity Transactions by Investor-Owned Utilities in Alaska and Hawaii, 1992	44
18. U.S. Electricity Trade with Canada and Mexico by NERC Region, 1992	45
19. Electricity Purchases by Investor-Owned Utilities, by State, 1992	51
20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992	81
21. Electricity Exchanges by Investor-Owned Utilities, by State, 1992	111
22. Electricity Purchases by Investor-Owned Utilities Not Reported to the Federal Energy Reg- ulatory Commission, by State, 1992	116
23. Electricity Wheeling by Investor-Owned Utilities, by State, 1992	117
24. Electricity Wheeling to Investor-Owned Utilities, by State, 1992	123
25. Electricity Purchases by Federal Utilities, Fiscal Year Ending September 30, 1992	135
26. Electricity Sales for Resale by Federal Utilities, Fiscal Year Ending September 30, 1992 ...	136
27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1992	137
28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1992 ...	148
29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992	156
30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1992	198
31. Electricity Purchases by Publicly Owned Utilities Not Reported on Form EIA-412, by State, 1992	211
32. Electricity Exchanges and Wheeling by Publicly Owned Utilities, 1992	215
33. Electricity Purchases by the Power Supply Segment of Cooperative Borrowers, by State, 1992	224
34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992	228
35. Electricity Purchases by Electrical Cooperatives Not Reported to the Rural Electrification Administration, by State, 1992	257
36. Electricity Exchanges and Wheeling by Cooperative Borrowers, by State, 1992	258
37. Transmission Line Statistics of Investor-Owned Utilities, by NERC Region, 1992	264
38. Transmission Line Statistics of Investor-Owned Utilities, 1992	266
39. Transmission Line Statistics of Public Utilities, by NERC Region, Fiscal Year 1992	276
40. Transmission Line Statistics of Public Utilities, Fiscal Year 1992	278
41. Transmission Lines Added by Investor-Owned Utilities, by NERC Region, 1992	284
42. Transmission Lines Added by Investor-Owned Utilities, 1992	285
43. Watthour Meter and Line Transformer Statistics of Investor-Owned Utilities, by NERC Re- gion, 1992	287
44. Watthour Meter and Line Transformer Statistics of Investor-Owned Utilities, 1992	288
B1. Investor-Owned Utilities, 1992	307
B2. Federal Utilities, 1992	311
B3. State and Other Government Utilities, 1992	312
B4. Municipal Utilities, 1992	314

B5.	Cooperative Borrowers, 1992	320
B6.	Electric Utilities Not Reported Elsewhere in Surveys Reporting Detailed Transactions, 1992	332
B7.	Electric Power Marketers Authorized by FERC, as of December 31, 1993	335

Illustrations

	Page
1. Electric Utility Density by County in the United States	2
2. North American Electric Reliability Council Region Map for the United States	5
3. Electricity Purchases and Costs by Investor-Owned Utilities by NERC Region, 1992	9
4. Electricity Sales for Resale and Revenue by Investor-Owned Utilities by NERC Region, 1992	10
5. U.S. Electricity Trade with Canada and Mexico by NERC Region, 1992	15
6. Electricity Purchases and Costs by the Top Ten Investor-Owned Utilities, 1992	48
7. Electricity Sales for Resale and Revenue by the Top Ten Investor-Owned Utilities, 1992	49
8. Electricity Purchases and Costs by Federal Utilities, Fiscal Year 1992	129
9. Electricity Sales for Resale and Revenue by Federal Utilities, Fiscal Year 1992	130
10. Electricity Purchases and Costs by the Top Ten State and Other Government Utilities, Fiscal Year 1992	131
11. Electricity Sales for Resale and Revenue by the Top Ten State and Other Government Utilities, Fiscal Year 1992	132
12. Electricity Purchases and Costs by the Top Ten Municipal Utilities, Fiscal Year 1992	133
13. Electricity Sales for Resale and Revenue by the Top Ten Municipal Utilities, Fiscal Year 1992	134
14. Electricity Purchases by Cooperative Borrowers by State, 1992	219
15. Electricity Purchase Costs by Cooperative Borrowers by State, 1992	220
16. Electricity Purchases and Costs by the Top Ten Cooperative Borrowers, 1992	221
17. Electricity Purchases by Cooperative Borrowers, 1992	222
18. Selected High-Voltage Transmission Lines in the Contiguous United States	262

Executive Summary

Electric Trade in the United States 1992 (ELECTRA) is the fourth in a series of reports on wholesale power transactions prepared by the Electric Data Systems Branch, Survey Management Division, 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. This report provides information on the industry during 1992.

Since EIA began publishing wholesale electric trade data, electricity purchases have increased by 77 percent between 1986 and 1992. This is illustrated in a regional comparison of purchases and sales for resale by investor-owned electric utilities (Table ES-1) for 1986, 1988, 1990, and 1992. Transactions by investor-owned electric utilities represent over 55 percent of the transactions in the bulk power market.

Some of the underlying reasons that affect growth in U.S. wholesale electric trade include the following:

- Overall U.S. consumption of electric energy continues to increase. Many electric utilities are increasing electricity purchases to satisfy customer demand in lieu of constructing new power plants.
- Electric utility electricity purchases from nonutility power producers have grown by an average of 27 percent per year since 1986. More electric generating facilities are being established whose primary line-of-business is generating electricity under Federal statutes covering nonutility generators.
- Competition in the wholesale electricity market continued to expand in 1992. The Energy Policy Act of 1992, signed into law in November 1992, is expected to increase competition in the future. The Act established a new class of nonutility generators, called "Exempt Wholesale Generators," and amended portions of the Public Utility Holding Company Act of 1935.
- Overall electric system reliability is maintained as utilities cooperate in wholesale electric trade during contingency and emergency situations. Backup power purchases by investor-owned utilities, defined as transactions associated with a demand charge only, increased from \$64 million in 1986 to \$181 million in 1992.

- Wholesale transmission services (wheeling) will grow as the result of implementing the Energy Policy Act of 1992.

Electric trade is an important part of the electric power industry as approximately half of all electricity generated is purchased (or exchanged) in the wholesale market before being sold to ultimate consumers. Results of the 1992 data include:

- Purchases from all sources by major investor-owned utilities totaled 342.5 billion kilowatthours of firm power for \$16.4 billion and 299.7 billion kilowatthours of nonfirm energy for \$9.5 billion. The combined amount of firm and nonfirm energy in 1992 represent an 18-percent increase over the amount purchased in 1990, and an increase in costs of 19.5 percent. Firm purchases, in billion kilowatthours, increased by 5.5 percent with the largest increases being posted by investor-owned utilities in the Northeast Power Coordination Council (74.9 billion kilowatthours or a 9.6 billion kilowatthour change). The Western Systems Coordinating Council (with 83.0 billion kilowatthours) had the largest regional total.
- Municipal electric utilities delivered to investor-owned utilities 9.3 billion kilowatthours of firm power for a cost of \$479.6 million and 5.9 billion kilowatthours of nonfirm energy for a cost of \$202.9 million. This represents a total decrease of 5.4 percent in purchases and a 4.0 percent increase in cost. Investor-owned electric utilities reported paying 16.9 percent more than in 1990 and received 11.2 percent less in nonfirm energy for purchases from municipal utilities.
- Purchases by cooperatives have changed on a fairly consistent basis since 1986. Every 2 years equaled about a 10-million kilowatthour increase. In 1992, cooperative utilities reported purchasing 281 billion kilowatthours at a cost of \$11.6 billion. This represents an increase of 2.8 percent in power purchased and a 4.2-percent increase in associated costs from 1990 levels. Of the 281 billion kilowatthours purchased by cooperatives, over 175 billion kilowatthours (62 percent) costing \$7.9 billion, came from other cooperative utilities. This was over three times as much power as was purchased by cooperative utilities from Federal utilities.

- In 1992, the U.S. electricity purchases from Canada returned to pre-1990 levels (35.2 billion kilowatthours in 1992), while trade with Mexico remained nearly constant (2.0 billion kilowatthours in 1992). In 1992, the Province of British Columbia led in exports to the United States (11.8 billion kilowatthours), while the Province of Quebec increased its exports to the northeastern part of the United States to 8.9 billion kilowatthours. The Province of Manitoba came in a close third by selling 8.5 billion kilowatthours to the upper midwestern United States. Exports of electricity to Canada were 7.9 billion kilowatthours. Utilities in the western United States were first in sales by selling over 3 billion kilowatthours for consumption in the Province of British Columbia.

- Investor-owned electric utilities reported adding 2,565 miles of new transmission lines of a size of 138 kilovolts (kV) or greater to their electrical systems in 1992. The cost for land right-of-way, new structures, conductors, and line materials for these additions and upgrades was nearly \$375 million. Florida Power and Light, whose electrical system was severely damaged by Hurricane Andrew, led the other reporting utilities in adding new (or in this case replacing) higher transmission voltage support for its electrical system. Public Service Company of Colorado had the largest increase, but this represented the addition of existing lines acquired through the purchase of the assets of a bankrupt cooperative.

Table ES1. Comparison of Electric Trade Data by North American Electric Reliability Council Region for Years 1986, 1988, 1990, and 1992

NERC Region	Geographic Region	Billion Kilowatthours				Percent Change 1986-1992
		1992	1990	1988	1986	
Purchases by Investor-Owned Utilities						
ECAR	Indiana; Ohio; West Virginia; and portions of Kentucky, Maryland, Michigan, Pennsylvania, and Virginia	95.7	79.2	34.7	36.6	181.5
ERCOT	Portions of Texas	28.0	27.0	26.9	25.4	10.2
MAAC	Delaware; District of Columbia; New Jersey; and portions of Maryland, Pennsylvania, and Virginia	70.2	43.8	32.5	21.4	228.0
MAIN	Illinois; and portions of Iowa, Michigan, Missouri, and Wisconsin	28.6	21.8	8.1	6.8	320.6
MAPP(US)	Minnesota; North Dakota; and portions of Iowa, Montana, Nebraska, South Dakota, Wisconsin, and Wyoming	26.4	20.0	15.6	15.5	70.3
NPCC(US)	Connecticut; Maine; Massachusetts; New Hampshire; New York; Rhode Island; and Vermont	141.9	104.1	102.3	103.3	37.4
SERC	Alabama; Florida; Georgia; North Carolina; South Carolina; Tennessee; and portions of Kentucky, Mississippi, and Virginia	86.8	88.5	52.6	38.1	127.8
SPP	Arkansas; Louisiana; Kansas; Oklahoma; and portions of Mississippi, Missouri, New Mexico, and Texas	49.1	37.7	40.7	27.2	80.5
WSCC(US)	Arizona; California; Colorado; Idaho; Nevada; Oregon; Utah; Washington; and portions of Montana, Nebraska, New Mexico, South Dakota, and Wyoming	132.0	141.3	102.6	97.4	35.5
Contiguous U.S. Total ...		658.6	563.3	415.8	371.6	77.2
Sales for Resale by Investor-Owned Utilities						
ECAR	Same As Above	132.0	117.6	99.5	79.1	66.9
ERCOT		8.0	9.7	10.7	10.4	-23.1
MAAC		45.9	19.1	14.7	14.4	218.8
MAIN		26.5	29.2	12.2	14.8	79.1
MAPP(US)		18.6	18.0	9.4	6.5	186.2
NPCC(US)		95.5	70.5	66.8	78.9	21.0
SERC		89.3	93.5	76.3	70.4	26.9
SPP		45.3	35.5	36.2	36.1	25.5
WSCC(US)		53.3	51.0	40.2	36.1	47.4
Contiguous U.S. Total ...		514.4	444.2	366.0	346.6	48.4

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 Figure 1 and 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."

The primary sources of utility data for this publication are shown in Table ES2.

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.
REA Form 7, "Financial and Statistical Reports Reports--Electric Distribution Borrowers"	Detailed transactions for purchases.
REA Form 12a through 12i, "Electric Power Supply Borrowers," and REA Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities"	Detailed transactions for purchases.

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 1992, the wholesale trade market totaled 1.8 trillion kilowatthours, about 66 percent of total sales to ultimate consumers.

This publication, *Electric Trade in the United States 1992 (ELECTRA)*, is the fourth in a series of reports on wholesale power transactions prepared by the Electric Data Systems Branch, Survey Management Division, 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 1992.

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. Information on the physical transmission system are being included for the first time in this publication. Transmission data covering investor-owned electric utilities were shifted from the *Financial Statistics of Selected Investor-Owned Electric Utilities* to the *ELECTRA* publication. Some of the prominent features of this year's report include information and data not published before on transmission lines for publicly owned utilities and transmission lines added during 1992 by investor-owned electric utilities.

The Electric Utility 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 three basic ownership classifications: investor-owned (privately owned), publicly owned, and cooperative. Publicly owned utilities may be Federally owned, State-owned, or municipally owned. In 1992, there were 3,232 electric utilities in the United States. Of these, 2,027 were publicly owned (including 10 Federal utilities), 943 were rural electric cooperatives, and 262 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 more than 10 electric utilities operating in a county (Figure 1). 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 1,000¹ of the 3,232 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

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

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.

Publicly Owned Utilities

Publicly owned electric utilities represent 63 percent of the total number of U.S. electric utilities but accounted for only 16 percent of sales to ultimate consumers in 1992. 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 less than 9 percent of the electricity in the United States, 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. 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 20 percent of the electricity generated by Federal utilities is sold to retail customers which are usually large industrial customers or Federal instal-

Figure 1. Electric Utility Density by County in the United States

Note: Counties are considered to be the "first-order subdivisions" of each State, regardless of their local designation (county, parish, borough, etc.).

Source: Energy Information Administration, research by the Office of Coal, Nuclear, Electric and Alternate Fuels.

lations. 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 almost 58 percent of the number of electric utilities in the United States, but produce less than 5 percent of total net generation. 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 7.5 percent of sales to ultimate consumers in 1992.

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 been changing rapidly in recent years with the passage of new legislation introducing a new type of business entity, changing regulations, and an increasing reliance by utilities on the wholesale purchase of electricity.

Nonutility Generation in Electric Trade

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. The outlook is for greater participation by nonutility generators in wholesale power supply. The changing roles and relationships between utility and nonutility participants in the wholesale power market are uncertain and have raised several unresolved technical, economic, and regulatory issues.

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),²

²No 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.

small power producers (SPP), qualifying facilities (QF), and industrial power producers.

Current legislation and regulations may not always draw clear distinctions. For example, a producer of electricity that would appear to be a nonutility generator might be considered a utility if it is interconnected to transmission facilities in certain ways. Moreover, various laws and regulations may not always draw clear distinctions and may define utility broadly to include anyone selling electricity. The clearest exception is for firms, which are not electric utilities, that sell power from qualifying facilities (QF) as defined under the Public Utility Regulatory Policies Act (PURPA). The Energy Policy Act of 1992 defined a new class of nonutility generator, called exempt wholesale generators (EWG), to encourage the development of conventional generating facilities that will not meet the QF requirements. These EWGs are not considered electric utilities and are exempted from Public Utility Holding Company Act requirements. 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 166 billion kilowatthours in 1992 (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.

Table 1. Number of Electric Utilities by Class of Ownership Within NERC Region, 1992

NERC Region	Investor-Owned	Federal ¹	State and Other Government	Municipals	Cooperatives	U.S. Total
Number of Utilities						
ASCC	24	1	5	32	22	84
ECAR	46	1	4	222	110	383
ERCOT	6	1	3	63	62	135
MAAC	19	0	0	50	19	88
MAIN	19	0	1	142	46	208
MAPP	16	0	36	461	187	700
NPCC	61	0	5	121	12	199
SERC	21	2	5	316	189	533
SPP	16	1	8	290	156	471
WSCC	31	4	81	172	140	428
Hawaii	3	0	0	0	0	3
U.S. Total	262	10	148	1,869	943	3,232
Percent						
ASCC	9	10	3	2	2	3
ECAR	18	10	3	12	12	12
ERCOT	2	10	2	3	7	4
MAAC	7	0	0	3	2	3
MAIN	7	0	1	8	5	6
MAPP	6	0	24	25	20	22
NPCC	23	0	3	6	1	6
SERC	8	20	3	17	20	16
SPP	6	10	5	16	17	15
WSCC	12	40	55	9	15	13
Hawaii	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: •Aggregate 1992 bulk power data supplied by investor-owned electric utilities were matched to the 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 is the result of the reclassifications and adjustments made to the data. •NERC is the North American Electric Reliability Council. See glossary for a list of regions and Figure 2 for a map of the regions. •Percentages may not total 100 because of independent rounding.

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

Figure 2. North American Electric Reliability Council Region Map for the United States

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

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 Federal Energy Regulatory Commission (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 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 interstate trade. A number of energy marketers that may be involved in interstate electricity trade have filed with FERC and have had their rates authorized (Appendix Table B7). When

ownership of the electricity is not taken, then those transactions are not regulated by FERC (the parties handling the transactions are called brokers).

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

Table 2. Energy Account Balance by Class of Ownership, 1992
(Million Kilowatthours)

Item	Investor-Owned	Federal ¹	State and Other Government	Municipals	Cooperatives	U.S. Total ²
Source of Energy						
Net Generation	2,115,878	239,629	188,243	127,289	154,054	2,805,092
Purchases from Utilities	490,388	18,802	73,789	252,275	311,069	1,146,323
Purchases from Nonutilities	184,461	306	225	904	387	186,283
Net Exchange ³	6,980	-10,886	1,068	-515	-152	-3,504
Received	123,257	38,889	8,165	11,073	22,474	203,858
Delivered	116,278	49,575	7,097	11,588	22,625	207,162
Net Wheeling ⁴	2,943	2,443	143	62	185	5,758
Received	239,985	51,825	5,861	15,559	5,308	318,538
Delivered	237,042	49,381	5,719	15,497	5,142	312,782
Disposition of Energy						
Sales to Ultimate Consumers	2,112,230	48,768	91,968	303,419	206,939	2,763,324
Requirements and Nonrequirements						
Sales for Resale	505,220	186,130	138,738	54,085	235,776	1,119,948
Energy Furnished Without Charge	1,598	378	1,105	1,274	54	4,409
Energy Used by Utility	5,789	1,289	4,340	3,562	670	15,651
Energy Losses ⁵	155,786	13,730	7,319	17,674	22,084	216,592

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 Source and disposition of energy do not balance as 26 million kWh was included in source but not disposition. This was caused by differing interpretations by some utilities of losses from transmission by others.

³ Reported as power exchange in account 555, "Purchased Power Transactions," of the FERC Uniform System of Accounts.

⁴ Reported as transmission services in account 456, "Transmission For Others," and in account 565, "Transmission By Others," of the FERC Uniform System of Accounts.

⁵ 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: •Aggregate 1992 bulk power data supplied by investor-owned electric utilities were matched to the 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. •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. •Totals may not equal sum of components because of independent rounding.

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

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,³ and portions of Canada and Mexico (Figure 2) 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.

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,

³The Alaska System Coordinating Council was an associate member of NERC in 1988 and now they are a member.

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.

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 6 percent of sales to consumers in 1992. 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 almost 8 percent of sales to consumers in 1992. Electricity inflows--purchases, exchanges-in, and wheeling-in--represent more than 60 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 1986 through 1992.

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. Chapter 5 presents selected data on the physical transmission systems.

Categories of Wholesale Trade Transactions

There are two main types of bulk power transactions: coordination transactions and requirement transactions. 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.

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. These contracts may involve more than one electric utility.

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

Table 3. Components of Source and Disposition of Electricity by NERC Region, 1992

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	4,735	48	1	3,019	3,020	349	4,338
ECAR	483,530	1,130	10,420	179,799	212,729	30,301	429,591
ERCOT	190,442	299	23,666	106,383	102,986	14,019	203,206
MAAC	193,330	2,132	16,433	76,243	59,416	13,660	210,799
MAIN	200,288	678	347	55,464	40,706	14,154	200,571
MAPP	120,053	603	576	124,758	116,200	11,301	117,283
NPCC	202,978	841	36,116	191,454	178,603	17,709	233,395
SERC	637,803	2,519	15,304	363,385	357,147	47,688	609,139
SPP	242,514	1,616	5,457	144,878	137,540	18,372	235,320
WSCC	522,863	10,183	55,637	423,132	431,563	48,508	511,352
Hawaii	6,555	19	2,324	4	3	529	8,332
U.S. Total	2,805,092	20,060	166,283	1,668,518	1,639,893	216,592	2,763,324
Percent							
ASCC	.	.	.	.	.	.	.
ECAR	17	6	6	11	13	14	16
ERCOT	7	1	14	8	6	6	7
MAAC	7	11	10	5	4	6	8
MAIN	7	3	.	3	2	7	7
MAPP	4	3	.	7	7	5	4
NPCC	7	4	22	11	11	8	8
SERC	23	13	9	22	22	22	22
SPP	9	8	3	9	8	8	9
WSCC	19	51	33	25	26	22	19
Hawaii	.	.	1	.	.	.	.

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

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Notes: *Aggregate 1992 bulk power data supplied by investor-owned electric utilities were matched to the 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. *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 and Figure 2 for a map of the regions. *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."

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.

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.

Investor-owned electric utilities have led the other ownership classes in both intra- and interregional purchases and sales for resale. Interregional sources provided 9 percent of investor-owned purchases in 1992. Cooperatives made interregional purchases of 5 percent while Federal utilities purchased almost 9 percent (Table 5).

As shown in Table 6, both firm purchases and sales for resale represented at least 52 percent of investor-owned utilities transactions (miscellaneous purchases and sales for resale are included in the total). Utilities in the WSCC region purchased the most firm electricity, while the utilities in the ECAR sold the most in 1992. Utilities in NPCC purchased the most nonfirm energy, and ECAR utilities sold the most nonfirm power. Nonfirm purchases nearly doubled from 1986 to 1992 while firm purchases increased by over 75 percent during that same time period.

Total electrical energy transported under transmission service agreements (wheeling) has held to about the same level during the period of 1990 to 1992 (Table

7). However, the utilities in the WSCC region, which as a group have reported the highest total, during this same period have also reported declines in all years. Utilities located in SERC, have reported increases over these same years and this region has held the number two position for the same years.

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 342.5 billion kilowatthours of firm power for \$16.4 billion and 299.7 billion kilowatthours of nonfirm energy for \$9.5 billion in 1992 (Table 8).

The combined costs of firm and nonfirm energy represent a 20-percent increase over the cost of those purchases reported in 1990. Firm purchases, in billion kilowatthours, increased by 5.5 percent with the two largest increases posted in MAPP (7.5 billion kilowatthours change or 120 percent) and NPCC (9.6 billion kilowatthours change or 15 percent). In addition to the energy purchased, demand-charge-only payments totaling \$181 million also were made to other utilities in 1992. Investor-owned utilities purchased 137.1 billion kilowatthours of firm power from other investor-owned utilities at a cost of \$5.9 billion, and nonfirm purchases totaled 98.7 billion kilowatthours for \$2.7 billion (Table 8). Investor-owned utilities bought from Federal utilities 2.2 billion kilowatthours of firm power for \$53.6 million and 12.2 billion kilowatthours of nonfirm power for a cost to the investor-owned utilities of \$277.6 million. Cooperative electric utilities received \$607.6 million from the sales of 16.6 billion kilowatthours of firm power, to investor-owned utilities and received \$494.9 million for 19.2 billion kilowatthours of nonfirm energy. Municipal electric utilities delivered 9.3 billion kilowatthours of firm power to investor-owned utilities for \$479.6 million and also delivered 5.9 billion kilowatthours of

Figure 3. Electricity Purchases and Costs by Investor-Owned Utilities by NERC Region, 1992

Notes: Number appearing above NERC region acronym (Hawaii is not a NERC region) indicates rank by kilowatthours (kWh) purchased. Hawaii includes Hawaii Electric Light Company purchases (utility does not file a FERC Form 1).

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

nonfirm energy for a cost of \$202.9 million to investor-owned utilities (Figure 3). Sales for resale data are shown in Table 9 and in Figure 4.

Investor-owned utilities exchanged more than 112 billion kilowatthours of electricity with other utilities for both receipts and deliveries (Table 10). More exchange activity occurred in WSCC than in any other NERC region with 45.9 billion kilowatthours in receipts and 48.1 billion kilowatthours in deliveries. The MAPP region was second. Trade in the WSCC region was dominated by investor-owned trade with Federal utilities in 1992 as in 1990. Total exchange transactions with Federal utilities in WSCC remained relatively stable for the years 1990 and 1992. Exchange receipts from Federal utilities increased by 8 percent and deliveries increased by less than 3 percent. By contrast, in ECAR total receipts from all sources declined by over 96 percent and deliveries declined by 97 percent. Total exchanges by all investor-owned utilities declined substantially from 1990 with receipts decreasing by almost 40 percent and deliveries decreasing by 43.5 percent

(reflecting in part the adjustments to the account from the implementation of FERC Accounting Resolution, AR-14, See Appendix A).

The exchanges reported with noninvestor-owned utilities in 1992 (Table 11), were mostly with Federal utilities. Cooperative utilities were a distant second, which is in contrast to 1990 when municipal utilities exchanged more power than cooperatives. In 1992, there was a substantial decrease from 1990 levels in receipts and deliveries for municipal utilities in WSCC. This resulted in an overall decrease in all NERC regions of 58 percent for receipts and 60 percent for deliveries. In 1990, municipal utilities were second in exchanges to Federal utilities, but in 1992 they were third behind Federal and cooperative utilities. Only in the WSCC, SERC and ERCOT regions were any appreciable exchange activity experienced among noninvestor-owned utilities similar to 1990 levels. Federal trade was predominant in WSCC and SERC, but cooperative utilities dominated in ERCOT.

Figure 4. Electricity Sales for Resale and Revenue by Investor-Owned Utilities by NERC Region, 1992

Notes: Number appearing above NERC region acronym indicates rank by kilowatthours (kWh) sold.
No sales for resale were reported in the ASCC region (Alaska) and Hawaii.

Source: Federal Energy Regulatory Administration, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others."

Table 4. Electric Trade in the United States by NERC Region, 1986 Through 1992
(Million Kilowatthours)

Year	Net Generation	Percent Increase from Year Earlier	Purchases & Exchanges Received ¹	Percent Increase from Year Earlier	Purchases & Exch. Rec. as Percent of Net Generation ¹	Sales to Ultimate Consumers	Percent Increase from Year Earlier	Sales for Resale & Exchanges Delivered ²	Percent Increase from Year Earlier	Sales for Resale & Exch. Del. as Percent of Sales to Ultimate Consumers ³
All Utilities in ASCC										
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
1987	4,412	-2	2,081	1.1	47.2	3,943	-2.2	2,097	1.4	53.2
1986	4,421	--	2,058	--	46.5	4,029	--	2,068	--	51.3
All Utilities in ECAR										
1992	483,530	-0.9	158,417	-4.2	32.8	429,591	-0.2	181,111	-5.3	42.2
1991	489,102	.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
1987	463,569	5.6	150,752	-14.5	32.5	389,799	4.6	193,641	-9.0	49.7
1986	438,890	--	176,423	--	40.2	372,808	--	212,921	--	57.1
All Utilities in ERCOT										
1992	190,442	-0.8	105,972	-0.4	55.6	203,206	-0.5	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
1987	173,645	.1	90,193	34.7	51.9	184,494	1.5	66,139	44.7	35.8
1986	173,381	--	66,942	--	38.6	181,746	--	45,709	--	25.1
All Utilities in HI										
1992	6,555	-6.2	2,328	45.1	35.5	8,332	2.2	3	-39.2	0.0
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
1987	7,103	4.9	481	-9.0	6.8	7,028	3.7	83	2.7	1.2
1986	6,773	--	529	--	7.8	6,780	--	81	--	1.2
All Utilities in MAAC										
1992	193,330	-2.0	82,808	5.2	42.8	210,799	-0.9	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
1987	185,541	2.9	64,208	13.3	34.6	191,677	4.9	41,120	5.4	21.4
1986	180,313	--	56,672	--	31.4	182,720	--	39,018	--	21.3
All Utilities in MAIN										
1992	200,288	-3.2	52,321	-4.1	26.1	200,571	-0.6	37,302	-16.2	18.6
1991	206,908	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
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
1987	185,240	2.7	54,605	8.2	29.5	176,801	2.9	48,517	6.5	27.4
1986	180,431	--	50,478	--	28.0	171,735	--	45,555	--	26.5
All Utilities in MAPP										
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	.8	89.9
1987	122,381	8.0	97,835	-10.0	79.9	104,687	.1	101,044	-5.6	96.5
1986	113,274	--	108,723	--	96.0	104,573	--	107,009	--	102.3

See notes and footnotes at end of table.

Table 4. Electric Trade in the United States by NERC Region, 1986 Through 1992
(Million Kilowatthours) (Continued)

Year	Net Generation	Percent Increase from Year Earlier	Purchases & Exchanges Received ¹	Percent Increase from Year Earlier	Purchases & Exch. Rec. as Percent of Net Generation ¹	Sales to Ultimate Consumers	Percent Increase from Year Earlier	Sales for Resale & Exchanges Delivered ²	Percent Increase from Year Earlier	Sales for Resale & Exch. Del. as Percent of Sales to Ultimate Consumers ³
All Utilities in NPCC										
1992	202,978	-6.9	166,884	8.2	82.2	233,396	-0.1	118,108	-1.7	50.8
1991	218,053	-4.3	154,206	8.8	70.7	233,643	-4	120,113	1.6	51.4
1990	227,868	-2.5	141,784	.5	62.2	234,542	.4	118,194	-3.3	50.4
1989	233,824	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
1987	212,165	-4.1	139,050	-5	65.5	216,979	4.5	115,181	-14.8	53.1
1986	221,331	—	139,889	—	63.1	207,666	—	135,126	—	65.1
All Utilities in SERC										
1992	637,803	1.1	351,478	-0.5	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
1987	559,700	5.7	328,486	11.0	58.7	522,900	5.0	325,418	12.0	62.2
1986	529,383	—	295,927	—	55.9	497,914	—	290,556	—	58.3
All Utilities in SPP										
1992	242,514	-0.8	128,586	0.5	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	48.2
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
1987	231,865	1.6	105,972	-8.7	45.7	211,806	1.7	107,229	-8.4	50.6
1986	228,130	—	116,064	—	50.9	208,238	—	117,036	—	56.2
All Utilities in WSCC										
1992	522,863	-0.1	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	336,081	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	5.8	270,525	.2	57.3
1987	486,398	2.1	286,132	-2.7	58.8	447,158	3.9	289,901	-6.8	60.4
1986	476,586	—	293,996	—	61.7	430,304	—	289,725	—	67.3
U.S. Total										
1992	2,805,092	-1.1	1,516,264	0.5	54.0	2,783,324	0.0	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	2,648,809	2.7	1,394,071	7.8	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
1987	2,632,019	3.1	1,319,796	.9	50.1	2,457,272	3.8	1,270,370	-1.1	51.7
1986	2,552,912	—	1,307,501	—	51.2	2,368,512	—	1,284,804	—	54.3

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

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

— Not Applicable

Notes: *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. *NERC is the North American Electric Reliability Council. See glossary for a list of regions and Figure 2 for a map of the regions. *Percentages may not total 100 because of independent rounding.

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

The quantity of electricity wheeled differed greatly between the transmission service provided "through the service territory" of investor-owned utilities (wheeling for) and the transmission service of power provided "to the service territory" of investor-owned utilities (wheeling by). In 1992, investor-owned wheeling for other investor-owned utilities decreased by 29

percent from about 90 billion kilowatthours of wheeling received in 1990 to about 64 billion kilowatthours of wheeling received in 1992 (Table 12). Revenue to investor-owned utilities for this service decreased by over 14 percent from 1990 to 1992 or from \$271.2 million to \$232 million. However, the total wheeling of power by investor-owned utilities remained relatively

constant with offsetting increases in power wheeled for other classes of ownership. Total revenue for all wheeling in 1992 increased by 10 percent from 1990 levels. Total wheeling of power by all classes to investor-owned service territories increased from over 81 billion kilowatthours received in 1990 to 89.7 billion kilowatthours received in 1992, an increase of 10 percent. The costs for this service to the investor-owned utilities increased from \$403.6 million in 1990 to \$468.8 million in 1992, an increase of 16 percent (Table 13).

Cooperative utilities move large amounts of electricity among themselves. Purchases by cooperatives in 1992 (Table 14) remained fairly consistent with purchases reported in 1990. In 1992, cooperative utilities reported purchasing 281 billion kilowatthours at a cost of \$11.6 billion. This represents an increase of almost 3 percent in power purchased and just over a 4-percent increase in associated costs. Of the 281 billion kilowatthours purchased by cooperatives almost 176 billion kilowatthours (62 percent), at a cost of \$7.9 billion, came from other cooperative utilities. This was over four times as much power as was purchased by cooperative utilities from investor-owned utilities. Much of the power purchased from other cooperatives was generated or purchased by power supply cooperatives.

For receipts of power within a region in 1992 (Table 15), investor-owned utilities in WSCC continued to dominate all other regions as the largest receiver of firm power (83 billion kilowatthours for \$5.1 billion). However, in 1992, NPCC replaced WSCC as the largest receiver of nonfirm energy (66.9 billion kilowatthours for \$3.0 billion). The regional numbers again indicated that wheeling principally occurs within NERC regions. In 1992, as in 1990, utilities in WSCC received the most wheeling energy with NPCC second for wheeling receipts. WSCC decreased in this category by slightly less than 2 percent over 1990, but still accounted for over 50 percent of the total "Wheeling By Others" reported for all regions.

For investor-owned utility trade within a region (Table 16), utilities in ECAR and NPCC sold the most firm energy, 60 and 52 billion kilowatthours for a revenue of \$1.5 billion and \$2.9 billion, respectively. In 1992, ECAR was first in nonfirm energy sales with 45 billion kilowatthours for \$1.2 billion and SERC was second with 38.9 billion kilowatthours and revenue of \$1.4 billion.

Trade between NERC regions was generally small compared with trade within NERC regions. However, SPP and SERC each traded extensively with multiple

NERC regions. Trade alignments that existed in 1990 changed somewhat in 1992. SERC had the most interregional firm purchases in 1992 (6.8 billion kilowatthours from ECAR) and MAACHad the largest nonfirm purchases (8.4 billion kilowatthours from ECAR). Utilities in MAIN purchased more energy outside the region than inside, a departure from normal. SERC received the most exchange energy in 1990, but MAPP led in this category in 1992 (2.7 billion kilowatthours from utilities in WSCC). In 1992, MAPP received over 568 million kilowatthours of wheeled power from utilities located in WSCC (Table 15). Utilities in MAPP sold more energy outside the region than inside. Investor-owned utilities in ECAR wheeled the most power for other utilities (4.1 billion kilowatthours to SERC) (Table 16).

In 1992, the United States purchased considerably more power (71 percent) from Canada than it did in 1990, while trade with Mexico remained stable and relatively small in relation to trade with Canada (Table 18). Power imports from Quebec and Manitoba outpaced the other provinces with increases over 1990 of 208 percent and 184 percent, respectively. Overall exports to Canada since 1990 declined by almost 61 percent. Exports of power to Ontario Province decreased by nearly 91 percent, led by reductions in exports from electric utilities in ECAR (Figure 5).

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).

Table 5. Intra- and Interregional Purchases and Sales for Resale by Selected Ownership Classes, 1986, 1988, 1990, and 1992
(Million Kilowatthours)

Type of Transaction / Ownership Class	Intraregional					Interregional				
	1992	1990	1988	1986	Total Percent Difference 1986-1992	1992	1990	1988	1986	Total Percent Difference 1986-1992
Purchases										
Investor-Owned	598,671	521,524	394,994	380,130	66.2	59,927	41,827	20,809	11,482	421.9
Federal ¹	17,948	8,476	74,217	39,037	-54.0	1,705	2,637	19,644	10,496	-83.8
Cooperatives	266,864	^a 257,467	254,766	239,081	11.6	14,234	^a 15,905	7,573	10,965	29.8
Sales for Resale¹										
Investor-Owned	452,442	373,897	320,738	320,102	41.7	61,928	70,284	45,235	26,534	129.5
Federal ¹	174,156	185,801	174,279	210,731	-17.4	12,973	11,764	2,918	4,111	215.6

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 in machine-readable format by the Rural Electrification Administration.

^a Revised.

Note: The FERC has again required investor-owned electric utilities to refile 1992 bulk power data.

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 Electrification Administration, 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."

Table 6. Firm and Nonfirm Purchases and Sales for Resale by Investor-Owned Utilities, by NERC Region, 1986, 1988, 1990, and 1992
(Million Kilowatthours)

NERC Region	Firm					Nonfirm				
	1992	1990	1988	1986	Percent Change 1986-1992	1992	1990	1988	1986	Percent Change 1986-1992
Purchases by Investor-Owned Utilities										
ECAR	46,741	47,191	13,777	15,943	193.2	39,531	22,186	10,358	10,689	269.8
ERCOT	22,716	22,285	21,423	21,046	7.9	5,141	3,399	2,919	1,854	177.3
MAAC	28,244	25,925	23,280	16,585	70.3	38,994	14,340	7,256	1,918	1932.7
MAIN	11,547	12,463	3,910	4,704	145.5	17,002	9,307	4,218	2,101	709.1
MAPP	13,652	6,193	5,485	3,146	334.0	12,701	13,744	10,117	12,377	2.6
NPCC	74,925	65,349	73,573	70,587	6.1	66,934	38,682	28,732	30,558	119.0
SERC	57,671	59,834	44,418	22,328	158.3	29,019	28,642	8,150	11,508	152.2
SPP	3,941	6,886	13,163	7,035	-44.0	44,138	30,227	26,777	19,652	124.6
WSCC	83,037	78,397	49,094	31,813	161.0	46,206	59,163	50,878	62,641	-26.2
Contiguous U.S. Total	342,472	324,524	248,104	193,185	77.3	289,686	219,700	149,405	153,299	95.5
Sales for Resale by Investor-Owned Utilities										
ECAR	78,719	75,359	77,391	50,908	54.6	53,251	42,054	22,102	28,190	88.9
ERCOT	6,599	8,232	8,667	8,019	-17.7	1,392	1,405	2,065	2,370	-41.3
MAAC	13,978	6,372	6,229	5,630	148.3	28,411	9,186	6,323	5,861	384.7
MAIN	16,375	22,325	10,890	13,172	24.3	10,170	6,884	1,226	1,612	530.8
MAPP	9,828	6,789	4,388	3,871	153.9	8,728	11,175	5,002	2,591	236.9
NPCC	53,816	47,578	49,477	43,925	22.5	37,984	19,337	13,164	16,564	129.2
SERC	42,960	44,051	39,759	33,454	28.4	46,339	49,429	36,568	34,431	34.6
SPP	17,139	15,586	14,830	16,662	2.9	27,944	19,960	21,377	19,459	43.6
WSCC	29,962	27,516	19,320	14,266	110.0	23,210	23,380	19,351	21,788	6.5
Contiguous U.S. Total	289,376	253,809	230,952	189,906	41.8	237,409	182,809	127,180	132,866	78.7

Notes: *Miscellaneous transactions for the Purchased Power and Sales for Resale categories have been excluded. See Chapter 2 for a discussion of miscellaneous transactions. *NERC is the North American Electric Reliability Council. The Alaska System Coordinating Council is not included. See Glossary for a list of regions and Figure 2 for a map of the 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."

Figure 5. U.S. Electricity Trade with Canada and Mexico by NERC Region, 1992

Note: Imports and exports expressed in billion kilowatthours (kWh).

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

Sources of Data, 1992

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 44 include detailed information developed from direct filings of different surveys by 224 of the 262 investor-owned electric utilities; 484 of the 2,017 State and municipal electric utilities; 915 of the 943 cooperative electric utilities, and 8 of the 10 Federal utilities.⁴ 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 utilities who did file. However, some do buy from cogenerators, co-operatives, 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. Tables 37 through 44 provide information on portions of the physical transmission systems. Data came from the same electric utility filings described above for the FERC Form 1 and Form EIA-412. Information on transmission line statistics covering the public sector has not been published before by EIA nor has the detailed information about transmission-

⁴The 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.

Table 7. Wheeling Trade in the United States by NERC Region, 1986 Through 1992
(Million Kilowatthours)

Wheeling	1992	1991	1990	1989	1988	1987	1986
All Utilities in ECAR							
Wheeling Received ¹	31,803	30,293	32,841	21,098	15,121	10,347	18,429
Wheeling Delivered ²	31,818	30,161	32,753	20,994	15,036	10,281	18,353
Wheeling Net	186	132	88	104	85	65	75
All Utilities in ERCOT							
Wheeling Received ¹	24,077	20,934	18,481	9,414	7,881	6,532	2,426
Wheeling Delivered ²	24,090	20,937	18,496	9,297	7,913	6,543	2,425
Wheeling Net	-13	-2	-14	117	-53	-11	2
All Utilities in MAAC							
Wheeling Received ¹	9,868	5,842	5,774	8,365	7,482	6,665	6,832
Wheeling Delivered ²	9,779	5,842	5,774	8,360	7,465	7,226	7,119
Wheeling Net	88	--	--	24	16	-560	-287
All Utilities in MAIN							
Wheeling Received ¹	3,489	3,819	1,451	1,215	1,913	2,071	571
Wheeling Delivered ²	3,404	3,739	1,414	1,205	1,916	2,017	561
Wheeling Net	85	80	37	10	10	54	10
All Utilities in MAPP							
Wheeling Received ¹	11,661	9,484	8,477	9,208	7,804	7,374	6,095
Wheeling Delivered ²	10,847	7,935	7,656	8,197	6,705	6,727	5,393
Wheeling Net	814	1,549	821	1,012	1,098	647	702
All Utilities in NPCC							
Wheeling Received ¹	60,687	57,173	48,613	42,897	38,365	20,486	23,815
Wheeling Delivered ²	60,495	56,925	48,399	42,351	38,089	20,011	23,603
Wheeling Net	191	248	214	546	276	475	212
All Utilities in SERC							
Wheeling Received ¹	27,211	28,457	29,291	22,726	12,354	11,039	12,490
Wheeling Delivered ²	25,408	27,447	28,174	21,865	11,743	9,966	11,238
Wheeling Net	1,803	1,010	1,117	841	611	1,073	1,252
All Utilities in SPP							
Wheeling Received ¹	21,749	22,150	27,091	19,591	20,089	10,156	8,650
Wheeling Delivered ²	21,839	22,078	26,985	19,924	19,956	9,818	8,408
Wheeling Net	110	72	105	-333	133	338	241
All Utilities in WSCC							
Wheeling Received ¹	127,514	144,466	152,097	164,824	157,755	118,925	117,807
Wheeling Delivered ²	125,023	142,592	148,388	163,623	157,682	118,995	117,477
Wheeling Net	2,492	1,874	3,708	1,200	74	-89	330
Contiguous U.S. Total							
Wheeling Received ¹	318,538	323,133	322,667	299,822	289,170	194,049	195,391
Wheeling Delivered ²	312,782	318,170	318,591	296,297	266,909	192,030	192,844
Wheeling Net	5,756	4,963	6,077	3,525	2,262	2,019	2,547

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

² Includes all transactions delivered out of and within the region by 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. •NERC is the North American Electric Reliability Council. See glossary for a list of regions and Figure 2 for a map of the regions.

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

lines-added and the associated cost for investor-owned electric utilities. Transmission-lines-added information is not collected for the public sector.

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 492 public utilities that report 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 Electrification Administration (REA) of the U.S. Department of Agriculture by cooperative borrowers. The REA collects information from all utilities that have "borrowed" under the REA 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 REA forms: 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." These forms are used to collect data on purchased power. Sales for resale transactions are not available in a machine-readable format from the REA.

Chapter 5 presents data on the physical transmission systems. The investor-owned data have been shifted from the EIA publication, "Financial Statistics of Selected Investor-Owned Electric Utilities," to this publication. In addition, transmission line statistics are being provided for publicly owned utilities for the first time from data reported on Form EIA-412.

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 to correct deficiencies with the FERC. 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). 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

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.

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, REA Form 7, and REA 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, REA Form 7, REA 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.

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 1992 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) REA Form 7 and REA 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 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, 1992

Sellers by Ownership Class	Demand Charge Only (dollars)	Firm				
		Demand Cost (dollars)	Energy Cost (dollars)	Other Cost (dollars)	Total Cost (dollars)	Purchases (thousand kWh)
Investor-Owned Utilities in ECAR						
Investor-Owned	---	299,759,628	661,198,561	-2,338,314	958,619,875	34,609,715
Federal	---	157,404	6,984,402	---	7,141,806	435,622
State and Other						
Government	---	5,058,414	2,176,147	-24,000	7,210,561	104,138
Municipals	---	31,979,318	43,265,094	-24,000	75,220,412	2,544,346
Cooperatives	---	477,996	2,528,124	24,532	3,030,652	182,769
Other ²	---	365,315,263	178,509,798	-549,199	543,275,862	8,864,126
Total	---	702,748,023	894,682,126	-2,910,981	1,594,499,168	46,740,710
Investor-Owned Utilities in ERCOT						
Investor-Owned	---	67,187,590	9,179,187	44,729,072	121,095,849	2,413,429
Federal	---	---	---	---	---	---
State and Other						
Government	---	---	---	---	---	---
Municipals	---	937,500	40,876	---	978,376	1,858
Cooperatives	---	---	---	---	---	---
Other ²	---	465,880,674	478,969,480	12,155,623	957,005,777	20,300,282
Total	---	534,005,764	488,189,543	56,884,695	1,079,080,002	22,715,569
Investor-Owned Utilities in MAAC						
Investor-Owned	38,796,603	344,826,433	246,867,329	-2,669,230	589,044,532	14,030,542
Federal	---	---	---	---	---	---
State and Other						
Government	---	236,483	95,652	---	332,135	24,997
Municipals	---	1,774	5,835	---	7,609	66
Cooperatives	---	---	---	---	---	---
Other ²	---	78,926,547	360,133,645	151,633	439,211,825	14,188,882
Total	38,796,603	423,991,237	607,122,461	-2,517,597	1,028,596,101	28,244,487
Investor-Owned Utilities in MAIN						
Investor-Owned	2,276,666	98,830,455	186,934,819	-134,127	285,631,147	10,714,697
Federal	---	207,400	8,565,467	---	8,772,867	460,839
State and Other						
Government	-29,000	---	---	---	---	---
Municipals	---	2,564,344	98,699	---	2,663,043	2,478
Cooperatives	---	1,131,375	5,155,764	---	6,287,139	316,772
Other ²	---	635,367	1,108,697	---	1,744,064	51,718
Total	2,247,666	103,368,941	201,863,446	-134,127	305,098,260	11,546,604
Investor-Owned Utilities in MAPP						
Investor-Owned	---	26,983,257	19,222,286	347,880	46,553,423	1,338,609
Federal	---	---	---	---	---	---
State and Other						
Government	1,106,000	19,037,239	10,159,473	4,703,936	33,900,648	1,294,040
Municipals	232,950	23,354,200	12,771,673	666,400	36,792,273	538,803
Cooperatives	769,503	77,108,567	52,341,872	476,630	129,927,089	5,161,425
Other ²	1,865,480	14,307,040	64,129,979	---	78,437,019	5,318,733
Total	3,973,933	160,790,323	158,625,283	6,194,846	325,610,452	13,651,610

See notes and footnotes at end of table.

Table 8. Electricity Purchases by Investor-Owned Utilities, by NERC Region, 1992
(Continued)

Sellers by Ownership Class	Nonfirm			Miscellaneous ^a		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	313,393,047	8,911,373	15,766,555	260,549,110	9,275,619	1,541,473,405	59,651,889
Federal	2,413,805	777	178,799	—	—	9,556,388	614,421
State and Other							
Government	20,190,982	50,910,099	1,308,244	—	1,615	78,311,642	1,413,997
Municipals	3,284,152	—	202,254	-66,769	7,340	78,417,795	2,753,940
Cooperatives	13,114,386	1,296,106	615,453	—	—	17,441,144	798,216
Other ^a	543,452,778	-14,306	21,459,943	-1,639,149	117,349	1,085,075,185	30,441,418
Total	895,829,150	61,104,049	39,531,248	258,843,192	9,401,923	2,810,275,559	95,673,881
Investor-Owned Utilities in ERCOT							
Investor-Owned	6,106,622	72,421	317,978	766,466	108,380	128,041,358	2,839,787
Federal	734,370	—	80,080	—	—	734,370	80,080
State and Other							
Government	6,931,328	11,300	459,351	133	—	6,942,761	459,351
Municipals	1,615,282	31,413	104,587	202	—	2,825,273	106,445
Cooperatives	1,138,387	-128,746	87,540	28	—	1,009,669	87,540
Other ^a	75,511,404	21,729	4,091,250	262,850	-374	1,032,801,760	24,391,158
Total	92,037,393	8,117	5,140,786	1,029,679	108,006	1,172,155,191	27,964,361
Investor-Owned Utilities in MAAC							
Investor-Owned	313,709,334	167,960,580	13,838,963	50,471,883	2,763,391	1,159,982,932	30,432,896
Federal	—	—	—	—	—	—	—
State and Other							
Government	14,070,295	92,920	345,387	—	—	14,495,350	370,384
Municipals	122,765,331	3,163	2,069,528	—	—	122,776,103	2,069,594
Cooperatives	4,571,632	—	224,017	5,538,905	—	10,110,537	224,017
Other ^a	832,863,504	25,171,871	22,716,534	12,655,583	188,637	1,309,902,783	37,094,253
Total	1,267,980,096	193,228,534	38,994,429	68,666,371	2,952,228	2,617,267,705	70,191,144
Investor-Owned Utilities in MAIN							
Investor-Owned	199,905,973	2,786,250	12,909,080	171,002	18	490,771,038	23,623,795
Federal	56,999,084	—	3,468,066	—	—	65,771,951	3,929,005
State and Other							
Government	1,172,589	—	55,903	—	—	1,143,589	55,903
Municipals	510,836	—	19,705	—	—	3,173,879	22,183
Cooperatives	4,809,983	6,082,000	250,533	—	—	17,179,122	567,305
Other ^a	7,358,571	—	298,791	—	8,808	9,102,635	359,317
Total	270,757,036	8,868,250	17,002,078	171,002	8,826	587,142,214	26,557,508
Investor-Owned Utilities in MAPP							
Investor-Owned	36,359,991	—	2,169,938	—	—	82,913,414	3,508,547
Federal	5,076,727	—	327,250	98,068	11,964	5,174,795	339,214
State and Other							
Government	39,385,976	70,698,854	4,853,491	—	—	145,091,478	6,147,531
Municipals	9,138,327	—	581,546	—	—	46,163,550	1,120,349
Cooperatives	37,613,193	—	2,992,208	16,211	—	168,325,996	8,153,633
Other ^a	15,910,230	—	1,777,047	4,514,267	7,677	100,726,996	7,103,457
Total	143,484,444	70,698,854	12,701,480	4,628,546	19,641	548,396,229	26,372,731

See notes and footnotes at end of table.

Table 8. Electricity Purchases by Investor-Owned Utilities, by NERC Region, 1992
(Continued)

Sellers by Ownership Class	Demand Charge Only (dollars)	Firm				
		Demand Cost (dollars)	Energy Cost (dollars)	Other Cost (dollars)	Total Cost (dollars)	Purchases (thousand kWh)
Investor-Owned Utilities in NPCC						
Investor-Owned	11,587,261	1,518,891,566	805,890,339	264,486,131	2,589,268,036	45,436,052
Federal	---	---	---	---	---	---
State and Other						
Government	---	181,019,683	135,848,989	2,166,788	319,035,460	13,563,172
Municipals	---	6,422,445	6,999,428	---	13,421,873	283,949
Cooperatives	---	415,655	382,043	---	797,698	30,575
Other ²	5,468,582	295,423,693	588,318,900	9,582	883,752,175	15,611,297
Total	17,055,843	2,002,173,042	1,537,439,699	266,662,501	3,806,275,242	74,925,045
Investor-Owned Utilities in SERC						
Investor-Owned	5,520,000	124,669,442	121,795,220	-1,129,546	245,335,116	6,934,800
Federal	758,545	9,232,056	10,871,130	---	20,103,186	612,739
State and Other						
Government	-245,891	244,312,936	74,793,659	2,431,028	321,537,623	6,109,550
Municipals	-61,473	149,988,230	66,830,530	---	216,818,760	4,432,528
Cooperatives	-266,382	186,597,541	90,183,204	95,806	276,876,551	5,152,786
Other ²	-21,000	836,406,183	838,893,012	151,431	1,675,450,626	34,428,389
Total	5,683,799	1,551,206,388	1,203,366,755	1,548,719	2,756,121,862	57,670,792
Investor-Owned Utilities in SPP						
Investor-Owned	---	249,381,976	45,140,570	3,802,419	298,324,965	2,974,022
Federal	---	---	---	---	---	---
State and Other						
Government	---	338,688	45,130	---	383,818	13,470
Municipals	---	2,951,978	691,881	---	3,643,859	71,553
Cooperatives	416	10,168,175	7,910,742	---	18,078,917	881,808
Other ²	---	---	---	---	---	---
Total	416	262,840,817	53,788,323	3,802,419	320,431,559	3,940,853
Investor-Owned Utilities in WSCC						
Investor-Owned	25,740,578	418,410,833	368,261,209	-3,974,055	782,697,987	18,679,364
Federal	70,493,814	5,753,508	11,051,457	823,514	17,628,479	660,370
State and Other						
Government	900,000	83,203,897	103,556,589	23,201,495	209,961,981	4,987,008
Municipals	---	44,741,328	84,794,592	550,529	130,086,449	1,455,170
Cooperatives	---	100,325,404	72,293,416	8,320	172,627,140	4,826,428
Other ²	15,991,500	1,249,683,741	2,571,149,506	2,384,564	3,823,217,811	52,428,304
Total	113,125,892	1,902,118,711	3,211,106,769	22,994,367	5,136,219,847	83,036,644
Contiguous U.S. Total						
Investor-Owned	83,921,108	3,148,941,180	2,464,509,520	303,120,230	5,916,570,930	137,131,230
Federal	71,252,359	15,350,368	37,472,456	823,514	53,646,338	2,169,670
State and Other						
Government	1,731,109	533,207,340	326,675,639	32,479,247	892,362,226	26,096,375
Municipals	171,477	262,941,117	215,498,608	1,192,929	479,632,654	9,330,751
Cooperatives	503,537	376,224,733	230,795,165	605,288	607,625,186	16,552,557
Other ²	23,304,582	3,306,578,508	5,081,213,017	14,303,634	8,402,095,159	151,191,731
Total	180,884,152	7,643,243,246	8,356,164,405	352,524,842	16,351,932,493	342,472,314

See notes and footnotes at end of table.

Table 8. Electricity Purchases by Investor-Owned Utilities, by NERC Region, 1992
(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	375,289,893	386,067,911	21,351,298	-10,131,828	17,494	3,352,081,273	66,804,844
Federal	—	—	—	—	196	—	196
State and Other	—	—	—	—	—	—	—
Government	46,358,717	—	776,822	108,921	23,108	365,503,098	14,363,102
Municipals	2,806,788	—	44,428	—	—	16,028,661	328,377
Cooperatives	777,051	13,469,242	188,370	—	—	15,043,991	218,948
Other ³	2,052,579,524	154,286,814	44,572,839	-8,294,864	8,532	3,087,792,231	60,192,668
Total	2,477,611,773	553,823,967	66,933,757	-18,317,571	49,330	6,836,449,254	141,908,132
Investor-Owned Utilities in SERC							
Investor-Owned	315,827,117	1,032,402	12,035,763	-33,078	-5,326	567,681,557	18,965,237
Federal	6,851,046	—	378,681	—	17,140	27,712,777	1,008,540
State and Other	—	—	—	—	—	—	—
Government	212,728,040	—	3,927,792	-392,827	-7,731	533,626,945	10,029,611
Municipals	17,507,661	3,408	955,237	3,270,200	—	237,538,556	5,387,765
Cooperatives	259,051,082	2,414,590	8,815,226	—	—	538,075,841	11,968,012
Other ³	180,311,189	5,596,187	4,906,501	721,780	66,922	1,842,058,782	39,401,812
Total	972,276,135	9,046,587	29,019,180	3,566,075	71,005	3,746,694,458	86,760,977
Investor-Owned Utilities in SPP							
Investor-Owned	129,187,323	211,858,453	8,817,302	14,737,823	170,124	654,088,584	11,961,448
Federal	2,122,985	—	121,135	—	—	2,122,985	121,135
State and Other	—	—	—	—	—	—	—
Government	24,922,088	7,876,034	1,892,480	3,640,649	163,029	36,622,589	1,868,979
Municipals	4,409,969	1,348,000	258,059	—	59,999	9,401,828	389,611
Cooperatives	99,028,505	3,340,114	5,432,614	-342	649,851	120,447,610	6,964,273
Other ³	817,621,265	112,157,081	27,815,993	3,514,958	737	933,293,304	27,816,730
Total	1,077,272,135	336,379,682	44,137,583	21,893,088	1,043,740	1,755,976,880	49,122,176
Investor-Owned Utilities in WSCC							
Investor-Owned	261,530,883	355,206	11,709,604	8,105,983	418,378	1,078,430,637	30,807,344
Federal	202,998,806	365,538	7,648,954	-82,337,596	—	229,149,041	8,309,324
State and Other	—	—	—	—	—	—	—
Government	239,684,483	14,953,544	15,863,370	37,859,428	2,571,409	503,359,436	23,421,787
Municipals	39,711,404	-3,659	1,692,621	-45,682	297	169,748,512	3,148,088
Cooperatives	48,220,740	94,138	2,559,076	-26,431	—	220,915,587	7,385,504
Other ³	241,365,656	-467,432	6,732,311	-49,967,657	-184,865	4,030,139,878	58,975,750
Total	1,033,511,972	15,297,335	46,205,936	-66,411,955	2,805,217	6,231,743,091	132,047,797
Contiguous U.S. Total							
Investor-Owned	1,951,289,983	779,044,596	98,716,481	324,837,561	12,748,076	9,055,464,178	248,595,787
Federal	277,196,823	366,315	12,202,945	-82,239,528	29,300	340,222,307	14,401,915
State and Other	—	—	—	—	—	—	—
Government	605,444,498	144,342,751	29,282,840	41,216,304	2,751,430	1,885,096,888	58,130,645
Municipals	201,529,750	1,382,325	5,927,965	3,157,951	67,636	685,874,157	15,326,352
Cooperatives	468,324,959	26,567,444	19,165,037	5,528,371	649,851	1,108,549,497	36,367,445
Other ³	4,746,974,121	296,751,944	134,371,209	-38,232,232	213,623	13,430,893,554	285,776,563
Total	6,250,760,134	1,248,455,375	299,668,477	274,068,427	16,459,916	26,306,100,581	658,598,707

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 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 System Coordinating Council is not included. See glossary for a list of regions and Figure 2 for a map of the 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, 1992

Purchasers by Ownership Class	Demand Charge Only ¹ (dollars)	Firm				
		Demand Revenue (dollars)	Energy Revenue (dollars)	Other Revenue (dollars)	Total Revenue (dollars)	Sales (thousand kWh)
Investor-Owned Utilities in ECAR						
Investor-Owned	5,754,482	483,313,019	900,587,141	-6,863,986	1,377,036,174	58,537,524
Federal	—	—	—	—	—	—
State and Other	—	—	—	—	—	—
Government	—	28,734,467	31,132,825	-550,112	59,317,180	1,918,272
Municipals	1,586,321	155,097,144	198,146,807	-14,233,435	339,010,516	9,479,219
Cooperatives	4,783,875	86,881,041	106,819,182	-395,565	193,304,658	5,966,600
Other ²	—	15,466,775	47,707,855	—	63,174,630	2,818,202
Total	12,104,678	769,492,446	1,284,393,810	-22,043,098	2,031,843,158	78,718,817
Investor-Owned Utilities in ERCOT						
Investor-Owned	—	67,166,940	36,732,565	31,404,196	135,303,701	2,539,006
Federal	—	—	—	—	—	—
State and Other	—	—	—	—	—	—
Government	—	21,230	668,542	—	689,772	28,320
Municipals	—	6,189,872	3,619,555	2,269,958	12,079,385	268,332
Cooperatives	—	78,109,866	56,875,428	48,754,936	183,740,230	3,762,047
Other ²	—	21,812	26,410	7,736	55,958	1,080
Total	—	151,509,720	97,922,500	82,436,826	331,869,046	6,598,785
Investor-Owned Utilities in MAAC						
Investor-Owned	—	46,367,628	36,080,745	-2,129,589	80,318,765	1,674,632
Federal	—	—	—	—	—	—
State and Other	—	—	—	—	—	—
Government	—	—	—	—	—	—
Municipals	—	36,308,563	58,453,227	-1,206,158	93,555,632	1,841,046
Cooperatives	—	94,090,077	57,164,346	35,901,799	187,156,222	3,965,884
Other ²	—	21,542,672	140,821,137	—	162,363,809	6,496,471
Total	—	198,308,940	292,519,455	32,566,053	523,394,448	13,978,033
Investor-Owned Utilities in MAIN						
Investor-Owned	718,417	77,652,913	135,766,037	-1,722,928	211,696,022	6,138,156
Federal	—	—	—	—	—	—
State and Other	—	—	—	—	—	—
Government	—	19,875,588	39,314,024	-3,547,961	55,641,651	1,585,805
Municipals	-26,225	65,151,667	128,798,533	-9,949,879	184,000,321	4,846,635
Cooperatives	—	59,231,757	43,325,895	93,698	102,651,350	2,534,487
Other ²	62,040	2,582,622	22,287,093	-559,607	24,310,108	1,270,406
Total	754,232	224,494,547	369,491,582	-15,686,677	578,299,452	16,375,489
Investor-Owned Utilities in MAPP						
Investor-Owned	892,820	44,915,592	88,361,510	609,533	133,886,635	6,200,289
Federal	—	141,840	312,557	112,956	567,353	21,408
State and Other	—	—	—	—	—	—
Government	—	1,760	684	93	2,537	62
Municipals	194,040	46,405,961	59,519,453	2,140,829	108,066,243	3,267,355
Cooperatives	779,540	817,997	3,706,471	91,787	4,616,255	338,328
Other ²	187,578	4,309	15,020	825	20,154	505
Total	2,053,978	92,287,459	151,915,695	2,956,023	247,159,177	9,827,947

See notes and footnotes at end of table.

Table 9. Electricity Sales for Resale by Investor-Owned Utilities, by NERC Region, 1992
(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	680,269,037	27,390,332	25,355,903	108,680,070	--	2,199,130,095	83,893,427
Federal	19,051,544	--	1,276,977	--	--	19,051,544	1,276,977
State and Other							
Government	1,806,376	--	73,276	27,149	--	60,950,705	1,991,547
Municipals	84,792,846	960,071	2,667,266	-392,365	--	425,937,389	12,146,485
Cooperatives	34,429,042	-2,976,614	1,521,121	--	--	229,540,961	7,486,721
Other ³	578,818,699	218,287	22,356,343	-196,461	435	642,015,155	25,174,980
Total	1,396,967,544	25,592,076	53,250,685	108,118,393	435	3,576,625,849	131,970,137
Investor-Owned Utilities in ERCOT							
Investor-Owned	3,071,720	42,595	146,836	--	--	136,418,016	2,686,842
Federal	--	--	--	--	--	--	--
State and Other							
Government	18,276	9,479	283	--	--	717,527	28,603
Municipals	815,996	485,249	51,766	-1,421	--	13,379,209	320,098
Cooperatives	3,870,076	59,627	218,363	-25,202	--	187,644,731	3,980,410
Other ³	11,850,387	9,639,400	975,083	660,399	--	22,206,144	976,163
Total	19,626,455	10,236,350	1,392,331	633,776	--	362,365,627	7,991,116
Investor-Owned Utilities in MAAC							
Investor-Owned	319,384,611	230,334,270	14,879,963	40,897,549	2,763,394	670,935,215	19,317,989
Federal	--	--	--	--	--	--	--
State and Other							
Government	8,031,393	--	352,057	--	--	8,031,393	352,057
Municipals	22,768,971	7,699,258	854,238	--	--	124,023,861	2,695,284
Cooperatives	--	--	--	--	--	187,156,222	3,965,884
Other ³	302,584,232	63,977	12,324,500	39,470,565	771,070	504,482,583	19,592,041
Total	652,769,207	238,097,505	28,410,758	80,368,114	3,534,464	1,494,629,274	45,923,255
Investor-Owned Utilities in MAIN							
Investor-Owned	120,000,556	4,793,331	7,926,226	--	235	337,208,326	14,064,617
Federal	3,423,096	--	239,786	--	--	3,423,096	239,786
State and Other							
Government	1,797,113	1,775,000	146,855	--	--	59,213,764	1,732,660
Municipals	35,805,997	-36,719	984,092	--	--	219,743,374	5,830,727
Cooperatives	27,617,885	--	876,731	--	--	130,269,235	3,411,216
Other ³	-463,993	--	-3,851	19,202	2,707	23,927,357	1,269,262
Total	188,180,854	6,531,612	10,169,839	19,202	2,942	773,785,152	26,548,270
Investor-Owned Utilities in MAPP							
Investor-Owned	68,162,123	120	5,025,090	--	--	202,941,698	11,225,379
Federal	6,773,378	--	479,832	--	--	7,340,731	501,240
State and Other							
Government	6,595,087	--	450,854	--	--	6,597,634	450,916
Municipals	8,155,977	--	502,050	--	--	116,416,260	3,769,405
Cooperatives	17,046,961	--	1,242,604	--	--	22,442,756	1,580,932
Other ³	11,432,233	--	1,027,863	-78,461	-954	11,561,504	1,027,414
Total	118,165,769	120	8,728,293	-78,461	-954	367,300,583	18,555,286

See notes and footnotes at end of table.

Table 9. Electricity Sales for Resale by Investor-Owned Utilities, by NERC Region, 1992
(Continued)

Purchasers by Ownership Class	Demand Charge Only ¹ (dollars)	Firm				
		Demand Revenue (dollars)	Energy Revenue (dollars)	Other Revenue (dollars)	Total Revenue (dollars)	Sales (thousand kWh)
Investor-Owned Utilities in NPCC						
Investor-Owned	-248,236	1,539,178,693	809,362,970	275,194,131	2,623,735,794	46,651,005
Federal	—	1,757,301	1,078,162	567,237	3,402,700	50,260
State and Other						
Government	4,410	13,453,828	17,210,797	—	30,664,625	608,203
Municipals	-269,294	99,708,243	62,308,051	6,845,486	168,861,780	2,992,571
Cooperatives	—	25,256,482	24,486,008	-2,639,179	47,103,311	760,041
Other ^a	-180,283	57,176,806	57,632,648	120,090	114,929,544	2,753,720
Total	-693,403	1,736,531,353	972,078,636	280,087,765	2,988,697,754	53,815,800
Investor-Owned Utilities in SERC						
Investor-Owned	—	273,377,458	276,036,673	-1,394,126	548,020,003	13,641,107
Federal	—	—	—	—	—	—
State and Other						
Government	—	149,348,566	93,913,627	52,348,525	295,610,718	7,366,251
Municipals	174,481	188,104,904	167,929,810	4,925,626	360,960,340	8,676,445
Cooperatives	61,291	314,137,528	187,750,742	17,440,747	519,329,017	10,685,508
Other ^a	—	31,667,218	48,045,774	-393,632	79,519,360	2,591,184
Total	235,772	956,835,674	773,676,626	72,927,138	1,803,439,438	42,960,495
Investor-Owned Utilities in SPP						
Investor-Owned	587,300	46,855,180	23,139,271	10,368,004	80,362,455	2,241,455
Federal	—	1,225,287	2,198,018	126,900	3,550,205	59,826
State and Other						
Government	185,920	3,824,471	8,727,641	934,553	13,486,665	301,337
Municipals	138,705	52,294,591	111,035,701	4,847,535	168,177,827	4,503,461
Cooperatives	—	112,528,424	106,393,900	55,132,345	274,054,669	8,736,727
Other ^a	—	4,760,372	22,499,736	—	27,260,108	1,296,536
Total	911,925	221,488,325	273,994,267	71,409,337	566,891,929	17,139,342
Investor-Owned Utilities in WSCC						
Investor-Owned	8,688,000	380,750,177	317,401,507	5,696,618	703,848,302	17,178,138
Federal	—	21,696,583	19,545,487	-41,891	41,200,179	701,151
State and Other						
Government	—	151,009,999	122,925,830	11,671,720	285,607,549	5,484,300
Municipals	682,002	92,418,477	98,237,756	-4,014,760	186,641,473	3,757,200
Cooperatives	629	35,020,852	40,048,783	-3,095,936	71,973,679	1,800,610
Other ^a	—	28,297,098	6,121,903	10,520,441	44,939,442	1,040,291
Total	9,350,631	709,193,186	604,281,246	20,736,192	1,334,210,624	29,961,690
Contiguous U.S. Total						
Investor-Owned	16,372,783	2,959,577,600	2,623,468,419	311,161,852	5,894,207,871	154,801,312
Federal	—	24,821,011	23,134,224	765,202	48,720,437	832,645
State and Other						
Government	190,330	366,269,909	313,893,970	60,856,818	741,020,697	17,292,550
Municipals	2,460,030	741,679,422	688,048,893	-8,374,798	1,621,353,517	39,632,264
Cooperatives	5,625,335	806,074,024	626,570,735	151,284,832	1,583,929,391	38,549,232
Other ^a	69,335	161,719,684	345,157,576	9,695,853	516,573,113	18,268,395
Total	24,717,813	5,060,141,650	4,820,273,817	525,389,559	10,405,805,026	269,376,398

See notes and footnotes at end of table.

Table 9. Electricity Sales for Resale by Investor-Owned Utilities, by NERC Region, 1992
(Continued)

Purchasers by Ownership Class	Nonfirm			Miscellaneous ¹		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	307,642,973	425,092,478	14,762,493	177,569,716	3,740,211	3,533,792,725	65,153,709
Federal	-333	-108	-10	—	—	3,402,259	50,250
State and Other							
Government	69,558,360	31,247,338	3,180,005	—	888	131,474,733	3,789,094
Municipals	2,197,122	1,432,944	92,358	94,170	-173	172,316,722	3,084,766
Cooperatives	393,151	137,335	17,032	-1,144	—	47,632,653	777,073
Other ²	435,817,001	41,252,985	19,911,692	16,128,497	-2,884	607,947,744	22,662,526
Total	815,608,274	499,162,972	37,963,570	193,791,239	3,738,040	4,466,566,836	95,517,410
Investor-Owned Utilities in SERC							
Investor-Owned	1,267,588,501	-1,522,304	22,347,675	—	—	1,814,066,200	35,988,782
Federal	1,287,563	—	69,601	—	—	1,287,563	69,601
State and Other							
Government	4,466,488	—	172,341	1,515,267	-1,631	301,592,473	7,536,961
Municipals	186,115,003	-5,131,908	4,296,816	-2,577	—	542,115,339	12,973,261
Cooperatives	360,248,579	309,892	7,980,366	—	—	879,948,779	18,665,874
Other ²	217,309,658	29,898,988	11,472,663	635,042	-27,273	327,363,048	14,036,574
Total	2,037,015,792	23,554,668	46,339,482	2,147,732	-28,904	3,866,393,402	89,271,053
Investor-Owned Utilities in SPP							
Investor-Owned	216,146,004	128,758	11,502,189	357,244	15,855	297,583,761	13,759,499
Federal	921,731	-53,667	33,460	—	—	4,418,269	93,286
State and Other							
Government	4,796,533	—	246,652	782,026	15,114	19,251,144	563,103
Municipals	20,130,202	4,991,432	1,050,723	3,533,444	170,584	196,971,610	5,724,768
Cooperatives	13,707,216	—	771,875	996,525	43,869	288,758,410	9,552,471
Other ²	325,043,966	29,051	14,339,104	-1,604,801	-35,361	350,728,324	15,600,279
Total	580,747,652	5,095,574	27,944,003	4,064,438	210,061	1,157,711,518	45,293,406
Investor-Owned Utilities in WSCC							
Investor-Owned	278,197,871	2,008,456	11,985,570	-1,527,473	124,710	991,195,156	29,288,418
Federal	125,537,052	23,099	5,221,996	—	—	166,760,330	5,923,147
State and Other							
Government	82,519,615	552,948	3,327,967	39,929	—	368,720,041	8,812,267
Municipals	67,300,606	788,958	2,245,381	-9,064,322	3,475	246,348,717	6,006,056
Cooperatives	7,257,736	401,378	339,656	3,538	—	79,636,960	2,140,266
Other ²	2,472,369	—	89,437	11,341,962	638	58,753,773	1,130,366
Total	563,285,249	3,774,839	23,210,007	793,634	128,823	1,911,414,977	53,300,520
Contiguous U.S. Total							
Investor-Owned	3,260,465,396	688,268,036	113,931,945	325,977,106	6,644,405	10,185,291,192	275,377,662
Federal	156,994,031	-30,676	7,321,642	—	—	205,683,792	8,154,287
State and Other							
Government	179,389,251	33,584,765	7,950,289	2,364,371	14,369	956,549,414	25,257,208
Municipals	428,082,720	11,189,285	12,744,690	-5,833,071	173,886	2,057,252,481	52,550,840
Cooperatives	464,570,646	-2,068,382	12,967,748	973,717	43,869	2,053,030,707	51,560,849
Other ²	1,884,864,552	81,102,688	82,492,834	66,375,944	708,378	2,548,985,832	101,469,607
Total	6,374,366,596	812,045,716	237,409,148	389,856,067	7,584,907	18,006,793,218	514,370,453

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 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 System Coordinating Council is not included. See glossary for a list of regions and Figure 2 for a map of the 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, 1992

Exchange by Investor-Owned Utilities with Other Utilities	Received ^a (thousand kWh)	Delivered ^a (thousand kWh)	Demand Charge (dollars)	Energy Charge (dollars)	Other Charge (dollars)	Settlement (dollars)
Investor-Owned Utilities in ECAR						
Investor-Owned	1,655,673	1,367,186	71,968	4,077,704	258,728	4,408,400
Federal	246,359	242,462	--	--	--	--
State and Other						
Government	--	--	--	--	--	--
Municipals	15,881	26,768	--	--	--	--
Cooperatives	160,476	213,623	--	38,696	--	38,696
Other ¹	457,944	646,460	--	17,000,000	--	17,000,000
Total	2,536,333	2,498,499	71,968	21,116,400	258,728	21,447,096
Investor-Owned Utilities in ERCOT						
Investor-Owned	14,309,953	17,572,656	--	--	1,500	1,500
Federal	--	--	--	--	--	--
State and Other						
Government	1,375,970	1,088,928	--	--	700	700
Municipals	2,169	683,738	--	--	--	--
Cooperatives	86,371	84,574	--	--	--	--
Other ¹	11,802,303	8,142,373	--	--	--	--
Total	27,576,766	27,572,269	--	--	2,200	2,200
Investor-Owned Utilities in MAAC						
Investor-Owned	--	--	--	--	--	--
Federal	--	--	--	--	--	--
State and Other						
Government	--	--	--	--	--	--
Municipals	--	--	--	--	--	--
Cooperatives	--	--	--	--	--	--
Other ¹	1,147,276	--	3,189,384	31,438,735	--	34,628,119
Total	1,147,276	--	3,189,384	31,438,735	--	34,628,119
Investor-Owned Utilities in MAIN						
Investor-Owned	48,739	5,209	--	1,026,135	--	1,026,135
Federal	--	--	--	--	--	--
State and Other						
Government	532	532	--	--	--	--
Municipals	534	3,028	--	-64,986	--	-64,986
Cooperatives	--	--	--	--	--	--
Other ¹	1,617	18,831	--	-463,155	--	-463,155
Total	51,422	27,800	--	497,994	--	497,994
Investor-Owned Utilities in MAPP						
Investor-Owned	13,001,638	18,094,013	--	--	--	--
Federal	2,688,358	10,237	--	--	--	--
State and Other						
Government	132,842	965,587	--	--	--	--
Municipals	4,877	298,510	--	--	--	--
Cooperatives	12,552,721	9,135,846	--	--	--	--
Other ¹	13,567	408,271	--	--	--	--
Total	28,394,003	28,912,464	--	--	--	--

See notes and footnotes at end of table.

Table 10. Investor-Owned Utility Exchanges of Electricity with All Ownership Classes, by NERC Region, 1992 (Continued)

Exchange by Investor-Owned Utilities with Other Utilities	Received ¹ (thousand kWh)	Delivered ² (thousand kWh)	Demand Charge (dollars)	Energy Charge (dollars)	Other Charge (dollars)	Settlement (dollars)
Investor-Owned Utilities in NPCC						
Investor-Owned	419,487	35,434	—	9,043,882	—	9,043,882
Federal	—	—	—	—	—	—
State and Other	—	—	—	—	—	—
Government	305,538	407,013	5,713,331	335,070	2,732,400	8,780,801
Municipals	2,320	—	—	88,148	—	88,148
Cooperatives	—	—	—	—	—	—
Other ³	68,396	5,893	—	—	—	—
Total	795,741	448,340	5,713,331	9,467,078	2,732,400	17,912,809
Investor-Owned Utilities in SERC						
Investor-Owned	28,629	30,381	—	—	—	—
Federal	13,914	13,596	—	—	—	—
State and Other	—	—	—	—	—	—
Government	657,781	563,931	—	919,823	—	919,823
Municipals	219,238	187,963	—	102,497	—	102,497
Cooperatives	1,573,202	1,343,071	—	1,308,236	—	1,308,236
Other ³	221,753	221,005	—	—	—	—
Total	2,714,517	2,359,927	—	2,330,556	—	2,330,556
Investor-Owned Utilities in SPP						
Investor-Owned	531,180	528,408	—	700,867	—	700,867
Federal	366,107	347,043	63,585	—	—	63,585
State and Other	—	—	—	—	—	—
Government	645,227	643,771	—	—	—	—
Municipals	—	—	—	—	—	—
Cooperatives	65,003	53,479	—	30,012	—	30,012
Other ³	1,406,548	1,406,999	—	—	—	—
Total	3,014,045	2,979,898	63,585	730,879	—	794,464
Investor-Owned Utilities in WSCC						
Investor-Owned	5,192,894	5,130,144	—	-3,589,707	-138,085	-3,727,792
Federal	27,086,042	29,371,370	499,190	-31,293,244	-64,863,469	-95,657,523
State and Other	—	—	—	—	—	—
Government	3,423,021	3,000,227	573,950	17,181,898	20,903	17,756,749
Municipals	587,095	652,664	4,612,618	9,039,552	193,424	13,845,594
Cooperatives	628,115	1,064,507	—	—	—	—
Other ³	8,977,123	8,876,893	—	-251,413	—	-251,413
Total	45,894,290	48,095,605	5,685,758	-8,932,916	-64,787,227	-68,034,385
Contiguous U.S. Total						
Investor-Owned	35,188,173	42,763,409	71,968	11,258,861	122,143	11,452,872
Federal	30,400,780	29,984,708	562,775	-31,293,244	-64,863,469	-95,593,938
State and Other	—	—	—	—	—	—
Government	6,540,911	6,669,989	6,287,281	18,416,789	2,754,003	27,458,073
Municipals	832,114	1,852,671	4,612,618	9,165,209	193,424	13,971,251
Cooperatives	15,065,888	11,895,100	—	1,378,944	—	1,378,944
Other ³	24,086,527	19,726,525	3,189,384	47,724,167	—	50,913,551
Total	112,124,393	112,892,402	14,724,026	56,648,726	-61,793,899	9,578,853

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

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

³ Includes all transactions delivered out of and within the region by 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 System Coordinating Council is not included. See glossary for a list of regions and Figure 2 for a map of the Region. *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, 1992
(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	--	--	--	--	--	--	22,509	412	15,768	38,689
Delivered ²	--	--	--	--	--	--	26,796	695	22,085	49,575
Net	--	--	--	--	--	--	-4,287	-282	-6,317	-10,886
State and Other Government										
Received ¹	--	--	--	--	67	1,094	39	137	4,078	5,415
Delivered ²	1	--	--	--	*	424	46	1,440	1,546	3,457
Net	-1	--	--	--	67	669	-6	-1,304	2,532	1,958
Municipals										
Received ¹	79	1,201	420	--	10	1,200	499	954	6,709	11,072
Delivered ²	94	1,170	41	--	10	493	1,187	934	7,656	11,584
Net	-14	31	379	--	1	706	-688	20	-947	-513
Cooperatives										
Received ¹	464	17,534	--	161	1,917	--	52	422	1,914	22,463
Delivered ²	296	17,835	--	48	2,129	--	39	244	2,023	22,615
Net	167	-301	--	113	-212	--	13	178	-109	-151
Region Total										
Received ¹	543	18,734	420	161	1,994	2,293	23,100	1,924	28,469	77,639
Delivered ²	391	19,005	41	48	2,139	918	28,068	3,313	33,310	87,231
Net	152	-270	379	113	-145	1,376	-4,968	-1,388	-4,841	-9,592

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

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

-- Not Applicable

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

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 and Figure 2 for a map of the 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, 1992**

Wheeling through Investor-Owned Utility Service Territories	NERC Region of Investor-Owned Utility									Contiguous U.S. Total
	ECAR	ERCOT	MAAC	MAIN	MAPP	NPCC	SEHC	SPP	WSCC	
Investor-Owned										
Wheeled Energy										
Rec. (thousand kWh) .	5,396,635	12,704,812	6,862,199	262,107	901,343	23,603,746	2,571,289	1,037,251	10,768,825	64,108,207
Del. (thousand kWh)	5,368,886	12,704,812	6,872,199	261,995	889,571	23,507,267	2,532,642	1,029,076	10,616,455	63,802,903
Revenue										
Demand (dollars)	17,955,819	18,502,117	10,611,172	50,600	2,116,999	65,946,585	4,779,502	2,706,337	13,258,202	135,927,133
Energy (dollars)	7,107,603	72,332	1,433,341	398,316	312,159	12,168,792	1,224,672	2,583,284	10,942,307	36,242,806
Other (dollars)	17,780,203	1,932,429	10,374,046	309,565	326,484	27,938,530	117,203	-871,222	1,908,293	59,815,531
Total (dollars)	42,843,425	20,506,878	22,418,559	758,481	2,755,642	106,053,907	6,121,377	4,418,399	26,108,802	231,985,470
Federal Authorities										
Wheeled Energy										
Rec. (thousand kWh) .	9,532	—	—	—	1,355,654	—	3,974,189	157,315	18,141,924	23,638,614
Del. (thousand kWh)	9,532	—	—	—	1,025,811	—	2,666,659	157,315	17,930,648	21,789,965
Revenue										
Demand (dollars)	308,016	—	—	—	635,088	—	10,072,335	—	39,070,474	50,085,913
Energy (dollars)	65,004	—	—	—	494,100	—	4,341,799	—	7,976,175	12,877,078
Other (dollars)	210	—	—	—	—	—	165,242	—	-2,158,891	-1,983,439
Total (dollars)	373,230	—	—	—	1,129,188	—	14,579,376	—	44,887,758	60,969,552
State and Other Government										
Wheeled Energy										
Rec. (thousand kWh) .	1,135,081	45,702	—	535,857	1,131,891	13,491,242	1,723,488	1,611,047	14,904,493	34,578,801
Del. (thousand kWh)	1,128,527	45,702	—	535,857	1,091,148	13,453,429	1,631,159	1,597,111	14,534,164	34,017,097
Revenue										
Demand (dollars)	1,750,727	52,777	—	1,263,078	1,714,808	22,010,210	3,712,059	4,622,902	33,458,738	68,585,299
Energy (dollars)	135,969	6,290	—	527,953	642,004	206,713,494	2,322,542	2,127,941	9,630,680	222,106,873
Other (dollars)	622,623	533,086	—	-4,440	216,307	12,085,360	11,040,031	1,258,939	-397,682	25,354,224
Total (dollars)	2,509,319	592,153	—	1,786,591	2,573,119	240,809,064	17,074,632	8,009,782	42,691,736	316,046,396
Municipals										
Wheeled Energy										
Rec. (thousand kWh) .	4,136,721	2,843,081	730,546	2,006,426	954,308	5,205,126	3,312,995	2,984,086	6,899,787	29,073,076
Del. (thousand kWh)	4,051,245	2,843,081	730,546	1,982,628	1,227,570	5,174,132	3,122,173	2,983,680	6,800,176	28,906,231
Revenue										
Demand (dollars)	14,036,868	3,338,131	2,121,376	8,040,262	2,235,296	8,365,402	7,967,051	6,426,284	30,733,264	83,263,934
Energy (dollars)	2,688,056	2,317	—	59,108	1,756,544	193,495	3,985,737	2,053,049	1,941,653	12,679,959
Other (dollars)	1,345,137	1,851,995	173,650	333,363	-188,655	1,185,052	-71,481	-3,448	639,668	5,265,281
Total (dollars)	18,070,061	5,192,443	2,295,026	8,432,733	3,803,185	9,743,949	11,881,307	8,475,885	33,314,585	101,209,174
Cooperatives										
Wheeled Energy										
Rec. (thousand kWh) .	12,515,054	2,314,896	1,594,924	1,094,444	4,209,434	366,701	6,745,564	13,687,456	4,590,305	47,118,778
Del. (thousand kWh)	12,391,444	2,314,896	1,506,528	1,053,234	4,069,553	355,136	6,513,077	13,644,403	4,552,080	46,400,351
Revenue										
Demand (dollars)	27,533,600	6,019,287	7,332,752	6,985,776	70,154	1,010,228	14,119,174	35,874,014	9,260,365	108,205,350
Energy (dollars)	1,361,521	48,533	—	—	2,782,471	—	20,619,826	2,249,796	1,876,965	28,939,112
Other (dollars)	4,302,433	170,064	771,557	269,476	142,683	319,001	—	14,047,365	1,215,243	21,237,822
Total (dollars)	33,197,554	6,237,884	8,104,309	7,255,252	2,995,308	1,329,229	34,739,000	52,171,175	12,352,573	158,382,284
Other ¹										
Wheeled Energy										
Rec. (thousand kWh) .	4,800,853	4,647,800	680,067	—	1,407,702	15,199,571	4,553,674	—	517,727	31,807,394
Del. (thousand kWh)	4,852,954	4,647,800	680,067	—	1,051,916	15,194,499	4,382,645	—	1,418,796	32,228,677
Revenue										
Demand (dollars)	7,456,515	7,296,939	760,672	—	1,107,303	7,707,420	14,609,178	—	6,798,348	45,736,375
Energy (dollars)	3,067,538	692,814	—	—	130,735	5,071,271	2,032,349	243,297	1,055,916	12,293,920
Other (dollars)	-1,297	3,983,131	1,683,814	—	509,132	131,599,930	30,229	18,593,563	-41,032	156,257,270
Total (dollars)	10,522,756	11,872,884	2,444,286	—	1,747,170	144,378,621	16,671,756	18,836,860	7,813,232	214,287,565
Region Total										
Wheeled Energy										
Rec. (thousand kWh) .	27,993,876	22,556,291	9,867,736	3,898,834	9,960,332	57,866,386	22,881,199	19,477,155	55,823,061	230,324,870
Del. (thousand kWh)	27,822,588	22,556,291	9,789,340	3,813,714	9,366,569	57,684,463	20,848,355	19,411,585	55,852,319	227,145,224
Revenue										
Demand (dollars)	69,041,345	35,209,251	20,825,972	16,339,716	7,879,648	105,039,845	55,259,299	49,629,537	132,579,391	491,804,004
Energy (dollars)	14,425,691	822,286	1,433,341	985,377	6,118,013	224,147,052	34,526,925	9,257,367	33,423,696	325,139,748
Other (dollars)	24,049,309	8,370,705	13,002,867	907,964	1,005,951	173,127,873	11,281,224	33,025,197	1,165,599	265,936,689
Total (dollars)	107,516,345	44,402,242	35,262,180	18,233,057	15,003,612	502,314,770	101,067,448	91,912,101	167,168,686	1,082,880,441

¹ Includes transactions with 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 System Coordinating Council is not included. See glossary for a list of regions and Figure 2 for a map of the 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, 1992**

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) .	26,181	2,297,973	4,668,458	826,985	339,998	19,411,609	868,981	1,607,884	8,873,962	38,922,031
Del. (thousand kWh)	26,181	2,266,941	4,668,458	815,419	331,557	18,538,513	848,591	1,607,055	8,421,155	37,523,870
Cost										
Demand (dollars)	—	15,402,321	2,937,241	1,708,127	1,952,251	39,499,513	3,984,098	3,291,797	23,589,141	92,364,489
Energy (dollars)	95,866	1,398,920	—	566,187	438,753	8,298,358	19,748	1,162,289	10,123,757	22,103,878
Other (dollars)	21,567,246	8,900,732	5,808,019	309,065	558,023	82,298,500	—	1,779,958	12,069,744	131,291,287
Total (dollars)	21,663,112	23,701,973	8,745,260	2,583,379	2,949,027	130,096,371	4,003,848	6,234,044	45,782,642	245,759,654
Federal Authorities										
Wheeled Energy										
Rec. (thousand kWh) .	—	—	—	—	567,801	—	—	123,775	30,741,509	31,433,085
Del. (thousand kWh)	—	—	—	—	536,256	—	—	123,775	30,469,257	31,129,288
Cost										
Demand (dollars)	—	—	—	—	22,534	—	—	—	40,429,167	40,451,701
Energy (dollars)	—	—	—	—	770,120	—	—	1,398,534	26,223,444	28,392,098
Other (dollars)	—	—	—	—	—	—	—	49,873	23,845,290	23,895,163
Total (dollars)	—	—	—	—	792,654	—	—	1,448,407	90,497,901	92,738,962
State and Other										
Government										
Wheeled Energy										
Rec. (thousand kWh) .	1,267,344	449,428	—	—	602,772	411,320	126,242	—	5,701,785	8,558,891
Del. (thousand kWh)	1,267,344	447,872	—	—	602,772	411,320	126,242	—	5,663,289	8,518,839
Cost										
Demand (dollars)	2,874,917	892,534	—	—	1,346,950	138,958	792,420	—	2,871,339	8,917,118
Energy (dollars)	—	3,077	—	—	88,908	40,022,545	—	—	715,376	40,829,906
Other (dollars)	-19,000	345,074	—	—	—	1,935,000	—	—	1,544,747	3,805,821
Total (dollars)	2,855,917	1,240,685	—	—	1,435,858	42,096,503	792,420	—	5,131,462	53,552,845
Municipals										
Wheeled Energy										
Rec. (thousand kWh) .	—	242,078	—	—	—	57,030	615,711	—	55,604	970,421
Del. (thousand kWh)	—	239,850	—	—	—	56,960	615,711	—	55,604	968,125
Cost										
Demand (dollars)	—	2,235,842	—	—	—	200,726	2,680,560	—	766,516	5,883,644
Energy (dollars)	—	—	—	—	—	—	7,055	—	174,674	181,729
Other (dollars)	31,591	493,770	—	—	—	—	—	203,280	512,367	1,241,008
Total (dollars)	31,591	2,729,612	—	—	—	200,726	2,687,615	203,280	1,453,557	7,306,381
Cooperatives										
Wheeled Energy										
Rec. (thousand kWh) .	508,744	81,679	—	195,937	676,959	179,548	15,228	32,391	191,232	1,881,718
Del. (thousand kWh)	514,821	81,549	—	195,937	671,888	179,548	15,228	30,597	161,123	1,850,491
Cost										
Demand (dollars)	—	-390,147	—	396,000	313,190	725,172	27,274	106,905	1,529,973	2,708,367
Energy (dollars)	329,574	—	—	2,407	55,836	—	—	5,895	17,712	411,424
Other (dollars)	392,394	-85,800	—	18,586	453,192	269,854	—	38,103	509,699	1,596,028
Total (dollars)	721,968	-475,947	—	416,993	822,218	995,026	27,274	150,903	2,057,384	4,715,819
Other¹										
Wheeled Energy										
Rec. (thousand kWh) .	—	5,589	471,644	—	76,657	6,645,828	615,686	41,140	114,136	7,970,680
Del. (thousand kWh)	—	5,515	471,644	—	2	6,061,670	615,686	39,600	-53,969	7,140,148
Cost										
Demand (dollars)	—	-12,864,247	3,233,368	—	—	21,245,298	2,483,871	74,081	-37,440	14,134,931
Energy (dollars)	-48,211,231	625	—	—	—	3,368,358	—	1,001,270	807,457	-43,013,521
Other (dollars)	48,034,752	4,390,869	777,772	—	—	11,752,593	—	24,847,495	4,045,401	93,648,882
Total (dollars)	-176,479	-8,472,753	4,011,140	—	—	36,366,249	2,483,871	25,722,846	4,815,418	64,770,292
Region Total										
Wheeled Energy										
Rec. (thousand kWh) .	1,802,269	3,076,745	5,140,102	1,022,922	2,264,187	26,705,335	2,241,848	1,805,190	45,678,228	89,736,826
Del. (thousand kWh)	1,808,146	3,041,727	5,140,102	1,011,356	2,142,475	25,248,011	2,221,458	1,801,027	44,716,459	87,130,761
Cost										
Demand (dollars)	2,874,917	5,276,303	6,170,609	2,104,127	3,634,925	61,809,667	9,968,223	3,472,783	69,148,696	164,460,250
Energy (dollars)	-47,785,791	1,402,622	—	568,594	1,353,617	51,709,261	26,803	3,567,988	38,062,420	48,905,514
Other (dollars)	70,006,983	12,044,645	6,585,791	327,651	1,011,215	96,255,947	—	26,718,709	42,527,248	255,478,189
Total (dollars)	25,096,109	18,723,570	12,756,400	3,000,372	5,999,757	209,774,875	9,995,026	33,759,480	149,738,364	468,843,953

¹ Includes transactions with 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 and Figure 2 for a map of the 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, 1992

Seller by Ownership Class	NERC Region of Cooperatives				
	ECAR	ERCOT	M ² AC	MAIN	MAPP
Investor-Owned					
Purchases (thousand kWh)	2,313,614	3,476,707	2,874,851	2,212,288	647,649
Cost (dollars)	73,306,032	144,220,606	129,872,371	95,161,781	28,473,688
Federal Authorities					
Purchases (thousand kWh)	2,023,142	394,919	—	42,600	3,398,455
Cost (dollars)	55,724,172	3,622,731	—	842,821	37,272,273
State and Other					
Government					
Purchases (thousand kWh)	—	901,387	392,890	—	2,512,718
Cost (dollars)	—	30,762,764	2,226,724	—	83,583,662
Municipals					
Purchases (thousand kWh)	1,227,942	71,583	—	—	41,085
Cost (dollars)	28,203,054	484,178	—	—	834,404
Cooperatives					
Purchases (thousand kWh)	26,362,510	10,540,714	3,343,612	7,600,281	23,054,374
Cost (dollars)	1,025,158,939	439,394,320	195,170,101	370,172,596	944,481,173
Other¹					
Purchases (thousand kWh)	—	490,281	2,723	150	659,084
Cost (dollars)	50,046	13,926,208	85,922	5,034	9,346,854
Region Total					
Purchases (thousand kWh)	31,927,208	15,875,591	6,814,076	9,855,319	30,313,365
Cost (dollars)	1,182,442,243	632,410,807	327,355,118	466,182,232	1,103,992,054
	NERC Region of Cooperatives				Contiguous U.S. Total
	NPCC	SERC	SPP	WSCC	
Investor-Owned					
Purchases (thousand kWh)	787,838	16,524,089	6,450,925	1,789,137	37,077,096
Cost (dollars)	48,392,145	777,551,823	219,251,493	71,416,933	1,587,646,872
Federal Authorities					
Purchases (thousand kWh)	—	27,445,580	3,783,549	9,800,456	46,888,701
Cost (dollars)	—	1,141,882,636	56,540,535	207,402,438	1,503,287,606
State and Other					
Government					
Purchases (thousand kWh)	218,497	6,342,811	3,827,409	198,228	14,193,940
Cost (dollars)	4,448,883	234,789,832	88,135,928	3,873,894	447,841,687
Municipals					
Purchases (thousand kWh)	3,373	147,712	1,252,322	18	2,744,035
Cost (dollars)	481,625	10,592,745	28,138,536	1,234	68,695,776
Cooperatives					
Purchases (thousand kWh)	108,198	56,306,701	35,530,980	12,811,982	175,859,372
Cost (dollars)	13,835,423	2,747,854,910	1,553,728,367	577,490,052	7,867,285,881
Other¹					
Purchases (thousand kWh)	100,193	527,250	313,503	2,440,934	4,534,118
Cost (dollars)	6,360,941	15,818,148	11,208,575	89,328,714	146,130,442
Region Total					
Purchases (thousand kWh)	1,218,097	107,294,143	50,958,698	27,040,765	281,097,262
Cost (dollars)	73,499,017	4,928,490,094	1,957,003,434	949,513,265	11,620,868,264

¹ Includes transactions with 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 System Coordinating Council is not included. See glossary for a list of regions and Figure 2 for a map of the regions. •Totals may not equal sum of components because of independent rounding.

Source: Rural Electrification Administration, REA Form 7, "Financial And Statistical Report," REA 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, 1992

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	45,787,871	1,583,879,664	—	—
Nonfirm Purchases	38,886,956	948,228,071	—	—
Miscellaneous Purchases ¹	9,401,923	258,843,192	—	—
Exchanges Received ²	2,133,109	21,445,351	—	—
Wheeling By Others ³	1,802,269	21,047,667	—	—
ERCOT				
Firm Purchases	—	—	19,896,912	915,212,823
Nonfirm Purchases	—	—	4,385,493	78,166,295
Miscellaneous Purchases ¹	—	—	108,006	945,987
Exchanges Received ²	—	—	27,559,666	2,200
Wheeling By Others ³	—	—	3,076,745	18,723,570
MAAC				
Firm Purchases	5,446,452	120,603,798	—	—
Nonfirm Purchases	8,405,041	258,178,010	—	—
Miscellaneous Purchases ¹	—	51,454	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	30,775	395,581	—	—
MAIN				
Firm Purchases	442,826	7,536,904	—	—
Nonfirm Purchases	1,299,450	23,475,567	—	—
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	1,271	-10,292	—	—
Wheeling By Others ³	—	—	—	—
MAPP				
Firm Purchases	—	—	—	—
Nonfirm Purchases	—	—	—	—
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	—
NPCC				
Firm Purchases	—	—	—	—
Nonfirm Purchases	—	—	—	—
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	—
SERC				
Firm Purchases	6,757,105	265,186,032	—	—
Nonfirm Purchases	315,643	7,702,332	—	—
Miscellaneous Purchases ¹	—	-33,078	—	—
Exchanges Received ²	21,385	—	—	—
Wheeling By Others ³	—	—	—	—
SPP				
Firm Purchases	—	—	—	—
Nonfirm Purchases	43,725	826,763	—	—
Miscellaneous Purchases ¹	—	—	2,275	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	1,466,368
WSCC				
Firm Purchases	—	—	41,069	3,077,166
Nonfirm Purchases	—	—	—	—
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	—
Region Total				
Firm Purchases Deliveries	58,434,254	1,957,208,398	19,937,981	918,289,989
Nonfirm Purchases Deliveries	48,950,815	1,238,410,743	4,385,493	78,166,295
Misc Purchases Deliveries ¹	9,401,923	258,861,568	110,281	945,987
Exchanges Received Deliveries ²	2,155,785	21,435,059	27,559,666	2,200
Wheeling By Others Deliveries ³	1,833,044	21,443,248	3,076,745	20,191,936

See notes and footnotes at end of table.

Table 15. Receipts by Investor-Owned Utilities Within and Between NERC Regions, 1992
(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	308,402	17,197,398	152,997	5,077,408
Nonfirm Purchases	113,969	484,924	391,906	5,086,629
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	1,726	4,200
Wheeling By Others ³	—	4,048,442	—	—
ERCOT				
Firm Purchases	—	—	—	—
Nonfirm Purchases	—	—	—	—
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	—
MAAC				
Firm Purchases	22,142,067	890,809,454	—	—
Nonfirm Purchases	30,046,080	1,196,086,922	—	—
Miscellaneous Purchases ¹	2,952,228	68,133,031	—	—
Exchanges Received ²	1,147,276	34,628,119	—	—
Wheeling By Others ³	5,109,327	12,360,819	—	—
MAIN				
Firm Purchases	—	—	5,371,509	190,367,143
Nonfirm Purchases	—	—	7,513,414	123,495,033
Miscellaneous Purchases ¹	—	—	8,826	171,002
Exchanges Received ²	—	—	50,151	508,286
Wheeling By Others ³	—	—	282,107	767,803
MAPP				
Firm Purchases	—	—	385,103	6,260,425
Nonfirm Purchases	—	—	600,048	11,536,081
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	839,294	—
Wheeling By Others ³	—	—	21,025	54,342
NPCC				
Firm Purchases	1,354,126	33,797,242	—	—
Nonfirm Purchases	2,395,613	127,211,499	—	—
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	115,380	263,080	—	—
SERC				
Firm Purchases	7,503	339,210	422,194	15,765,340
Nonfirm Purchases	12,322	235,355	6,301	114,457
Miscellaneous Purchases ¹	25,685	—	—	—
Exchanges Received ²	156,484	—	—	—
Wheeling By Others ³	—	—	—	—
SPP				
Firm Purchases	—	—	125,350	7,422,088
Nonfirm Purchases	56,619	1,103,093	287,626	5,127,730
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	19,761
WSCC				
Firm Purchases	—	—	—	—
Nonfirm Purchases	—	—	—	—
Miscellaneous Purchases ¹	—	—	—	—
Exchanges Received ²	—	—	—	—
Wheeling By Others ³	—	—	—	—
Region Total				
Firm Purchases Deliveries	23,812,098	942,143,304	6,457,153	224,882,402
Nonfirm Purchases Deliveries	32,624,603	1,325,121,793	8,799,495	145,359,930
Misc Purchases Deliveries ¹	2,977,913	68,133,031	8,826	171,002
Exchanges Received Deliveries ²	1,303,760	34,628,119	891,171	512,486
Wheeling By Others Deliveries ³	5,224,707	16,672,341	283,132	841,906

See notes and footnotes at end of table.

Table 15. Receipts by Investor-Owned Utilities Within and Between NERC Regions, 1992
(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	--	--	--	--
Nonfirm Purchases	--	--	93,157	1,951,716
Miscellaneous Purchases ¹	--	--	--	--
Exchanges Received ²	--	--	--	--
Wheeling By Others ³	--	--	--	--
ERCOT				
Firm Purchases	--	--	--	--
Nonfirm Purchases	--	--	--	--
Miscellaneous Purchases ¹	--	--	--	--
Exchanges Received ²	--	--	--	--
Wheeling By Others ³	--	--	--	--
MAAC				
Firm Purchases	--	--	164,817	5,990,166
Nonfirm Purchases	--	--	137,964	2,486,360
Miscellaneous Purchases ¹	--	--	--	528,988
Exchanges Received ²	--	--	--	--
Wheeling By Others ³	--	--	--	--
MAIN				
Firm Purchases	3,553,232	59,869,255	--	--
Nonfirm Purchases	4,520,617	72,063,898	--	--
Miscellaneous Purchases ¹	--	--	--	--
Exchanges Received ²	--	--	--	--
Wheeling By Others ³	431,933	1,651,203	--	--
MAPP				
Firm Purchases	11,557,240	284,080,218	--	--
Nonfirm Purchases	11,405,943	191,101,845	--	100,000
Miscellaneous Purchases ¹	7,677	4,530,478	--	--
Exchanges Received ²	24,683,219	--	2,617	--
Wheeling By Others ³	1,561,685	5,049,958	--	--
NPCC				
Firm Purchases	--	--	73,570,701	3,789,926,811
Nonfirm Purchases	--	--	64,396,908	2,894,714,822
Miscellaneous Purchases ¹	--	--	49,330	-18,317,571
Exchanges Received ²	--	--	795,741	17,912,809
Wheeling By Others ³	--	--	26,589,955	209,511,795
SERC				
Firm Purchases	--	--	--	--
Nonfirm Purchases	2,176	43,225	--	--
Miscellaneous Purchases ¹	--	--	--	--
Exchanges Received ²	--	--	--	--
Wheeling By Others ³	--	--	--	--
SPP				
Firm Purchases	208,550	3,925,028	--	--
Nonfirm Purchases	1,151,779	16,580,524	--	--
Miscellaneous Purchases ¹	--	--	--	--
Exchanges Received ²	--	--	--	--
Wheeling By Others ³	--	--	--	--
WSCC				
Firm Purchases	--	--	170,459	13,119,013
Nonfirm Purchases	--	--	--	--
Miscellaneous Purchases ¹	--	--	--	--
Exchanges Received ²	--	--	--	--
Wheeling By Others ³	--	--	--	--
Region Total				
Firm Purchases Deliveries	15,319,022	347,874,501	73,905,977	3,789,035,990
Nonfirm Purchases Deliveries	17,080,515	279,789,292	64,628,029	2,899,252,898
Misc Purchases Deliveries ¹	7,677	4,530,478	49,330	-17,788,583
Exchanges Received Deliveries ²	24,683,219	--	796,358	17,912,809
Wheeling By Others Deliveries ³	1,993,618	6,701,161	26,589,955	209,511,795

See notes and footnotes at end of table.

Table 15. Receipts by Investor-Owned Utilities Within and Between NERC Regions, 1992
(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	491,440	8,344,700	--	--
Nonfirm Purchases	45,260	1,181,859	--	--
Miscellaneous Purchases ¹	--	--	--	--
Exchanges Received ²	401,498	-2,455	--	--
Wheeling By Others ³	--	--	--	--
ERCOT				
Firm Purchases	--	--	2,818,657	163,867,179
Nonfirm Purchases	--	--	739,123	13,579,392
Miscellaneous Purchases ¹	--	--	--	83,692
Exchanges Received ²	--	--	17,100	--
Wheeling By Others ³	--	--	--	--
MAAC				
Firm Purchases	491,151	11,192,683	--	--
Nonfirm Purchases	387,079	22,897,670	--	--
Miscellaneous Purchases ¹	--	-47,102	--	--
Exchanges Received ²	--	--	--	--
Wheeling By Others ³	--	--	--	--
MAIN				
Firm Purchases	460,839	8,772,867	1,421,623	32,731,454
Nonfirm Purchases	3,465,286	56,984,595	181,598	3,240,972
Miscellaneous Purchases ¹	--	--	--	--
Exchanges Received ²	--	--	--	--
Wheeling By Others ³	--	--	328,882	581,366
MAPP				
Firm Purchases	--	--	--	--
Nonfirm Purchases	--	--	271,577	4,957,803
Miscellaneous Purchases ¹	--	--	--	--
Exchanges Received ²	--	--	180,515	--
Wheeling By Others ³	--	--	113,166	101,324
NPCC				
Firm Purchases	218	2,551,189	--	--
Nonfirm Purchases	--	--	--	--
Miscellaneous Purchases ¹	--	--	--	--
Exchanges Received ²	--	--	--	--
Wheeling By Others ³	--	--	--	--
SERC				
Firm Purchases	50,483,990	2,474,831,280	--	--
Nonfirm Purchases	28,082,186	961,096,302	561,238	10,689,334
Miscellaneous Purchases ¹	45,320	3,599,153	--	--
Exchanges Received ²	2,536,648	2,330,556	--	--
Wheeling By Others ³	2,241,848	9,995,026	--	--
SPP				
Firm Purchases	2,426,802	277,305,560	1,180,151	31,778,883
Nonfirm Purchases	2,394,273	226,345,905	40,182,378	1,163,234,066
Miscellaneous Purchases ¹	--	11,614,794	1,041,465	10,278,294
Exchanges Received ²	--	--	3,011,169	793,597
Wheeling By Others ³	123,775	1,398,534	1,554,850	30,797,677
WSCC				
Firm Purchases	40,439	2,848,582	385,031	25,296,893
Nonfirm Purchases	--	--	1,244,041	25,557,691
Miscellaneous Purchases ¹	--	--	--	--
Exchanges Received ²	--	--	1,306	--
Wheeling By Others ³	--	--	565	244,993
Region Total				
Firm Purchases Deliveries	54,384,979	2,785,846,861	5,805,462	253,674,409
Nonfirm Purchases Deliveries	34,374,084	1,268,506,331	43,179,955	1,221,259,258
Misc Purchases Deliveries ¹	45,320	15,166,845	1,041,465	10,361,986
Exchanges Received Deliveries ²	2,938,146	2,328,101	3,210,090	793,597
Wheeling By Others Deliveries ³	2,365,623	11,393,560	1,997,463	31,725,360

See notes and footnotes at end of table.

Table 15. Receipts by Investor-Owned Utilities Within and Between NERC Regions, 1992
(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	--	--	46,740,710	1,594,499,168
Nonfirm Purchases	--	--	39,531,248	956,932,199
Miscellaneous Purchases ¹	--	--	9,401,923	258,843,192
Exchanges Received ²	--	--	2,536,333	21,447,096
Wheeling By Others ³	--	--	1,802,269	25,096,109
ERCOT				
Firm Purchases	--	--	22,715,589	1,079,080,002
Nonfirm Purchases	16,170	299,823	5,140,786	92,045,510
Miscellaneous Purchases ¹	--	--	108,006	1,029,679
Exchanges Received ²	--	--	27,576,766	2,200
Wheeling By Others ³	--	--	3,076,745	18,723,570
MAAC				
Firm Purchases	--	--	28,244,487	1,028,596,101
Nonfirm Purchases	18,265	1,559,668	38,994,429	1,481,208,830
Miscellaneous Purchases ¹	--	--	2,952,228	68,666,371
Exchanges Received ²	--	--	1,147,276	34,628,119
Wheeling By Others ³	--	--	5,140,102	12,756,400
MAIN				
Firm Purchases	296,475	5,820,637	11,546,604	305,098,260
Nonfirm Purchases	21,713	365,221	17,002,078	279,625,286
Miscellaneous Purchases ¹	--	--	8,826	171,002
Exchanges Received ²	--	--	51,422	497,994
Wheeling By Others ³	--	--	1,022,922	3,000,372
MAPP				
Firm Purchases	1,709,267	35,279,809	13,651,610	325,610,452
Nonfirm Purchases	423,912	6,487,769	12,701,480	214,183,298
Miscellaneous Purchases ¹	11,964	98,068	19,641	4,628,546
Exchanges Received ²	2,688,358	--	28,394,003	--
Wheeling By Others ³	568,311	794,133	2,264,187	5,999,757
NPCC				
Firm Purchases	--	--	74,925,045	3,806,275,242
Nonfirm Purchases	141,236	9,509,419	66,933,757	3,031,435,740
Miscellaneous Purchases ¹	--	--	49,330	-18,317,571
Exchanges Received ²	--	--	795,741	17,912,809
Wheeling By Others ³	--	--	26,705,335	209,774,875
SERC				
Firm Purchases	--	--	57,670,792	2,756,121,862
Nonfirm Purchases	39,314	1,441,717	29,019,180	981,322,722
Miscellaneous Purchases ¹	--	--	71,005	3,566,075
Exchanges Received ²	--	--	2,714,517	2,330,556
Wheeling By Others ³	--	--	2,241,848	9,995,026
SPP				
Firm Purchases	--	--	3,940,853	320,431,559
Nonfirm Purchases	20,983	433,736	44,137,583	1,413,651,817
Miscellaneous Purchases ¹	--	--	1,043,740	21,893,088
Exchanges Received ²	2,876	867	3,014,045	794,484
Wheeling By Others ³	126,565	75,140	1,805,190	33,759,480
WSCC				
Firm Purchases	82,399,646	5,091,878,193	83,036,644	5,136,219,847
Nonfirm Purchases	44,961,895	1,023,251,616	46,205,936	1,048,809,307
Miscellaneous Purchases ¹	2,805,217	-66,411,955	2,805,217	-66,411,955
Exchanges Received ²	45,892,984	-68,034,383	45,894,290	-68,034,383
Wheeling By Others ³	45,677,663	149,493,371	45,678,228	149,738,364
Region Total				
Firm Purchases Deliveries	84,405,388	5,132,978,639	342,472,314	16,351,932,493
Nonfirm Purchases Deliveries	45,643,488	1,043,348,969	299,666,477	9,499,215,509
Misc Purchases Deliveries ¹	2,817,181	-66,313,887	16,459,916	274,088,427
Exchanges Received Deliveries ²	48,584,218	-68,033,516	112,124,393	9,578,855
Wheeling By Others Deliveries ³	46,372,539	150,362,644	89,736,826	468,843,953

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 System Coordinating Council is not included. See glossary for a list of regions and Figure 2 for a map of the 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, 1992

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	59,813,850	1,513,809,338	--	--
Nonfirm Sales	44,734,528	1,208,804,446	--	--
Miscellaneous Sales ¹	435	108,118,393	--	--
Exchanges Delivered ²	2,097,490	--	--	--
Wheeling For Others ³	23,574,317	75,783,803	--	--
ERCOT				
Firm Sales	--	--	6,472,014	326,344,779
Nonfirm Sales	--	--	1,392,331	29,862,805
Miscellaneous Sales ¹	--	--	--	633,776
Exchanges Delivered ²	--	--	27,572,269	--
Wheeling For Others ³	--	--	22,556,291	44,251,395
MAAC				
Firm Sales	6,479	320,716	--	--
Nonfirm Sales	3,786	1,367,539	--	--
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	--	--
Wheeling For Others ³	1,770,230	6,878,284	--	--
MAIN				
Firm Sales	333,975	11,198,934	--	--
Nonfirm Sales	298,773	2,995,831	--	--
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	1,726	--	--	--
Wheeling For Others ³	--	--	--	--
MAPP				
Firm Sales	--	--	--	--
Nonfirm Sales	--	--	--	--
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	--	--
Wheeling For Others ³	--	--	--	--
NPCC				
Firm Sales	--	--	--	--
Nonfirm Sales	4,000	110,400	--	--
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	--	--
Wheeling For Others ³	--	--	--	--
SERC				
Firm Sales	17,841	716,633	--	--
Nonfirm Sales	10,768	292,433	--	--
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	21,433	--	--	--
Wheeling For Others ³	--	--	--	--
SPP				
Firm Sales	--	--	818,444	28,986,982
Nonfirm Sales	--	--	--	--
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	--	--
Wheeling For Others ³	147,770	329,425	33,527	63,021
WSCC				
Firm Sales	--	--	--	--
Nonfirm Sales	--	--	31,557	1,514,732
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	--	--
Wheeling For Others ³	--	--	--	--
Region Total				
Firm Sales Receipts	60,171,945	1,526,045,621	7,290,458	355,331,761
Nonfirm Sales Receipts	45,051,855	1,213,570,649	1,423,888	31,377,537
Miscellaneous Sales Receipts ¹	435	108,118,393	--	633,776
Exchanges Delivered Receipts ²	2,120,649	--	27,572,269	--
Wheeling For Others Receipts ³	25,492,317	82,971,512	22,589,818	44,314,416

See notes and footnotes at end of table.

Table 16. Deliveries by Investor-Owned Utilities Within and Between NERC Regions, 1992
(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	14,641,752	388,436,947	1,064,759	19,412,360
Nonfirm Sales	919,667	18,790,732	786,319	14,730,134
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	1,271	--
Wheeling For Others ³	15,762	13,653,942	--	--
ERCOT				
Firm Sales	--	--	--	--
Nonfirm Sales	--	--	--	--
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	--	--
Wheeling For Others ³	--	--	--	--
MAAC				
Firm Sales	13,296,004	506,828,558	--	--
Nonfirm Sales	25,799,027	830,300,215	--	--
Miscellaneous Sales ¹	3,534,464	80,368,114	--	--
Exchanges Delivered ²	--	--	--	--
Wheeling For Others ³	7,550,367	27,200,961	--	--
MAIN				
Firm Sales	--	--	14,348,128	523,776,201
Nonfirm Sales	--	--	7,665,850	135,294,462
Miscellaneous Sales ¹	--	--	2,942	19,202
Exchanges Delivered ²	--	--	25,874	--
Wheeling For Others ³	--	--	3,643,335	17,688,257
MAPP				
Firm Sales	--	--	4,876,838	86,319,934
Nonfirm Sales	--	--	3,461,267	45,371,645
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	4,403,708	--
Wheeling For Others ³	--	--	372,788	2,712,356
NPCC				
Firm Sales	1,328,665	68,263,266	--	--
Nonfirm Sales	20,396	1,475,101	--	--
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	--	--
Wheeling For Others ³	57,782	813,723	--	--
SERC				
Firm Sales	534,906	12,105,771	--	--
Nonfirm Sales	14,724	260,170	--	--
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	156,348	--	--	--
Wheeling For Others ³	8,406	32,029	--	--
SPP				
Firm Sales	--	--	682,252	23,644,232
Nonfirm Sales	--	--	775,030	10,494,474
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	--	--
Wheeling For Others ³	--	--	155,890	586,817
WSCC				
Firm Sales	--	--	--	--
Nonfirm Sales	--	--	--	--
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	--	--
Wheeling For Others ³	--	--	--	--
Region Total				
Firm Sales Receipts	29,801,327	975,634,542	20,971,977	653,152,727
Nonfirm Sales Receipts	26,753,814	850,826,218	12,686,466	205,890,715
Miscellaneous Sales Receipts ¹	3,534,464	80,368,114	2,942	19,202
Exchanges Delivered Receipts ²	156,348	--	4,430,853	--
Wheeling For Others Receipts ³	7,632,297	41,700,655	4,172,013	20,987,430

See notes and footnotes at end of table.

Table 16. Deliveries by Investor-Owned Utilities Within and Between NERC Regions, 1992
(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	--	--	297,109	6,804,917
Nonfirm Sales	--	--	110,096	2,707,485
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	--	--
Wheeling For Others ³	--	--	105,375	390,055
ERCOT				
Firm Sales	--	--	--	--
Nonfirm Sales	--	--	--	--
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	--	--
Wheeling For Others ³	--	--	--	--
MAAC				
Firm Sales	--	--	667,973	15,905,485
Nonfirm Sales	--	--	2,607,945	59,198,958
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	--	--
Wheeling For Others ³	--	--	468,743	1,182,325
MAIN				
Firm Sales	524,064	18,725,639	--	--
Nonfirm Sales	408,239	8,196,266	--	--
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	--	--
Wheeling For Others ³	--	--	--	--
MAPP				
Firm Sales	4,108,644	144,151,321	--	--
Nonfirm Sales	3,593,804	51,134,616	44,710	623,263
Miscellaneous Sales ¹	-954	-78,461	--	--
Exchanges Delivered ²	23,152,901	--	16,693	--
Wheeling For Others ³	7,521,116	11,032,968	--	--
NPCC				
Firm Sales	--	--	52,487,135	2,920,434,488
Nonfirm Sales	--	--	37,939,174	1,313,185,745
Miscellaneous Sales ¹	--	--	3,738,040	193,791,239
Exchanges Delivered ²	--	--	448,340	--
Wheeling For Others ³	153,536	210,791	57,473,165	501,290,256
SERC				
Firm Sales	--	--	--	--
Nonfirm Sales	--	--	--	--
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	--	--
Wheeling For Others ³	--	--	--	--
SPP				
Firm Sales	--	--	--	--
Nonfirm Sales	377,520	6,580,154	--	--
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	--	--
Wheeling For Others ³	--	256,844	--	--
WSCC				
Firm Sales	275,156	9,223,941	--	--
Nonfirm Sales	565	9,864	--	--
Miscellaneous Sales ¹	--	--	--	--
Exchanges Delivered ²	--	--	--	--
Wheeling For Others ³	7,507	1,027,987	8,423	50,233
Region Total				
Firm Sales Receipts	4,907,864	172,100,901	53,452,217	2,943,144,890
Nonfirm Sales Receipts	4,380,128	65,900,920	40,701,925	1,375,715,451
Miscellaneous Sales Receipts ¹	-954	-78,461	3,738,040	193,791,239
Exchanges Delivered Receipts ²	23,152,901	--	485,033	--
Wheeling For Others Receipts ³	7,682,159	12,528,590	58,055,706	502,913,479

See notes and footnotes at end of table.

Table 16. Deliveries by Investor-Owned Utilities Within and Between NERC Regions, 1992
(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	2,901,547	103,378,596	—	—
Nonfirm Sales	6,700,275	179,526,823	—	—
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	397,738	—	—	—
Wheeling For Others ³	4,127,134	17,708,545	—	—
ERCOT				
Firm Sales	—	—	126,771	5,524,267
Nonfirm Sales	—	—	—	—
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	—	—	—	150,847
MAAC				
Firm Sales	7,577	339,689	—	—
Nonfirm Sales	—	—	—	—
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	—	—	—	—
MAIN				
Firm Sales	—	—	1,169,322	24,598,678
Nonfirm Sales	239,786	3,423,096	1,557,191	44,802,591
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	—	—	170,379	544,800
MAPP				
Firm Sales	—	—	842,485	16,687,922
Nonfirm Sales	—	—	1,148,297	14,250,465
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	115,370	—
Wheeling For Others ³	—	—	5,367	16,784
NPCC				
Firm Sales	—	—	—	—
Nonfirm Sales	—	—	—	—
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	—	—	—	—
SERC				
Firm Sales	42,407,748	1,790,617,034	—	—
Nonfirm Sales	38,921,993	1,335,481,384	7,391,977	724,536,473
Miscellaneous Sales ¹	-28,904	2,147,732	—	—
Exchanges Delivered ²	2,182,146	—	—	—
Wheeling For Others ³	17,090,229	86,308,908	104,459	520,110
SPP				
Firm Sales	64,825	5,701,894	14,826,321	484,445,033
Nonfirm Sales	97,450	3,390,431	25,254,336	541,033,545
Miscellaneous Sales ¹	—	—	210,061	4,064,438
Exchanges Delivered ²	—	—	2,976,938	—
Wheeling For Others ³	2,254,268	6,942,110	16,819,565	83,732,189
WSCC				
Firm Sales	—	—	—	—
Nonfirm Sales	—	—	24,123	485,362
Miscellaneous Sales ¹	—	—	—	—
Exchanges Delivered ²	—	—	1,144	—
Wheeling For Others ³	—	—	166,415	757,981
Region Total				
Firm Sales Receipts	45,381,697	1,900,036,213	16,964,879	511,255,900
Nonfirm Sales Receipts	45,959,504	1,521,821,734	35,375,924	1,325,108,436
Miscellaneous Sales Receipts ¹	-28,904	2,147,732	210,061	4,064,438
Exchanges Delivered Receipts ²	2,579,884	—	3,093,452	—
Wheeling For Others Receipts ³	23,471,631	110,959,563	17,266,185	85,722,711

See notes and footnotes at end of table.

Table 16. Deliveries by Investor-Owned Utilities Within and Between NERC Regions, 1992
(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	—	—	78,718,817	2,031,843,158
Nonfirm Sales	—	—	53,250,885	1,424,559,620
Miscellaneous Sales ¹	—	—	435	108,118,393
Exchanges Delivered ²	—	—	2,498,499	—
Wheeling For Others ³	—	—	27,822,588	107,516,345
ERCOT				
Firm Sales	—	—	6,598,785	331,869,048
Nonfirm Sales	—	—	1,392,331	29,862,805
Miscellaneous Sales ¹	—	—	—	633,776
Exchanges Delivered ²	—	—	27,572,269	—
Wheeling For Others ³	—	—	22,556,291	44,402,242
MAAC				
Firm Sales	—	—	13,978,033	523,394,448
Nonfirm Sales	—	—	28,410,758	890,866,712
Miscellaneous Sales ¹	—	—	3,534,484	80,368,114
Exchanges Delivered ²	—	—	—	—
Wheeling For Others ³	—	—	9,789,340	35,262,180
MAIN				
Firm Sales	—	—	16,375,489	578,299,452
Nonfirm Sales	—	—	10,169,839	194,712,266
Miscellaneous Sales ¹	—	—	2,942	19,202
Exchanges Delivered ²	—	—	27,600	—
Wheeling For Others ³	—	—	3,813,714	18,233,057
MAPP				
Firm Sales	—	—	9,827,947	247,159,177
Nonfirm Sales	480,215	6,785,900	8,728,293	118,165,889
Miscellaneous Sales ¹	—	—	-954	-78,461
Exchanges Delivered ²	1,223,792	—	28,912,464	—
Wheeling For Others ³	1,467,298	1,241,504	9,368,589	15,003,612
NPCC				
Firm Sales	—	—	53,815,800	2,988,897,754
Nonfirm Sales	—	—	37,983,570	1,314,771,246
Miscellaneous Sales ¹	—	—	3,738,040	193,791,239
Exchanges Delivered ²	—	—	448,340	—
Wheeling For Others ³	—	—	57,684,463	502,314,770
SERC				
Firm Sales	—	—	42,960,495	1,803,439,438
Nonfirm Sales	—	—	46,339,462	2,060,570,460
Miscellaneous Sales ¹	—	—	-28,904	2,147,732
Exchanges Delivered ²	—	—	2,359,927	—
Wheeling For Others ³	3,645,261	14,206,401	20,848,355	101,067,448
SPP				
Firm Sales	747,500	44,113,788	17,139,342	568,891,929
Nonfirm Sales	1,439,667	24,364,622	27,944,003	585,843,226
Miscellaneous Sales ¹	—	—	210,061	4,064,438
Exchanges Delivered ²	2,760	—	2,979,698	—
Wheeling For Others ³	565	1,695	19,411,585	91,912,101
WSCC				
Firm Sales	29,686,534	1,324,986,683	29,961,690	1,334,210,624
Nonfirm Sales	23,153,782	565,050,130	23,210,007	567,060,088
Miscellaneous Sales ¹	128,823	793,834	128,823	793,834
Exchanges Delivered ²	48,094,461	—	48,095,605	—
Wheeling For Others ³	55,669,974	165,332,485	55,852,319	167,168,686
Region Total				
Firm Sales Receipts	30,434,034	1,369,100,471	269,376,398	10,405,805,026
Nonfirm Sales Receipts	25,073,644	596,200,652	237,409,148	7,186,412,312
Miscellaneous Sales Receipts ¹	128,823	793,834	7,584,907	389,858,067
Exchanges Delivered Receipts ²	49,321,013	—	112,892,402	—
Wheeling For Others Receipts ³	60,783,098	180,782,065	227,145,224	1,082,880,441

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 System Coordinating Council is not included. See glossary for a list of regions and Figure 2 for a map of the 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, 1992

Type of Transaction	Alaska		Hawaii	
	Energy (thousand kWh)	Cost (dollars)	Energy (thousand kWh)	Cost (dollars)
Received				
Firm Purchases	--	--	100,075	7,850,875
Nonfirm Purchases	222,185	6,928,262	2,123,912	154,859,851
Miscellaneous Purchases ¹	--	--	--	--
Exchanges Received ²	--	--	3,845	--
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	--	--	3,054	14,876
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, 1992

Province, Country/ Type of Transaction	U.S. NERC Region					Region Total
	NPCC	ECAR	ERCOT	MAPP	WSCC	
New Brunswick, Canada						
Imports From (thousand kWh)	2,309,369	--	--	--	--	2,309,369
Cost (dollars)	70,825,376	--	--	--	--	70,825,376
Exports To (thousand kWh)	384,870	--	--	--	--	384,870
Revenue (dollars)	821,782	--	--	--	--	821,782
Quebec, Canada						
Imports From (thousand kWh)	8,858,419	--	--	--	--	8,858,419
Cost (dollars)	198,782,613	--	--	--	--	198,782,613
Exports To (thousand kWh)	1,360,573	--	--	--	--	1,360,573
Revenue (dollars)	41,672,619	--	--	--	--	41,672,619
Ontario, Canada						
Imports From (thousand kWh)	3,531,850	82,151	--	96	--	3,614,097
Cost (dollars)	74,225,351	1,291,476	--	2,597	--	75,519,424
Exports To (thousand kWh)	900,288	314,118	--	3,345	--	1,217,751
Revenue (dollars)	22,968,056	7,944,584	--	87,822	--	31,000,462
Manitoba, Canada						
Imports From (thousand kWh)	--	--	--	8,471,271	--	8,471,271
Cost (dollars)	--	--	--	83,400,811	--	83,400,811
Exports To (thousand kWh)	--	--	--	1,600,807	--	1,600,807
Revenue (dollars)	--	--	--	793,981	--	793,981
Saskatchewan, Canada						
Imports From (thousand kWh)	--	--	--	102,285	--	102,285
Cost (dollars)	--	--	--	1,357,172	--	1,357,172
Exports To (thousand kWh)	--	--	--	47,800	--	47,800
Revenue (dollars)	--	--	--	1,391,214	--	1,391,214
Alberta, Canada						
Imports From (thousand kWh)	--	--	--	--	--	--
Cost (dollars)	--	--	--	--	--	--
Exports To (thousand kWh)	--	--	--	--	100	100
Revenue (dollars)	--	--	--	--	5,838	5,838
British Columbia, Canada						
Imports From (thousand kWh)	--	--	--	--	11,826,316	11,826,316
Cost (dollars)	--	--	--	--	158,452,544	158,452,544
Exports To (thousand kWh)	--	--	--	--	3,254,289	3,254,289
Revenue (dollars)	--	--	--	--	129,153	129,153
Canada						
Imports From (thousand kWh)	14,699,638	82,151	--	8,573,652	11,826,316	35,181,757
Cost (dollars)	341,833,340	1,291,476	--	84,760,580	158,452,544	584,337,950
Exports From (thousand kWh)	2,645,731	314,118	--	1,651,752	3,254,389	7,865,990
Revenue (dollars)	65,462,457	7,944,584	--	2,273,017	134,991	75,815,049
Mexico						
Imports From (thousand kWh)	--	--	--	--	2,022,419	2,022,419
Cost (dollars)	--	--	--	--	84,515,228	84,515,228
Exports To (thousand kWh)	--	--	169,142	--	820,745	989,887
Revenue (dollars)	--	--	5,383,922	--	34,777,252	40,161,174
Contiguous U.S. Total						
Imports To (thousand kWh)	14,699,638	82,151	--	8,573,652	13,848,735	37,204,176
Cost (dollars)	341,833,340	1,291,476	--	84,760,580	240,967,772	668,853,178
Exports From (thousand kWh)	2,645,731	314,118	169,142	1,651,752	4,075,134	8,855,877
Revenue (dollars)	65,462,457	7,944,584	5,383,922	2,273,017	34,912,243	115,976,223

-- 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-kilowatthour calculation. *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 and Figure 2 for a map of the regions. *Totals may not equal sum of components because of independent rounding.

Source: 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.⁵

Electrical System

In 1992, electric trade transactions were affected by a variety of local and regional industry related problems. The North American Electric Reliability Council (NERC) in its summer and winter assessments described the overall system reliability of the bulk electric supply.⁶ These three reviews look at all the projected electrical operations for 1992. Some of the events described influenced trade and will help in the interpretation of regional trade.

NERC indicated that generating capacity was adequate for all areas of the United States (excluding the State of Hawaii which is not covered by NERC). Some re-

gions were still suffering from the lingering drought, and transmission loading issues were affecting several regions.

For ECAR, portions of the transmission system were projected to carry heavy loading because of scheduled electricity transfers. Facility upgrades were made to improve overall system voltage and reliability during heavy west-to-east transfers for the ECAR, MAAC and the northern portion of SERC. However, the transfers would be lower than in the prior year because of the affects of changes in generation dispatch and higher base transfer among ECAR, MAAC and SERC. For MAIN, the region depended more on operating procedures than before. These procedures were implemented in order to achieve and protect the established transfer capability for utilities operating in that region.

MAPP was projected to operate its hydroelectric energy production at about 30 percent below normal. For WSCC, both the Northwest Power Pool (NWPP) and the Rocky Mountain Power Area (RMPA) were faced with deteriorated hydro capability. The NWPP anticipated reduced nonfirm energy sales outside the region and below-normal filling of Columbia River system reservoirs. The RMPA expected to offset its lost hydro generation by purchases of other generation sources and increased inter-area transfers. The California-Southern Nevada Power Area was also looking at the sixth consecutive year of below normal precipitation.

Going into the winter of 1992, SERC was affected by two significant decreased regional transmission transfer capability changes. A transmission line in SPP was derated, reducing the SPP-to-SERC transfer capability by 2,750 megawatts. The other was a drop of 600 megawatts capability between the Tennessee Valley Authority and the Southern area because of several reasons: increased electricity flow across that interconnection caused by demand growth in northern Georgia, new generation schedules, and wheeling transactions. NERC also noted that for the 1992/1993 winter, generating utilities heavily dependent on natural gas in

⁵This 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.

⁶North American Electric Reliability Council, *1992 Summer Assessment* (Princeton, New Jersey, May 1992), pp. 4-9; *1991/92 Winter Assessment* (Princeton, New Jersey, November 1991), pp. 4-9, and the *1992/93 Winter Assessment* (Princeton, New Jersey, November 1992), pp. 4-9

Figure 6. Electricity Purchases and Costs by the Top Ten Investor-Owned Utilities, 1992

Notes: Numbers indicate rank by kilowatt-hours (kWh) purchased. Shaded areas show the service territories of the indicated utilities.
Source: Federal Energy Regulatory Commission, FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others."

Texas experienced some curtailment of supplies in the spot market, but these utilities maintained fuel-oil inventories to cover the disruptions. A 230-kilovolt line in MAAC was delayed from being energized in 1992 because of questions about electromagnetic field exposures.

NERC noted in both of its winter assessments that extreme weather and equipment problems in any region can combine to strain reserve margins. This in turn will affect wholesale electric trade by changing the mix of generation, the dispatch patterns of electrical generation units, the electrical system support requirements for reliability, and economic and firm electricity transfers.

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).

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

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

Highlights

In 1992, as in 1990, Southern California Edison led all investor-owned utilities with almost 31.2 billion kilowatt-hours in purchases for which it paid nearly

Figure 7. Electricity Sales for Resale and Revenue by the Top Ten Investor-Owned Utilities, 1992

Notes: Numbers indicate rank by kilowatthours (kWh) sold. Shaded areas show the service territories of the indicated utilities.

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

\$2.3 billion. Of the next four largest investor-owned utilities, ranked according to the amount of energy purchased, Pacific Gas & Electric of California, Florida Power & Light, Niagara Mohawk Power Corp. of New York, and the Massachusetts Electric Company each paid at least \$655 million for 27.3, 21.2, 17.8 and 16 billion kilowatthours, respectively. These top five investor-owned purchasers purchased 113.5 billion kilowatthours for \$6.6 billion (Figure 6). In comparing 1992 activity with the aggregated top five purchasers of 1990 (120.3 billion kilowatthours for \$6.2 billion), there was a decrease in the total amount of power purchased from 1990 to 1992 (5.6 percent). However, the total cost increased by 6.5 percent.

For wholesale transactions covered by the sales for resale category, New England Power of Massachusetts sold 23.5 billion kilowatthours for revenue of \$1.5 billion to lead all investor-owned utilities. Following New England Power in volume of sales for resale were Georgia Power, Ohio Power, Alabama Power, and Arkansas Power & Light. Each of these utilities sold more than 15.4 billion kilowatthours. The associated revenues ranged from \$384.2 million for Arkansas Power & Light's 15.4 billion kilowatthours to \$708.4 million for Georgia Power's 19.2 billion kilowatthours (Figure 7).

Each of the first 10 investor-owned utilities, ranked by energy exchanged, had receipts totaling more than 1.4

billion kilowatthours. PacifiCorp, headquartered in Oregon, led all investor-owned companies in both receipts (22.1 billion kilowatthours) and deliveries (21.9 billion kilowatthours). Northern States Power of Minnesota was second in receipts with 16.9 billion kilowatthours and also second in deliveries with 21.8 billion kilowatthours. Of the utilities east of the Mississippi River, only Duke Power of North Carolina exchanged enough power to be included in the top 10 ranking. This utility had exchanges of 2.5 billion kilowatthours in receipts and 2.2 billion kilowatthours in deliveries. Investor-owned utilities west of the Mississippi River were the most active in this category of electric power transactions. In 1990, the aggregated receipts of the top 10 utilities (ranked by receipts) was 115.8 billion kilowatthours. In 1992, the total for the top 10 was down by over 13 percent to 100.3 billion kilowatthours.

Wheeling data reported by investor-owned utilities on FERC Form 1 do not always include the quantity of electricity received and/or delivered. This results because utilities frequently buy and sell capacity on a transmission line or system for a specified time period. Rather than providing individual transmission services, a utility leases portions of its transmission system capability to other utilities. The operation of the transmission lines (e.g., loading, metering, and maintenance) remains the responsibility of the owner of the transmission lines, but FERC Form 1 record keeping of the

quantity of electricity wheeled (megawatthours) is not necessary since charges are fixed or based on the maximum capacity used (megawatts). For this reason, the discussion below focuses on wheeling costs and revenue instead of receipts and deliveries of wheeled electricity.

Investor-owned utilities also provided transmission services to other utilities for a fee. The company receiving the most money for wheeling power through its system was the Consolidated Edison Company of New York. It received \$213.8 million for wheeling 13.2 billion kilowatthours. Again, as in 1990, most power wheeled by Consolidated Edison came from upstate New York and other parts of the NPCC region and went to utilities on Long Island. The other utilities in the top 10 received from \$19.3 million (Connecticut Light and Power) to \$66.7 million (Niagara Mohawk of New York) for wheeling services. Six of the top 10 utilities (by revenue) are located in New England, and two others are located in California. Of those utilities reporting energy wheeled, Pacific Gas & Electric of California wheeled the most -- 16.5 billion kilowatthours for which it received \$56.5 million, substantially less than Consolidated Edison.

Again, Long Island Lighting of New York paid the most for wheeling services in 1992 (\$45.8 million), followed by PacifiCorp of Oregon, New England Power in Massachusetts, Columbus Southern Power of Ohio,

and Puget Sound Power & Light of Washington State (these utilities paid other utility transmission service charges of \$42.8 million, \$31.9 million, \$29.9 million, and \$26.9 million, respectively).

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.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992

Source of Electricity by Ownership Class	Alabama Alabama Power Co	Alabama Southern Electric Generating Co ^a	Alaska Alaska Electric Light & Power ^d	Arizona Ajo Improvement Co ^a	Arizona Arizona Public Service Co	Arizona Century Power Corp ^a	Arizona Citizens Utilities Co
Investor-Owned							
Purchases (thousand kWh)	2,889,111	--	--	--	497,940	--	848,257
Cost (dollars)	77,081,126	--	--	--	21,613,403	--	40,043,997
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	11,452,772	--	21,790,801
Energy	77,081,126	--	--	--	10,160,631	--	18,131,976
Other ²	--	--	--	--	--	--	121,220
Federal							
Purchases (thousand kWh)	80,321	--	222,165	--	2,770	--	--
Cost (dollars)	1,607,334	--	6,928,262	--	43,260	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	1,607,334	--	6,928,262	--	43,260	--	--
Other ²	--	--	--	--	--	--	--
State and Other Government							
Purchases (thousand kWh)	1,994	--	--	--	809,095	--	10,172
Cost (dollars)	40,760	--	--	--	35,174,309	--	164,324
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	15,666,793	--	14,921
Energy	40,760	--	--	--	19,466,364	--	149,403
Other ²	--	--	--	--	41,152	--	--
Municipal							
Purchases (thousand kWh)	93	--	--	--	75	--	--
Cost (dollars)	2,890	--	--	--	2,063	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	2,890	--	--	--	2,063	--	--
Other ²	--	--	--	--	--	--	--
Cooperative							
Purchases (thousand kWh)	182,970	--	--	--	1,270	--	70
Cost (dollars)	7,365,193	--	--	--	27,864	--	5,691
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	4,950,803	--	--	--	27,864	--	5,691
Other ²	2,414,590	--	--	--	--	--	--
Other³							
Purchases (thousand kWh)	1,555,116	--	--	--	1,479	--	--
Cost (dollars)	35,374,908	--	--	--	146,535	--	732
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	29,869,685	--	--	--	3,535	--	--
Other ²	5,505,223	--	--	--	143,000	--	732
Total							
Purchases (thousand kWh)	4,689,605	--	222,165	--	1,312,629	--	858,499
Cost (dollars)	121,472,211	--	6,928,262	--	57,007,434	--	40,214,744
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	27,119,565	--	21,805,722
Energy	113,552,398	--	6,928,262	--	29,703,717	--	18,287,070
Other ²	7,919,813	--	--	--	184,152	--	121,952

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	Arizona	Arkansas	Arkansas	California	California	California	Colorado
	Tucson Electric Power Co	Arkansas Power & Light Co	Entergy Power Co	Pacific Gas & Electric Co	San Diego Gas & Electric Co	Southern California Edison Co	Public Service Co of Colorado
Investor-Owned							
Purchases (thousand kWh)	2,313,959	2,836,539	44,293	1,556,394	4,932,914	2,186,509	873,876
Cost (dollars)	147,307,047	48,955,358	760,531	51,505,378	185,533,871	80,206,839	36,106,857
Demand Charge Only ¹	—	—	—	—	—	16,952,613	—
Demand	88,201,336	1,043,250	—	7,083,390	71,020,768	24,671,111	22,241,973
Energy	59,105,711	47,912,108	760,531	44,421,988	94,513,103	38,924,029	13,849,174
Other ²	—	—	—	—	—	-341,114	215,710
Federal							
Purchases (thousand kWh)	455	—	—	271,144	671,668	1,119,470	860
Cost (dollars)	10,525	—	—	4,495,966	11,242,026	33,676,619	18,129
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	3,489,324	—
Energy	10,525	—	—	4,495,966	11,242,026	29,580,672	19,530
Other ²	—	—	—	—	—	626,623	-1,401
State and Other							
Government							
Purchases (thousand kWh)	11,787	—	—	2,113,297	488,916	484,617	1,268,638
Cost (dollars)	214,199	—	—	58,556,980	8,536,193	28,477,969	74,079,599
Demand Charge Only ¹	—	—	—	—	—	900,000	—
Demand	86,748	—	—	961,873	—	5,634,122	49,339,950
Energy	127,451	—	—	57,595,107	8,536,193	19,869,347	24,739,649
Other ²	—	—	—	—	—	74,500	—
Municipal							
Purchases (thousand kWh)	11,948	129,770	—	159,856	638	1,367,730	133,845
Cost (dollars)	290,377	3,320,013	—	11,198,284	14,536	98,072,915	4,397,332
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	2,630,078	—	17,910,817	2,310,551
Energy	290,377	3,320,013	—	8,568,208	14,536	79,925,478	1,534,336
Other ²	—	—	—	—	—	236,620	552,445
Cooperative							
Purchases (thousand kWh)	75,131	3,467,421	43,725	191,297	8,929	391,694	3,824,732
Cost (dollars)	1,568,418	66,191,037	826,763	5,906,514	193,486	6,812,638	142,384,050
Demand Charge Only ¹	—	416	—	—	—	—	—
Demand	—	—	—	—	—	—	90,313,905
Energy	1,568,418	66,190,621	826,763	5,906,514	193,486	6,719,694	52,115,163
Other ²	—	—	—	—	—	92,944	-45,018
Other³							
Purchases (thousand kWh)	53,458	4,998,010	—	22,972,433	2,432,987	25,602,392	1,384,373
Cost (dollars)	2,795,507	298,833,321	—	1,590,753,208	125,526,223	2,006,847,327	72,786,676
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	481,385,767	63,460,840	625,734,244	57,618,038
Energy	1,141,992	298,833,321	—	1,109,367,441	62,065,383	1,379,005,909	15,050,954
Other ²	1,653,515	—	—	—	—	2,107,174	117,684
Total							
Purchases (thousand kWh)	2,486,738	11,231,740	88,018	27,264,421	8,536,052	31,154,412	7,486,324
Cost (dollars)	152,186,073	417,099,729	1,587,294	1,722,416,330	311,046,335	2,252,094,107	329,772,643
Demand Charge Only ¹	—	416	—	—	—	17,852,613	—
Demand	88,288,084	1,043,250	—	492,061,106	134,481,608	677,439,618	221,824,417
Energy	62,244,474	416,056,063	1,587,294	1,230,355,224	176,564,727	1,554,005,129	107,108,806
Other ²	1,653,515	—	—	—	—	2,796,747	839,420

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	Colorado Utilicorp United Inc	Connecticut Connecticut Light & Power Co	Connecticut Connecticut Yankee Atomic Power Co ¹	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)	1,434,334	7,404,918	--	482,718	2,649,870	3,354,880	1,035,770
Cost (dollars)	53,900,825	280,434,972	--	23,822,811	58,870,095	150,511,897	18,866,829
Demand Charge Only ¹	810	--	--	--	--	--	--
Demand	29,980,317	--	--	18,321,000	--	4,023,311	--
Energy	26,872,082	150,819,946	--	5,301,811	58,870,095	54,789,028	17,861,858
Other ²	-2,752,364	108,615,028	--	--	--	91,719,558	1,004,971
Federal							
Purchases (thousand kWh)	--	--	--	--	--	--	--
Cost (dollars)	200	--	--	--	--	--	--
Demand Charge Only ¹	200	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Purchases (thousand kWh)	--	454,869	--	5,816	1,859	10,105	438,090
Cost (dollars)	--	34,864,409	--	34,833	36,417	378,496	15,422,269
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	7,026,527
Energy	--	34,555,488	--	34,833	36,417	283,576	8,395,742
Other ²	--	108,921	--	--	--	92,920	--
Municipal							
Purchases (thousand kWh)	1,187	1,548	--	--	--	--	3,435,013
Cost (dollars)	30,002	132,653	--	--	--	--	143,418,948
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	85,382,289
Energy	30,002	132,653	--	--	--	--	54,763,061
Other ²	--	--	--	--	--	--	3,273,598
Cooperative							
Purchases (thousand kWh)	--	--	--	--	--	--	802,851
Cost (dollars)	--	--	--	--	--	5,538,905	13,674,278
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	13,674,278
Other ²	--	--	--	--	--	5,538,905	--
Other³							
Purchases (thousand kWh)	--	7,706,969	--	915,523	178,480	4,913,193	15,533,738
Cost (dollars)	--	322,335,452	--	44,010,604	4,049,590	105,259,505	727,409,488
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	25,239,647	533,070	--	411,377,355
Energy	--	274,967,619	--	18,770,957	3,632,903	95,987,485	316,131,380
Other ²	--	47,367,833	--	--	-116,383	9,272,020	-99,247
Total							
Purchases (thousand kWh)	1,435,521	15,568,104	--	1,384,057	2,830,209	8,278,178	21,245,262
Cost (dollars)	53,930,827	617,567,486	--	67,668,248	62,956,102	261,686,803	918,791,812
Demand Charge Only ¹	810	--	--	--	--	--	--
Demand	29,980,317	--	--	43,560,647	533,070	4,023,311	503,786,171
Energy	26,702,064	460,475,706	--	24,107,601	62,539,415	151,040,089	410,826,319
Other ²	-2,752,364	157,091,780	--	--	-116,383	106,623,403	4,179,322

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	Florida Florida Power Corp	Florida Gulf Power Co	Florida Tampa Electric Co	Georgia Georgia Power Co	Georgia Savannah Electric & Power Co	Hawaii Citizens Utilities Co ⁴	Hawaii Hawaiian Electric Co Inc ⁴
Investor-Owned							
Purchases (thousand kWh)	1,110,698	43,209	55,828	2,934,294	19,528	--	--
Cost (dollars)	37,998,361	842,649	1,987,025	80,835,802	178,690	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	166,698	--	105,451	--	--	--	--
Energy	37,831,663	842,649	1,849,359	80,835,802	178,690	--	--
Other ²	--	--	32,215	--	--	--	--
Federal							
Purchases (thousand kWh)	33,883	33,266	--	--	6,062	--	--
Cost (dollars)	424,815	322,713	--	--	121,315	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	424,815	322,713	--	--	121,315	--	--
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Purchases (thousand kWh)	813,760	401	215,121	3,210,842	151	--	--
Cost (dollars)	27,586,111	8,184	7,275,899	192,916,606	3,077	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	5,881,556	--	3,165,030	--	--	--	--
Energy	21,904,555	8,184	4,037,321	192,916,606	3,077	--	--
Other ²	--	--	73,348	--	--	--	--
Municipal							
Purchases (thousand kWh)	252,256	18	20,709	50,654	7	--	--
Cost (dollars)	9,489,061	545	889,493	903,393	205	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	55,258	--	11,920	--	--	--	--
Energy	9,433,803	545	877,563	903,393	205	--	--
Other ²	--	--	10	--	--	--	--
Cooperative							
Purchases (thousand kWh)	241,145	16,817	14,763	5,542,644	2,631	--	--
Cost (dollars)	5,448,917	183,069	366,158	234,240,882	42,143	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	5,448,917	183,069	366,158	234,240,882	42,143	--	--
Other ²	--	--	--	--	--	--	--
Other³							
Purchases (thousand kWh)	1,211,897	1,281,630	320,727	1,956,294	3,172,195	80,561	2,022,742
Cost (dollars)	59,446,074	26,824,398	9,152,826	86,243,474	56,842,929	4,327,252	148,889,000
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	27,187,537	3,807,748	2,786,988	--	2,424,430	--	--
Energy	32,258,537	23,016,650	6,206,162	86,243,474	54,218,499	4,327,252	91,270,000
Other ²	--	--	159,676	--	--	--	57,619,000
Total							
Purchases (thousand kWh)	3,663,639	1,375,341	627,148	13,894,528	3,200,574	80,561	2,022,742
Cost (dollars)	140,393,339	28,181,558	19,671,201	595,140,157	56,986,359	4,327,252	148,889,000
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	33,091,049	3,807,748	6,069,389	--	2,424,430	--	--
Energy	107,302,290	24,373,810	13,336,563	595,140,157	54,561,929	4,327,252	91,270,000
Other ²	--	--	265,249	--	--	--	57,619,000

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	Hawaii Maul Electric Co Ltd ^a	Idaho Citizens Utilities Co ^a	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)	—	27,553	1,259,189	180,531	1,458,581	3,027,818	4,298,039
Cost (dollars)	—	887,877	32,197,909	4,130,752	19,934,696	112,877,915	70,416,528
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	129,775	1,150,500	1,872,000	3,036,734	22,423,365	—
Energy	—	758,102	31,047,272	2,258,752	16,897,962	90,454,550	70,416,528
Other ²	—	—	137	—	—	—	—
Federal							
Purchases (thousand kWh)	—	—	202,696	—	43,338	—	3,177,591
Cost (dollars)	—	—	3,021,422	—	770,705	—	52,005,480
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	3,021,422	—	770,705	—	52,005,480
Other ²	—	—	—	—	—	—	—
State and Other Government							
Purchases (thousand kWh)	—	—	63,644	—	—	—	—
Cost (dollars)	—	—	1,771,313	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	1,771,313	—	—	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	—	—	54,072	855	2,008	—	—
Cost (dollars)	—	—	999,931	13,110	32,052	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	1,293,403	13,110	32,052	—	—
Other ²	—	—	-293,472	—	—	—	—
Cooperative							
Purchases (thousand kWh)	—	—	1,918	—	6,958	—	—
Cost (dollars)	—	—	45,596	—	296,698	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	45,596	—	296,698	—	—
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	120,684	—	574,110	9,859	2,051	137,210	—
Cost (dollars)	9,294,474	—	19,749,105	228,901	51,978	2,250,951	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	2,062,637	—	5,071,449	53,167	—	—	—
Energy	7,231,837	—	18,289,784	175,734	51,978	2,250,951	—
Other ²	—	—	-3,592,126	—	—	—	—
Total							
Purchases (thousand kWh)	120,684	27,553	2,155,629	191,245	1,512,936	3,165,028	7,475,630
Cost (dollars)	9,294,474	887,877	57,785,276	4,372,763	21,086,129	115,128,866	122,422,008
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	2,062,637	129,775	6,221,949	1,925,167	3,036,734	22,423,365	—
Energy	7,231,837	758,102	55,448,790	2,447,596	18,049,395	92,705,501	122,422,008
Other ²	—	—	-3,885,463	—	—	—	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	Illinois Power Co	Illinois Mt Carmel Public Utility Co	Indiana Alcoa Generating Corp ¹	Indiana Commonwealth Edison of Indiana ²	Indiana Indiana Michigan Power Co	Indiana Indianapolis Power & Light Co	Indiana Northern Indiana Public Service Co
Investor-Owned							
Purchases (thousand kWh)	1,318,869	164,036	797,319	—	4,172,161	94,133	683,378
Cost (dollars)	18,565,147	5,772,141	18,578,518	—	96,027,922	7,241,530	9,669,378
Demand Charge Only ³	—	—	—	—	—	—	—
Demand	3,419,806	2,811,380	23,000	—	32,008	5,513,000	5,000
Energy	15,145,342	2,960,761	18,555,518	—	95,995,914	1,728,530	9,664,378
Other ⁴	—	—	—	—	—	—	—
Federal							
Purchases (thousand kWh)	244,357	—	—	—	3,083	—	—
Cost (dollars)	4,208,410	—	—	—	65,346	—	—
Demand Charge Only ³	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	4,208,410	—	—	—	65,346	—	—
Other ⁴	—	—	—	—	—	—	—
State and Other Government							
Purchases (thousand kWh)	—	—	—	—	20	—	5,214
Cost (dollars)	—	—	—	—	406	—	141,624
Demand Charge Only ³	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	406	—	141,624
Other ⁴	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	2,953	—	—	—	18,908	—	—
Cost (dollars)	83,834	—	—	—	274,337	—	—
Demand Charge Only ³	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	83,834	—	—	—	274,337	—	—
Other ⁴	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	20,297	—	—	—	115,187	32,072	—
Cost (dollars)	466,502	—	—	—	1,309,951	562,212	—
Demand Charge Only ³	—	—	—	—	—	—	—
Demand	6,375	—	—	—	—	14,000	—
Energy	460,127	—	—	—	1,309,951	548,212	—
Other ⁴	—	—	—	—	—	—	—
Other⁵							
Purchases (thousand kWh)	38,584	—	—	—	5,032,557	—	14,565
Cost (dollars)	677,935	—	—	—	82,686,987	—	250,115
Demand Charge Only ³	—	—	—	—	—	—	—
Demand	—	—	—	—	37,173	—	—
Energy	677,935	—	—	—	82,649,814	—	250,115
Other ⁴	—	—	—	—	—	—	—
Total							
Purchases (thousand kWh)	1,625,060	164,036	797,319	—	9,341,916	126,205	703,152
Cost (dollars)	24,001,628	5,772,141	18,578,518	—	180,364,949	7,803,742	10,061,117
Demand Charge Only ³	—	—	—	—	—	—	—
Demand	3,426,180	2,811,380	23,000	—	69,181	5,527,000	5,000
Energy	20,575,648	2,960,761	18,555,518	—	180,295,768	2,276,742	10,056,117
Other ⁴	—	—	—	—	—	—	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (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)	851,958	149,747	615,675	784,700	178,560	54,732	130,001
Cost (dollars)	12,365,700	2,176,128	17,508,307	12,324,955	2,302,126	841,051	2,445,076
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	1,052,809	17,393	8,750,000	—	—	—	201,000
Energy	11,313,091	2,158,735	8,410,427	12,324,955	2,302,126	841,051	2,244,076
Other ²	—	—	347,880	—	—	—	—
Federal							
Purchases (thousand kWh)	—	—	20,436	31,894	15,995	—	57,600
Cost (dollars)	—	—	311,635	486,862	217,560	—	904,516
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	311,635	486,862	217,560	—	904,516
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	—	—	161,850	89,522	279,235	3,107	3,657,774
Cost (dollars)	47,270	—	2,320,365	1,129,873	3,350,686	359,348	101,286,157
Demand Charge Only ¹	—	—	—	—	—	—	1,106,000
Demand	49,391	—	—	—	—	300,000	7,000,000
Energy	-2,121	—	2,320,365	1,129,873	3,350,686	59,348	17,777,367
Other ²	—	—	—	—	—	—	75,402,790
Municipal							
Purchases (thousand kWh)	—	—	2,719	531,680	74,422	1,967	92,931
Cost (dollars)	—	—	67,524	35,722,619	1,619,973	27,728	1,698,743
Demand Charge Only ¹	—	—	30,000	—	—	—	180,000
Demand	—	—	—	22,195,741	—	—	368,000
Energy	—	—	37,524	12,869,600	1,619,973	27,728	1,141,621
Other ²	—	—	—	657,278	—	—	9,122
Cooperative							
Purchases (thousand kWh)	73,217	44,046	1,098,346	627,670	341,203	40,830	535,148
Cost (dollars)	1,276,042	738,275	25,289,235	7,417,225	4,113,979	568,649	7,327,721
Demand Charge Only ¹	—	—	—	15,303	—	—	754,200
Demand	2,427	18,000	9,747,000	—	—	—	65,566
Energy	1,273,615	720,275	15,065,605	7,401,742	4,113,979	568,649	6,507,955
Other ²	—	—	476,630	180	—	—	—
Other³							
Purchases (thousand kWh)	—	—	—	158,847	196,529	170,634	848,628
Cost (dollars)	2	—	—	3,553,456	1,862,324	1,797,730	9,226,517
Demand Charge Only ¹	—	—	—	1,860,480	—	—	5,000
Demand	—	—	—	—	—	—	125,000
Energy	2	—	—	1,692,976	1,862,324	1,797,730	4,582,250
Other ²	—	—	—	—	—	—	4,514,267
Total							
Purchases (thousand kWh)	925,175	193,793	1,899,026	2,224,313	1,085,944	271,270	5,322,082
Cost (dollars)	13,889,014	2,914,403	45,497,066	60,634,990	13,466,648	3,594,506	122,888,730
Demand Charge Only ¹	—	—	30,000	1,875,783	—	—	2,045,200
Demand	1,104,427	35,393	18,497,000	22,195,741	—	300,000	7,759,566
Energy	12,584,587	2,879,010	26,145,556	35,906,008	13,466,648	3,294,506	33,157,785
Other ²	—	—	824,510	657,458	—	—	79,926,179

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (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 ¹
Investor-Owned							
Purchases (thousand kWh)	523,326	183,295	2,686,374	227,995	277,955	2,935,181	--
Cost (dollars)	8,436,869	2,529,335	73,669,925	5,656,362	2,908,505	126,754,074	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	24,713	3,041,910	20	56,821,706	--
Energy	8,436,869	2,529,335	73,645,212	2,602,599	578,254	78,565,644	--
Other ²	--	--	--	11,873	2,330,231	-8,633,276	--
Federal							
Purchases (thousand kWh)	--	--	1,106	6,369	435,622	--	--
Cost (dollars)	--	--	23,438	140,175	7,141,806	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	157,404	--	--
Energy	--	--	23,438	140,175	6,984,402	--	--
Other ²	--	--	--	--	--	--	--
State and Other Government							
Purchases (thousand kWh)	3,285	470,060	--	--	--	--	--
Cost (dollars)	41,902	5,202,370	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	41,902	5,202,370	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
Municipal							
Purchases (thousand kWh)	--	10,229	8,985	1,763,519	--	--	--
Cost (dollars)	--	1,923,790	97,801	26,385,351	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	1,595,907	--	4,482,809	--	--	--
Energy	--	327,883	97,801	21,902,542	--	--	--
Other ²	--	--	--	--	--	--	--
Cooperative							
Purchases (thousand kWh)	18,590	--	8,216	34,207	115,490	--	--
Cost (dollars)	370,553	--	116,049	571,483	1,993,637	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	24,000	391,129	--	--
Energy	370,553	--	116,049	547,483	1,602,508	--	--
Other ²	--	--	--	--	--	--	--
Other³							
Purchases (thousand kWh)	27	10,066	711,406	--	-338	--	--
Cost (dollars)	519	195,619	17,880,043	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	664	197,173	17,880,043	--	--	--	--
Other ²	-145	-1,354	--	--	--	--	--
Total							
Purchases (thousand kWh)	545,230	673,650	3,418,087	2,032,110	828,729	2,935,181	--
Cost (dollars)	8,849,843	9,851,314	91,787,256	32,753,391	12,043,948	126,754,074	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	1,595,907	24,713	7,548,719	548,553	56,821,706	--
Energy	8,849,988	8,256,761	91,762,543	25,192,799	9,165,164	78,565,644	--
Other ²	-145	-1,354	--	11,873	2,330,231	-8,633,276	--

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	Louisiana Central Louisiana Electric Co Inc	Louisiana Louisiana Power & Light Co	Louisiana New Orleans Public Service Inc	Louisiana Southwestern Electric Power Co	Maine Bangor Hydro- Electric Co	Maine Central Maine Power Co	Maine Maine Electric Power Co Inc
Investor-Owned							
Purchases (thousand kWh)	14,267	1,029,546	1,250,166	123,352	946,139	2,637,200	17,730
Cost (dollars)	277,093	101,277,363	122,979,655	2,002,571	27,252,552	99,126,740	249,350
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	11,500,397	—	—
Energy	277,093	7,715,415	9,368,718	1,957,659	15,752,155	19,211,801	249,350
Other ²	—	93,561,948	113,610,937	44,912	—	79,915,139	—
Federal							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	78,987	78,867	—	11,171	—	5,852	—
Cost (dollars)	1,822,725	1,835,446	—	101,729	—	421,837	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	1,822,725	1,718,280	—	101,729	—	421,837	—
Other ²	—	117,166	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	—	—	—	59,999	—	1,417	—
Cost (dollars)	—	—	—	—	—	34,760	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	34,760	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	59,900	—	—	1,186,295	—	—	—
Cost (dollars)	903,107	—	—	1,835,683	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	15,906	—	—	—
Energy	903,107	—	—	1,819,777	—	—	—
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	370,490	10,184,313	2,390,759	142,008	603,635	4,835,356	323,981
Cost (dollars)	6,125,145	232,637,144	47,723,032	2,680,107	72,062,159	366,360,256	8,162,117
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	1,003,800	—	—
Energy	6,643,572	232,637,144	47,723,032	2,680,107	71,058,359	366,364,700	8,158,807
Other ²	-518,427	—	—	—	—	-24,444	3,310
Total							
Purchases (thousand kWh)	523,644	11,292,746	3,640,925	1,522,825	1,549,774	7,479,825	341,711
Cost (dollars)	9,128,070	335,749,953	170,702,687	6,620,090	99,314,711	465,943,593	8,411,467
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	15,906	12,504,197	—	—
Energy	9,846,497	242,070,839	57,091,750	6,559,272	86,810,514	386,052,898	8,408,157
Other ²	-518,427	93,679,114	113,610,937	44,912	—	79,890,695	3,310

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	Maine Maine Public Service Co	Maine Yankee Atomic Power Co ^s	Maryland Allegheny Generating Co ^s	Maryland Baltimore Gas & Electric Co	Maryland Conowingo Power Co	Maryland Potomac Edison Co	Massachusetts Boston Edison Co
Investor-Owned							
Purchases (thousand kWh)	276,352	—	—	2,308,590	748,967	6,860,569	3,007,454
Cost (dollars)	9,242,514	—	—	91,886,416	51,365,674	200,986,406	126,482,934
Demand Charge Only ¹	—	—	—	—	—	—	-2,054,227
Demand	—	—	—	50,550,368	39,731,604	41,735,396	83,940,807
Energy	9,242,514	—	—	21,568,271	14,056,596	100,890,641	44,576,354
Other ²	—	—	—	19,567,777	-2,422,526	58,360,369	—
Federal							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other Government							
Purchases (thousand kWh)	—	—	—	—	—	—	6,402
Cost (dollars)	—	—	—	—	—	—	125,272
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	125,272
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	386,745	—	—	867,097	730	68,075	3,367,492
Cost (dollars)	19,878,725	—	—	25,510,109	37,439	37,075	204,918,679
Demand Charge Only ¹	—	—	—	—	—	—	-1,046,256
Demand	—	—	—	8,720,773	—	213	60,829,825
Energy	19,878,725	—	—	15,257,340	37,439	36,862	145,135,110
Other ²	—	—	—	1,531,996	—	—	—
Total							
Purchases (thousand kWh)	663,097	—	—	3,175,687	749,697	6,928,644	6,381,348
Cost (dollars)	29,121,239	—	—	117,196,525	51,403,113	201,023,481	331,506,665
Demand Charge Only ¹	—	—	—	—	—	—	-3,100,483
Demand	—	—	—	59,271,141	39,731,604	41,735,609	144,770,632
Energy	29,121,239	—	—	36,825,611	14,094,035	100,927,503	189,836,736
Other ²	—	—	—	21,099,773	-2,422,526	58,360,369	—

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	Massachusetts Cambridge Electric Light Co	Massachusetts Canal Electric Co	Massachusetts Commonwealth Electric Co	Massachusetts Eastern Edison Co ¹	Massachusetts Fitchburg Gas & Electric Light Co	Massachusetts Great Bay Power Co ¹	Massachusetts Holyoke Power & Electric Co
Investor-Owned							
Purchases (thousand kWh)	1,061,117	311,843	2,782,277	2,560,920	154,584	—	1,049,515
Cost (dollars)	52,690,029	12,157,806	143,840,071	180,415,155	5,440,456	—	27,188,838
Demand Charge Only ¹	-434,751	—	1,813,980	—	—	—	—
Demand	38,523,887	8,847,522	99,931,984	139,404,554	3,370,369	—	—
Energy	14,600,893	3,387,084	42,094,107	41,010,601	2,070,087	—	18,468,563
Other ²	—	-77,000	—	—	—	—	8,720,275
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)	—	—	—	214	—	—	—
Cost (dollars)	—	—	—	22,715	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	17,954	—	—	—
Energy	—	—	—	4,761	—	—	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	429,271	149,012	1,660,403	214	167,962	—	—
Cost (dollars)	11,441,499	14,354,535	109,990,549	5,663,859	10,362,196	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	165,328	11,351,473	35,712,316	—	7,017,007	—	—
Energy	12,060,344	2,998,804	74,849,567	4,183	3,345,189	—	—
Other ²	-784,173	4,258	-571,334	5,659,676	—	—	—
Total							
Purchases (thousand kWh)	1,490,388	460,855	4,422,680	2,561,348	322,546	—	1,049,515
Cost (dollars)	64,131,528	26,512,141	253,830,820	186,101,729	15,802,652	—	27,188,838
Demand Charge Only ¹	-434,751	—	1,813,980	—	—	—	—
Demand	38,689,215	20,198,995	135,644,300	139,422,508	10,387,376	—	—
Energy	26,661,237	6,385,888	116,943,674	41,019,545	5,415,276	—	18,468,563
Other ²	-784,173	-72,742	-571,334	5,659,676	—	—	8,720,275

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (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 ^a	Massachusetts New England Power Co	Massachusetts Western Massachusetts Electric Co	Massachusetts Yankee Atomic Electric Co ^a
Investor-Owned							
Purchases (thousand kWh)	858,117	18,016,898	2,720,395	--	3,534,818	1,245,808	--
Cost (dollars)	18,552,836	1,085,115,888	130,101,936	--	159,848,672	51,142,313	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	543,073,080	101,294,547	--	4,983,272	--	--
Energy	10,792,083	349,960,658	28,807,389	--	38,069,582	20,108,362	--
Other ²	5,760,553	172,082,150	--	--	118,815,838	31,033,951	--
Federal							
Purchases (thousand kWh)	--	--	--	--	--	--	--
Cost (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Purchases (thousand kWh)	--	--	2,569	--	19,916	--	--
Cost (dollars)	--	--	985,517	--	451,945	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	860,290	--	--	--	--
Energy	--	--	125,227	--	451,945	--	--
Other ²	--	--	--	--	--	--	--
Municipal							
Purchases (thousand kWh)	--	321	38,333	--	--	149	--
Cost (dollars)	--	31,282	2,045,764	--	--	4,233	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	888,000	--	--	--	--
Energy	--	31,282	1,157,764	--	--	4,233	--
Other ²	--	--	--	--	--	--	--
Cooperative							
Purchases (thousand kWh)	--	--	--	--	--	--	--
Cost (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
Other³							
Purchases (thousand kWh)	52,888	1,987	360,009	--	5,945,606	799,064	--
Cost (dollars)	804,569	74,733	29,860,637	--	347,053,817	16,546,291	--
Demand Charge Only ¹	--	--	6,509,700	--	--	--	--
Demand	--	--	15,536,879	--	45,629,069	--	--
Energy	1,009,756	74,733	7,814,058	--	288,511,589	29,652,132	--
Other ²	-205,187	--	--	--	31,913,159	-13,105,841	--
Total							
Purchases (thousand kWh)	711,005	18,019,004	3,121,306	--	9,500,340	2,045,021	--
Cost (dollars)	17,357,205	1,085,221,903	162,993,854	--	507,354,434	67,692,837	--
Demand Charge Only ¹	--	--	6,509,700	--	--	--	--
Demand	--	543,073,080	118,579,716	--	50,592,341	--	--
Energy	11,801,839	350,066,673	37,904,438	--	308,033,096	49,764,727	--
Other ²	5,555,366	172,082,150	--	--	148,728,997	17,928,110	--

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source 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 ^a	Minnesota Minnesota Power & Light Co	Minnesota Northern States Power Co
Investor-Owned							
Purchases (thousand kWh)	3,694,258	1,055,174	337,851	557,851	--	238,893	571,509
Cost (dollars)	84,016,830	21,589,138	12,849,713	18,732,394	--	4,543,113	14,641,256
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	6,147,473	2,090,936	4,828,305	5,519,818	--	446,626	4,271,810
Energy	57,879,326	19,498,200	7,503,313	11,127,175	--	4,096,487	10,369,446
Other ²	-10,169	--	718,095	85,601	--	--	--
Federal							
Purchases (thousand kWh)	--	--	155,362	--	--	71,077	111,701
Cost (dollars)	--	--	1,914,014	--	--	1,114,088	1,807,198
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	1,914,014	--	--	1,114,088	1,807,198
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Purchases (thousand kWh)	107,569	1,287,445	--	--	--	571,018	957,028
Cost (dollars)	7,194,151	69,291,511	--	--	--	8,689,276	22,197,839
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	5,008,023	--	--	--	--	3,039,752	8,697,487
Energy	2,209,308	18,381,232	--	--	--	5,649,524	13,500,352
Other ²	-24,180	50,910,279	--	--	--	--	--
Municipal							
Purchases (thousand kWh)	527,585	2,115	--	866	--	10,830	307,045
Cost (dollars)	28,711,057	1,108	--	2,190,032	--	290,507	5,281,036
Demand Charge Only ¹	--	--	--	--	--	22,950	--
Demand	17,594,606	--	--	2,154,904	--	--	790,459
Energy	11,140,451	1,108	--	35,128	--	267,557	4,490,577
Other ²	-24,000	--	--	--	--	--	--
Cooperative							
Purchases (thousand kWh)	--	--	205	--	--	2,903,501	1,953,864
Cost (dollars)	--	--	7,445	--	--	61,781,451	45,122,959
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	39,867,044	19,267,093
Energy	--	--	7,445	--	--	21,914,407	25,855,866
Other ²	--	--	--	--	--	--	--
Other³							
Purchases (thousand kWh)	7,448,699	380,155	--	--	--	699,686	4,466,989
Cost (dollars)	472,029,700	13,939,964	--	--	--	9,008,500	65,825,180
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	318,394,496	--	--	--	--	1,220,420	11,918,494
Energy	154,201,109	11,547,026	--	--	--	7,788,080	53,906,686
Other ²	-565,905	2,392,938	--	--	--	--	--
Total							
Purchases (thousand kWh)	11,779,111	2,704,889	493,418	558,517	--	4,494,805	8,368,236
Cost (dollars)	571,951,538	104,821,719	14,771,172	18,922,426	--	85,426,935	154,875,468
Demand Charge Only ¹	--	--	--	--	--	22,950	--
Demand	347,145,598	2,090,936	4,828,305	7,674,522	--	44,573,842	44,945,343
Energy	225,430,194	49,427,566	9,424,772	11,162,303	--	40,830,143	109,930,125
Other ²	-624,254	53,303,217	718,095	85,601	--	--	--

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	Minnesota Otter Tail Power Co	Mississippi Mississippi Power & Light Co	Mississippi Mississippi Power Co	Mississippi Systems Energy Resources Inc ¹	Missouri Empire District Electric Co	Missouri Kansas City Power & Light Co	Missouri St Joseph Light & Power Co
Investor-Owned							
Purchases (thousand kWh)	31,835	3,071,014	69,882	--	468,390	573,283	267,996
Cost (dollars)	444,750	287,053,177	857,465	--	7,647,421	11,214,336	4,891,586
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	237,406,928	--	--	595,000	--	1,263,119
Energy	444,750	49,646,249	857,465	--	7,052,421	9,285,336	3,628,467
Other ²	--	--	--	--	--	1,929,000	--
Federal							
Purchases (thousand kWh)	--	114,539	16,457	--	6,585	--	--
Cost (dollars)	--	2,088,555	329,336	--	34,242	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	2,088,555	329,336	--	34,242	--	--
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Purchases (thousand kWh)	388,923	--	409	--	168,768	95,203	206,782
Cost (dollars)	5,262,502	--	8,352	--	2,575,360	1,292,892	2,794,446
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	338,888	--	--
Energy	5,262,502	--	8,352	--	2,236,672	1,292,892	2,794,446
Other ²	--	--	--	--	--	--	--
Municipal							
Purchases (thousand kWh)	94,120	--	19	--	144,801	31,764	1,895
Cost (dollars)	1,405,826	--	556	--	1,954,755	1,982,588	28,157
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	1,315,440	40,631	--
Energy	1,405,826	--	556	--	639,315	593,957	28,157
Other ²	--	--	--	--	--	1,348,000	--
Cooperative							
Purchases (thousand kWh)	286,836	465,612	11,580	--	309,821	221,715	13,553
Cost (dollars)	6,015,396	7,672,778	141,423	--	9,792,447	7,345,318	249,193
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	1,187,170	--	--	--	4,530,240	--	--
Energy	4,828,226	7,672,778	141,423	--	5,262,207	4,001,568	249,193
Other ²	--	--	--	--	--	3,343,750	--
Other³							
Purchases (thousand kWh)	562,144	2,179,743	3,475,992	--	20,679	-336	391
Cost (dollars)	9,453,289	43,677,772	60,689,125	--	529,158	159	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	1,043,126	--	215,009	--	--	--	--
Energy	8,410,163	43,677,772	60,292,150	--	484,312	159	--
Other ²	--	--	181,966	--	44,846	--	--
Total							
Purchases (thousand kWh)	1,363,858	5,830,908	3,574,339	--	1,119,044	921,829	490,617
Cost (dollars)	22,581,783	340,492,282	62,026,257	--	22,533,383	21,835,293	7,963,382
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	2,230,296	237,406,928	215,009	--	6,779,368	40,631	1,263,119
Energy	20,351,487	103,085,354	61,829,282	--	15,709,169	15,173,912	6,700,263
Other ²	--	--	181,966	--	44,846	6,620,750	--

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source 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							
Purchases (thousand kWh)	6,452,894	354,492	567,800	2,289,449	2,326,440	455,015	122,844
Cost (dollars)	107,806,491	9,904,534	13,256,141	70,771,206	66,308,835	34,448,413	8,526,339
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	27,189,184	4,557,113	—	19,497,550	22,554,645	15,430,480	7,372,512
Energy	80,617,307	5,359,261	13,256,141	51,113,790	43,221,884	8,541,107	1,778,988
Other ²	—	-11,840	—	159,866	532,306	10,476,826	-625,161
Federal							
Purchases (thousand kWh)	463,719	—	962,018	669,945	4,962	—	—
Cost (dollars)	8,787,356	—	33,332,055	15,942,023	90,791	—	—
Demand Charge Only ¹	—	—	900,000	—	—	—	—
Demand	207,400	—	—	1,708,100	—	—	—
Energy	8,579,956	—	32,581,293	13,931,539	90,791	—	—
Other ²	—	—	-149,238	402,384	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	—	—	3,148	1,419,870	12,483	—	—
Cost (dollars)	—	—	46,591	29,277,355	363,536	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	4,166,082	—	—	—
Energy	—	—	46,591	24,227,281	363,536	—	—
Other ²	—	—	—	883,992	—	—	—
Municipal							
Purchases (thousand kWh)	—	10,879	2,343	85,132	11,026	—	—
Cost (dollars)	—	187,382	44,033	3,096,834	251,483	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	571	900,000	—	—	—
Energy	—	187,382	45,102	2,196,834	251,483	—	—
Other ²	—	—	-1,640	—	—	—	—
Cooperative							
Purchases (thousand kWh)	52,942	591,876	1,076,463	55,020	166,072	—	—
Cost (dollars)	875,835	14,983,860	19,532,653	1,250,358	4,718,156	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	5,210,000	—	—	1,845,499	—	—
Energy	875,835	9,773,860	19,532,656	1,250,358	2,872,657	—	—
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	55,352	—	369,058	1,254,408	571,569	—	40,647
Cost (dollars)	1,840,290	—	21,096,788	80,015,290	29,049,803	—	3,806,879
Demand Charge Only ¹	—	—	—	15,991,500	—	—	—
Demand	82,200	—	3,490,793	—	2,914,883	—	7,802
Energy	1,758,090	—	14,486,551	64,023,790	26,802,352	—	3,799,077
Other ²	—	—	3,119,444	—	-467,432	—	—
Total							
Purchases (thousand kWh)	7,024,907	957,247	2,980,830	5,773,824	3,092,552	455,015	163,491
Cost (dollars)	119,309,972	25,075,775	87,308,264	200,352,866	100,782,604	34,448,413	12,333,218
Demand Charge Only ¹	—	—	900,000	15,991,500	—	—	—
Demand	27,478,784	9,767,113	3,491,364	26,271,732	27,315,027	15,430,480	7,380,314
Energy	91,831,188	15,320,503	79,948,334	156,843,392	73,402,703	8,541,107	5,578,065
Other ²	—	-11,840	2,968,566	1,446,242	64,874	10,476,826	-625,161

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	New Hampshire Exeter & Hampton Electric Co ¹	New Hampshire Granite State Electric Co ¹	New Hampshire New England Trans Corp ¹	New Hampshire New England Hydro-Trans Corp ¹	New Hampshire North Atlantic Energy Corp ¹	New Hampshire Public Service Co of NH	New Hampshire Unitil Power Corp
Investor-Owned							
Purchases (thousand kWh)	491,032	679,420	--	--	--	1,137,407	509,579
Cost (dollars)	36,794,863	43,822,059	--	--	--	52,428,593	31,475,244
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	16,272,445	21,416,925	--	--	--	--	21,054,361
Energy	9,220,017	15,162,344	--	--	--	18,827,331	10,420,883
Other ²	11,302,401	7,242,790	--	--	--	33,601,262	--
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)	--	--	--	--	--	84	--
Cost (dollars)	--	--	--	--	--	2,404	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	2,404	--
Other ²	--	--	--	--	--	--	--
Cooperative							
Purchases (thousand kWh)	--	--	--	--	--	167,271	--
Cost (dollars)	--	--	--	--	--	13,726,557	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	257,315	--
Other ²	--	--	--	--	--	13,469,242	--
Other³							
Purchases (thousand kWh)	--	717	--	--	--	4,432,328	434,778
Cost (dollars)	--	20,134	--	--	--	204,105,580	30,393,241
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	19,233,292
Energy	--	20,134	--	--	--	116,402,295	11,159,949
Other ²	--	--	--	--	--	87,703,285	--
Total							
Purchases (thousand kWh)	491,032	680,137	--	--	--	5,737,090	944,357
Cost (dollars)	36,794,863	43,842,193	--	--	--	270,263,134	61,868,485
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	16,272,445	21,416,925	--	--	--	--	40,287,653
Energy	9,220,017	15,182,478	--	--	--	135,489,345	21,580,832
Other ²	11,302,401	7,242,790	--	--	--	134,773,789	--

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (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 ¹	New Mexico Public Service Co of NM	New Mexico Texas-New Mexico Power Co ¹	New York Central Hudson Gas & Electric Corp
Investor-Owned							
Purchases (thousand kWh)	3,043,797	6,356,865	3,267,243	1,281,443	275,686	1,160,575	142,765
Cost (dollars)	129,043,386	287,980,764	73,134,490	65,902,551	12,176,746	41,003,482	3,883,241
Demand Charge Only ¹	—	21,733,271	—	—	—	—	—
Demand	—	169,874,926	—	21,108,010	7,020,000	21,495,600	—
Energy	50,249,345	96,714,792	73,134,490	44,794,541	5,151,803	14,481,680	3,883,241
Other ²	78,794,041	-142,225	—	—	4,943	5,026,202	—
Federal							
Purchases (thousand kWh)	—	—	—	—	1,885	—	—
Cost (dollars)	—	—	—	—	34,945	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	36,727	—	—
Other ²	—	—	—	—	-1,782	—	—
State and Other							
Government							
Purchases (thousand kWh)	—	—	55,839	—	618,861	—	153,232
Cost (dollars)	—	—	660,244	—	40,500,967	—	6,662,963
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	5,937,644	—	1,870,371
Energy	—	—	660,244	—	12,313,062	—	4,992,612
Other ²	—	—	—	—	22,250,261	—	—
Municipal							
Purchases (thousand kWh)	1,790	2,035,219	—	—	—	297	—
Cost (dollars)	70,793	120,713,313	—	—	-773	8,020	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	1,774	—	—	—	—	—
Energy	67,630	120,711,539	—	—	—	—	—
Other ²	3,163	—	—	—	-773	8,020	—
Cooperative							
Purchases (thousand kWh)	—	—	160,217	—	6,368	—	—
Cost (dollars)	—	—	3,605,264	—	112,321	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	3,605,264	—	114,895	—	—
Other ²	—	—	—	—	-2,574	—	—
Other³							
Purchases (thousand kWh)	1,253,712	4,000,034	9,542,926	—	-144,599	—	385,690
Cost (dollars)	64,464,459	232,004,661	306,512,893	1,166,258	-2,049,842	—	12,925,627
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	12,020,010	19,816,510	—	—	—	478,247
Energy	39,456,569	218,396,683	286,771,451	—	6,630	—	11,795,794
Other ²	25,007,890	1,587,968	-75,068	1,166,258	-2,056,472	—	651,586
Total							
Purchases (thousand kWh)	4,299,299	12,392,116	13,026,225	1,281,443	758,201	1,160,872	681,687
Cost (dollars)	193,578,638	640,698,736	383,912,691	67,068,809	50,774,364	41,011,502	23,671,851
Demand Charge Only ¹	—	21,733,271	—	—	—	—	—
Demand	—	181,696,710	19,816,510	21,108,010	12,957,644	21,495,600	2,348,618
Energy	89,773,544	435,823,014	364,171,449	44,794,541	17,623,117	14,481,680	20,671,647
Other ²	103,805,094	1,445,743	-75,068	1,166,258	20,193,603	5,034,222	651,586

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (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 ^a	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)	2,214,605	1,886,367	--	17,321	259,390	740,844	21,403
Cost (dollars)	68,678,716	50,407,802	--	766,641	6,715,201	21,422,122	899,153
Demand Charge Only ¹	9,736,814	--	--	--	--	2,525,445	--
Demand	13,118,428	--	--	--	130,102	915,013	--
Energy	45,823,474	49,998,478	--	766,641	6,585,976	17,981,664	899,153
Other ²	--	409,324	--	--	-877	--	--
Federal							
Purchases (thousand kWh)	--	196	--	--	--	--	--
Cost (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Purchases (thousand kWh)	2,994,924	378,944	--	1,689,944	6,895,592	57,271	1,123,600
Cost (dollars)	178,389,229	21,208,594	--	12,928,341	69,018,750	1,353,508	22,236,186
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	112,461,376	11,693,022	--	5,175,083	28,861,596	690,000	12,849,869
Energy	65,927,853	9,515,572	--	5,699,440	40,157,154	663,508	9,359,917
Other ²	--	--	--	2,053,818	--	--	26,400
Municipal							
Purchases (thousand kWh)	--	69	--	14	192,538	--	--
Cost (dollars)	--	5,833	--	362	6,183,393	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	99,510	--	--
Energy	--	5,833	--	362	6,083,883	--	--
Other ²	--	--	--	--	--	--	--
Cooperative							
Purchases (thousand kWh)	--	--	--	247	20,338	--	--
Cost (dollars)	--	--	--	20,974	488,112	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	20,974	488,112	--	--
Other ²	--	--	--	--	--	--	--
Other³							
Purchases (thousand kWh)	9,186,540	4,146,877	--	1,231,756	10,401,022	779,038	244,872
Cost (dollars)	353,152,598	169,484,273	--	78,576,997	572,849,406	26,193,152	6,570,886
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	59,079,255	1,517	--	--	1,399,815	211,003	--
Energy	297,808,559	169,482,756	--	78,574,888	579,799,112	26,297,765	6,413,573
Other ²	-3,735,216	--	--	2,109	-8,349,521	-315,616	157,313
Total							
Purchases (thousand kWh)	14,396,069	6,412,253	--	2,939,282	17,768,880	1,577,153	1,389,875
Cost (dollars)	600,220,543	241,106,502	--	92,293,315	655,254,862	48,968,780	29,706,225
Demand Charge Only ¹	9,736,814	--	--	--	--	2,525,445	--
Demand	184,659,059	11,694,539	--	5,175,083	30,491,023	1,818,016	12,849,869
Energy	409,559,866	229,002,839	--	85,062,305	633,114,237	44,942,935	16,672,643
Other ²	-3,735,216	409,324	--	2,055,927	-8,350,398	-315,616	183,713

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	North Carolina Carolina Power & Light Co	North Carolina Cascade Power Company ^a	North Carolina Duke Power Co	North Carolina Nantahala Power & Light Co	North Carolina Yadkin Inc ^a	North Dakota MDU Resources Group Inc	Ohio AEP Generating Co
Investor-Owned							
Purchases (thousand kWh)	2,914,599	--	400,972	566,554	803,425	222,465	98
Cost (dollars)	86,669,183	--	19,847,295	22,556,793	15,344,317	6,111,942	1,164
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	34,444,659	--	11,057,504	13,861,810	67,140	2,542,159	--
Energy	52,257,602	--	8,788,727	8,694,983	15,277,177	3,569,783	1,164
Other ²	-33,078	--	1,064	--	--	--	--
Federal							
Purchases (thousand kWh)	729,372	--	--	109,179	--	26,392	--
Cost (dollars)	14,890,502	--	--	10,016,762	--	288,532	--
Demand Charge Only ¹	--	--	--	758,545	--	--	--
Demand	2,011,608	--	--	7,220,448	--	--	--
Energy	12,878,894	--	--	2,037,769	--	170,464	--
Other ²	--	--	--	--	--	98,068	--
State and Other							
Government							
Purchases (thousand kWh)	459,637	--	4,868,599	--	--	13,715	--
Cost (dollars)	40,596,416	--	249,275,346	--	--	146,693	--
Demand Charge Only ¹	--	--	-245,891	--	--	--	--
Demand	35,421,068	--	193,010,938	--	--	--	--
Energy	5,568,175	--	54,152,619	--	--	146,693	--
Other ²	-392,827	--	2,357,680	--	--	--	--
Municipal							
Purchases (thousand kWh)	3,110	--	1,617,070	--	--	4,050	--
Cost (dollars)	160,298	--	82,038,164	--	--	42,397	--
Demand Charge Only ¹	--	--	-61,473	--	--	--	--
Demand	32,153	--	64,086,143	--	--	--	--
Energy	128,145	--	18,013,494	--	--	42,397	--
Other ²	--	--	--	--	--	--	--
Cooperative							
Purchases (thousand kWh)	--	--	3,040,504	--	--	338,954	--
Cost (dollars)	--	--	184,182,878	--	--	10,319,245	--
Demand Charge Only ¹	--	--	-266,382	--	--	--	--
Demand	--	--	152,445,950	--	--	6,972,130	--
Energy	--	--	31,887,504	--	--	3,331,084	--
Other ²	--	--	95,806	--	--	16,031	--
Other³							
Purchases (thousand kWh)	3,244,982	--	553,801	--	--	--	--
Cost (dollars)	197,924,728	--	22,035,368	611,806	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	36,086,185	--	--	--	--	--	--
Energy	161,785,422	--	22,035,368	--	--	--	--
Other ²	53,121	--	--	611,806	--	--	--
Total							
Purchases (thousand kWh)	7,351,700	--	10,480,946	675,733	803,425	605,576	98
Cost (dollars)	340,241,127	--	557,359,051	33,185,361	15,344,317	16,888,809	1,164
Demand Charge Only ¹	--	--	-573,746	758,545	--	--	--
Demand	107,995,673	--	420,600,535	21,082,258	67,140	9,514,289	--
Energy	232,618,238	--	134,877,712	10,732,752	15,277,177	7,260,421	1,164
Other ²	-372,784	--	2,454,550	611,806	--	114,099	--

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (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 ^a	Ohio Ohio Edison Co	Ohio Ohio Power Co
Investor-Owned							
Purchases (thousand kWh)	1,176,456	1,613,647	396,181	1,480,710	--	1,624,844	1,456,714
Cost (dollars)	17,365,722	129,787,260	6,398,122	25,185,732	--	38,527,134	26,171,960
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	2,410,590	13,526,086	27,917	4,455,750	--	8,900,953	1,494,780
Energy	11,823,161	116,183,211	6,370,205	20,723,626	--	29,553,764	24,677,180
Other ²	3,131,971	77,963	--	6,356	--	72,417	--
Federal							
Purchases (thousand kWh)	210	--	2,681	--	--	--	4,629
Cost (dollars)	3,045	--	56,979	--	--	--	98,323
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	2,268	--	56,979	--	--	--	98,323
Other ²	777	--	--	--	--	--	--
State and Other Government							
Purchases (thousand kWh)	--	--	--	33,749	--	--	--
Cost (dollars)	--	--	--	1,636,680	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	1,636,680	--	--	--
Other ²	--	--	--	--	--	--	--
Municipal							
Purchases (thousand kWh)	--	61,674	17,938	--	--	--	30,385
Cost (dollars)	--	455,815	243,084	--	--	--	410,993
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	423,692	243,084	--	--	--	410,993
Other ²	--	32,123	--	--	--	--	--
Cooperative							
Purchases (thousand kWh)	307,890	--	11,726	--	--	--	26,268
Cost (dollars)	4,747,058	--	282,220	--	--	--	5,276,021
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	28,440	--	--	--	--	--	--
Energy	3,397,980	--	282,220	--	--	--	5,276,021
Other ²	1,320,638	--	--	--	--	--	--
Other^a							
Purchases (thousand kWh)	--	50	3,151,310	90	--	--	1,854,331
Cost (dollars)	--	248	130,737,342	--	--	--	29,099,993
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	32,194	--	--	--	--
Energy	--	248	130,705,148	--	--	--	29,099,993
Other ²	--	--	--	--	--	--	--
Total							
Purchases (thousand kWh)	1,484,556	1,675,371	3,579,836	1,514,549	--	1,624,844	3,372,327
Cost (dollars)	22,115,825	130,243,323	137,717,747	26,822,412	--	38,527,134	61,057,290
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	2,439,030	13,526,086	60,111	4,455,750	--	8,900,953	1,494,780
Energy	15,223,409	116,607,151	137,657,636	22,360,306	--	29,553,764	59,562,510
Other ²	4,453,386	110,086	--	6,356	--	72,417	--

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	Ohio Ohio Valley Electric Corp	Ohio Toledo Edison Co	Oklahoma Oklahoma Gas & Electric Co	Oklahoma Public Service Co of Oklahoma	Oregon PacifiCorp	Oregon Portland General Electric Co	Pennsylvania Citizens Electric Co ⁴
Investor-Owned							
Purchases (thousand kWh)	9,254,087	186,614	1,300	790,795	1,842,629	1,236,716	152,757
Cost (dollars)	141,779,833	3,067,525	31,200	15,143,662	47,177,823	36,900,241	6,813,082
Demand Charge Only ¹	--	--	--	--	219,355	7,968,000	--
Demand	--	8,912	--	--	8,249,480	731,936	1,581,595
Energy	--	3,004,969	31,200	15,143,662	37,225,804	28,200,305	5,561,400
Other ²	141,779,833	53,644	--	--	1,483,184	--	-329,913
Federal							
Purchases (thousand kWh)	--	--	--	--	384,173	323,084	--
Cost (dollars)	--	--	--	--	71,738,582	-57,699,472	--
Demand Charge Only ¹	--	--	--	--	66,793,614	2,800,000	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	4,944,968	5,535,043	--
Other ²	--	--	--	--	--	-66,034,515	--
State and Other Government							
Purchases (thousand kWh)	--	--	--	76,942	3,127,811	4,439,861	--
Cost (dollars)	--	--	--	1,267,476	52,366,896	82,724,127	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	786,014	--	--
Energy	--	--	--	1,267,476	13,926,754	67,620,915	--
Other ²	--	--	--	--	37,654,128	15,103,212	--
Municipal							
Purchases (thousand kWh)	--	--	--	--	481,150	452,321	--
Cost (dollars)	--	-98,892	--	--	30,052,807	12,563,063	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	20,989,313	--	--
Energy	--	--	--	--	9,067,229	12,563,063	--
Other ²	--	-98,892	--	--	-3,935	--	--
Cooperative							
Purchases (thousand kWh)	--	--	30,795	61,188	1,544,324	2,250	--
Cost (dollars)	--	--	1,090,162	1,113,720	37,503,480	62,616	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	412,029	--	8,166,000	--	--
Energy	--	--	678,133	1,114,062	29,337,480	50,622	--
Other ²	--	--	--	-342	--	11,994	--
Other³							
Purchases (thousand kWh)	--	9,240	2,692,274	1,047,396	770,132	1,632,498	--
Cost (dollars)	--	386,489	181,108,566	25,545,327	35,864,122	35,265,601	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	64,839	--	--	7,614,296	2,154,732	--
Energy	--	321,650	75,121,913	19,374,899	26,819,604	30,364,143	--
Other ²	--	--	105,986,653	6,170,428	1,430,222	2,746,726	--
Total							
Purchases (thousand kWh)	9,254,087	195,854	2,724,369	1,976,321	8,150,219	8,086,730	152,757
Cost (dollars)	141,779,833	3,355,122	182,229,928	43,070,385	274,703,510	109,816,176	6,813,082
Demand Charge Only ¹	--	--	--	--	67,012,969	10,768,000	--
Demand	--	73,751	412,029	--	45,805,103	2,866,668	1,581,595
Energy	--	3,326,619	75,831,246	36,900,299	121,321,839	144,334,091	5,561,400
Other ²	141,779,833	-45,248	105,986,653	6,170,086	40,563,599	-48,172,583	-329,913

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	Pennsylvania Duquesne Light Co	Pennsylvania Metropolitan Edison Co	Pennsylvania Electric Co	Pennsylvania Power & Light Co	Pennsylvania Power Co	Pennsylvania Philadelphia Electric Co	Pennsylvania Pike County Light & Power Co ¹
Investor-Owned							
Purchases (thousand kWh)	417,113	2,582,042	1,194,271	1,360,534	797,430	1,669,747	47,326
Cost (dollars)	6,703,065	92,788,286	31,176,115	74,992,707	14,230,182	19,097,581	2,367,792
Demand Charge Only ¹	—	13,352,759	3,710,573	—	—	—	—
Demand	—	35,798,104	8,094,157	14,400	—	—	668,216
Energy	6,703,065	43,638,423	19,280,464	65,545,333	14,230,182	44,955	1,699,576
Other ²	—	—	90,921	9,432,974	—	19,052,626	—
Federal							
Purchases (thousand kWh)	—	—	—	—	—	—	—
Cost (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	—	218,617	14,626	28,874	—	40,484	—
Cost (dollars)	—	12,157,341	173,907	468,375	—	622,570	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	118,078	118,405	—	—	—	—
Energy	—	12,039,263	55,502	468,375	—	622,570	—
Other ²	—	—	—	—	—	—	—
Municipal							
Purchases (thousand kWh)	18,280	1,684	244	30,657	—	—	—
Cost (dollars)	1,096,800	103,607	10,942	1,877,448	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	1,096,800	103,607	10,942	1,877,448	—	—	—
Other ²	—	—	—	—	—	—	—
Cooperative							
Purchases (thousand kWh)	—	—	28,593	35,207	—	—	—
Cost (dollars)	—	—	299,437	666,931	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	299,437	666,931	—	—	—
Other ²	—	—	—	—	—	—	—
Other³							
Purchases (thousand kWh)	156,170	1,870,615	1,942,391	3,891,770	771	8,633,305	—
Cost (dollars)	3,481,036	82,093,374	96,750,378	197,493,440	12,151	194,459,288	101,389
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	1,167,267	9,852,329	2,760,093	—	24,056,495	—
Energy	3,481,036	80,924,118	87,699,156	194,522,917	12,151	170,311,088	—
Other ²	—	1,989	-801,107	210,430	—	91,705	101,389
Total							
Purchases (thousand kWh)	591,563	4,672,958	3,180,125	5,347,042	798,201	10,343,516	47,326
Cost (dollars)	11,280,901	187,143,608	128,410,779	275,498,901	14,242,333	214,179,439	2,469,181
Demand Charge Only ¹	—	13,352,759	3,710,573	—	—	—	—
Demand	—	37,083,449	18,064,891	2,774,493	—	24,056,495	668,216
Energy	11,280,901	136,705,411	107,345,501	263,081,004	14,242,333	170,978,613	1,699,576
Other ²	—	1,989	-710,186	9,643,404	—	19,144,331	101,389

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	Pennsylvania Safe Harbor Water Power Corp ¹	Pennsylvania Susquehanna Electric Co ¹	Pennsylvania UGI Corp	Pennsylvania West Penn Power Co	Pennsylvania York Haven Power Co ¹	Rhode Island Blackstone Valley Electric Co ¹	Rhode Island Narragansett Electric Co
Investor-Owned							
Purchases (thousand kWh)	--	--	414,564	7,067,268	--	1,274,074	4,730,880
Cost (dollars)	--	--	24,251,096	207,380,410	--	95,043,530	286,384,287
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	13,581,742	61,079,398	--	74,264,316	140,483,483
Energy	--	--	10,669,354	102,485,289	--	17,781,714	94,456,731
Other ²	--	--	--	43,835,723	--	2,997,500	51,444,073
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)	--	--	--	--	--	--	--
Cost (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
Cooperative							
Purchases (thousand kWh)	--	--	--	--	--	--	--
Cost (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
Other³							
Purchases (thousand kWh)	--	--	--	1,060,733	--	1,755	1,302
Cost (dollars)	--	--	--	58,554,434	--	29,453	99,293
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	36,449,252	--	--	--
Energy	--	--	--	20,105,182	--	29,453	99,293
Other ²	--	--	--	--	--	--	--
Total							
Purchases (thousand kWh)	--	--	414,564	8,128,001	--	1,275,829	4,731,982
Cost (dollars)	--	--	24,251,096	263,934,844	--	95,072,983	286,483,580
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	13,581,742	97,528,650	--	74,264,316	140,483,483
Energy	--	--	10,669,354	122,570,471	--	17,811,167	94,556,024
Other ²	--	--	--	43,835,723	--	2,997,500	51,444,073

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	Rhode Island Newport Electric Corp	Rhode Island Ocean State Power, 2 ^s	Rhode Island Ocean State Power Co ^s	South Carolina Lockhart Power Co	South Carolina South Carolina Electric & Gas Co	South Carolina South Carolina Generating Co Inc ^s	South Dakota Black Hills Corp
Investor-Owned							
Purchases (thousand kWh)	557,661	--	--	229,752	3,019,127	--	368,222
Cost (dollars)	33,935,806	--	--	11,350,311	78,353,624	--	23,349,774
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	27,303,519	--	--	6,044,252	--	--	18,698,489
Energy	5,735,887	--	--	6,441,453	78,353,624	--	4,842,183
Other ²	896,400	--	--	-1,135,394	--	--	9,102
Federal							
Purchases (thousand kWh)	--	--	--	--	--	--	--
Cost (dollars)	--	--	--	--	--	--	87,232
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	87,232
State and Other Government							
Purchases (thousand kWh)	--	--	--	--	18,828	--	17,974
Cost (dollars)	--	--	--	--	365,199	--	462,765
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	365,199	--	462,765
Other ²	--	--	--	--	--	--	--
Municipal							
Purchases (thousand kWh)	23,828	--	--	--	--	--	--
Cost (dollars)	3,911,380	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	3,064,872	--	--	--	--	--	--
Energy	846,508	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
Cooperative							
Purchases (thousand kWh)	--	--	--	--	25	--	10,345
Cost (dollars)	--	--	--	--	3,609	--	213,402
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	3,609	--	213,402
Other ²	--	--	--	--	--	--	--
Other³							
Purchases (thousand kWh)	86,036	--	--	3,710	61,765	--	--
Cost (dollars)	2,558,565	--	--	142,308	1,708,523	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	1,597,797	--	--	--	--	--	--
Energy	1,455,268	--	--	85,455	1,708,523	--	--
Other ²	-494,500	--	--	56,853	--	--	--
Total							
Purchases (thousand kWh)	667,525	--	--	233,462	3,099,745	--	396,541
Cost (dollars)	40,405,751	--	--	11,492,619	80,430,955	--	24,113,173
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	31,966,188	--	--	6,044,252	--	--	18,698,489
Energy	8,037,663	--	--	6,526,908	80,430,955	--	5,318,350
Other ²	401,900	--	--	-1,078,541	--	--	96,334

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	South Dakota Northwestern Public Service Co	Tennessee Kingsport Power Co ¹	Tennessee Tapoco Inc ²	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)	3,079	1,871,580	--	--	606,015	246,830	191,217
Cost (dollars)	50,880	58,909,992	--	--	15,856,253	18,980,361	3,552,762
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	24,910,907	--	--	--	--	--
Energy	50,880	33,228,229	--	--	15,840,308	4,608,999	3,552,762
Other ²	--	770,856	--	--	15,945	14,371,362	--
Federal							
Purchases (thousand kWh)	4,119	--	--	80,080	--	--	--
Cost (dollars)	64,404	--	--	734,370	24,707	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	64,404	--	--	734,370	--	--	--
Other ²	--	--	--	--	24,707	--	--
State and Other							
Government							
Purchases (thousand kWh)	25,359	--	--	37,200	18,180	677,712	251,465
Cost (dollars)	348,739	--	--	528,360	398,017	19,658,886	3,919,159
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	348,739	--	--	528,360	390,795	8,459,369	3,919,159
Other ²	--	--	--	--	7,222	11,199,517	--
Municipal							
Purchases (thousand kWh)	585	--	--	--	--	23	54,604
Cost (dollars)	7,197	--	--	--	3,923	805	898,671
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	7,197	--	--	--	--	805	898,671
Other ²	--	--	--	--	3,923	--	--
Cooperative							
Purchases (thousand kWh)	27,181	--	--	--	29,621	493,690	14,376
Cost (dollars)	370,136	--	--	--	575,570	8,065,993	185,486
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	2,584	--	--	--	--	--	--
Energy	367,552	--	--	--	556,889	8,069,629	185,496
Other ²	--	--	--	--	18,681	-3,636	--
Other³							
Purchases (thousand kWh)	--	--	--	926,967	-2,426	3,517,214	11,026,310
Cost (dollars)	--	--	--	15,894,824	--	90,010,258	477,857,681
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	193,351,855
Energy	--	--	--	15,631,974	--	86,014,970	284,505,826
Other ²	--	--	--	262,850	--	3,995,288	--
Total							
Purchases (thousand kWh)	60,323	1,871,580	--	1,044,247	651,390	4,935,469	11,537,972
Cost (dollars)	841,356	58,909,992	--	17,157,554	16,858,470	136,716,303	486,413,759
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	2,584	24,910,907	--	--	--	--	193,351,855
Energy	838,772	33,228,229	--	16,894,704	16,787,992	107,153,772	293,061,904
Other ²	--	770,856	--	262,850	70,478	29,562,531	--

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source 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 ^a
Investor-Owned							
Purchases (thousand kWh)	1,043,613	9,845	124,702	1,851,113	2,059	2,814,021	57,844
Cost (dollars)	47,287,068	184,775	3,271,891	85,627,318	121,056	112,875,206	2,874,904
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	23,826,561	—	—	47,877,595	—	78,358,722	1,394,509
Energy	3,764,209	184,775	2,517,410	5,824,573	36,450	34,977,357	1,473,195
Other ²	19,696,298	—	754,281	31,925,150	84,606	-480,873	7,200
Federal							
Purchases (thousand kWh)	—	11	—	—	—	—	—
Cost (dollars)	—	188	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	188	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Purchases (thousand kWh)	—	1,182	98,606	—	72,080	531,695	1,077
Cost (dollars)	—	29,357	1,569,379	—	925,863	14,896,716	124,225
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	5,759,875	—
Energy	—	29,357	1,558,079	—	925,730	9,050,271	124,225
Other ²	—	—	11,300	—	133	86,570	—
Municipal							
Purchases (thousand kWh)	—	251	45,301	1,858	4,682	15,079	—
Cost (dollars)	—	4,338	702,063	978,376	46,163	694,138	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	937,500	—	304,184	—
Energy	—	4,338	670,850	40,876	45,961	389,954	—
Other ²	—	—	31,413	—	202	—	—
Cooperative							
Purchases (thousand kWh)	—	92	71,429	—	1,735	1,923	514
Cost (dollars)	—	6,996	801,565	—	22,618	78,818	10,650
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	24,365	—
Energy	—	6,996	930,311	—	22,590	54,453	10,650
Other ²	—	—	-128,746	—	28	—	—
Other^a							
Purchases (thousand kWh)	-34	263,696	11,076,464	1,253,186	108,265	77,931	165,731
Cost (dollars)	5,074	4,426,977	491,210,572	45,862,931	1,970,678	7,507,670	9,481,497
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	2,537	—	240,341,398	32,184,884	—	—	4,973,722
Energy	406	4,432,227	250,847,445	1,524,555	1,970,678	7,382,835	4,507,775
Other ²	2,131	-5,250	21,729	12,153,492	—	124,835	—
Total							
Purchases (thousand kWh)	1,043,579	274,877	11,416,502	3,106,157	188,821	3,440,649	224,966
Cost (dollars)	47,292,142	4,652,631	497,555,270	132,466,625	3,086,378	136,052,548	12,491,276
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	23,829,098	—	240,341,398	80,999,979	—	84,447,146	6,368,231
Energy	3,764,615	4,657,881	256,523,895	7,390,004	3,001,409	51,854,870	6,115,845
Other ²	19,698,429	-5,250	689,977	44,078,642	84,969	-249,468	7,200

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	Vermont Green Mountain Power Corp	Vermont Vermont Electric Power Co Inc	Vermont Vermont Electric Trans Co ^a	Vermont Vermont Marble Co ^a	Vermont Vermont Yankee Nuclear Power Corp ^a	Virginia Appalachian Power Co	Virginia Virginia Electric Power Co
Investor-Owned							
Purchases (thousand kWh)	1,005,854	858,517	--	--	--	1,302,473	2,892,488
Cost (dollars)	39,471,861	30,341,819	--	--	--	20,381,208	114,914,087
Demand Charge Only ¹	--	--	--	--	--	--	5,520,000
Demand	29,895,545	18,309,787	--	--	--	3,105,601	58,921,928
Energy	11,098,425	11,244,306	--	--	--	17,275,607	50,472,159
Other ²	-1,522,109	787,726	--	--	--	--	--
Federal							
Purchases (thousand kWh)	--	--	--	--	--	5,339	--
Cost (dollars)	--	--	--	--	--	113,262	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	113,262	--
Other ²	--	--	--	--	--	--	--
State and Other Government							
Purchases (thousand kWh)	41,599	--	--	--	--	--	1,979
Cost (dollars)	1,800,755	--	--	--	--	--	128,926
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	798,201	--	--	--	--	--	7,817
Energy	1,002,554	--	--	--	--	--	121,109
Other ²	--	--	--	--	--	--	--
Municipal							
Purchases (thousand kWh)	54,783	--	--	--	--	36,190	8,816
Cost (dollars)	2,959,744	--	--	--	--	472,515	635,003
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	2,047,925	--	--	--	--	--	420,467
Energy	911,819	--	--	--	--	472,515	214,536
Other ²	--	--	--	--	--	--	--
Cooperative							
Purchases (thousand kWh)	28,652	--	--	--	--	28,692	2,112,282
Cost (dollars)	718,880	--	--	--	--	560,751	92,447,291
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	391,290	--	--	--	--	--	34,151,591
Energy	327,590	--	--	--	--	560,751	58,295,700
Other ²	--	--	--	--	--	--	--
Other³							
Purchases (thousand kWh)	869,731	--	--	--	--	10,067,552	7,029,965
Cost (dollars)	26,156,303	--	--	--	--	264,911,528	557,852,627
Demand Charge Only ¹	5,138	--	--	--	--	--	-21,000
Demand	5,955,899	--	--	--	--	--	352,520,931
Energy	20,195,266	--	--	--	--	264,911,528	205,352,896
Other ²	--	--	--	--	--	--	--
Total							
Purchases (thousand kWh)	2,000,419	853,517	--	--	--	11,441,246	12,045,530
Cost (dollars)	71,107,543	30,341,819	--	--	--	286,439,264	765,978,134
Demand Charge Only ¹	5,138	--	--	--	--	--	5,499,000
Demand	39,088,860	18,309,787	--	--	--	3,105,601	446,022,734
Energy	33,535,654	11,244,306	--	--	--	283,333,663	314,456,400
Other ²	-1,522,109	787,726	--	--	--	--	--

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	Washington Puget Sound Power & Light Co	Washington Washington Water Power Co	West Virginia Kanawha Valley Power Co ^a	West Virginia Monongahela Power Co	West Virginia UtilCorp United Inc ^a	West Virginia Wheeling Power Co ^a	Wisconsin Consolidated Water Power Co
Investor-Owned							
Purchases (thousand kWh)	2,570,645	914,746	--	3,939,415	379,960	1,861,253	1,013,146
Cost (dollars)	82,665,434	18,912,330	--	115,542,450	13,456,215	62,095,484	27,517,787
Demand Charge Only ¹	300,000	300,000	--	--	--	--	--
Demand	35,023,784	425,000	--	33,598,194	6,473,001	18,634,070	8,351,816
Energy	47,341,670	18,187,330	--	57,036,887	7,274,300	43,461,414	19,165,971
Other ²	--	--	--	24,907,369	-291,086	--	--
Federal							
Purchases (thousand kWh)	2,709,624	984,570	--	--	--	--	--
Cost (dollars)	77,007,988	36,082,043	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	558,084	--	--	--	--	--	--
Energy	72,711,415	35,925,086	--	--	--	--	--
Other ²	3,740,489	156,957	--	--	--	--	--
State and Other							
Government							
Purchases (thousand kWh)	7,000,784	1,512,649	--	--	--	--	--
Cost (dollars)	79,714,042	12,530,254	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	609,750	--	--	--	--	--	--
Energy	79,104,292	12,530,254	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
Municipal							
Purchases (thousand kWh)	275,301	111,167	--	268,361	--	--	--
Cost (dollars)	5,997,344	2,726,738	--	20,367,826	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	9,901,903	--	--	--
Energy	5,997,344	2,726,738	--	10,465,923	--	--	--
Other ²	--	--	--	--	--	--	--
Cooperative							
Purchases (thousand kWh)	--	--	--	--	--	--	--
Cost (dollars)	--	2,771	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	2,771	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
Other³							
Purchases (thousand kWh)	776,658	727,220	--	485,052	--	--	--
Cost (dollars)	-8,029,611	20,322,414	--	17,097,765	--	-4,029,687	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	238,699	--	--	10,337,096	--	--	--
Energy	45,026,932	20,280,162	--	6,760,669	--	--	--
Other ²	-53,295,242	42,252	--	--	--	-4,029,687	--
Total							
Purchases (thousand kWh)	13,333,012	4,250,352	--	4,692,828	379,960	1,861,253	1,013,146
Cost (dollars)	237,355,197	90,576,550	--	153,008,041	13,456,215	58,065,797	27,517,787
Demand Charge Only ¹	300,000	300,000	--	--	--	--	--
Demand	36,428,297	425,000	--	53,837,193	6,473,001	18,634,070	8,351,816
Energy	250,181,653	89,652,341	--	74,263,479	7,274,300	43,461,414	19,165,971
Other ²	-49,554,753	199,209	--	24,907,369	-291,086	-4,029,687	--

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	Wisconsin Madison Gas & Electric Co	Wisconsin North Central Power Co Inc ^a	Wisconsin Northern States Power Co ^b	Wisconsin Northwestern Wisconsin Electric Co	Wisconsin Pioneer Power & Light Co	Wisconsin South Beloit Water Gas & Elec Co	Wisconsin Superior Water Light & Power Co ^c
Investor-Owned							
Purchases (thousand kWh)	266,050	14,076	--	123,023	22,338	167,210	540,199
Cost (dollars)	5,236,964	449,050	--	3,391,545	720,722	3,640,270	17,859,363
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	1,505,000	183,000	--	880,000	476,083	824,523	9,708,662
Energy	3,731,964	266,050	--	2,511,545	301,974	2,815,747	8,150,701
Other ²	--	--	--	--	-57,335	--	--
Federal							
Purchases (thousand kWh)	--	--	--	--	--	--	--
Cost (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Purchases (thousand kWh)	49,143	--	--	--	--	--	--
Cost (dollars)	1,030,967	--	--	--	--	--	--
Demand Charge Only ¹	-29,000	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	1,059,967	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
Municipal							
Purchases (thousand kWh)	--	--	--	--	--	--	--
Cost (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
Cooperative							
Purchases (thousand kWh)	3,905	--	--	--	--	--	--
Cost (dollars)	80,434	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	80,434	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
Other³							
Purchases (thousand kWh)	--	--	--	--	--	--	--
Cost (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
Total							
Purchases (thousand kWh)	319,098	14,076	--	123,023	22,338	167,210	540,199
Cost (dollars)	6,348,365	449,050	--	3,391,545	720,722	3,640,270	17,859,363
Demand Charge Only ¹	-29,000	--	--	--	--	--	--
Demand	1,505,000	183,000	--	880,000	476,083	824,523	9,708,662
Energy	4,872,365	266,050	--	2,511,545	301,974	2,815,747	8,150,701
Other ²	--	--	--	--	-57,335	--	--

See notes and footnotes at end of table.

Table 19. Electricity Purchases by Investor-Owned Utilities, by State, 1992 (Continued)

Source of Electricity by Ownership Class	Wisconsin Wisconsin Electric Power Co	Wisconsin Wisconsin Power & Light Co	Wisconsin Wisconsin Public Service Corp	Wisconsin Wisconsin River Power Co ³	Wyoming Cheyenne Light Fuel & Power Co ⁴
Investor-Owned					
Purchases (thousand kWh)	2,137,733	961,428	1,597,471	--	715,496
Cost (dollars)	54,026,712	15,118,523	28,273,996	--	20,748,769
Demand Charge Only ¹	716,667	--	1,559,999	--	--
Demand	21,377,085	23,862	--	--	6,991,626
Energy	31,924,351	12,308,411	26,713,997	--	13,745,146
Other ²	8,609	2,786,250	--	--	11,997
Federal					
Purchases (thousand kWh)	--	--	--	--	--
Cost (dollars)	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--
Demand	--	--	--	--	--
Energy	--	--	--	--	--
Other ²	--	--	--	--	--
State and Other Government					
Purchases (thousand kWh)	2,525	1,775	2,460	--	--
Cost (dollars)	42,156	29,210	41,256	--	--
Demand Charge Only ¹	--	--	--	--	--
Demand	--	--	--	--	--
Energy	42,156	29,210	41,256	--	--
Other ²	--	--	--	--	--
Municipal					
Purchases (thousand kWh)	15,501	--	--	--	--
Cost (dollars)	854,851	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--
Demand	409,440	--	--	--	--
Energy	445,411	--	--	--	--
Other ²	--	--	--	--	--
Cooperative					
Purchases (thousand kWh)	318,188	165,015	--	--	--
Cost (dollars)	6,185,858	9,273,795	--	--	--
Demand Charge Only ¹	--	--	--	--	--
Demand	1,125,000	--	--	--	--
Energy	5,060,858	3,191,795	--	--	--
Other ²	--	6,082,000	--	--	--
Other³					
Purchases (thousand kWh)	88,509	2,981	24,771	--	--
Cost (dollars)	2,635,131	139,096	1,278,353	--	--
Demand Charge Only ¹	--	--	--	--	--
Demand	--	--	500,000	--	--
Energy	2,635,131	139,096	778,353	--	--
Other ²	--	--	--	--	--
Total					
Purchases (thousand kWh)	2,562,456	1,131,199	1,624,702	--	715,496
Cost (dollars)	63,744,708	24,560,624	29,593,605	--	20,748,769
Demand Charge Only ¹	716,667	--	1,559,999	--	--
Demand	22,911,525	23,862	500,000	--	6,991,626
Energy	40,107,907	15,868,512	27,533,606	--	13,745,146
Other ²	8,609	8,868,250	--	--	11,997

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 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, 1992

Purchaser of Electricity by Ownership Class	Alabama Alabama Power Co	Alabama Southern Electric Generating Co ¹	Alaska Alaska Electric Light & Power ¹	Arizona Ajo Improvement Co ¹	Arizona Arizona Public Service Co	Arizona Century Power Corp ¹	Arizona Citizens Utilities Co
Investor-Owned							
Sales (thousand kWh)	4,894,804	5,328,171	--	--	3,289,330	3,047,598	--
Revenue (dollars)	263,143,122	146,545,420	--	--	93,085,650	177,863,284	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	30,941,836	101,361,938	--
Energy	263,143,122	146,545,420	--	--	62,143,814	76,398,273	--
Other ²	--	--	--	--	--	103,073	--
Federal							
Sales (thousand kWh)	3,324	--	--	--	251,941	--	--
Revenue (dollars)	87,424	--	--	--	10,289,501	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	5,013,044	--	--
Energy	87,424	--	--	--	5,276,457	--	--
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Sales (thousand kWh)	16,903	--	--	--	745,226	32,104	--
Revenue (dollars)	461,649	--	--	--	28,405,130	1,303,441	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	17,453,253	566,186	--
Energy	461,649	--	--	--	10,951,877	737,255	--
Other ²	--	--	--	--	--	--	--
Municipal							
Sales (thousand kWh)	3,128,199	--	--	--	205,613	--	--
Revenue (dollars)	131,913,572	--	--	--	3,437,089	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	46,345,542	--	--	--	204,990	--	--
Energy	88,990,637	--	--	--	3,232,099	--	--
Other ²	-3,422,607	--	--	--	--	--	--
Cooperative							
Sales (thousand kWh)	338,563	--	--	--	30,064	--	--
Revenue (dollars)	12,385,065	--	--	--	613,595	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	6,020,705	--	--	--	164,205	--	--
Energy	7,310,872	--	--	--	449,390	--	--
Other ²	-946,512	--	--	--	--	--	--
Other³							
Sales (thousand kWh)	7,211,675	--	--	--	5,998	--	1,214
Revenue (dollars)	157,887,424	--	--	--	279,300	--	115,303
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	79,100	--	61,398
Energy	127,680,253	--	--	--	200,200	--	53,905
Other ²	30,207,171	--	--	--	--	--	--
Total							
Sales (thousand kWh)	15,593,268	5,328,171	--	--	4,528,172	3,079,702	1,214
Revenue (dollars)	565,878,256	146,545,420	--	--	136,110,265	179,166,725	115,303
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	52,366,247	--	--	--	53,856,428	101,928,124	61,398
Energy	487,673,957	146,545,420	--	--	82,253,837	77,135,528	53,905
Other ²	25,838,052	--	--	--	--	103,073	--

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (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)	1,326,064	1,155,366	2,599,914	167,515	273,307	776,387	1,076,969
Revenue (dollars)	34,766,067	32,172,609	47,364,684	5,250,690	3,986,454	19,524,027	37,282,333
Demand Charge Only ¹	--	--	--	--	300,000	--	--
Demand	9,186,000	16,468,405	--	1,252,933	422,220	2,736,210	18,516,400
Energy	25,580,067	15,704,204	47,364,684	3,812,799	3,258,234	15,191,783	21,456,447
Other ²	--	--	--	184,968	--	1,596,034	-2,690,514
Federal							
Sales (thousand kWh)	62,006	--	17,000	5,600	17,247	146,201	44,189
Revenue (dollars)	1,370,914	--	1,287,267	100,800	324,882	2,785,456	819,396
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	951,532	--	--	--	--
Energy	1,370,914	--	335,735	100,800	324,882	2,785,456	819,396
Other ²	--	--	--	--	--	--	--
State and Other Government							
Sales (thousand kWh)	502,865	--	--	2,290,967	198,929	819,047	3,362
Revenue (dollars)	28,512,007	185,920	--	125,488,233	6,638,464	42,879,941	56,768
Demand Charge Only ¹	--	185,920	--	--	--	--	--
Demand	18,000,000	--	--	51,895,281	1,655,807	18,473,230	--
Energy	10,512,007	--	--	73,312,314	4,982,657	23,668,757	56,768
Other ²	--	--	--	280,638	--	737,954	--
Municipal							
Sales (thousand kWh)	200,994	1,358,019	--	1,170,020	132,077	1,510,247	68,874
Revenue (dollars)	3,639,364	68,778,829	--	54,714,954	4,054,997	57,995,842	2,226,755
Demand Charge Only ¹	--	138,705	--	--	--	--	--
Demand	--	19,390,160	--	24,849,705	854,678	23,419,670	854,523
Energy	3,639,364	49,249,964	--	38,886,691	3,200,319	38,754,830	1,486,440
Other ²	--	--	--	-9,021,442	--	-4,178,658	-114,208
Cooperative							
Sales (thousand kWh)	18,766	1,536,913	145,275	--	--	--	961,381
Revenue (dollars)	419,099	44,483,789	7,805,058	--	--	--	39,904,976
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	13,739,354	3,480,704	--	--	--	23,221,091
Energy	419,099	30,744,435	4,324,354	--	--	--	19,851,479
Other ²	--	--	--	--	--	--	-3,167,594
Other³							
Sales (thousand kWh)	10,550	11,363,070	--	--	25,311	--	--
Revenue (dollars)	204,750	238,548,490	--	--	788,861	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	14,600	--	--
Energy	204,750	238,548,490	--	--	774,261	--	--
Other ²	--	--	--	--	--	--	--
Total							
Sales (thousand kWh)	2,121,245	15,413,368	2,762,189	3,634,102	646,871	3,252,182	2,154,775
Revenue (dollars)	68,912,201	384,169,637	56,457,009	185,554,677	15,793,658	123,185,266	80,290,228
Demand Charge Only ¹	--	324,625	--	--	300,000	--	--
Demand	27,186,000	49,597,919	4,432,236	77,997,919	2,953,305	44,629,110	42,592,014
Energy	41,726,201	334,247,093	52,024,773	116,112,594	12,540,353	80,400,826	43,670,530
Other ²	--	--	--	-8,555,836	--	-1,844,670	-5,972,316

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	Colorado Utilicorp United Inc	Connecticut Connecticut Light & Power Co	Connecticut Connecticut Yankee Atomic Power Co ^a	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)	15,238	2,988,937	3,891,764	1,244,040	595	7,577	580,931
Revenue (dollars)	317,404	181,159,329	206,834,516	46,242,383	29,577	339,689	25,581,250
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	19,445,536	--	169,766	179,046
Energy	317,404	50,704,566	31,366,495	26,796,847	29,577	169,923	25,324,793
Other ²	--	130,454,763	175,468,021	--	--	--	77,411
Federal							
Sales (thousand kWh)	--	--	--	--	--	--	--
Revenue (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Sales (thousand kWh)	--	1,259,840	--	50,650	--	--	11,915
Revenue (dollars)	--	54,101,841	--	1,497,143	--	--	552,599
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	256,515	--	--	346,841
Energy	--	24,330,301	--	1,240,628	--	--	--
Other ²	--	29,771,540	--	--	--	--	205,758
Municipal							
Sales (thousand kWh)	657	534,265	--	7,410	1,102,283	--	1,110,042
Revenue (dollars)	27,769	33,500,925	--	200,366	43,615,767	--	30,236,120
Demand Charge Only ¹	--	--	--	--	--	--	5,556
Demand	2,520	14,820,414	--	43,971	14,526,167	--	10,846,860
Energy	6,193	15,745,061	--	156,395	30,155,303	--	17,151,728
Other ²	19,056	2,935,450	--	--	-1,065,703	--	2,231,976
Cooperative							
Sales (thousand kWh)	--	1,601	--	--	1,309,331	2,122,121	636,861
Revenue (dollars)	--	181,371	--	--	67,441,151	95,010,412	41,851,633
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	38,035,663	40,938,504	26,685,226
Energy	--	46,963	--	--	31,058,858	14,704,487	3,164,110
Other ²	--	134,408	--	--	-1,653,370	39,367,421	12,002,297
Other³							
Sales (thousand kWh)	--	679,100	--	1,223,280	573,863	770,742	5,417
Revenue (dollars)	--	6,098,899	--	27,544,204	16,539,874	39,390,460	156,966
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	569,340	1,424	--	--
Energy	--	14,370,047	--	26,974,864	16,536,751	--	156,966
Other ²	--	-8,271,148	--	--	1,699	39,390,460	--
Total							
Sales (thousand kWh)	15,895	5,443,543	3,891,764	2,525,380	2,986,072	2,900,440	2,345,166
Revenue (dollars)	345,173	275,042,365	206,834,516	75,484,096	127,626,369	134,740,561	98,378,568
Demand Charge Only ¹	--	--	--	--	--	--	5,556
Demand	2,520	14,820,414	--	20,315,362	52,563,254	41,108,270	38,057,973
Energy	323,597	105,196,938	31,366,495	55,168,734	77,780,489	14,874,410	45,797,597
Other ²	19,056	155,025,013	175,468,021	--	-2,717,374	78,757,881	14,517,442

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	Florida Florida Power Corp	Florida Gulf Power Co	Florida Tampa Electric Co	Georgia Georgia Power Co	Georgia Savannah Electric & Power Co	Hawaii Citizens Utilities Co ^a	Hawaii Hawaiian Electric Co Inc ^a
Investor-Owned							
Sales (thousand kWh)	335,252	1,255,325	1,136,452	7,457,289	334,092	--	--
Revenue (dollars)	5,634,322	59,990,195	24,529,974	355,958,696	7,131,590	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	32,297,893	4,398,071	202,357,080	540,309	--	--
Energy	5,634,322	29,727,424	20,131,903	153,601,636	6,591,281	--	--
Other ²	--	-2,035,122	--	--	--	--	--
Federal							
Sales (thousand kWh)	14,601	667	--	4,852	251	--	--
Revenue (dollars)	346,585	17,553	--	127,601	6,598	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	346,585	17,553	--	127,601	6,598	--	--
Other ²	--	--	--	--	--	--	--
State and Other Government							
Sales (thousand kWh)	--	3,394	--	1,473,720	1,276	--	--
Revenue (dollars)	--	92,688	--	27,610,325	34,844	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	-2,336,985	--	--	--
Energy	--	92,688	--	29,947,310	34,844	--	--
Other ²	--	--	--	--	--	--	--
Municipal							
Sales (thousand kWh)	1,240,271	167,370	1,213,532	1,263,245	31,276	--	--
Revenue (dollars)	60,883,540	9,868,677	36,809,894	61,180,806	643,055	--	--
Demand Charge Only ¹	168,925	--	--	--	--	--	--
Demand	26,372,724	6,208,462	10,527,131	37,001,082	2,444	--	--
Energy	25,080,899	3,880,199	25,005,636	24,179,724	640,611	--	--
Other ²	7,260,992	-219,784	1,277,127	--	--	--	--
Cooperative							
Sales (thousand kWh)	370,205	2,210	360,054	5,460,092	50	--	--
Revenue (dollars)	33,741,786	53,327	11,616,778	195,673,033	1,334	--	--
Demand Charge Only ¹	--	--	61,291	--	--	--	--
Demand	16,063,776	--	2,932,247	83,438,510	--	--	--
Energy	10,379,724	53,327	8,535,347	112,234,523	1,334	--	--
Other ²	7,298,286	--	87,893	--	--	--	--
Other^a							
Sales (thousand kWh)	1,171	1,210,713	--	3,531,085	37,753	--	--
Revenue (dollars)	-225,395	24,130,072	--	67,896,327	1,508,294	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	2,153,315	--	--	723,872	--	--
Energy	10,305	21,976,757	--	67,896,327	757,932	--	--
Other ²	-235,700	--	--	--	26,490	--	--
Total							
Sales (thousand kWh)	1,961,500	2,639,679	2,710,038	19,190,283	404,698	--	--
Revenue (dollars)	100,380,838	94,152,712	72,956,646	708,446,788	9,325,715	--	--
Demand Charge Only ¹	168,925	--	61,291	--	--	--	--
Demand	44,436,500	40,659,670	17,857,449	320,459,667	1,266,625	--	--
Energy	41,451,835	55,747,948	53,672,886	387,987,121	8,032,600	--	--
Other ²	14,323,578	-2,254,906	1,365,020	--	26,490	--	--

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	Hawaii Maui Electric Co Ltd ^a	Idaho Citizens Utilities Co ^a	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)	--	--	1,145,638	422,695	1,695,850	3,096,324	1,297,056
Revenue (dollars)	--	--	29,966,124	7,795,521	34,177,576	45,316,722	30,227,038
Demand Charge Only ¹	--	--	--	--	--	1,750	--
Demand	--	--	5,028,780	64,000	5,074,240	11,158,750	14,953,812
Energy	--	--	24,937,344	7,731,521	27,529,492	34,156,222	15,273,226
Other ²	--	--	--	--	1,573,844	--	--
Federal							
Sales (thousand kWh)	--	--	32,015	--	62,696	--	--
Revenue (dollars)	--	--	691,665	--	852,174	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	691,665	--	852,174	--	--
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Sales (thousand kWh)	--	--	296,882	--	--	114,546	--
Revenue (dollars)	--	--	7,374,189	--	--	1,339,063	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	2,950,500	--	--	150,000	--
Energy	--	--	4,423,689	--	--	1,189,063	--
Other ²	--	--	--	--	--	--	--
Municipal							
Sales (thousand kWh)	--	--	74,483	19,494	621,634	1,402,955	--
Revenue (dollars)	--	--	2,071,849	629,856	20,327,498	66,947,332	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	850,739	168,126	9,093,995	15,804,827	--
Energy	--	--	1,220,720	212,409	10,901,857	51,137,753	--
Other ²	--	--	390	249,321	331,646	4,752	--
Cooperative							
Sales (thousand kWh)	--	--	23,808	--	636,369	--	--
Revenue (dollars)	--	--	540,198	--	38,206,004	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	40,230	--	28,308,820	--	--
Energy	--	--	499,968	--	7,577,769	--	--
Other ²	--	--	--	--	2,319,415	--	--
Other³							
Sales (thousand kWh)	--	--	49,073	159	1,846	--	--
Revenue (dollars)	--	--	1,355,953	7,265	39,539	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	1,200	--	--
Energy	--	--	1,355,953	--	38,339	--	--
Other ²	--	--	--	7,265	--	--	--
Total							
Sales (thousand kWh)	--	--	1,623,899	442,348	3,018,395	4,613,825	1,297,056
Revenue (dollars)	--	--	41,999,978	8,432,642	93,602,791	113,603,117	30,227,038
Demand Charge Only ¹	--	--	--	--	--	1,750	--
Demand	--	--	8,870,249	232,126	42,478,255	27,113,577	14,953,812
Energy	--	--	33,126,339	7,943,930	46,899,631	86,483,038	15,273,226
Other ²	--	--	390	256,586	4,224,905	4,752	--

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	Illinois Power Co	Illinois Mt Carmel Public Utility Co	Indiana Alcoa Generating Corp ¹	Indiana Commonwealth Edison of Indiana ²	Indiana Michigan Power Co	Indiana Indianapolis Power & Light Co	Indiana Northern Indiana Public Service Co
Investor-Owned							
Sales (thousand kWh)	1,323,991	--	--	610,165	3,584,033	77,388	785,854
Revenue (dollars)	24,392,778	--	--	69,549,486	93,831,683	1,170,370	14,198,695
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	2,410,822	--	--	22,423,365	4,113,166	2,000	113,860
Energy	21,981,956	--	--	47,126,121	89,518,517	1,168,370	14,084,835
Other ²	--	--	--	--	--	--	--
Federal							
Sales (thousand kWh)	80,648	--	--	--	11,135	--	--
Revenue (dollars)	1,063,322	--	--	--	275,878	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	1,063,322	--	--	--	275,878	--	--
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Sales (thousand kWh)	--	--	--	--	493,410	--	--
Revenue (dollars)	--	--	--	--	20,541,592	--	29,054
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	13,394,160	--	--
Energy	--	--	--	--	7,133,752	--	29,054
Other ²	--	--	--	--	13,880	--	--
Municipal							
Sales (thousand kWh)	162,887	2,882	--	--	1,918,929	--	210,804
Revenue (dollars)	6,804,647	114,870	--	--	76,735,493	--	8,915,834
Demand Charge Only ¹	--	--	--	--	--	--	1,588,321
Demand	3,089,948	53,360	--	--	45,916,658	--	1,992,934
Energy	3,714,699	44,091	--	--	27,721,534	--	7,272,753
Other ²	--	17,419	--	--	3,097,301	--	-1,916,174
Cooperative							
Sales (thousand kWh)	1,402,000	--	--	--	618,447	114,922	165,498
Revenue (dollars)	47,507,572	--	--	--	21,743,144	2,090,230	6,552,240
Demand Charge Only ¹	--	--	--	--	--	--	4,050,000
Demand	23,719,716	--	--	--	12,432,095	487,251	--
Energy	23,787,858	--	--	--	8,717,631	1,689,354	2,502,240
Other ²	--	--	--	--	593,418	-86,375	--
Other³							
Sales (thousand kWh)	-2,712	--	--	--	5,125,486	--	49
Revenue (dollars)	-489,572	--	--	--	156,451,209	--	683
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	156,451,209	--	683
Other ²	-489,572	--	--	--	--	--	--
Total							
Sales (thousand kWh)	2,966,814	2,882	--	610,165	11,731,440	192,310	1,162,005
Revenue (dollars)	79,278,747	114,870	--	69,549,486	369,378,999	3,260,600	29,696,506
Demand Charge Only ¹	--	--	--	--	--	--	5,616,321
Demand	29,220,486	53,360	--	22,423,365	75,856,079	489,251	2,106,794
Energy	50,547,833	44,091	--	47,126,121	289,818,521	2,857,724	23,889,565
Other ²	-489,572	17,419	--	--	3,704,399	-86,375	-1,916,174

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	Indiana PSI Energy Inc	Indiana Southern Ind. 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)	3,081,567	805,402	41,955	724,979	344,788	976,229	3,185,582
Revenue (dollars)	49,405,990	18,726,905	988,268	10,706,430	3,724,440	16,281,093	54,484,309
Demand Charge Only ¹	—	—	278,000	439,320	—	—	103,500
Demand	2,623,772	37,000	—	1,331,911	—	3,016,929	13,915,069
Energy	46,782,218	18,430,763	710,268	8,520,490	3,724,440	13,264,164	40,445,740
Other ²	—	259,142	—	414,709	—	—	—
Federal							
Sales (thousand kWh)	—	—	15	24,210	29,810	—	87,365
Revenue (dollars)	—	—	389	289,666	682,480	—	1,260,396
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	141,840	—	—
Energy	—	—	389	289,666	427,684	—	1,260,396
Other ²	—	—	—	—	112,956	—	—
State and Other Government							
Sales (thousand kWh)	1,191,802	—	1,066	3,629	6,197	2,936	19,961
Revenue (dollars)	33,784,899	—	25,389	59,287	102,650	44,711	276,967
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	14,506,757	—	—	—	—	—	—
Energy	19,841,934	—	25,389	59,287	102,650	44,711	276,967
Other ²	-563,782	—	—	—	—	—	—
Municipal							
Sales (thousand kWh)	541,600	459,506	225,537	280,263	154,732	57,781	905,023
Revenue (dollars)	15,788,475	21,440,703	8,138,817	10,668,313	4,201,500	1,574,785	20,564,122
Demand Charge Only ¹	—	—	—	194,040	—	—	—
Demand	6,602,930	10,209,600	2,806,418	4,385,606	974,591	788,286	8,379,983
Energy	9,571,476	10,175,883	5,332,399	4,560,824	2,563,140	759,756	12,114,134
Other ²	-385,931	1,055,220	—	1,527,843	663,769	26,740	70,005
Cooperative							
Sales (thousand kWh)	1,475,241	386	844	196,372	793,593	27,314	415,361
Revenue (dollars)	47,612,975	747,883	675,222	4,552,631	9,382,368	329,987	4,773,962
Demand Charge Only ¹	—	733,875	652,500	82,800	—	—	44,240
Demand	22,087,300	—	—	244,291	—	—	153,706
Energy	25,675,451	14,008	22,722	4,133,753	9,382,368	329,987	4,576,016
Other ²	-129,776	—	—	91,787	—	—	—
Other³							
Sales (thousand kWh)	—	—	—	168,292	80,405	237,189	471,744
Revenue (dollars)	-85,167	—	—	1,738,154	889,196	2,518,725	4,883,467
Demand Charge Only ¹	—	—	—	—	—	—	187,578
Demand	—	—	—	—	4,309	—	—
Energy	—	—	—	1,738,154	884,062	2,518,725	4,695,889
Other ²	-85,167	—	—	—	825	—	—
Total							
Sales (thousand kWh)	6,290,210	1,265,294	269,417	1,397,745	1,409,525	1,301,449	5,085,036
Revenue (dollars)	146,507,172	40,915,491	9,828,065	28,014,481	18,982,634	20,749,301	86,223,223
Demand Charge Only ¹	—	733,875	930,500	716,160	—	—	335,318
Demand	45,800,759	10,246,600	2,806,418	5,961,808	1,120,740	3,805,215	22,448,758
Energy	101,871,079	28,620,654	6,091,147	19,302,174	17,084,344	16,917,346	63,369,142
Other ²	-1,164,666	1,314,362	—	2,034,339	777,550	26,740	70,005

See notes and footnotes at end of table.

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Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (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 ^a
Investor-Owned							
Sales (thousand kWh)	208,354	306,884	533,487	852,662	1,076,842	--	601,495
Revenue (dollars)	4,479,815	16,591,967	13,382,300	16,115,474	16,523,884	--	39,097,175
Demand Charge Only ¹	--	--	461,897	--	--	--	--
Demand	836,144	11,505,000	1,488,875	1,583,973	1,379,974	--	--
Energy	3,618,049	5,086,967	11,451,528	15,306,055	15,143,910	--	39,097,175
Other ²	25,622	--	--	-774,554	--	--	--
Federal							
Sales (thousand kWh)	--	--	3,988	130,523	1,085,903	--	--
Revenue (dollars)	--	--	98,773	2,270,139	15,278,378	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	98,773	2,270,139	15,278,378	--	--
Other ²	--	--	--	--	--	--	--
State and Other Government							
Sales (thousand kWh)	41,409	28,663	--	--	67,924	--	--
Revenue (dollars)	2,156,343	552,174	--	--	1,496,452	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	1,236,000	--	--	--	292,800	--	--
Energy	920,343	552,174	--	--	1,203,652	--	--
Other ²	--	--	--	--	--	--	--
Municipal							
Sales (thousand kWh)	628,340	889,354	110,899	1,318,067	66,431	43,108	38,392
Revenue (dollars)	16,183,447	27,555,464	3,924,738	40,489,755	1,019,878	1,636,347	2,495,480
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	1,457,509	10,385,245	1,119,061	19,576,652	--	612,544	--
Energy	14,513,955	17,239,866	2,797,481	30,886,412	1,019,878	1,163,912	2,495,480
Other ²	211,983	-69,667	8,196	-9,973,309	--	-140,109	--
Cooperative							
Sales (thousand kWh)	366,710	812,730	23	5,920	937,658	--	--
Revenue (dollars)	5,359,213	30,575,749	44,203	103,385	15,778,024	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	3,228,421	14,242,505	43,762	--	1,208,316	--	--
Energy	1,821,327	16,371,837	441	103,385	14,569,708	--	--
Other ²	309,465	-38,593	--	--	--	--	--
Other³							
Sales (thousand kWh)	2,300	--	3,456,382	--	--	--	--
Revenue (dollars)	19,798	106,791	43,910,056	--	-4,398,129	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	45,060	--	43,910,056	--	-4,398,129	--	--
Other ²	-25,262	106,791	--	--	--	--	--
Total							
Sales (thousand kWh)	1,249,113	2,037,431	4,104,779	2,307,172	3,234,758	43,108	639,887
Revenue (dollars)	28,198,616	75,382,145	61,360,070	58,978,753	45,698,487	1,636,347	41,592,655
Demand Charge Only ¹	--	--	461,897	--	--	--	--
Demand	6,758,074	36,132,750	2,631,698	21,160,625	2,881,090	612,544	--
Energy	20,918,734	39,250,864	58,258,279	48,565,991	42,817,397	1,163,912	41,592,655
Other ²	521,808	-1,469	8,196	-10,747,863	--	-140,109	--

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	Louisiana Central Louisiana Electric Co Inc	Louisiana Louisiana Power & Light Co	Louisiana New Orleans Public Service Inc	Louisiana Southwestern Electric Power Co	Maine Bangor Hydro- Electric Co	Maine Central Maine Power Co	Maine Maine Electric Power Co inc
Investor-Owned							
Sales (thousand kWh)	15,855	--	--	872,309	13,192	55,820	276,572
Revenue (dollars)	312,332	--	--	17,244,511	533,439	975,497	6,936,720
Demand Charge Only ¹	--	--	--	587,300	--	--	--
Demand	--	--	--	308,550	156,813	--	--
Energy	--	--	--	16,348,661	376,626	975,497	6,936,720
Other ²	312,332	--	--	--	--	--	--
Federal							
Sales (thousand kWh)	--	--	--	--	--	--	--
Revenue (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Sales (thousand kWh)	15,114	--	--	--	--	--	--
Revenue (dollars)	388,447	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	388,447	--	--	--	--	--	--
Municipal							
Sales (thousand kWh)	180,988	8	--	422,525	--	110,916	--
Revenue (dollars)	4,182,880	287	--	13,552,324	--	7,498,890	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	253,906	--	--	4,784,241	--	2,457,234	--
Energy	12,693	287	--	8,768,083	--	5,002,222	--
Other ²	3,916,281	--	--	--	--	39,434	--
Cooperative							
Sales (thousand kWh)	13,856	--	--	2,014,308	10,310	7,759	--
Revenue (dollars)	304,916	--	--	37,832,301	881,227	569,079	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	15,370,021	288,432	212,996	--
Energy	--	--	--	22,372,514	592,795	342,509	--
Other ²	304,916	--	--	89,766	--	13,574	--
Other³							
Sales (thousand kWh)	8,785	1,305,059	404,823	545,041	99,387	263,676	65,139
Revenue (dollars)	175,339	38,631,891	10,319,973	10,761,294	13,240,296	10,382,707	1,474,747
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	37,500	-24,167	--	--
Energy	1,834	38,631,891	10,319,973	10,723,794	13,264,463	10,382,707	1,471,437
Other ²	173,505	--	--	--	--	--	3,310
Total							
Sales (thousand kWh)	234,598	1,305,067	404,823	3,854,183	122,889	438,171	341,711
Revenue (dollars)	5,363,914	38,632,178	10,319,973	79,390,430	14,654,962	19,426,173	8,411,467
Demand Charge Only ¹	--	--	--	587,300	--	--	--
Demand	253,906	--	--	20,500,312	421,078	2,670,230	--
Energy	14,527	38,632,178	10,319,973	58,213,052	14,233,884	16,702,935	8,408,157
Other ²	5,095,481	--	--	89,766	--	53,008	3,310

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	Maine Maine Public Service Co	Maine Yankee Atomic Power Co ^a	Maryland Allegheny Generating Co ^a	Maryland Baltimore Gas & Electric Co	Maryland Conowingo Power Co	Maryland Potomac Edison Co	Massachusetts Boston Edison Co
Investor-Owned							
Sales (thousand kWh)	1,127	5,008,997	—	—	122	4,415,756	1,051,260
Revenue (dollars)	181,828	175,490,481	97,406,000	—	11,865	115,370,727	56,019,928
Demand Charge Only ¹	—	—	—	—	—	—	-178,552
Demand	148,039	151,423,771	—	—	—	47,666,876	42,118,559
Energy	32,789	24,066,710	—	—	11,865	67,558,283	15,537,484
Other ²	—	—	97,406,000	—	—	145,588	-1,457,543
Federal							
Sales (thousand kWh)	—	—	—	—	—	—	—
Revenue (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other Government							
Sales (thousand kWh)	—	25,143	—	—	—	—	139,350
Revenue (dollars)	—	881,242	—	—	—	—	3,823,060
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	760,389	—	—	—	—	784,490
Energy	—	120,853	—	—	—	—	3,038,570
Other ²	—	—	—	—	—	—	—
Municipal							
Sales (thousand kWh)	84,111	254,849	—	—	—	522,515	597,821
Revenue (dollars)	6,089,924	8,932,262	—	—	—	18,845,795	37,089,617
Demand Charge Only ¹	—	—	—	—	—	—	-272,234
Demand	3,021,433	7,707,294	—	—	—	9,657,073	28,073,775
Energy	706,537	1,224,968	—	—	—	8,124,281	11,720,148
Other ²	2,361,954	—	—	—	—	1,064,441	-2,432,072
Cooperative							
Sales (thousand kWh)	11,451	55,784	—	—	—	684,029	—
Revenue (dollars)	856,534	1,955,173	—	—	—	21,483,692	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	445,832	1,687,041	—	—	—	9,300,322	—
Energy	91,843	268,132	—	—	—	12,117,021	—
Other ²	318,859	—	—	—	—	66,349	—
Other³							
Sales (thousand kWh)	36,213	—	—	3,179,408	—	366,299	2,627,076
Revenue (dollars)	526,216	—	—	64,322,817	—	7,440,921	85,651,410
Demand Charge Only ¹	—	—	—	—	—	—	-180,283
Demand	9,213	—	—	—	—	1,111,521	35,610,066
Energy	394,702	—	—	64,322,817	—	6,329,400	50,221,627
Other ²	122,301	—	—	—	—	—	—
Total							
Sales (thousand kWh)	132,902	5,342,773	—	3,179,408	122	5,988,599	4,415,307
Revenue (dollars)	7,654,502	187,259,158	97,406,000	64,322,817	11,865	183,141,135	182,584,015
Demand Charge Only ¹	—	—	—	—	—	—	-631,069
Demand	3,625,517	161,578,495	—	—	—	67,735,792	106,586,890
Energy	1,225,871	25,680,663	—	64,322,817	11,865	94,128,965	80,517,809
Other ²	2,803,114	—	97,406,000	—	—	1,276,378	-3,889,615

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (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)	--	5,499,090	5,910	--	295	146,370	1,034,897
Revenue (dollars)	--	216,932,055	151,755	--	-48,061	3,608,477	25,971,545
Demand Charge Only ¹	--	-69,684	--	--	--	--	--
Demand	--	113,212,264	27,390	--	6,334	2,253,515	--
Energy	--	102,389,903	124,365	--	18,070	1,354,962	16,875,263
Other ²	--	1,399,572	--	--	-72,465	--	9,096,282
Federal							
Sales (thousand kWh)	--	--	--	--	--	--	--
Revenue (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
State and Other Government							
Sales (thousand kWh)	--	--	--	--	--	24,719	--
Revenue (dollars)	--	--	--	--	--	581,418	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	366,014	--
Energy	--	--	--	--	--	215,404	--
Other ²	--	--	--	--	--	--	--
Municipal							
Sales (thousand kWh)	99,330	--	--	--	--	--	14,618
Revenue (dollars)	6,068,841	--	--	--	--	--	1,318,160
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	4,215,962	--	--	--	--	--	897,600
Energy	1,806,433	--	--	--	--	--	303,541
Other ²	46,446	--	--	--	--	--	117,019
Cooperative							
Sales (thousand kWh)	--	--	--	--	--	--	--
Revenue (dollars)	--	--	--	--	-1,144	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	-1,144	--	--
Other³							
Sales (thousand kWh)	155,018	--	986,044	--	13,677	783,541	--
Revenue (dollars)	2,783,202	--	22,099,869	--	438,340	18,762,699	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	424,103	--	--	11,728,933	--
Energy	2,783,202	--	21,675,766	--	438,340	7,033,766	--
Other ²	--	--	--	--	--	--	--
Total							
Sales (thousand kWh)	254,348	5,499,090	991,954	--	13,972	954,630	1,049,515
Revenue (dollars)	8,852,043	216,932,055	22,251,624	--	389,135	22,952,594	27,289,705
Demand Charge Only ¹	--	-69,684	--	--	--	--	--
Demand	4,215,962	113,212,264	451,493	--	6,334	14,348,462	897,600
Energy	4,589,635	102,389,903	21,800,131	--	456,410	8,604,132	17,178,804
Other ²	46,446	1,399,572	--	--	-73,609	--	9,213,301

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	Massachusetts Holyoke Water Power Co	Massachusetts Electric Co	Massachusetts Montaup Electric Co	Massachusetts New England Hydro Trans Elec Co ^a	Massachusetts New England Power Co	Massachusetts Western Massachusetts Electric Co	Massachusetts Yankee Atomic Electric Co ^b
Investor-Owned							
Sales (thousand kWh)	1,093,265	3,676	4,576,633	--	21,747,398	96,268	--
Revenue (dollars)	27,915,940	270,869	317,162,144	--	1,415,327,501	4,190,866	74,414,340
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	50,374	238,590,559	--	705,125,248	696,643	--
Energy	18,181,759	122,263	84,911,153	--	485,316,749	2,438,831	74,414,340
Other ²	9,734,181	98,232	13,660,432	--	244,885,504	1,055,192	--
Federal							
Sales (thousand kWh)	--	--	--	--	50,250	--	--
Revenue (dollars)	--	--	--	--	3,402,259	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	1,757,301	--	--
Energy	--	--	--	--	1,077,829	--	--
Other ²	--	--	--	--	567,129	--	--
State and Other							
Government							
Sales (thousand kWh)	--	--	229,219	--	9,889	1,818	--
Revenue (dollars)	--	--	6,649,941	--	292,325	77,602	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	2,196,463	--	--	--	--
Energy	--	--	4,453,478	--	174,054	52,075	--
Other ²	--	--	--	--	118,271	25,527	--
Municipal							
Sales (thousand kWh)	159,009	71	261,217	--	415,659	--	--
Revenue (dollars)	8,715,751	7,191	10,243,311	--	26,888,042	--	--
Demand Charge Only ¹	--	--	-60	--	--	--	--
Demand	4,842,500	--	5,460,531	--	13,080,119	--	--
Energy	3,353,332	5,193	4,782,840	--	9,110,830	--	--
Other ²	519,919	1,998	--	--	4,697,293	--	--
Cooperative							
Sales (thousand kWh)	--	--	2,295	--	7,353	--	--
Revenue (dollars)	--	--	60,383	--	434,198	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	-1,107	--	192,292	--	--
Energy	--	--	61,490	--	164,541	--	--
Other ²	--	--	--	--	77,365	--	--
Other³							
Sales (thousand kWh)	601,743	--	1,049,925	--	1,304,941	453,584	--
Revenue (dollars)	8,175,574	--	21,510,187	--	55,648,174	15,739,825	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	266,612	--	--	--	--
Energy	5,123,926	--	21,223,575	--	38,613,786	-24,015,216	--
Other ²	3,051,648	--	--	--	17,034,368	39,755,041	--
Total							
Sales (thousand kWh)	1,854,017	3,747	6,119,289	--	23,535,490	553,670	--
Revenue (dollars)	44,807,265	278,080	355,625,966	--	1,501,992,499	20,008,093	74,414,340
Demand Charge Only ¹	--	--	-60	--	--	--	--
Demand	4,842,500	50,374	246,533,058	--	720,154,960	696,643	--
Energy	26,659,017	127,456	95,432,536	--	514,457,589	-21,524,310	74,414,340
Other ²	13,305,748	100,230	13,660,432	--	267,379,950	40,835,760	--

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (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	Minnesota Minnesota Power & Light Co	Minnesota Northern States Power Co
Investor-Owned							
Sales (thousand kWh)	1,047,501	2,720,201	--	16,862	45,767	669,853	4,644,659
Revenue (dollars)	29,672,249	56,371,312	--	829,893	1,423,023	27,514,943	78,710,193
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	9,490,228	3,146,962	--	194,671	1,423,023	15,269,512	11,078,171
Energy	26,408,012	44,894,350	--	633,498	--	12,050,607	67,632,022
Other ²	-6,225,991	8,330,000	--	1,724	--	194,824	--
Federal							
Sales (thousand kWh)	--	--	--	--	--	59,281	83,254
Revenue (dollars)	--	--	--	--	--	785,562	1,213,720
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	785,562	1,213,720
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Sales (thousand kWh)	118,969	119,442	--	--	--	25,151	299,995
Revenue (dollars)	2,728,000	2,370,708	--	--	--	529,402	4,134,229
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	522,000	18,750	--	--	--	--	--
Energy	2,206,000	2,324,809	--	--	--	529,402	4,134,229
Other ²	--	27,149	--	--	--	--	--
Municipal							
Sales (thousand kWh)	552,861	458,982	--	74,618	--	505,112	1,097,436
Revenue (dollars)	18,424,820	15,686,768	--	3,582,803	--	16,341,288	37,336,469
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	6,555,631	5,429,741	--	771,178	--	8,459,545	14,931,112
Energy	16,858,432	13,739,078	--	2,803,383	--	7,715,796	22,634,377
Other ²	-4,989,243	-3,482,051	--	8,242	--	165,947	-229,020
Cooperative							
Sales (thousand kWh)	90,144	875,750	127,354	35,946	--	5,350	53,427
Revenue (dollars)	2,513,978	35,398,892	3,179,367	1,773,949	--	515,271	825,809
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	658,215	15,679,955	382,526	419,592	--	420,000	--
Energy	2,244,876	25,977,737	2,632,466	1,350,505	--	95,271	825,809
Other ²	-389,113	-6,258,800	164,375	3,852	--	--	--
Other³							
Sales (thousand kWh)	363,832	349,933	--	--	--	44,710	27,304
Revenue (dollars)	12,713,230	7,055,768	--	62,040	--	623,263	987,160
Demand Charge Only ¹	--	--	--	62,040	--	--	--
Demand	9,006,000	312,000	--	--	--	--	--
Energy	3,711,952	6,930,729	--	--	--	623,263	987,160
Other ²	-4,722	-186,961	--	--	--	--	--
Total							
Sales (thousand kWh)	2,173,307	4,524,308	127,354	127,426	45,767	1,309,457	6,206,075
Revenue (dollars)	66,052,277	116,883,448	3,179,367	6,248,685	1,423,023	46,309,729	123,207,380
Demand Charge Only ¹	--	--	--	62,040	--	--	--
Demand	26,232,074	24,587,408	382,526	1,385,441	1,423,023	24,149,057	26,009,283
Energy	51,429,272	93,866,703	2,632,466	4,787,386	--	21,799,901	97,427,117
Other ²	-11,609,069	-1,570,663	164,375	13,818	--	360,771	-229,020

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	Minnesota Otter Tail Power Co	Mississippi Mississippi Power & Light Co	Mississippi Mississippi Power Co	Mississippi Systems Energy Resources Inc ^a	Missouri Empire District Electric Co	Missouri Kansas City Power & Light Co	Missouri St Joseph Light & Power Co
Investor-Owned							
Sales (thousand kWh)	411,868	—	926,400	7,353,922	314,106	1,664,144	12,859
Revenue (dollars)	6,947,051	—	21,647,423	723,409,732	5,245,834	23,683,685	194,775
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	240,000	—	3,349,834	—	1,991,832	62,683	—
Energy	6,707,051	—	18,297,589	723,409,732	3,226,657	23,541,103	194,775
Other ²	—	—	—	—	27,345	79,899	—
Federal							
Sales (thousand kWh)	—	—	681	—	—	—	—
Revenue (dollars)	—	—	17,913	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	17,913	—	—	—	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh)	73,227	—	3,463	—	45,820	61,300	4,251
Revenue (dollars)	1,146,060	—	94,589	—	746,317	1,078,586	91,096
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	1,146,060	—	94,589	—	746,317	1,078,586	91,096
Other ²	—	—	—	—	—	—	—
Municipal							
Sales (thousand kWh)	133,328	—	116,409	—	208,683	909,663	130
Revenue (dollars)	2,250,338	—	3,038,490	—	6,448,907	21,108,892	4,521
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	197,153	—	238,352	—	2,409,794	1,277,497	—
Energy	2,061,197	—	2,784,781	—	4,039,113	15,096,684	4,521
Other ²	-8,012	—	15,357	—	—	4,734,711	—
Cooperative							
Sales (thousand kWh)	47,531	—	1,583,511	—	12,558	408,769	10,115
Revenue (dollars)	782,912	—	52,564,036	—	392,714	6,506,025	122,011
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	400,000	—	214,567	643,265	—
Energy	782,912	—	51,409,315	—	178,147	5,985,514	122,011
Other ²	—	—	754,721	—	—	-122,754	—
Other³							
Sales (thousand kWh)	—	1,189,580	280,443	—	—	—	—
Revenue (dollars)	—	37,982,637	10,054,709	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	4,722,872	5,023,104	—	—	—	—
Energy	—	33,259,765	5,031,605	—	—	—	—
Other ²	—	—	—	—	—	—	—
Total							
Sales (thousand kWh)	665,954	1,189,580	2,910,907	7,353,922	581,167	3,043,878	27,355
Revenue (dollars)	11,126,361	37,982,637	87,417,160	723,409,732	12,833,772	52,377,188	412,403
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	437,153	4,722,872	9,011,290	—	4,616,193	1,983,445	—
Energy	10,697,220	33,259,765	77,635,792	723,409,732	8,190,234	45,701,887	412,403
Other ²	-8,012	—	770,078	—	27,345	4,691,856	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	Missouri Union Electric Co	Missouri UtilCorp 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)	3,262,227	25,616	1,489,164	--	27,777	--	--
Revenue (dollars)	59,387,424	480,835	44,030,840	--	797,750	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	5,902,918	--	--	--	132,562	--	--
Energy	53,542,088	480,835	44,030,840	--	649,329	--	--
Other ²	-57,582	--	--	--	15,859	--	--
Federal							
Sales (thousand kWh)	96,442	--	1,540,202	--	8,766	--	--
Revenue (dollars)	1,507,600	--	34,705,807	--	534,716	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	183,539	--	--
Energy	1,507,600	--	34,705,807	--	393,068	--	--
Other ²	--	--	--	--	-41,891	--	--
State and Other Government							
Sales (thousand kWh)	--	--	88,959	268,195	140,472	--	--
Revenue (dollars)	--	--	1,624,704	8,149,232	6,396,370	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	417,560	1,782,671	--	--
Energy	--	--	1,624,704	7,651,576	5,239,553	--	--
Other ²	--	--	--	80,096	-625,854	--	--
Municipal							
Sales (thousand kWh)	1,073,932	363,714	929,579	50,515	51,816	--	--
Revenue (dollars)	37,661,093	12,429,057	42,829,253	2,217,710	2,926,962	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	1,235,496	4,138,305	--	1,060,655	910,882	--	--
Energy	36,462,316	8,960,878	42,829,253	1,044,306	2,323,430	--	--
Other ²	-36,719	-670,126	--	112,749	-307,350	--	--
Cooperative							
Sales (thousand kWh)	869,995	104,045	407,243	154,590	--	--	--
Revenue (dollars)	27,466,607	4,526,029	14,014,721	5,226,059	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	2,575,271	4,379,014	1,247,455	--	--	--
Energy	27,466,607	1,957,630	9,635,707	3,955,836	--	--	--
Other ²	--	-6,872	--	22,768	--	--	--
Other³							
Sales (thousand kWh)	1,025,372	-1,262	-1,792	--	--	--	--
Revenue (dollars)	16,107,622	-6,153	9,088,211	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	32,400	--	--	--	--	--	--
Energy	16,075,222	-5,253	--	--	--	--	--
Other ²	--	-900	9,088,211	--	--	--	--
Total							
Sales (thousand kWh)	6,327,968	492,113	4,453,355	473,300	228,831	--	--
Revenue (dollars)	142,130,346	17,429,788	146,293,536	15,593,001	10,655,798	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	7,170,814	6,713,576	4,379,014	2,725,670	3,009,654	--	--
Energy	135,053,833	11,394,090	132,828,311	12,651,718	8,605,380	--	--
Other ²	-94,301	-677,898	9,088,211	215,613	-959,236	--	--

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	New Hampshire Exeter & Hampton Electric Co ¹	New Hampshire Granite State Electric Co ¹	New Hampshire New England Trans Corp ²	New Hampshire New England Hydro-Trans Corp ²	New Hampshire North Atlantic Energy Corp ¹	New Hampshire Public Service Co of NH	New Hampshire Unitil Power Corp
Investor-Owned							
Sales (thousand kWh)	--	--	--	--	1,268,123	823,435	946,047
Revenue (dollars)	--	--	--	--	78,443,879	32,841,712	70,383,994
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	61,905	31,702,925
Energy	--	--	--	--	1,687,971	12,106,090	17,761,124
Other ²	--	--	--	--	76,755,908	20,673,717	20,919,945
Federal							
Sales (thousand kWh)	--	--	--	--	--	--	--
Revenue (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Sales (thousand kWh)	--	--	--	--	--	113,220	--
Revenue (dollars)	--	--	--	--	--	3,331,800	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	1,999,800	--
Other ²	--	--	--	--	--	1,332,000	--
Municipal							
Sales (thousand kWh)	--	--	--	--	--	82,685	--
Revenue (dollars)	--	--	--	--	--	5,615,657	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	1,797,396	--
Energy	--	--	--	--	--	3,793,753	--
Other ²	--	--	--	--	--	24,508	--
Cooperative							
Sales (thousand kWh)	--	--	--	--	--	581,442	--
Revenue (dollars)	--	--	--	--	--	38,089,320	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	19,297,778	--
Energy	--	--	--	--	--	21,951,202	--
Other ²	--	--	--	--	--	-3,159,660	--
Other³							
Sales (thousand kWh)	--	--	--	--	--	4,486,057	1,245
Revenue (dollars)	--	--	--	--	--	106,554,980	1,155,365
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	100,930,928	1,155,365
Other ²	--	--	--	--	--	5,624,052	--
Total							
Sales (thousand kWh)	--	--	--	--	1,268,123	6,086,839	947,292
Revenue (dollars)	--	--	--	--	78,443,879	186,433,469	71,539,359
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	21,157,079	31,702,925
Energy	--	--	--	--	1,687,971	140,781,773	18,916,489
Other ²	--	--	--	--	76,755,908	24,494,617	20,919,945

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (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)	--	83,283	1,051,242	--	2,181,497	--	49,220
Revenue (dollars)	--	3,983,829	23,213,398	--	72,580,158	--	2,495,668
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	889,284	419,895	--	30,811,851	--	915,000
Energy	--	3,094,545	22,794,048	--	41,332,302	--	1,580,668
Other ²	--	--	-545	--	416,203	--	--
Federal							
Sales (thousand kWh)	--	--	--	--	125,674	--	--
Revenue (dollars)	--	--	--	--	2,648,784	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	2,648,784	--	--
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Sales (thousand kWh)	--	--	152,100	--	488,592	--	--
Revenue (dollars)	--	--	4,168,700	--	14,783,359	--	4,410
Demand Charge Only ¹	--	--	--	--	--	--	4,410
Demand	--	--	--	--	5,878,442	--	--
Energy	--	--	4,168,700	--	8,702,220	--	--
Other ²	--	--	--	--	202,697	--	--
Municipal							
Sales (thousand kWh)	351,729	268,228	125,833	--	474,723	--	--
Revenue (dollars)	15,847,719	16,978,363	7,494,737	--	16,329,786	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	10,859,804	2,482,783	--	7,018,529	--	--
Energy	7,948,461	6,118,559	5,248,581	--	8,472,273	--	--
Other ²	7,699,258	--	-236,627	--	837,984	--	--
Cooperative							
Sales (thousand kWh)	--	44,525	--	--	293,830	--	--
Revenue (dollars)	--	3,878,410	--	--	10,561,770	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	2,882,791	--	--	5,006,991	--	--
Energy	--	995,619	--	--	5,502,351	--	--
Other ²	--	--	--	--	52,428	--	--
Other³							
Sales (thousand kWh)	701,352	1,915,574	922,848	--	121,102	--	521,835
Revenue (dollars)	20,127,109	49,308,217	24,443,387	--	6,407,145	--	15,973,451
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	4,610,708	--	--	4,345,724	--	--
Energy	20,064,831	44,697,509	24,401,038	--	2,060,449	--	15,973,451
Other ²	62,278	--	42,349	--	972	--	--
Total							
Sales (thousand kWh)	1,053,081	2,311,610	2,252,023	--	3,685,418	--	570,855
Revenue (dollars)	35,774,828	74,148,819	59,318,222	--	123,291,000	--	18,473,529
Demand Charge Only ¹	--	--	--	--	--	--	4,410
Demand	--	19,242,587	2,902,678	--	53,062,337	--	915,000
Energy	28,013,292	54,908,232	56,610,387	--	68,718,379	--	17,554,119
Other ²	7,761,536	--	-194,823	--	1,510,284	--	--

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (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 ^a	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)	--	--	--	1,982,900	264,450	1,344,428	8,851
Revenue (dollars)	-6,115	--	--	53,001,400	14,933,664	68,564,041	587,007
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	27,491	--	21,807,675	--
Energy	--	--	--	52,973,278	14,933,664	46,756,366	587,007
Other ²	-6,115	--	--	631	--	--	--
Federal							
Sales (thousand kWh)	--	--	--	--	--	--	--
Revenue (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
State and Other Government							
Sales (thousand kWh)	78,173	--	--	1,146,119	542,580	886	14,633
Revenue (dollars)	14,846,633	--	--	27,002,870	12,959,996	--	730,557
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	8,282,559	--	--	--	--	--	--
Energy	6,584,074	--	--	27,002,870	12,959,996	--	730,557
Other ²	--	--	--	--	--	--	--
Municipal							
Sales (thousand kWh)	--	--	--	--	--	--	--
Revenue (dollars)	--	--	--	--	879	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	879	--	--
Other ²	--	--	--	--	--	--	--
Cooperative							
Sales (thousand kWh)	--	--	--	--	--	--	--
Revenue (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
Other³							
Sales (thousand kWh)	365,459	227,482	--	2,893,787	2,045,380	236,641	1,041,454
Revenue (dollars)	13,504,066	9,996,783	--	63,409,314	55,938,618	6,664,049	24,224,028
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	1,297,818	--	--	--	--	--	--
Energy	12,138,853	9,996,783	--	63,409,314	55,938,618	6,549,790	24,224,028
Other ²	67,395	--	--	--	--	114,259	--
Total							
Sales (thousand kWh)	443,632	227,482	--	6,002,806	2,852,410	1,581,955	1,062,738
Revenue (dollars)	28,344,584	9,996,783	--	143,413,584	83,833,157	75,228,090	25,541,592
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	9,560,377	--	--	27,491	--	21,807,675	--
Energy	18,722,927	9,996,783	--	143,385,462	83,833,157	53,306,156	25,541,592
Other ²	61,280	--	--	631	--	114,259	--

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	North Carolina Carolina Power & Light Co	North Carolina Cascade Power Company ²	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)	158,712	6,151	2,631,578	109,179	—	147,859	8,595,767
Revenue (dollars)	3,137,482	257,168	73,835,346	12,640,568	—	2,553,365	239,166,961
Demand Charge Only ¹	—	—	—	—	—	16,000	—
Demand	37,500	257,168	15,217,490	10,593,504	—	64,000	—
Energy	3,099,982	—	59,576,577	2,047,064	—	2,473,365	239,166,961
Other ³	—	—	-958,721	—	—	—	—
Federal							
Sales (thousand kWh)	6,775	—	—	38,450	—	179,565	—
Revenue (dollars)	117,147	—	—	586,742	—	2,612,585	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	117,147	—	—	586,742	—	2,612,585	—
Other ³	—	—	—	—	—	—	—
State and Other Government							
Sales (thousand kWh)	3,310,915	—	2,603,777	—	—	8,555	—
Revenue (dollars)	140,745,598	—	128,198,537	—	—	153,820	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	55,352,321	—	94,550,140	—	—	—	—
Energy	31,560,583	—	33,648,397	—	—	153,820	—
Other ³	53,832,694	—	—	—	—	—	—
Municipal							
Sales (thousand kWh)	1,729,465	—	1,997,805	29,705	—	1,020	—
Revenue (dollars)	83,020,612	—	88,319,056	987,840	—	16,370	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	9,864	—	29,335,301	756,361	—	—	—
Energy	83,124,813	—	64,137,431	281,926	—	16,370	—
Other ³	-114,065	—	-5,153,676	-50,447	—	—	—
Cooperative							
Sales (thousand kWh)	4,687,938	—	2,526,091	17,725	—	15,751	—
Revenue (dollars)	267,128,350	—	141,199,086	580,740	—	264,863	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	108,021,314	445,519	—	—	—
Energy	267,609,331	—	33,177,782	162,237	—	264,863	—
Other ³	-480,981	—	—	-27,016	—	—	—
Other⁴							
Sales (thousand kWh)	40,651	—	347,355	23,166	—	—	—
Revenue (dollars)	3,800,498	—	11,460,048	813,069	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	604,470	—	—	—
Energy	3,800,498	—	10,897,489	217,091	—	—	—
Other ³	—	—	562,559	-8,492	—	—	—
Total							
Sales (thousand kWh)	9,932,456	6,151	10,106,606	218,225	—	352,550	8,595,767
Revenue (dollars)	497,949,687	257,168	443,012,083	15,588,959	—	5,601,003	239,166,961
Demand Charge Only ¹	—	—	—	—	—	16,000	—
Demand	55,399,685	257,168	247,124,245	12,399,854	—	64,000	—
Energy	389,312,354	—	201,437,676	3,275,060	—	5,521,003	239,166,961
Other ³	53,237,648	—	-5,549,838	-85,955	—	—	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (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 ^a	Ohio Ohio Edison Co	Ohio Ohio Power Co
Investor-Owned							
Sales (thousand kWh)	4,613,776	341,239	381,028	1,056,192	9,185,404	7,784,188	4,638,502
Revenue (dollars)	155,926,258	5,031,792	14,465,044	18,349,453	140,703,815	214,823,156	130,248,240
Demand Charge Only ¹	—	—	1,124,046	—	—	—	1,936,881
Demand	61,234,112	130,356	3,814,529	3,919,680	40,071,030	85,788,072	26,172,681
Energy	97,691,870	4,847,761	9,526,469	14,482,183	100,632,785	126,815,468	102,138,877
Other ²	-2,999,524	53,675	—	-52,410	—	2,219,616	1
Federal							
Sales (thousand kWh)	—	—	9,634	—	—	—	16,584
Revenue (dollars)	—	—	239,499	—	—	—	411,519
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	239,499	—	—	—	411,519
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh)	—	—	—	—	—	—	—
Revenue (dollars)	—	—	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Sales (thousand kWh)	238,169	147,696	557,444	592,826	—	66,064	1,055,841
Revenue (dollars)	8,815,418	4,147,664	18,019,516	16,824,412	—	5,652,717	34,096,311
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	3,022,049	1,061,738	4,431,990	5,890,021	—	4,542,615	8,935,301
Energy	6,414,486	3,039,036	13,587,526	12,130,104	—	967,722	24,525,525
Other ²	-621,117	46,890	—	-1,195,713	—	142,380	-364,515
Cooperative							
Sales (thousand kWh)	35,278	—	60	—	—	—	413,460
Revenue (dollars)	834,668	—	108,697	—	—	—	7,713,931
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	183,750	—	107,611	—	—	—	184,068
Energy	499,597	—	1,086	—	—	—	7,529,863
Other ²	151,321	—	—	—	—	—	—
Other³							
Sales (thousand kWh)	-1,370	1,499,711	1,759,722	—	—	—	10,151,505
Revenue (dollars)	-52,889	54,329,036	31,761,018	—	—	—	291,881,080
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	2,533,895	—	—	—	—	—
Energy	—	51,611,708	31,761,018	—	—	—	291,881,080
Other ²	-52,889	183,433	—	—	—	—	—
Total							
Sales (thousand kWh)	4,885,853	1,988,646	2,707,888	1,648,818	9,185,404	7,850,252	16,275,872
Revenue (dollars)	165,523,455	63,508,492	64,593,774	35,173,865	140,703,815	220,475,873	464,351,081
Demand Charge Only ¹	—	—	1,124,046	—	—	—	1,936,881
Demand	64,439,911	3,725,989	8,354,130	9,809,701	40,071,030	90,330,687	36,292,050
Energy	104,605,753	59,498,505	55,115,598	26,612,287	100,632,785	127,783,190	426,486,664
Other ²	-3,522,209	283,998	—	-1,248,123	—	2,361,996	-364,514

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	Ohio Ohio Valley Electric Corp	Ohio Toledo Edison Co	Oklahoma Oklahoma Gas & Electric Co	Oklahoma Public Service Co of Oklahoma	Oregon PacifiCorp	Oregon Portland General Electric Co	Pennsylvania Citizens Electric Co ⁴
Investor-Owned							
Sales (thousand kWh)	2,564,453	2,100,093	4,112,843	41,557	9,384,034	1,123,071	--
Revenue (dollars)	29,434,017	136,837,134	61,497,324	804,710	303,702,883	46,793,609	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	-562,410	13,638,884	--	--	133,886,263	21,220,000	--
Energy	29,996,427	123,022,748	61,497,324	721,040	171,890,896	25,460,260	--
Other ²	--	175,502	--	83,670	-2,074,276	113,349	--
Federal							
Sales (thousand kWh)	--	--	9,171	42,826	2,319,415	822,645	--
Revenue (dollars)	--	--	318,486	2,262,938	59,899,288	40,143,617	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	273,755	--	16,500,000	--
Energy	--	--	372,153	1,862,283	59,899,288	23,643,617	--
Other ²	--	--	-53,667	126,900	--	--	--
State and Other Government							
Sales (thousand kWh)	--	--	277,387	24,632	1,067,079	654,593	--
Revenue (dollars)	--	--	7,677,560	4,682,692	31,827,310	14,214,367	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	1,842,138	396,000	197,936	--	--
Energy	--	--	7,759,688	934,294	31,587,256	14,214,367	--
Other ²	--	--	-2,024,266	3,352,398	42,118	--	--
Municipal							
Sales (thousand kWh)	--	492,302	122,240	4,568	509,179	138,903	--
Revenue (dollars)	--	17,750,513	5,192,300	-35,061	29,742,303	7,641,456	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	8,892,198	2,055,523	--	22,445,378	4,720,000	--
Energy	--	8,837,558	3,706,028	138,939	7,294,220	2,921,456	--
Other ²	--	20,757	-569,251	-174,000	2,705	--	--
Cooperative							
Sales (thousand kWh)	--	--	540,056	1,084	15,428	--	--
Revenue (dollars)	--	--	20,843,111	47,587	476,585	--	--
Demand Charge Only ¹	--	--	--	--	629	--	--
Demand	--	--	7,666,700	--	56,500	--	--
Energy	--	--	16,151,631	46,219	419,456	--	--
Other ²	--	--	-2,975,220	1,368	--	--	--
Other³							
Sales (thousand kWh)	--	160,537	--	550,156	124,777	--	--
Revenue (dollars)	--	2,986,896	--	10,019,620	4,404,922	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	107,121	--	--	2,268,588	--	--
Energy	--	2,879,775	--	9,989,213	2,137,445	--	--
Other ²	--	--	--	30,407	-1,111	--	--
Total							
Sales (thousand kWh)	2,564,453	2,752,932	5,061,697	664,823	13,419,912	2,739,212	--
Revenue (dollars)	29,434,017	157,574,543	95,528,781	17,782,486	430,053,291	108,793,049	--
Demand Charge Only ¹	--	--	--	--	629	--	--
Demand	-562,410	22,638,203	11,664,361	669,755	158,854,665	42,440,000	--
Energy	29,996,427	134,740,081	89,486,824	13,691,968	273,228,561	66,239,700	--
Other ²	--	196,259	-5,622,404	3,420,743	-2,030,564	113,349	--

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (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)	4,059,989	182,249	500,763	7,564,085	1,691,731	6,903,464	--
Revenue (dollars)	72,439,456	4,223,746	12,687,019	351,259,503	41,383,492	215,587,457	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	18,218,771	406,395	2,449,085	1,360,804	13,420,448	33,617,052	--
Energy	54,220,685	3,813,948	9,223,762	125,411,047	27,963,044	184,009,924	--
Other ²	--	3,403	1,014,172	224,487,652	--	-2,039,519	--
Federal							
Sales (thousand kWh)	--	--	--	--	--	--	--
Revenue (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Sales (thousand kWh)	--	--	--	199,957	--	--	--
Revenue (dollars)	--	--	--	3,864,693	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	3,864,693	--	--	--
Other ²	--	--	--	--	--	--	--
Municipal							
Sales (thousand kWh)	11,780	86,991	72,623	687,597	131,226	--	--
Revenue (dollars)	796,032	1,257,377	3,110,564	35,919,334	7,049,990	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	426,023	264,800	1,574,831	6,600,178	2,676,166	--	--
Energy	353,400	979,695	1,452,443	29,319,156	4,373,824	--	--
Other ²	16,609	12,882	83,290	--	--	--	--
Cooperative							
Sales (thousand kWh)	--	100,990	370,737	18,180	--	--	--
Revenue (dollars)	--	6,359,376	13,532,780	934,093	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	4,082,980	7,998,754	151,385	--	--	--
Energy	--	2,071,669	7,551,005	782,708	--	--	--
Other ²	--	204,727	-2,016,979	--	--	--	--
Other³							
Sales (thousand kWh)	--	2,201,564	2,375,668	5,294,779	--	1,656,243	--
Revenue (dollars)	--	58,996,266	53,972,922	117,996,596	--	59,384,935	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	11,119,103	5,811,437	--	--	--	--
Energy	--	47,877,163	48,161,485	117,958,840	--	59,384,935	--
Other ²	--	--	--	37,756	--	--	--
Total							
Sales (thousand kWh)	4,071,769	2,571,794	3,319,791	13,764,598	1,822,957	8,559,707	--
Revenue (dollars)	73,235,488	70,836,765	83,303,285	509,974,219	48,433,482	274,972,392	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	18,644,794	15,873,278	17,834,107	8,112,367	16,096,614	33,617,052	--
Energy	54,574,085	54,742,475	66,388,895	277,336,444	32,336,868	243,394,859	--
Other ²	16,609	221,012	-919,517	224,525,408	--	-2,039,519	--

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	Pennsylvania Safe Harbor Water Power Corp ^a	Pennsylvania Susquehanna Electric Co ^a	Pennsylvania UGI Corp	Pennsylvania West Penn Power Co	Pennsylvania York Haven Power Co ^b	Rhode Island Blackstone Valley Electric Co ^c	Rhode Island Narragansett Electric Co
Investor-Owned							
Sales (thousand kWh)	1,094,390	1,788,123	552	8,394,285	141,544	--	569
Revenue (dollars)	28,244,563	27,010,365	8,396	205,904,379	4,335,808	--	64,904
Demand Charge Only ^d	--	--	--	--	--	--	--
Demand	--	7,055,347	--	70,089,212	--	--	--
Energy	--	2,562,513	8,396	127,171,893	4,335,808	--	58,205
Other ^e	28,244,563	17,392,505	--	8,643,274	--	--	6,699
Federal							
Sales (thousand kWh)	--	--	--	--	--	--	--
Revenue (dollars)	--	--	--	--	--	--	--
Demand Charge Only ^d	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ^e	--	--	--	--	--	--	--
State and Other							
Government							
Sales (thousand kWh)	--	--	--	--	--	--	--
Revenue (dollars)	--	--	--	--	--	--	--
Demand Charge Only ^d	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ^e	--	--	--	--	--	--	--
Municipal							
Sales (thousand kWh)	--	--	--	268,153	--	--	--
Revenue (dollars)	--	--	--	9,153,603	--	--	--
Demand Charge Only ^d	--	--	--	--	--	--	--
Demand	--	--	--	3,628,009	--	--	--
Energy	--	--	--	2,864,258	--	--	--
Other ^e	--	--	--	2,861,336	--	--	--
Cooperative							
Sales (thousand kWh)	--	--	--	1,067,218	--	--	--
Revenue (dollars)	--	--	--	35,620,100	--	--	--
Demand Charge Only ^d	--	--	--	--	--	--	--
Demand	--	--	--	16,130,714	--	--	--
Energy	--	--	--	16,956,968	--	--	--
Other ^e	--	--	--	2,532,418	--	--	--
Other^f							
Sales (thousand kWh)	--	--	--	245,923	--	--	30
Revenue (dollars)	--	--	--	5,157,222	--	--	3,454
Demand Charge Only ^d	--	--	--	--	--	--	--
Demand	--	--	--	1,487,404	--	--	--
Energy	--	--	--	3,669,818	--	--	3,128
Other ^e	--	--	--	--	--	--	326
Total							
Sales (thousand kWh)	1,094,390	1,788,123	552	9,875,579	141,544	--	599
Revenue (dollars)	28,244,563	27,010,365	8,396	255,835,304	4,335,808	--	68,358
Demand Charge Only ^d	--	--	--	--	--	--	--
Demand	--	7,055,347	--	91,335,339	--	--	--
Energy	--	2,562,513	8,396	150,662,937	4,335,808	--	61,333
Other ^e	28,244,563	17,392,505	--	13,837,028	--	--	7,025

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	Rhode Island Newport Electric Corp	Rhode Island Ocean State Power, 2 ^a	Rhode Island Ocean State Power Co ^b	South Carolina Lockhart Power Co	South Carolina South Carolina Electric & Gas Co	South Carolina South Carolina Generating Co Inc ^c	South Dakota Black Hills Corp
Investor-Owned							
Sales (thousand kWh)	--	2,142,114	2,188,181	--	21,867	2,772,738	2,215
Revenue (dollars)	--	104,841,911	107,317,783	--	754,639	73,108,210	44,300
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	86,052,958	88,151,529	--	--	--	--
Energy	--	18,788,953	19,166,234	--	754,639	73,108,210	44,300
Other ²	--	--	--	--	--	--	--
Federal							
Sales (thousand kWh)	--	--	--	--	--	--	--
Revenue (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
State and Other Government							
Sales (thousand kWh)	--	--	--	--	111,598	--	--
Revenue (dollars)	--	--	--	--	3,801,844	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	1,436,249	--	--
Energy	--	--	--	--	2,540,055	--	--
Other ²	--	--	--	--	-174,680	--	--
Municipal							
Sales (thousand kWh)	--	--	--	121,437	767,052	--	180,180
Revenue (dollars)	--	--	--	5,555,137	26,687,142	--	7,001,728
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	3,366,753	13,239,191	--	3,199,815
Energy	--	--	--	2,221,077	15,425,421	--	3,555,995
Other ²	--	--	--	-32,693	-1,977,470	--	245,918
Cooperative							
Sales (thousand kWh)	--	--	--	--	112,161	--	8,190
Revenue (dollars)	--	--	--	--	4,751,440	--	186,102
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	2,785,534	--	--
Energy	--	--	--	--	2,255,552	--	186,102
Other ²	--	--	--	--	-289,646	--	--
Other^d							
Sales (thousand kWh)	91,606	--	--	--	10,725	--	--
Revenue (dollars)	3,069,115	--	--	--	268,260	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	3,069,115	--	--	--	268,260	--	--
Other ²	--	--	--	--	--	--	--
Total							
Sales (thousand kWh)	91,606	2,142,114	2,188,181	121,437	1,023,403	2,772,738	170,585
Revenue (dollars)	3,069,115	104,841,911	107,317,783	5,555,137	36,263,125	73,108,210	7,232,130
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	86,052,958	88,151,529	3,366,753	17,460,974	--	3,199,815
Energy	3,069,115	18,788,953	19,166,234	2,221,077	21,243,927	73,108,210	3,786,397
Other ²	--	--	--	-32,693	-2,441,778	--	245,918

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	South Dakota Northwestern Public Service Co	Tennessee Kingsport Power Co ^a	Tennessee Tapoco Inc ^a	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)	77,807	--	--	--	890,364	2,723	287,126
Revenue (dollars)	1,051,806	--	--	--	31,896,726	61,979	27,797,744
Demand Charge Only ¹	56,000	--	--	--	--	--	--
Demand	--	--	--	--	17,316,000	--	22,109,106
Energy	995,486	--	--	--	6,132,998	61,979	5,688,638
Other ²	120	--	--	--	8,447,728	--	--
Federal							
Sales (thousand kWh)	37,740	--	--	--	--	--	--
Revenue (dollars)	495,953	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	495,953	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
State and Other Government							
Sales (thousand kWh)	10,199	--	--	--	902,438	54,177	28,320
Revenue (dollars)	125,119	--	--	--	46,311,301	1,433,909	689,772
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	1,760	--	--	--	31,238,000	250,333	21,230
Energy	123,266	--	--	--	3,566,121	1,183,576	668,542
Other ²	93	--	--	--	11,505,180	--	--
Municipal							
Sales (thousand kWh)	8,650	--	--	135,395	6,039	159,716	24,870
Revenue (dollars)	298,808	--	--	6,750,006	90,570	6,702,183	495,077
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	191,637	--	--	3,695,136	--	3,131,371	--
Energy	96,764	--	--	582,162	90,570	3,570,812	495,077
Other ²	10,207	--	--	2,472,708	--	--	--
Cooperative							
Sales (thousand kWh)	25,389	--	--	598,039	33,749	324,676	175,842
Revenue (dollars)	339,931	--	--	28,663,986	1,567,343	16,488,619	3,097,296
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	14,756,374	--	9,238,574	--
Energy	339,931	--	--	2,695,675	1,165,965	6,902,235	3,097,296
Other ²	--	--	--	11,211,937	401,378	347,810	--
Other³							
Sales (thousand kWh)	--	--	--	636,780	793,268	-1,006	49,711
Revenue (dollars)	--	--	--	14,928,107	36,281,601	-201,705	1,117,795
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	21,527,688	--	--
Energy	--	--	--	5,354,341	1,795,952	566,624	1,117,795
Other ²	--	--	--	9,573,766	12,957,961	-768,329	--
Total							
Sales (thousand kWh)	159,785	--	--	1,370,214	2,625,858	540,286	565,969
Revenue (dollars)	2,311,217	--	--	50,342,099	116,147,541	24,484,985	33,197,684
Demand Charge Only ¹	56,000	--	--	--	--	--	--
Demand	193,397	--	--	18,451,510	70,081,688	12,620,278	22,130,336
Energy	2,051,400	--	--	8,632,178	12,753,606	12,285,226	11,067,348
Other ²	10,420	--	--	23,258,411	33,312,247	-420,519	--

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (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)	--	1,825,674	2,181,905	--	216,811	963,326	--
Revenue (dollars)	--	48,351,526	104,301,849	--	6,318,423	38,035,842	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	15,682,566	43,362,024	--	1,695,810	24,606,135	--
Energy	--	22,343,822	29,530,986	--	4,584,661	14,071,949	--
Other ²	--	10,325,138	31,408,839	--	37,952	-642,242	--
Federal							
Sales (thousand kWh)	--	24,289	--	--	--	--	--
Revenue (dollars)	--	549,578	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	549,578	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Sales (thousand kWh)	--	10,350	150	--	*33	122,510	--
Revenue (dollars)	--	258,100	5,118	--	22,637	3,587,216	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	545,685	--
Energy	--	258,100	5,118	--	13,158	3,041,531	--
Other ²	--	--	--	--	9,479	--	--
Municipal							
Sales (thousand kWh)	--	438,428	67,596	--	92,137	103,421	--
Revenue (dollars)	--	12,372,100	3,597,433	--	2,536,693	4,441,526	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	3,011,040	2,059,136	--	435,600	2,914,743	--
Energy	--	3,368,580	1,259,184	--	2,099,118	1,812,209	--
Other ²	--	5,992,480	279,103	--	1,975	-285,426	--
Cooperative							
Sales (thousand kWh)	93,368	3,259,376	1,750,072	3,174	1,359,915	3	--
Revenue (dollars)	4,505,093	113,471,288	105,141,108	244,849	45,992,399	2,543	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	1,496,346	42,129,042	46,224,935	108,832	15,523,379	2,344	--
Energy	2,549,870	13,123,262	21,916,582	106,049	30,380,032	199	--
Other ²	458,877	58,218,984	36,999,591	29,968	88,988	--	--
Other³							
Sales (thousand kWh)	1,080	233,733	6,602	--	281,990	408,368	--
Revenue (dollars)	55,958	4,370,349	141,326	--	5,962,958	17,353,472	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	21,812	--	--	--	--	7,274,888	--
Energy	26,410	5,462,311	141,326	--	5,236,925	10,078,584	--
Other ²	7,736	-1,091,962	--	--	726,033	--	--
Total							
Sales (thousand kWh)	94,448	5,791,850	4,006,325	3,174	1,950,986	1,597,628	--
Revenue (dollars)	4,561,051	179,372,941	213,186,834	244,849	60,833,110	63,420,599	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	1,518,158	60,822,648	91,846,095	108,832	17,654,789	35,343,795	--
Energy	2,576,280	45,105,653	52,853,206	106,049	42,313,894	29,004,472	--
Other ²	466,613	73,444,640	68,687,533	29,968	864,427	-927,668	--

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	Vermont Green Mountain Power Corp	Vermont Vermont Electric Power Co Inc	Vermont Vermont Electric Trans Co ^a	Vermont Vermont Marble Co ^a	Vermont Vermont Yankee Nuclear Power Corp ^a	Virginia Appalachian Power Co	Virginia Virginia Electric Power Co
Investor-Owned							
Sales (thousand kWh)	271,586	472,593	—	—	3,734,595	4,920,323	688,119
Revenue (dollars)	11,908,124	14,188,835	—	—	175,918,744	141,329,374	16,781,063
Demand Charge Only ¹	—	—	—	—	—	2,231,658	—
Demand	6,215,853	6,381,177	—	—	—	32,136,286	4,149,583
Energy	5,804,809	7,788,253	—	—	—	105,823,757	12,631,480
Other ²	-112,538	19,405	—	—	175,918,744	1,137,673	—
Federal							
Sales (thousand kWh)	—	—	—	—	—	19,230	—
Revenue (dollars)	—	—	—	—	—	477,358	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	—	—	—	—	—	477,358	—
Other ²	—	—	—	—	—	—	—
State and Other							
Government							
Sales (thousand kWh)	30,527	18	—	—	—	—	—
Revenue (dollars)	1,105,926	753	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	281,713	—	—	—	—	—	—
Energy	824,213	753	—	—	—	—	—
Other ²	—	—	—	—	—	—	—
Municipal							
Sales (thousand kWh)	53,540	306,034	—	—	—	2,300,460	57,453
Revenue (dollars)	3,007,122	12,698,258	—	—	—	77,984,609	2,971,198
Demand Charge Only ¹	3,000	—	—	—	—	—	—
Demand	1,078,188	9,297,083	—	—	—	1,826,845	1,854,837
Energy	2,171,058	2,809,974	—	—	—	74,728,478	1,139,930
Other ²	-245,124	591,201	—	—	—	1,429,286	-23,569
Cooperative							
Sales (thousand kWh)	19,203	79,872	—	—	—	166,069	2,570,413
Revenue (dollars)	1,149,996	3,453,973	—	—	—	6,594,875	118,402,161
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	499,347	2,631,527	—	—	—	211,491	67,344,697
Energy	714,159	645,326	—	—	—	6,251,487	51,705,867
Other ²	-63,510	177,120	—	—	—	131,697	-648,403
Other³							
Sales (thousand kWh)	1,040	—	—	—	—	1,394,500	1,336,420
Revenue (dollars)	24,700	—	—	—	—	26,724,591	49,612,776
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	23,362,457
Energy	24,700	—	—	—	—	26,556,459	26,661,949
Other ²	—	—	—	—	—	168,132	-411,630
Total							
Sales (thousand kWh)	375,896	858,517	—	—	3,734,595	8,800,582	4,652,405
Revenue (dollars)	17,195,868	30,341,819	—	—	175,918,744	253,110,807	187,767,198
Demand Charge Only ¹	3,000	—	—	—	—	2,231,658	—
Demand	8,075,101	18,309,787	—	—	—	34,174,622	96,711,574
Energy	9,538,939	11,244,306	—	—	—	213,837,539	92,139,226
Other ²	-421,172	787,726	—	—	175,918,744	2,866,988	-1,083,602

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	Washington Puget Sound Power & Light Co	Washington Washington Water Power Co	West Virginia Kanawha Valley Power Co ^a	West Virginia Monongahela Power Co	West Virginia UtiliCorp United Inc ^a	West Virginia Wheeling Power Co ^a	Wisconsin Consolidated Water Power Co
Investor-Owned							
Sales (thousand kWh)	849,026	2,222,924	276,073	4,264,124	—	—	1,106
Revenue (dollars)	19,440,075	69,886,764	4,273,090	125,415,822	—	—	6,924
Demand Charge Only ¹	—	8,368,000	—	—	—	—	—
Demand	—	7,931,384	2,966,196	39,205,463	—	—	—
Energy	19,374,898	53,587,400	1,286,894	65,321,935	—	—	6,924
Other ²	65,177	—	—	20,888,424	—	—	—
Federal							
Sales (thousand kWh)	158,247	388,999	—	—	—	—	—
Revenue (dollars)	4,292,772	8,152,732	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	—	—	—	—
Energy	4,269,673	8,152,732	—	—	—	—	—
Other ²	23,099	—	—	—	—	—	—
State and Other Government							
Sales (thousand kWh)	63,947	246,610	—	—	—	—	—
Revenue (dollars)	1,311,573	3,443,652	—	—	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	20,633	480,500	—	—	—	—	—
Energy	1,249,172	2,963,152	—	—	—	—	—
Other ²	41,768	—	—	—	—	—	—
Municipal							
Sales (thousand kWh)	212,325	109,832	—	81,022	—	—	—
Revenue (dollars)	5,047,206	4,353,124	—	2,737,998	—	—	—
Demand Charge Only ¹	—	682,002	—	—	—	—	—
Demand	1,265,069	760,324	—	1,091,365	—	—	—
Energy	3,669,405	2,910,798	—	1,786,616	—	—	—
Other ²	112,732	—	—	-139,983	—	—	—
Cooperative							
Sales (thousand kWh)	—	193,217	—	709,264	—	—	—
Revenue (dollars)	—	6,126,512	—	21,420,677	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	905,366	—	7,803,665	—	—	—
Energy	—	5,221,146	—	13,764,905	—	—	—
Other ²	—	—	—	-147,893	—	—	—
Other³							
Sales (thousand kWh)	—	865	—	302,471	—	—	—
Revenue (dollars)	—	-172,273	—	6,139,630	—	—	—
Demand Charge Only ¹	—	—	—	—	—	—	—
Demand	—	—	—	908,834	—	—	—
Energy	—	11,357	—	5,230,796	—	—	—
Other ²	—	-183,630	—	—	—	—	—
Total							
Sales (thousand kWh)	1,283,545	3,162,447	276,073	5,376,881	—	—	1,106
Revenue (dollars)	30,091,826	91,790,531	4,273,090	155,714,127	—	—	6,924
Demand Charge Only ¹	—	9,050,002	—	—	—	—	—
Demand	1,265,702	10,077,574	2,966,196	49,009,327	—	—	—
Energy	28,563,148	72,646,585	1,286,894	86,104,252	—	—	6,924
Other ²	242,776	-183,630	—	20,600,548	—	—	—

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	Wisconsin Madison Gas & Electric Co	Wisconsin North Central Power Co Inc ^a	Wisconsin Northern States Power Co ^b	Wisconsin Northwestern Wisconsin Electric Co	Wisconsin Pioneer Power & Light Co	Wisconsin South Beloit Water Gas & Elec Co	Wisconsin Superior Water Light & Power Co ^c
Investor-Owned							
Sales (thousand kWh)	26,770	--	--	--	9,578	6,532	--
Revenue (dollars)	572,571	--	--	--	375,365	134,169	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	117,396	23,862	--
Energy	572,571	--	--	--	309,384	110,307	--
Other ²	--	--	--	--	-51,415	--	--
Federal							
Sales (thousand kWh)	--	--	--	--	--	--	--
Revenue (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
State and Other							
Government							
Sales (thousand kWh)	1,995	--	--	--	--	--	--
Revenue (dollars)	29,492	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	29,492	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
Municipal							
Sales (thousand kWh)	--	--	396,040	4,483	--	--	--
Revenue (dollars)	--	--	14,833,792	191,858	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	5,239,335	52,295	--	--	--
Energy	--	--	9,676,331	144,339	--	--	--
Other ²	--	--	-81,874	-4,776	--	--	--
Cooperative							
Sales (thousand kWh)	--	--	--	--	--	--	--
Revenue (dollars)	--	--	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
Other^d							
Sales (thousand kWh)	--	--	-2,230	--	--	--	--
Revenue (dollars)	--	--	-78,461	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	--	--	--	--	--
Energy	--	--	--	--	--	--	--
Other ²	--	--	-78,461	--	--	--	--
Total							
Sales (thousand kWh)	30,765	--	393,810	4,483	9,578	6,532	--
Revenue (dollars)	602,063	--	14,755,331	191,858	375,365	134,169	--
Demand Charge Only ¹	--	--	--	--	--	--	--
Demand	--	--	5,239,335	52,295	117,396	23,862	--
Energy	602,063	--	9,676,331	144,339	309,384	110,307	--
Other ²	--	--	-160,335	-4,776	-51,415	--	--

See notes and footnotes at end of table.

Table 20. Electricity Sales for Resale by Investor-Owned Utilities, by State, 1992 (Continued)

Purchaser of Electricity by Ownership Class	Wisconsin Wisconsin Electric Power Co	Wisconsin Wisconsin Power & Light Co	Wisconsin Wisconsin Public Service Corp	Wisconsin Wisconsin River Power Co ⁴	Wyoming Cheyenne Light Fuel & Power Co ⁴
Investor-Owned					
Sales (thousand kWh)	680,061	365,501	1,018,609	229,290	--
Revenue (dollars)	18,984,120	12,143,425	27,700,490	5,614,824	--
Demand Charge Only ¹	--	--	718,667	--	--
Demand	5,461,587	1,126,500	8,740,990	--	--
Energy	13,581,945	8,337,968	21,258,546	5,614,824	--
Other ²	-59,412	4,678,957	-3,015,713	--	--
Federal					
Sales (thousand kWh)	--	--	--	--	--
Revenue (dollars)	--	--	--	--	--
Demand Charge Only ¹	--	--	--	--	--
Demand	--	--	--	--	--
Energy	--	--	--	--	--
Other ²	--	--	--	--	--
State and Other					
Government					
Sales (thousand kWh)	1,179,599	436,485	35	--	--
Revenue (dollars)	41,805,826	16,038,696	687	--	--
Demand Charge Only ¹	--	--	--	--	--
Demand	13,878,767	5,846,821	--	--	--
Energy	29,632,430	10,259,465	687	--	--
Other ²	-1,705,371	-67,590	--	--	--
Municipal					
Sales (thousand kWh)	322,211	1,133,294	1,016,820	--	--
Revenue (dollars)	11,454,580	38,436,967	33,783,708	--	--
Demand Charge Only ¹	-26,225	--	--	--	--
Demand	4,157,290	16,512,416	14,265,031	--	--
Energy	7,784,271	27,506,662	24,037,089	--	--
Other ²	-460,756	-5,582,091	-4,518,412	--	--
Cooperative					
Sales (thousand kWh)	22,822	434,557	9,529	--	--
Revenue (dollars)	923,580	14,004,515	387,008	--	--
Demand Charge Only ¹	--	--	--	--	--
Demand	392,692	6,210,604	180,333	--	--
Energy	546,135	9,970,739	244,169	--	--
Other ²	-15,247	-2,176,828	-37,494	--	--
Other³					
Sales (thousand kWh)	239,337	5,260	--	--	--
Revenue (dollars)	7,698,954	501,509	--	--	--
Demand Charge Only ¹	--	--	--	--	--
Demand	2,548,022	--	--	--	--
Energy	5,709,539	--	--	--	--
Other ²	-559,607	501,509	--	--	--
Total					
Sales (thousand kWh)	2,444,030	2,375,097	2,044,993	229,290	--
Revenue (dollars)	80,867,060	81,125,132	61,871,893	5,614,824	--
Demand Charge Only ¹	-26,225	--	718,667	--	--
Demand	26,439,358	29,696,341	23,186,354	--	--
Energy	57,254,320	54,074,834	45,540,491	5,614,824	--
Other ²	-2,600,393	-2,646,043	-7,571,619	--	--

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 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, 1992

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 Company	--	--	--	1,205	1,717	--	--
Arizona							
Arizona Public Service Company	--	--	--	--	--	--	19,832
Tucson Electric Power Company	186,209	139,964	--	--	--	--	--
Arkansas							
Arkansas Power & Light Company	--	--	--	243,947	223,200	--	--
California							
Pacific Gas & Electric Company	644,628	630,192	-586,594	791,632	3,817,346	-29,338,646	468,659
San Diego Gas & Electric Co	46,345	42,445	--	116,963	148,575	--	10,209
Southern California Edison Co	149,306	224,177	-1,874,567	265,000	304,750	-319,664	--
Colorado							
Public Service Co of Colorado	21,383	76,432	--	4,512,639	3,638,552	1,106	1,216,063
UtiliCorp United Inc	4,221	4,219	210	--	--	--	--
Connecticut							
United Illuminating Company	348,237	--	8,682,259	--	--	--	11,228
Florida							
Florida Power & Light Company	--	--	--	--	--	--	--
Hawaii							
Maui Electric Company Ltd	--	--	--	--	--	--	--
Idaho							
Idaho Power Company	111,323	111,213	3,540	294,685	329,616	707,308	--
Illinois							
Central Illinois Light Company	50	920	-20,886	--	--	--	--
Central Illinois Pub Serv Co	2,191	1,794	8,980	--	--	--	--
Indiana							
Alcoa Generating Corporation	150,652	151,046	--	--	--	--	--
Indianapolis Power & Light Co	175	957	--	--	--	--	--
Northern Indiana Pub Serv Co	1,114	946	--	--	--	--	--
PSI Energy Inc	13,839	13,733	1,484	--	--	--	--
Kansas							
Kansas Gas & Electric Company	21,621	469,533	--	--	--	--	--
Western Resources Inc	472,409	74,381	700,867	--	--	--	--
Kentucky							
Kentucky Utilities Company	3,672	1,850	--	246,359	242,462	--	--
Louisville Gas & Electric Co	18,042	19,980	--	--	--	--	--
Maine							
Maine Public Service Company	--	--	--	--	--	--	--
Maryland							
Baltimore Gas & Electric Co	--	--	--	--	--	--	--
Potomac Edison Co	203,888	195,495	196,896	--	--	--	--
Massachusetts							
New England Power Company	9,506	7,014	--	--	--	--	--
Michigan							
Detroit Edison Company	281,751	223,979	--	--	--	--	--
Upper Peninsula Power Company	46,232	1,728	1,038,041	--	--	--	--
Minnesota							
Northern States Power Company	4,853,133	13,728,804	--	2,671,992	--	--	132,842
Missouri							
Empire District Electric Co	6,783	4,145	--	--	--	--	--
Kansas City Power & Light Co	--	--	--	--	--	--	--
UtiliCorp United Inc	--	--	--	--	--	--	--
Montana							
Montana Power Company	606,989	628,657	20,083	656,213	848,730	-1,396,566	13,232
New Mexico							
Public Service Company of NM	185,216	232,618	--	14,987	4,102	--	5,710
New York							
Central Hudson Gas & Elec Corp	--	--	--	--	--	--	--
Consolidated Edison Co-NY Inc	--	--	--	--	--	--	175,990
New York State Elec & Gas Corp	--	--	--	--	--	--	110,135
North Carolina							
Duke Power Company	5,013	6,815	--	--	--	--	657,781
Yadkin Inc	2,231	2,113	--	--	--	--	--
North Dakota							
MDU Resources Group Inc	--	--	--	16,366	10,237	--	--
Ohio							
Cincinnati Gas & Electric Co	3,036	1,980	--	--	--	--	--
Cleveland Electric Illum Co	209,918	236,684	1,067,490	--	--	--	--
Dayton Power & Light Company	22,617	8,787	258,728	--	--	--	--
Ohio Edison Company	366,849	76,550	4,350,452	--	--	--	--
Ohio Power Company	51,685	2,757	--	--	--	--	--
Toledo Edison Company	61,401	155,394	-2,003,898	--	--	--	--

See notes and footnotes at end of table.

Table 21. Electricity Exchanges by Investor-Owned Utilities, by State, 1992 (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 Company	--	--	--	--	--	--	--
Arizona							
Arizona Public Service Company	21,043	--	--	--	--	4,748	13,647
Tucson Electric Power Company	--	--	--	--	--	--	--
Arkansas							
Arkansas Power & Light Company	--	--	--	--	--	--	--
California							
Pacific Gas & Electric Company	--	17,286,408	--	--	--	--	--
San Diego Gas & Electric Co	11,561	--	--	--	--	--	--
Southern California Edison Co	--	--	28,220	--	800,865	--	--
Colorado							
Public Service Co of Colorado	1,214,833	--	369,784	384,441	13,842,080	72,924	524,598
UtiliCorp United Inc	--	--	--	--	--	--	--
Connecticut							
United Illuminating Company	15,374	--	--	--	--	--	--
Florida							
Florida Power & Light Company	--	--	--	--	--	4,009	3,177
Hawaii							
Maul Electric Company Ltd	--	--	--	--	--	--	--
Idaho							
Idaho Power Company	--	--	108,000	126,000	--	--	--
Illinois							
Central Illinois Light Company	--	--	314	2,718	-57,235	--	--
Central Illinois Pub Serv Co	--	--	220	290	-1,583	--	--
Indiana							
Alcoa Generating Corporation	--	--	--	--	--	--	--
Indianapolis Power & Light Co	--	--	--	--	--	--	543
Northern Indiana Pub Serv Co	--	--	--	--	--	--	--
PSI Energy Inc	--	--	--	--	--	8,138	5,374
Kansas							
Kansas Gas & Electric Company	--	--	--	--	--	--	--
Western Resources Inc	--	--	--	--	--	--	--
Kentucky							
Kentucky Utilities Company	--	--	--	--	--	149,299	151,718
Louisville Gas & Electric Co	--	--	--	--	--	2,814	7,514
Maine							
Maine Public Service Company	--	--	--	--	--	--	--
Maryland							
Baltimore Gas & Electric Co	--	--	--	--	--	--	--
Potomac Edison Co	--	--	--	--	--	--	--
Massachusetts							
New England Power Company	--	--	--	--	--	--	--
Michigan							
Detroit Edison Company	--	--	--	--	--	--	--
Upper Peninsula Power Company	--	--	--	20	-6,188	--	--
Minnesota							
Northern States Power Company	730,901	--	2,260	281,817	--	9,220,634	6,888,153
Missouri							
Empire District Electric Co	--	--	--	--	--	--	--
Kansas City Power & Light Co	--	--	--	--	--	10,045	7,567
UtiliCorp United Inc	--	--	--	--	--	54,958	45,912
Montana							
Montana Power Company	29,927	-101,426	20,663	45,241	-491,820	--	--
New Mexico							
Public Service Company of NM	5,948	--	8,610	8,448	--	62,528	72,563
New York							
Central Hudson Gas & Elec Corp	--	--	--	--	--	--	--
Consolidated Edison Co-NY Inc	211,686	6,601,596	--	--	--	--	--
New York State Elec & Gas Corp	165,457	2,732,400	--	--	--	--	--
North Carolina							
Duke Power Company	563,931	519,823	219,238	187,963	102,497	1,569,193	1,339,894
Yadkin Inc	--	--	--	--	--	--	--
North Dakota							
MDU Resources Group Inc	--	--	--	--	--	3,413	2,411
Ohio							
Cincinnati Gas & Electric Co	--	--	--	10,712	--	225	48,474
Cleveland Electric Illum Co	--	--	--	--	--	--	--
Dayton Power & Light Company	--	--	--	--	--	--	--
Ohio Edison Company	--	--	--	--	--	--	--
Ohio Power Company	--	--	15,881	16,056	--	--	--
Toledo Edison Company	--	--	--	--	--	--	--

See notes and footnotes at end of table.

Table 21. Electricity Exchanges by Investor-Owned Utilities, by State, 1992 (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 Company	—	—	—	—	1,205	1,717	—
Arizona							
Arizona Public Service Company	—	708	2,792	—	25,288	37,482	—
Tucson Electric Power Company	—	—	—	—	168,209	139,964	—
Arkansas							
Arkansas Power & Light Company	—	—	—	—	243,947	223,200	—
California							
Pacific Gas & Electric Company	—	55,269	62,195	-251,413	1,960,188	4,509,733	-12,890,245
San Diego Gas & Electric Co	—	—	—	—	173,517	202,581	—
Southern California Edison Co	—	—	—	—	442,526	528,927	-1,393,366
Colorado							
Public Service Co of Colorado	—	129,831	22,249	—	6,322,824	5,861,105	13,843,186
UtiliCorp United Inc	—	—	—	—	4,221	4,219	210
Connecticut							
United Illuminating Company	—	—	—	—	359,465	15,374	8,682,259
Florida							
Florida Power & Light Company	—	—	—	—	4,009	3,177	—
Hawaii							
Maui Electric Company Ltd	—	3,645	3,054	14,876	3,645	3,054	14,876
Idaho							
Idaho Power Company	—	—	—	—	514,008	566,829	710,848
Illinois							
Central Illinois Light Company	—	—	—	—	364	3,638	-78,121
Central Illinois Pub Serv Co	—	—	—	—	2,411	2,084	7,397
Indiana							
Alcoa Generating Corporation	—	—	—	—	150,652	151,048	—
Indianapolis Power & Light Co	—	2,271	1,468	—	2,446	2,968	—
Northern Indiana Pub Serv Co	—	—	—	—	1,114	946	—
PSI Energy Inc	38,696	62,710	65,823	—	84,687	84,930	40,180
Kansas							
Kansas Gas & Electric Company	—	—	—	—	21,621	469,533	—
Western Resources Inc	—	—	—	—	472,409	24,381	700,867
Kentucky							
Kentucky Utilities Company	—	93	—	—	399,423	396,030	—
Louisville Gas & Electric Co	—	—	—	—	20,856	27,494	—
Maine							
Maine Public Service Company	—	—	2,232	—	—	2,232	—
Maryland							
Baltimore Gas & Electric Co	—	1,147,276	—	34,626,119	1,147,276	—	34,626,119
Potomac Edison Co	—	—	—	—	203,888	195,495	196,896
Massachusetts							
New England Power Company	—	—	—	—	9,506	7,014	—
Michigan							
Detroit Edison Company	—	—	—	—	281,751	223,979	—
Upper Peninsula Power Company	—	1,617	18,831	-463,155	47,849	20,579	568,718
Minnesota							
Northern States Power Company	—	1	408,271	—	16,880,862	21,837,946	—
Missouri							
Empire District Electric Co	—	—	—	—	6,783	4,145	—
Kansas City Power & Light Co	32,214	—	—	—	10,045	7,567	32,214
UtiliCorp United Inc	-2,202	1,406,548	1,406,999	—	1,461,506	1,452,911	-2,202
Montana							
Montana Power Company	—	8,785,423	8,785,447	—	10,082,520	10,338,002	-1,969,729
New Mexico							
Public Service Company of NM	—	4,292	2,393	—	281,343	326,072	—
New York							
Central Hudson Gas & Elec Corp	—	68,396	3,661	—	68,396	3,661	—
Consolidated Edison Co-NY Inc	—	—	—	—	175,990	211,686	6,601,596
New York State Elec & Gas Corp	—	—	—	—	110,135	165,457	2,732,400
North Carolina							
Duke Power Company	1,308,236	65,269	64,657	—	2,516,494	2,163,260	2,330,556
Yadkin Inc	—	—	—	—	2,231	2,113	—
North Dakota							
MDU Resources Group Inc	—	—	—	—	19,779	12,648	—
Ohio							
Cincinnati Gas & Electric Co	—	—	37	—	3,261	61,203	—
Cleveland Electric Illum Co	—	—	—	—	209,918	236,684	1,067,490
Dayton Power & Light Company	—	—	—	—	22,617	8,787	258,728
Ohio Edison Company	—	—	—	—	366,849	76,550	4,350,452
Ohio Power Company	—	—	—	—	67,566	18,813	—
Toledo Edison Company	—	390,854	575,003	17,000,000	452,255	730,397	14,996,102

See notes and footnotes at end of table.

Table 21. Electricity Exchanges by Investor-Owned Utilities, by State, 1992 (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	30,347	30,347	—	122,160	123,843	63,585	645,227
Oregon							
PacifiCorp	1,381,881	1,232,386	-74,616	18,783,093	18,847,473	-63,832,403	1,468,399
Portland General Electric Co	559,868	467,395	-98,814	560,639	566,255	-1,060,458	59,680
Pennsylvania							
Duquesne Light Company	155,897	189,996	—	—	—	—	—
West Penn Power Company	70,782	59,287	273,134	—	—	—	—
South Dakota							
Black Hills Corporation	7,514	8,321	—	9,248	11,640	—	—
Texas							
Central Power & Light Company	33,629	31,345	1,500	—	—	—	32,844
El Paso Electric Company	17,568	69,360	—	—	—	—	—
Houston Lighting & Power Co	2,804,985	10,272,882	—	—	—	—	13,110
Texas Utilities Electric Co	11,471,339	7,268,429	—	—	—	—	1,330,016
Vermont							
Citizens Utilities Company	61,744	28,420	361,603	—	—	—	8,185
Virginia							
Virginia Electric & Power Co	21,385	21,433	—	12,709	11,879	—	—
Washington							
Puget Sound Power & Light Co	452,347	448,972	11,710	735,488	779,628	-2,118,808	25,246
Washington Water Power Company	818,096	813,793	-1,128,743	345,455	274,703	1,700,609	135,991
West Virginia							
Monongahela Power Company	40,355	27,765	264,114	—	—	—	—
Wisconsin							
North Central Power Co Inc	2,617	2,617	—	—	—	—	—
Northern States Power Company	8,145,888	4,362,592	—	—	—	—	—
Wisconsin Power & Light Co	31	532	—	—	—	—	—
Wisconsin Public Service Corp	235	235	—	—	—	—	532

	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	643,771	—	—	—	—	—	—
Oregon							
PacifiCorp	1,502,144	-261,728	27,831	31,578	-304,990	487,915	453,699
Portland General Electric Co	64,942	5,280	22,377	28,239	-3,940	—	—
Pennsylvania							
Duquesne Light Company	—	—	—	—	—	—	—
West Penn Power Company	—	—	—	—	—	—	—
South Dakota							
Black Hills Corporation	—	—	—	—	—	—	—
Texas							
Central Power & Light Company	33,550	700	—	—	—	86,371	84,574
El Paso Electric Company	10,310	—	—	—	—	—	—
Houston Lighting & Power Co	25,643	—	2,169	683,738	—	—	—
Texas Utilities Electric Co	1,029,735	—	—	—	—	—	—
Vermont							
Citizens Utilities Company	14,496	-553,195	2,320	—	88,146	—	—
Virginia							
Virginia Electric & Power Co	—	—	—	—	—	—	—
Washington							
Puget Sound Power & Light Co	—	277,706	1,080	28,397	-360	—	—
Washington Water Power Company	139,519	556,969	530	320	3,759	—	—
West Virginia							
Monongahela Power Company	—	—	—	—	—	—	—
Wisconsin							
North Central Power Co Inc	—	—	—	—	—	—	—
Northern States Power Company	234,686	—	2,617	16,693	—	3,328,674	2,445,282
Wisconsin Power & Light Co	—	—	—	—	—	—	—
Wisconsin Public Service Corp	532	—	—	—	—	—	—

See notes and footnotes at end of table.

Table 21. Electricity Exchanges by Investor-Owned Utilities, by State, 1992 (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	--	--	--	--	797,734	797,961	63,585
Oregon							
PacifiCorp	--	--	--	--	22,148,119	21,867,280	-64,473,737
Portland General Electric Co	--	--	--	--	1,202,564	1,126,831	-1,157,932
Pennsylvania							
Duquesne Light Company	--	2,016	4,129	--	157,913	194,125	--
West Penn Power Company	--	--	--	--	70,782	59,287	273,134
South Dakota							
Black Hills Corporation	--	--	--	--	16,762	19,961	--
Texas							
Central Power & Light Company	--	21,237	21,448	--	174,081	170,917	2,200
El Paso Electric Company	--	--	--	--	17,568	79,670	--
Houston Lighting & Power Co	--	8,265,134	102,551	--	11,085,398	11,084,814	--
Texas Utilities Electric Co	--	3,515,932	8,018,374	--	16,317,287	16,316,538	--
Vermont							
Citizens Utilities Company	--	--	--	--	72,249	42,916	-103,446
Virginia							
Virginia Electric & Power Co	--	156,484	156,348	--	190,578	189,660	--
Washington							
Puget Sound Power & Light Co	--	--	--	--	1,214,161	1,256,997	-1,829,752
Washington Water Power Company	--	1,600	1,617	--	1,301,672	1,229,952	1,132,594
West Virginia							
Monongahela Power Company	--	--	--	--	40,355	27,765	264,114
Wisconsin							
North Central Power Co Inc	--	--	--	--	2,617	2,617	--
Northern States Power Company	--	13,566	--	--	11,490,745	7,059,253	--
Wisconsin Power & Light Co	--	--	--	--	31	532	--
Wisconsin Public Service Corp	--	--	--	--	767	767	--

¹ Includes transactions with 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, 1992

State / Utility	Purchases (Thousand Kilowatthours)						
	Investor- Owned	Federal	State and Other Government	Municipal	Cooperative	Other ¹	Total
Alaska							
Haines Light & Power Co Inc	--	--	--	--	--	1,056	1,056
Napaklak Irinaq Power Company	570	--	--	--	--	--	570
Arizona							
Morenci Water & Electric Co	--	--	--	--	25,948	--	25,948
Hawaii							
Hawaii Electric Light Co Inc	--	--	--	--	--	181,033	181,033
Idaho							
Atlanta Power Company Inc	--	--	--	--	--	175	175
Rhode Island							
Block Island Power Company	--	--	--	--	--	6	6
Utah							
Panaca Power & Light Company	--	--	5,728	--	--	--	5,728

¹ Includes transactions with 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, 1992

State / Utility	Investor-Owned		Federal		State and Other Government		Municipal
	Wheeled Energy (thousand kWh) ^a	Revenue (dollars)	Wheeled Energy (thousand kWh) ^a	Revenue (dollars)	Wheeled Energy (thousand kWh) ^a	Revenue (dollars)	Wheeled Energy (thousand kWh) ^a
Alabama							
Alabama Power Company	241,568	346,713	548,678	6,124,840	--	--	--
Arizona							
Arizona Public Service Company	1,098,173	3,290,701	2,302	2,160	585,559	2,567,535	14,257
Citizens Utilities Company	--	--	--	--	7,456	--	--
Tucson Electric Power Company	1,184,504	64,950	--	--	12,231	125,469	--
Arkansas							
Arkansas Power & Light Company	--	--	--	--	--	--	--
California							
Pacific Gas & Electric Company	77,081	178,993	4,800,333	16,355,945	10,686,524	23,291,919	932,834
San Diego Gas & Electric Co	382,811	3,389,549	--	93,800	790	152,690	6,791
Southern California Edison Co	831,605	2,923,017	155,509	1,259,555	1,275,966	7,853,061	3,719,991
Colorado							
Public Service Co of Colorado	--	415,003	158,259	2,984,949	--	144,334	33,489
UtiliCorp United Inc	--	74,081	800	13,027	25,127	54,346	--
Connecticut							
Connecticut Light & Power Co	2,869,110	12,144,376	--	--	205,780	2,801,503	279,916
United Illuminating Company	--	--	--	--	--	--	--
Delaware							
Delmarva Power & Light Company	1,545,846	685,839	--	--	--	--	--
Florida							
Florida Power & Light Company	43,934	94,458	--	--	307,288	1,335,351	2,346,496
Florida Power Corporation	168,746	437,815	197,591	212,590	--	--	483,524
Tampa Electric Company	--	--	--	--	--	--	--
Georgia							
Georgia Power Company	--	--	2,067,345	165,242	--	--	--
Idaho							
Idaho Power Company	1,559,076	2,541,287	1,740,879	6,062,807	--	--	84,879
Illinois							
Central Illinois Light Company	--	--	--	--	--	--	66,081
Central Illinois Pub Serv Co	--	--	--	--	--	--	1,022,998
Commonwealth Edison Company	--	--	--	--	--	--	204,973
Illinois Power Company	--	--	--	--	--	--	402,468
Indiana							
Commonwealth Edison of Indiana	--	302,402	--	--	--	--	--
Indiana Michigan Power Co	380,662	2,144,767	--	--	142,470	1,302,969	47,824
Northern Indiana Pub Serv Co	--	--	--	--	65,808	458,899	--
PSI Energy Inc	2,071,587	5,520,000	--	--	517,288	401,378	--
Southern Indiana Gas & Elec Co	1,850	5,662	--	--	--	--	2,856
Iowa							
Interstate Power Company	--	290,070	305,576	--	199,543	641,974	305,201
Iowa Electric Light & Power Co	15,057	46,112	--	--	--	--	24,705
Iowa Southern Utilities Co	--	--	--	--	--	--	--
Midwest Power Systems Inc	567,508	971,200	576,514	789,914	--	--	335,621
Kansas							
Kansas Gas & Electric Company	175	1,057,032	--	--	17,013	629,950	207,402
Western Resources Inc	--	--	--	--	--	--	8,353
Kentucky							
Kentucky Power Company	139,959	794,815	--	--	--	--	9,719
Kentucky Utilities Company	--	--	--	--	--	--	--
Louisville Gas & Electric Co	--	--	210	210	--	--	--
Louisiana							
Central Louisiana Elec Co Inc	--	180	--	--	719,698	1,880,640	1,410,175
Louisiana Power & Light Co	--	449,663	--	--	--	1,040,614	--
Southwestern Electric Power Co	--	--	--	--	214,672	833,622	46,650
Maine							
Bangor Hydro-Electric Company	71,747	96,565	--	--	--	--	--
Central Maine Power Company	3,352,814	1,764,036	--	--	828,956	1,226,435	--
Maine Electric Power Co Inc	1,622,277	1,271,332	--	--	757,210	548,300	--
Maine Public Service Company	--	--	--	--	--	--	21,761
Maryland							
Baltimore Gas & Electric Co	--	1,573,366	--	--	--	--	--
Potomac Edison Co	3,122	5,049,981	--	--	--	--	235,092
Massachusetts							
Boston Edison Company	2,777,310	5,402,525	--	--	110,595	316,771	697,675
Great Bay Power Corp	--	--	--	--	--	--	--
Holyoke Water Power Company	--	--	--	--	--	--	320
Montaup Electric Company	--	501,423	--	--	--	73,612	--
New England Hydro Tran Elec Co	--	--	--	--	--	--	--

See notes and footnotes at end of table.

Table 23. Electricity Wheeling by Investor-Owned Utilities, by State, 1992 (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 Company	—	1,509,283	6,369,898	—	—	2,299,529	12,841,251
Arizona							
Arizona Public Service Company	108,475	185,304	1,167,963	90,859	521,288	1,958,454	7,658,120
Citizens Utilities Company	—	—	—	—	—	7,458	—
Tucson Electric Power Company	—	1,180,695	923,520	—	—	2,377,430	1,113,939
Arkansas							
Arkansas Power & Light Company	—	—	27,676	—	14,820,490	—	14,848,166
California							
Pacific Gas & Electric Company	10,894,958	—	—	51,346	5,781,247	16,548,118	58,503,062
San Diego Gas & Electric Co	11,495	—	—	—	—	390,192	3,647,534
Southern California Edison Co	16,884,235	—	154,836	908,986	—	6,893,057	29,074,704
Colorado							
Public Service Co of Colorado	86,183	443,405	136,607	257,355	641,222	892,508	4,408,298
UtiliCorp United Inc	—	51,951	163,958	11,452	45,229	89,330	350,641
Connecticut							
Connecticut Light & Power Co	721,842	191	23,197	—	3,769,405	3,154,997	19,260,323
United Illuminating Company	—	—	—	28,155	519,096	28,155	519,096
Delaware							
Delmarva Power & Light Company	—	—	—	—	—	1,545,646	685,839
Florida							
Florida Power & Light Company	7,416,240	—	—	3,788,013	14,206,401	6,486,731	23,052,450
Florida Power Corporation	3,665,046	16,013	10,154,927	513,052	1,832,948	1,358,926	16,303,326
Tampa Electric Company	—	—	—	59,012	206,883	59,012	206,883
Georgia							
Georgia Power Company	—	—	—	—	—	2,067,345	165,242
Idaho							
Idaho Power Company	742,839	—	—	9,344	15,137	3,394,178	9,362,070
Illinois							
Central Illinois Light Company	226,025	21,288	58,623	—	—	87,369	284,648
Central Illinois Pub Serv Co	4,700,745	956,984	7,196,629	—	—	1,979,982	11,897,374
Commonwealth Edison Company	1,068,348	—	—	—	—	204,973	1,068,348
Illinois Power Company	1,191,117	—	—	—	—	402,468	1,191,117
Indiana							
Commonwealth Edison of Indiana	—	—	—	—	—	—	302,402
Indiana Michigan Power Co	213,678	739,746	6,278,097	—52,101	—	1,258,601	9,939,511
Northern Indiana Pub Serv Co	—	886,192	8,160,785	—	—	952,000	8,619,484
PSI Energy Inc	—	2,539,933	3,864,130	—	—	5,128,808	9,785,508
Southern Indiana Gas & Elec Co	428	32,173	64,559	—	—	36,879	70,649
Iowa							
Interstate Power Company	1,239,380	482,435	1,203,631	—	—	1,292,755	3,375,055
Iowa Electric Light & Power Co	23,449	—	—	—	—	39,782	69,561
Iowa Southern Utilities Co	—	—	—	204,941	101,324	204,941	101,324
Midwest Power Systems Inc	162,865	101,853	70,154	97,640	7,650	1,679,336	2,001,783
Kansas							
Kansas Gas & Electric Company	625,525	876	2,892,107	—	—	225,466	5,204,614
Western Resources Inc	46,585	240,924	2,264,238	—	—	249,277	2,310,823
Kentucky							
Kentucky Power Company	46,004	39,460	59,192	—	—	189,138	900,011
Kentucky Utilities Company	—	893,952	897,378	—	—	893,952	897,378
Louisville Gas & Electric Co	—	165,160	165,160	—	—	165,370	165,370
Louisiana							
Central Louisiana Elec Co Inc	3,765,730	1,009,165	5,106,265	—	—	3,139,038	10,752,815
Louisiana Power & Light Co	—	—	5,564,522	—	—	—	7,054,799
Southwestern Electric Power Co	165,682	364,107	1,313,179	—	—	625,429	2,312,483
Maine							
Bangor Hydro-Electric Company	—	—	—	—	—	71,747	96,565
Central Maine Power Company	—	—	—	389,589	955,715	4,571,359	3,946,186
Maine Electric Power Co Inc	—	—	—	47,409	1,334,427	2,426,896	3,152,059
Maine Public Service Company	58,951	—	—	247,495	1,089,891	269,256	1,148,842
Maryland							
Baltimore Gas & Electric Co	—	—	—	—	1,425,132	—	2,998,498
Potomac Edison Co	930,515	—	—	—	—	238,214	5,980,496
Massachusetts							
Boston Edison Company	1,689,980	—	—	1,211,723	3,002,922	4,797,303	10,412,198
Great Bay Power Corp	—	—	—	—	74,256	—	74,256
Holyoke Water Power Company	2,134	—	—	—	3,483	320	5,617
Montaup Electric Company	173,048	—	—	—	912,439	—	1,660,522
New England Hydro Tran Elec Co	—	—	—	—	45,025,000	—	45,025,000

See notes and footnotes at end of table.

Table 23. Electricity Wheeling by Investor-Owned Utilities, by State, 1992 (Continued)

State / Utility	Investor-Owned		Federal		State and Other Government		Municipal
	Wheeled Energy (thousand kWh) ^a	Revenue (dollars)	Wheeled Energy (thousand kWh) ^a	Revenue (dollars)	Wheeled Energy (thousand kWh) ^a	Revenue (dollars)	Wheeled Energy (thousand kWh) ^a
Massachusetts							
New England Power Company	3,973,771	7,527,119	—	—	167,308	948,881	2,967,717
Western Massachusetts Elec Co	329,304	3,526,516	—	—	28,726	775,606	47,603
Michigan							
Consumers Power Company	1,008	3,648	—	—	409,515	346,273	33,571
Detroit Edison Company	1,008	4,226	—	—	—	—	2,781
Minnesota							
Minnesota Power & Light Co	—	—	—	—	—	—	84,204
Northern States Power Company	318,773	1,433,779	—	—	932,348	1,931,145	507,855
Otter Tail Power Company	—	—	—	—	—	—	6,680
Mississippi							
Mississippi Power & Light Co	—	—	157,315	—	—	—	701,854
Mississippi Power Company	1,249,284	1,107,516	143,373	875,152	—	—	—
Missouri							
Empire District Electric Co	—	—	—	—	—	—	—
Kansas City Power & Light Co	1,028,336	2,588,597	—	—	—	—	561,259
St Joseph Light & Power Co	8,175	256,844	—	—	—	—	—
Union Electric Company	—	—	—	—	—	—	309,906
UtiliCorp United Inc	—	—	—	—	—	—	40,148
Montana							
Montana Power Company	733,276	69,449	1,844,693	2,390,397	46,927	179,362	32,298
Nevada							
Nevada Power Company	2,343	7,029	—	—	991,753	1,530,766	23,571
Sierra Pacific Power Company	—	—	396,238	2,212,124	—	—	—
New Hampshire							
New England Elect Trans Corp	—	—	—	—	—	—	—
New England Hydro-Trans Corp	—	—	—	—	—	—	—
Public Service Company of NH	361,514	2,852,013	—	—	757,210	425,311	3,613
UNITIL Power Corp	17,162	40,887	—	—	—	—	—
New Jersey							
Atlantic City Electric Company	—	—	—	—	—	—	18,252
Jersey Central Power&Light Co	105,173	315,519	—	—	—	—	25,833
Public Service Electric&Gas Co	2,558,429	4,829,969	—	—	—	—	15,102
New Mexico							
Public Service Company of NM	1,179,966	5,246,765	738,363	2,816,066	243,244	783,474	587,516
Texas-New Mexico Power Company ..	—	84,233	—	—	—	—	—
New York							
Central Hudson Gas & Elec Corp	775,660	409,257	—	—	2,857	172,836	—
Consolidated Edison Co-NY Inc	4,105,086	11,696,930	—	—	8,961,066	197,090,383	—
Long Island Lighting Company	—	—	—	—	706,787	4,324,941	—
Long Sault Inc	—	—	—	—	—	—	—
New York State Elec & Gas Corp	—	—	—	—	756,270	11,165,498	—
Niagara Mohawk Power Corp	—	40,806,639	—	—	80,311	19,711,609	10,717
Orange & Rockland Utils Inc	—	—	—	—	128,166	89,716	—
North Carolina							
Carolina Power & Light Company	90,677	117,203	166,075	1,426,941	77,203	11,040,031	—
Duke Power Company	854,193	3,984,098	414,497	2,781,663	657,781	2,376,708	502,975
North Dakota							
MDU Resources Group Inc	—	—	425,314	286,234	—	—	—
Ohio							
Cincinnati Gas & Electric Co	208,928	297,034	—	—	—	—	304,142
Cleveland Electric Illum Co	24,191	-10,347	—	—	—	—	407,515
Columbus Southern Power Co	323,624	1,860,966	—	—	—	—	79,872
Dayton Power & Light Company	—	—	—	—	—	—	483,376
Ohio Edison Company	887,789	1,705,757	—	—	—	—	1,541,386
Ohio Power Company	557,750	3,206,798	—	—	—	—	370,708
Ohio Valley Electric Corp	103	232	—	—	—	—	—
Toledo Edison Company	4,144	-8,713	—	—	—	—	307
Oklahoma							
Public Service Co of Oklahoma	—	—	—	—	—	218,325	—
Oregon							
PacificCorp	1,173,708	2,835,211	6,584,091	5,480,809	506,002	4,795,999	—
Portland General Electric Co	668,635	315,558	216,913	550,553	—	—	—
Pennsylvania							
Duquesne Light Company	—	—	—	—	—	—	—
Metropolitan Edison Company	51,276	6,220,433	—	—	—	—	43,938
Pennsylvania Electric Company	1,749,417	6,430,893	—	—	—	—	601,779
Pennsylvania Power & Light Co	862,258	2,362,540	—	—	—	—	25,642
Pennsylvania Power Company	141,531	271,654	—	—	—	—	9,104

See notes and footnotes at end of table.

Table 23. Electricity Wheeling by Investor-Owned Utilities, by State, 1992 (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							
New England Power Company	3,929,183	179	61,428	3,264,774	16,435,064	10,373,749	28,901,675
Western Massachusetts Elec Co	73,047	—	5,447	15,107	521,241	420,740	4,901,857
Michigan							
Consumers Power Company	158,384	17,587	123,050	147,253	819,336	608,934	1,450,691
Detroit Edison Company	11,612	—	—	60,075	203,267	63,864	219,105
Minnesota							
Minnesota Power & Light Co	487,423	1,021,991	1,466,345	264,451	1,294,651	1,370,646	3,248,419
Northern States Power Company	1,823,638	2,112,666	47,582	44,168	116,625	3,915,810	5,352,769
Otter Tail Power Company	60,138	—	—	961,397	197,509	968,077	257,647
Mississippi							
Mississippi Power & Light Co	1,572,119	2,096,953	6,942,110	—	—	2,956,122	8,514,229
Mississippi Power Company	—	414,915	1,633,835	—	19,312	1,807,572	3,635,815
Missouri							
Empire District Electric Co	—	286,969	1,184,724	—	—	286,969	1,184,724
Kansas City Power & Light Co	1,902,899	8,006	66,435	—	243,297	1,597,601	4,801,228
St Joseph Light & Power Co	—	—	—	—	—	8,175	256,844
Union Electric Company	1,246,498	116,172	—	—	—	426,078	1,246,498
UtiliCorp United Inc	378,424	318,510	1,985,658	—	—	358,658	2,384,082
Montana							
Montana Power Company	132,099	906,784	2,527,874	—	4,350	3,563,978	5,303,531
Nevada							
Nevada Power Company	36,336	—	—	—	—	1,017,667	1,574,131
Sierra Pacific Power Company	—	182,529	160,624	60,575	550,237	639,342	2,922,985
New Hampshire							
New England Elect Trans Corp	—	—	—	—	12,707,723	—	12,707,723
New England Hydro-Trans Corp	—	—	—	—	36,784,261	—	36,784,261
Public Service Company of NH	16,406	1,409	192,989	1,093,228	7,201,125	2,216,974	10,687,844
UNITIL Power Corp	—	—	—	—	—	17,162	40,887
New Jersey							
Atlantic City Electric Company	46,714	—	—	—	—	18,252	46,714
Jersey Central Power & Light Co	253,588	66,239	300,282	—	—	197,245	869,369
Public Service Electric & Gas Co	77,340	—	—	—	—	2,573,531	4,907,309
New Mexico							
Public Service Company of NM	1,629,267	35,932	4,293,623	—	182,604	2,785,021	14,951,799
Texas-New Mexico Power Company ..	—	—	—	—	—	—	64,233
New York							
Central Hudson Gas & Elec Corp	—	—	—	—	—	778,517	582,093
Consolidated Edison Co-NY Inc	—	—	—	156,882	5,011,235	13,223,034	213,798,548
Long Island Lighting Company	—	—	—	—	—	706,787	4,324,941
Long Sault Inc	—	—	—	2,003,158	1,546,098	2,003,158	1,546,098
New York State Elec & Gas Corp	—	—	—	—	—	756,270	11,165,498
Niagara Mohawk Power Corp	32,150	—	—	85,502	6,183,544	176,530	66,733,942
Orange & Rockland Utils Inc	—	—	—	—	—	128,166	89,716
North Carolina							
Carolina Power & Light Company	—	—	—	—	—	333,955	12,584,175
Duke Power Company	800,021	1,285,456	6,116,559	—	—	3,714,902	16,059,049
North Dakota							
MDU Resources Group Inc	—	474,727	118,139	10,809	—	910,850	404,373
Ohio							
Cincinnati Gas & Electric Co	412,188	213,772	399,584	—	—	726,842	1,108,806
Cleveland Electric Illum Co	2,945,096	—	—	3,572,626	6,745,244	4,004,332	9,679,993
Columbus Southern Power Co	465,716	726,234	1,452,169	—	—	1,131,730	3,778,851
Dayton Power & Light Company	2,069,198	982,886	1,694,863	—	—	1,466,262	3,764,061
Ohio Edison Company	6,191,637	—	—	—	—	2,429,175	7,897,394
Ohio Power Company	2,153,882	5,222,609	9,985,066	—	—	6,151,067	15,345,748
Ohio Valley Electric Corp	—	—	—	—	—	103	232
Toledo Edison Company	-105,890	—	—	86,980	173,887	91,431	59,284
Oklahoma							
Public Service Co of Oklahoma	—	198,199	851,317	—	3,773,073	198,199	4,842,715
Oregon							
PacifiCorp	1,851,501	460,585	1,789,142	—	13,660	8,724,386	16,746,322
Portland General Electric Co	—	—	—	37,015	50,049	922,563	916,160
Pennsylvania							
Duquesne Light Company	—	—	—	964,209	2,486,220	964,209	2,486,220
Metropolitan Edison Company	164,230	143,927	771,557	—	—	239,141	7,156,220
Pennsylvania Electric Company	1,616,256	1,384,758	7,032,490	—	—	3,735,954	15,079,639
Pennsylvania Power & Light Co	136,898	—	—	208,423	997,011	1,096,323	3,498,449
Pennsylvania Power Company	100,000	—	—	—	—	150,635	371,654

See notes and footnotes at end of table.

Table 23. Electricity Wheeling by Investor-Owned Utilities, by State, 1992 (Continued)

State / Utility	Investor-Owned		Federal		State and Other Government		Municipal
	Wheeled Energy (thousand kWh) ^a	Revenue (dollars)	Wheeled Energy (thousand kWh) ^a	Revenue (dollars)	Wheeled Energy (thousand kWh) ^a	Revenue (dollars)	Wheeled Energy (thousand kWh) ^a
Pennsylvania							
Philadelphia Electric Company	--	--	--	--	--	--	--
West Penn Power Company	4,612	6,136,282	--	--	--	--	346,002
South Carolina							
South Carolina Electric & Gas Co	--	--	18,293	290,680	--	--	--
South Dakota							
Black Hills Corporation	--	--	--	--	--	--	36,054
Northwestern Public Service Co	--	--	48,250	53,040	--	--	2,448
Texas							
Central Power & Light Company	--	884,160	--	--	--	8,142	--
El Paso Electric Company	130,064	181,670	--	--	--	1,065,065	--
Gulf States Utilities Company	--	--	--	--	659,664	3,406,631	8,245
Houston Lighting & Power Co	8,063,179	10,040,251	--	--	--	19,534	--
Southwestern Public Service Co	565	1,695	--	--	--	--	--
Texas Utilities Electric Co	4,631,112	9,463,461	--	--	45,702	40,688	2,843,081
Texas-New Mexico Power Company ..	10,521	64,388	--	--	--	--	--
West Texas Utilities Company	--	119,006	--	--	--	523,789	--
Vermont							
Central Vermont Pub Serv Corp	4,457	24,901	--	--	--	--	142,863
Citizens Utilities Company	11,328	35,283	--	--	--	--	151,518
Green Mountain Power Corp	40,706	11,471	--	--	--	--	212,137
Vermont Electric Power Co Inc	3,491,500	12,848,427	--	--	--	1,039,444	669,386
Vermont Electric Trans Co Inc	--	5,094,207	--	--	--	300,218	--
Virginia							
Appalachian Power Company	642,201	3,763,728	9,322	373,020	--	--	75,751
Virginia Electric & Power Co	10,981	33,574	418,337	2,702,268	682,737	2,322,542	--
Washington							
Puget Sound Power & Light Co	14,669	20,565	481,290	1,222,233	439,560	111,799	817,982
Washington Water Power Company	1,733,114	4,490,741	1,115,225	3,443,333	85,168	35,917	610,441
West Virginia							
Monongahela Power Company	2,566	10,981,171	--	--	--	--	192,145
Wheeling Power Company	--	1,115,764	--	--	--	--	--
Wisconsin							
Northwestern Wisconsin Elec Co	--	--	--	--	--	--	--
Superior Water Light & Power Co	5	14,481	--	--	--	--	--
Wisconsin Electric Power Co	10,621	18,056	--	--	488,805	1,736,802	--
Wisconsin Power & Light Co	251,486	438,023	--	--	47,252	47,789	--

See notes and footnotes at end of table.

Table 23. Electricity Wheeling by Investor-Owned Utilities, by State, 1992 (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)
Pennsylvania							
Philadelphia Electric Company	—	—	—	471,644	22,143	471,644	22,143
West Penn Power Company	1,369,501	—	—	—	—	350,614	7,505,783
South Carolina							
South Carolina Electric & Gas Co	—	—	—	—	—	18,293	290,680
South Dakota							
Black Hills Corporation	441,145	1,163,080	1,052,422	—	—	1,199,134	1,493,567
Northwestern Public Service Co	6,292	2,105	7,014	14,182	29,411	66,985	95,757
Texas							
Central Power & Light Company	1,507,016	—	128,591	—	19,980	—	2,547,889
El Paso Electric Company	—	2,004	2,004	—	—	132,068	1,248,739
Gulf States Utilities Company	18,921	9,163,747	23,972,944	—	—	9,831,656	27,396,496
Houston Lighting & Power Co	404,665	—	961,608	1,374,690	1,439,603	9,437,869	12,865,681
Southwestern Public Service Co	—	—	—	—	—	565	1,695
Texas Utilities Electric Co	2,938,429	2,307,404	5,072,911	176,972	212,215	10,004,271	17,727,704
Texas-New Mexico Power Company ..	—	7,492	27,383	3,096,138	6,552,772	3,114,151	6,844,543
West Texas Utilities Company	342,313	—	47,391	—	3,648,314	—	4,680,813
Vermont							
Central Vermont Pub Serv Corp	397,660	92,522	392,766	106,724	—	346,566	815,327
Citizens Utilities Company	464,391	—	—	—	—	162,846	499,674
Green Mountain Power Corp	267,981	88,351	106,185	—	-294,778	341,194	92,859
Vermont Electric Power Co Inc	1,869,661	184,049	545,217	—	28,504	4,344,935	16,331,253
Vermont Electric Trans Co Inc	47,515	—	—	6,549,825	1,567,970	6,549,825	7,009,910
Virginia							
Appalachian Power Company	347,618	—	—	21,811	94,802	749,085	4,579,168
Virginia Electric & Power Co	—	3,519,897	10,463,961	192,597	406,212	4,824,549	15,928,577
Washington							
Puget Sound Power & Light Co	188,254	—	—	—	—	1,753,501	1,542,851
Washington Water Power Company ...	307,798	—	—	—	8,211	3,543,948	8,286,000
West Virginia							
Monongahela Power Company	760,494	53,350	53,521	—	—	248,061	11,795,186
Wheeling Power Company	—	—	—	—	—	—	1,115,764
Wisconsin							
Northwestern Wisconsin Elec Co	—	13,647	52,122	—	—	13,647	52,122
Superior Water Light & Power Co	—	10	30,321	—	—	15	44,802
Wisconsin Electric Power Co	—	—	—	—	—	499,226	1,756,858
Wisconsin Power & Light Co	—	—	—	—	—	298,738	485,812

¹ Includes transactions with 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, 1992

State / Utility	Investor-Owned		Federal		State and Other Government		Municipal
	Wheeled Energy (thousand kWh) ^a	Cost (dollars)	Wheeled Energy (thousand kWh) ^a	Cost (dollars)	Wheeled Energy (thousand kWh) ^a	Cost (dollars)	Wheeled Energy (thousand kWh) ^a
Arizona							
Arizona Public Service Company	30,001	87,266	2,431,884	2,448,332	1,940,403	787,355	--
Century Power Corp	--	--	--	--	32,314	120,740	--
Citizens Utilities Company	--	--	871,538	1,881,029	--	--	--
Tucson Electric Power Company	1,834,975	1,902,217	400,334	429,438	72,966	--	--
Arkansas							
Arkansas Power & Light Company	--	19,781	--	49,873	--	--	--
Entergy Power Inc	27,820	857,789	123,775	1,396,534	--	--	--
California							
Pacific Gas & Electric Company	183,681	1,277,159	--	354,244	--	191,123	--
San Diego Gas & Electric Co	340,655	8,433,974	--	63,304	656,664	339,282	--
Southern California Edison Co	--	761,270	--	397,899	--	65,909	3,759
Colorado							
Public Service Co of Colorado	--	--	206,094	871,057	189,605	107,573	--
UtiliCorp United Inc	--	243,298	--	--	--	--	--
Connecticut							
Connecticut Light & Power Co	73,825	23,481,044	--	--	--	--	--
United Illuminating Company	717,955	2,175,905	--	--	5,816	32,920	--
District of Columbia							
Potomac Electric Power Company	30,775	395,581	--	--	--	--	--
Florida							
Florida Power & Light Company	4,227	5,804	--	--	--	--	615,711
Tampa Electric Company	20,682	14,126	--	--	--	--	--
Georgia							
Georgia Power Company	--	--	--	--	--	--	--
Idaho							
Idaho Power Company	232,019	377,894	759,032	1,596,757	--	--	19,217
Illinois							
Commonwealth Edison Company	--	302,402	--	--	--	--	--
Indiana							
Indiana Michigan Power Co	--	--	--	--	--	--	--
Northern Indiana Pub Serv Co	--	207,812	--	--	--	--	--
PSI Energy Inc	--	--	--	--	--	-19,000	--
Southern Indiana Gas & Elec Co	--	7,307	--	--	--	--	--
Iowa							
Interstate Power Company	--	1,002,211	--	--	--	--	--
Iowa Electric Light & Power Co	45,307	943,920	--	--	--	--	--
Iowa Southern Utilities Co	140,261	--	--	--	--	--	--
Midwest Power Systems Inc	44,701	6,120	--	--	88,908	88,908	--
Kansas							
Western Resources Inc	--	1,057,032	--	--	--	--	--
Kentucky							
Kentucky Power Company	--	--	--	--	--	--	--
Kentucky Utilities Company	--	--	--	--	--	--	--
Louisiana							
Louisiana Power & Light Co	--	--	--	--	--	--	--
New Orleans Public Service Inc	--	--	--	--	--	--	--
Southwestern Electric Power Co	--	1,468,368	--	--	--	--	--
Maine							
Bangor Hydro-Electric Company	756,968	1,172,426	--	--	--	--	--
Central Maine Power Company	847,176	927,079	--	--	--	--	--
Maine Public Service Company	565,828	968,827	--	--	--	--	--
Maryland							
Baltimore Gas & Electric Co	--	3,976	--	--	--	--	--
Massachusetts							
Boston Edison Company	--	296,820	--	--	--	--	--
Cambridge Electric Light Co	885,969	7,466,721	--	--	--	--	--
Canal Electric Company	311,843	5,006,300	--	--	--	--	--
Commonwealth Electric Company	2,781,758	5,083,641	--	--	--	--	--
Fitchburg Gas & Elec Light Co	244,183	471,504	--	--	--	--	--
Great Bay Power Corp	--	--	--	--	--	--	--
Holyoke Water Power Company	--	317,110	--	--	--	--	--
Montaup Electric Company	--	339,257	--	--	--	--	--
New England Power Company	4,051,647	22,344,933	--	--	--	--	--
Western Massachusetts Elec Co	12,937	5,219,560	--	--	--	--	--
Michigan							
Detroit Edison Company	--	--	--	--	1,267,344	2,874,917	--

See notes and footnotes at end of table.

Table 24. Electricity Wheeling to Investor-Owned Utilities, by State, 1992 (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)
Arizona							
Arizona Public Service Company	--	--	--	--	66,920	4,402,288	3,388,873
Century Power Corp	--	--	--	--	--	32,314	120,740
Citizens Utilities Company	--	--	--	--	--	871,538	1,881,029
Tucson Electric Power Company	--	--	--	--	--	2,308,275	2,331,665
Arkansas							
Arkansas Power & Light Company	--	39,736	90,601	--	--	39,736	160,235
Entergy Power Inc	--	--	--	40,040	987,970	191,435	3,254,293
California							
Pacific Gas & Electric Company	392,716	--	--	142,147	4,597,354	325,828	6,812,598
San Diego Gas & Electric Co	--	--	--	--	--	997,319	8,836,560
Southern California Edison Co	784,978	--	--	--	--	3,759	2,010,056
Colorado							
Public Service Co of Colorado	--	--	--	--	--	395,699	978,630
UtiliCorp United Inc	--	--	--	--	--	--	243,298
Connecticut							
Connecticut Light & Power Co	--	--	--	--	--	73,825	23,461,044
United Illuminating Company	--	--	--	93,000	8,005,698	816,771	10,214,523
District of Columbia							
Potomac Electric Power Company	--	--	--	--	--	30,775	395,581
Florida							
Florida Power & Light Company	2,687,615	--	--	615,686	2,483,871	1,235,624	5,177,090
Tampa Electric Company	--	--	--	--	--	20,682	14,126
Georgia							
Georgia Power Company	--	--	--	--	--	--	--
Idaho							
Idaho Power Company	90,571	--	--	--	--	1,010,268	2,065,222
Illinois							
Commonwealth Edison Company	--	--	--	--	--	--	302,402
Indiana							
Indiana Michigan Power Co	--	--	--	--	-48,211,231	--	-48,211,231
Northern Indiana Pub Serv Co	--	--	--	--	--	--	207,612
PSI Energy Inc	31,591	364,217	322,356	--	755	364,217	335,702
Southern Indiana Gas & Elec Co	--	--	--	--	--	--	7,307
Iowa							
Interstate Power Company	--	--	336,174	--	--	--	1,336,365
Iowa Electric Light & Power Co	--	42,996	42,342	--	--	88,303	986,262
Iowa Southern Utilities Co	--	81,059	101,324	2	--	221,322	101,324
Midwest Power Systems Inc	--	101,709	241,352	68,076	--	303,394	336,380
Kansas							
Western Resources Inc	--	--	--	--	--	--	1,057,032
Kentucky							
Kentucky Power Company	--	--	70,038	--	-4,164,213	--	-4,094,175
Kentucky Utilities Company	--	659,148	329,574	--	--	659,148	329,574
Louisiana							
Louisiana Power & Light Co	--	--	--	--	14,079,545	--	14,079,545
New Orleans Public Service Inc	--	--	--	--	6,413,679	--	6,413,679
Southwestern Electric Power Co	--	--	--	--	2,796,376	--	4,264,744
Maine							
Bangor Hydro-Electric Company	--	--	--	388,327	1,534,539	1,145,295	2,706,965
Central Maine Power Company	--	--	--	--	375,982	847,176	1,303,061
Maine Public Service Company	--	--	--	538,319	989,041	1,104,147	1,957,868
Maryland							
Baltimore Gas & Electric Co	--	--	--	--	755,629	--	759,605
Massachusetts							
Boston Edison Company	--	--	--	529,326	3,040,062	529,326	3,336,882
Cambridge Electric Light Co	--	--	--	604,419	455,485	1,490,388	7,922,186
Canal Electric Company	--	--	--	149,012	785,136	460,855	5,791,436
Commonwealth Electric Company	--	--	--	151,467	141,255	2,913,225	5,224,896
Fitchburg Gas & Elec Light Co	--	--	--	247,644	501,372	492,027	972,876
Great Bay Power Corp	--	--	--	--	-39,700	--	-39,700
Holyoke Water Power Company	--	--	--	--	--	--	317,110
Montauk Electric Company	--	--	--	--	1,437,822	--	1,777,079
New England Power Company	--	--	--	341,353	9,587,342	4,393,000	31,932,275
Western Massachusetts Elec Co	--	--	263,733	--	-107,428	12,937	5,375,865
Michigan							
Detroit Edison Company	--	--	--	--	--	1,267,344	2,874,917

See notes and footnotes at end of table.

Table 24. Electricity Wheeling to Investor-Owned Utilities, by State, 1992 (Continued)

State / Utility	Investor-Owned		Federal		State and Other Government		Municipal
	Wheeled Energy (thousand kWh) ^a	Cost (dollars)	Wheeled Energy (thousand kWh) ^a	Cost (dollars)	Wheeled Energy (thousand kWh) ^a	Cost (dollars)	Wheeled Energy (thousand kWh) ^a
Minnesota							
Northern States Power Company	132,496	996,776	--	--	513,864	1,348,950	--
Missouri							
Empire District Electric Co	555,326	1,285,360	--	--	--	--	--
Kansas City Power & Light Co	--	--	--	--	--	--	--
St Joseph Light & Power Co	--	--	--	--	--	--	--
Union Electric Company	155,690	578,959	--	--	--	--	--
UtiliCorp United Inc	898,373	1,470,594	--	--	--	--	--
Montana							
Montana Power Company	368,661	2,967,798	1,776,220	5,729,199	25,557	33,596	--
Nevada							
Nevada Power Company	121,573	501,305	400,742	665,414	37,462	53,218	10,115
Sierra Pacific Power Company	298,397	1,906,433	10,209	17,530	--	--	8,079
New Hampshire							
North Atlantic Energy Corp	--	1,696,383	--	--	--	--	--
Public Service Company of NH	--	672,115	--	--	--	--	--
UNITIL Power Corp	1,095,393	5,189,230	--	--	--	--	--
New Jersey							
Jersey Central Power&Light Co	1,733,910	1,980,200	--	--	--	--	--
Public Service Electric&Gas Co	--	3,129,607	--	--	--	--	--
New Mexico							
Public Service Company of NM	666,204	1,489,195	5,706	--	2,478	1,452,905	--
Texas-New Mexico Power Company ..	121,292	171,398	--	--	--	--	--
New York							
Central Hudson Gas & Elec Corp	38,521	2,000,566	--	--	50,408	163,043	--
Long Island Lighting Company	2,666,199	5,915,906	--	--	345,133	39,859,502	--
New York State Elec & Gas Corp	--	15,922,654	--	--	--	1,485,000	--
Niagara Mohawk Power Corp	--	--	--	--	--	--	--
Orange & Rockland Utils Inc	309,880	1,585,951	--	--	300	450,000	--
North Carolina							
Carolina Power & Light Company	1,688,528	3,984,098	--	--	--	--	--
Duke Power Company	58	18	--	--	126,242	792,420	--
North Dakota							
MDU Resources Group Inc	--	--	392,039	366,392	--	--	--
Ohio							
Cleveland Electric Illum Co	14,954	44,569	--	--	--	--	--
Columbus Southern Power Co	--	--	--	--	--	--	--
Ohio Power Company	--	1,222,432	--	--	--	--	--
Toledo Edison Company	11,227	51,297	--	--	--	--	--
Oklahoma							
Public Service Co of Oklahoma	--	--	--	--	--	--	--
Oregon							
PacifiCorp	3,712,076	19,597,794	10,909,173	21,371,046	1,750,780	169,439	--
Portland General Electric Co	1,010,031	2,480,766	10,782,262	20,890,293	670	1,675	14,434
Pennsylvania							
Duquesne Light Company	--	7,972,234	--	--	--	--	--
Metropolitan Edison Company	--	67,157	--	--	--	--	--
Pennsylvania Electric Company	1,733,909	2,280,842	--	--	--	--	--
Pennsylvania Power & Light Co	1,169,864	927,897	--	--	--	--	--
Philadelphia Electric Company	--	--	--	--	--	--	--
West Penn Power Company	--	12,157,661	--	--	--	--	--
Rhode Island							
Narragansett Electric Company	--	1,306,525	--	--	--	--	--
South Dakota							
Black Hills Corporation	--	--	--	--	--	--	--
Northwestern Public Service Co	--	--	175,762	426,262	--	--	--
Texas							
Central Power & Light Company	--	2,249,947	--	--	--	170,664	--
El Paso Electric Company	83,913	1,822,505	--	--	992,886	1,714,788	--
Houston Lighting & Power Co	191,217	143,259	--	--	251,465	29,213	54,604
Southwestern Public Service Co	126,565	75,140	--	--	--	--	--
Texas Utilities Electric Co	124,702	13,913,573	--	--	98,606	695,734	45,301
Texas-New Mexico Power Company ..	1,982,054	6,891,436	--	--	99,357	345,074	142,171
West Texas Utilities Company	--	503,758	--	--	--	--	--
Vermont							
Central Vermont Pub Serv Corp	2,416,387	13,474,309	--	--	--	--	--
Citizens Utilities Company	130,189	770,738	--	--	--	--	2,320
Green Mountain Power Corp	1,644,959	6,310,867	--	--	9,663	106,038	54,710

See notes and footnotes at end of table.

Table 24. Electricity Wheeling to Investor-Owned Utilities, by State, 1992 (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)
Minnesota							
Northern States Power Company	—	471,987	94,809	—	—	1,118,347	2,438,535
Missouri							
Empire District Electric Co	—	—	—	—	—	555,326	1,285,360
Kansas City Power & Light Co	203,280	—	—	—	74,081	—	277,361
St Joseph Light & Power Co	—	14,466	38,103	—	—	14,466	38,103
Union Electric Company	—	172,992	2,407	—	—	328,882	581,366
UtilCorp United Inc	—	—	19,199	—	—	898,373	1,489,793
Montana							
Montana Power Company	—	—	17,122	—	—	2,172,458	8,747,715
Nevada							
Nevada Power Company	52,618	—	—	—	168	569,892	1,272,723
Sierra Pacific Power Company	28,277	—	—	34,755	—	351,440	1,952,240
New Hampshire							
North Atlantic Energy Corp	—	—	—	—	—	—	1,696,383
Public Service Company of NH	—	—	—	—	254,574	—	926,889
UNITIL Power Corp	—	179,548	725,172	261,900	666,335	1,536,841	6,580,737
New Jersey							
Jersey Central Power&Light Co	—	—	—	—	2,458,010	1,733,910	4,418,210
Public Service Electric&Gas Co	—	—	—	—	—	—	3,129,607
New Mexico							
Public Service Company of NM	—	84,628	76,320	—	—	761,016	3,018,420
Texas-New Mexico Power Company ..	—	—	—	—	50,000	121,292	221,398
New York							
Central Hudson Gas & Elec Corp	—	—	—	—	-106	68,929	2,183,503
Long Island Lighting Company	—	—	—	—	—	3,011,332	45,775,408
New York State Elec & Gas Corp	—	—	—	—	524,287	—	17,931,941
Niagara Mohawk Power Corp	730	—	—	3,027,507	3,883,945	3,027,507	3,884,675
Orange & Rockland Utils Inc	—	—	—	—	-129,625	310,180	1,906,326
North Carolina							
Carolina Power & Light Company	—	—	—	—	—	1,688,528	3,984,098
Duke Power Company	—	22,672	15,050	—	—	148,972	807,488
North Dakota							
MDU Resources Group Inc	—	1,813	3,542	8,579	—	402,431	369,934
Ohio							
Cleveland Electric Illum Co	—	—	—	—	—	14,954	44,569
Columbus Southern Power Co	—	—	—	—	29,940,695	—	29,940,695
Ohio Power Company	—	—	—	—	14,457,973	—	15,880,405
Toledo Edison Company	—	—	—	—	—	11,227	51,297
Oklahoma							
Public Service Co of Oklahoma	—	—	—	—	1,357,895	—	1,357,895
Oregon							
PacifiCorp	3,072	144,373	1,649,504	—	—	16,516,402	42,790,855
Portland General Electric Co	70,203	3,745	590	-62,766	101,231	11,748,376	23,544,758
Pennsylvania							
Duquesne Light Company	—	—	—	—	—	—	7,972,234
Metropolitan Edison Company	—	—	—	—	775,358	—	842,515
Pennsylvania Electric Company	—	—	—	—	—	1,733,909	2,280,842
Pennsylvania Power & Light Co	—	—	—	—	—	1,169,864	927,897
Philadelphia Electric Company	—	—	—	471,644	22,143	471,644	22,143
West Penn Power Company	—	—	—	—	—	—	12,157,661
Rhode Island							
Narragansett Electric Company	—	—	—	—	—	—	1,306,525
South Dakota							
Black Hills Corporation	—	—	—	—	745	—	745
Northwestern Public Service Co	—	568	2,675	—	—	176,330	426,937
Texas							
Central Power & Light Company	52,512	—	—	—	4,374,435	—	6,847,558
El Paso Electric Company	—	—	—	—	—	1,076,799	3,537,293
Houston Lighting & Power Co	45,492	14,376	-104,427	—	64,902	511,662	178,439
Southwestern Public Service Co	—	4,393	3,000	1,100	3,300	132,058	81,440
Texas Utilities Electric Co	2,137,838	59,053	-400,171	915	-12,928,322	328,577	3,418,652
Texas-New Mexico Power Company ..	493,770	8,250	37,051	4,674	16,232	2,236,506	7,783,563
West Texas Utilities Company	—	—	—	—	—	—	503,758
Vermont							
Central Vermont Pub Serv Corp	—	—	6,121	77,835	36,482	2,494,222	13,516,892
Citizens Utilities Company	3,132	—	—	—	613,374	132,509	1,387,244
Green Mountain Power Corp	196,864	—	—	235,519	3,630,417	1,944,851	10,444,186

See notes and footnotes at end of table.

Table 24. Electricity Wheeling to Investor-Owned Utilities, by State, 1992 (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
Virginia							
Appalachian Power Company	—	—	—	—	—	—	—
Virginia Electric & Power Co	—	—	—	—	—	—	—
Washington							
Puget Sound Power & Light Co	16,855	1,662,842	1,456,925	25,151,939	—	93,859	—
Washington Water Power Company	185,222	99,528	745,061	8,630,420	—	—	—
Wisconsin							
Madison Gas & Electric Company	242,326	426,043	—	—	—	—	—
Wisconsin Electric Power Co	318,188	719,337	—	—	—	—	—
Wisconsin Power & Light Co	90,800	517,280	—	—	—	—	—
Wisconsin Public Service Corp	19,781	39,358	—	—	—	—	—

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)

Virginia						
Appalachian Power Company	—	—	—	7,799,542	—	7,799,542
Virginia Electric & Power Co	—	3,892	12,224	—	3,892	12,224
Washington						
Puget Sound Power & Light Co	31,122	—	—	—	1,473,780	26,939,762
Washington Water Power Company	—	—	305,448	—	930,283	9,035,396
Wisconsin						
Madison Gas & Electric Company	—	—	—	—	242,326	426,043
Wisconsin Electric Power Co	—	—	—	—	318,188	719,337
Wisconsin Power & Light Co	—	22,945	414,586	—	113,745	931,866
Wisconsin Public Service Corp	—	—	—	—	19,781	39,358

¹ Includes transactions with 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 the coverage for the public utilities because it is collected from all electric utilities. However, Form EIA-861 does not identify individual transaction partners.

Figure 8. Electricity Purchases and Costs by Federal Utilities, Fiscal Year 1992

Figure 9. Electricity Sales for Resale and Revenue by Federal Utilities, Fiscal Year 1992

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 provides 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.

Highlights

In 1992, four Federal power marketing agencies and the Tennessee Valley Authority (which operates primarily in a four-state region centered in Tennessee), reported purchases of 19.1 billion kilowatt-hours at a combined cost of \$444.6 million. Power purchases by the Bonneville Power Administration (BPA), which in 1990 accounted for less than 4 percent of total power marketing agency activity, appeared to increase dra-

Figure 10. Electricity Purchases and Costs by the Top Ten State and Other Government Utilities, Fiscal Year 1992

Notes: Numbers indicate rank by kilowatt-hours (kWh) purchased. PUD = Public Utility District.
 Source: Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities."

matically in 1992 to almost 40 percent of total power. This increase was primarily caused by lower water levels in the Pacific Northwest resulting in reduced generation from Bonneville's hydroelectric assets. These conditions forced Bonneville Power to resort to increased purchases of electricity to satisfy its wholesale and retail consumer loads.⁷ The largest Federal purchaser of electricity was the Western Area Power Administration (WAPA) which purchased 10.7 billion kilowatt-hours for \$277 million. WAPA purchases amounted to 54.5 percent of the total 19.7 billion kilowatt-hours purchased by all Federal utilities (including facilities identified by the Bureau of Indian Affairs as operating utilities). The Tennessee Valley Authority (TVA), which provides full requirements support for approximately 110 municipal utilities and 50 cooperative electric utilities, reduced purchases substantially from 1990 to about 507 million kilowatt-hours for which it paid \$16.7 million (Figure 8).

Federal utilities were much more active as energy sellers (Table 26). By far the largest wholesaler of electric power in the United States, including all ownership classes was (in 1992 as in 1990) the TVA, which sold just over 93.6 billion kilowatt-hours for revenue of \$4.3 billion. The second largest seller in 1992 was the Bonneville Power Administration which sold 50.9 billion kilowatt-hours for revenue of \$1.3 billion. WAPA was third, selling almost 29 billion kilowatt-hours for revenue of \$511.1 million. All other Federal utilities sold substantially less power (Figure 9).

The 10 largest purchases of electricity by State and other government utilities in 1992 ranged from almost 2.0 billion kilowatt-hours (Missouri Basin Municipal Power District) for a cost of \$41.2 million, to 8.2 billion kilowatt-hours (Sacramento Municipal Utility District of California) for \$309.5 million. The largest (Sacramento) purchaser's quantity was 37 percent greater than the second ranked purchaser, the New York Power Authority (NYPA). NYPA bought almost

⁷With the drought conditions present in 1992, BPA had little nonfirm energy available after the Northwest power markets were met. (By law, the BPA is required to serve the Northwest first.) Revenues fell mainly because BPA's power rates for the aluminum companies (direct service customers) went down after its variable industrial rates dropped to the minimum level for most of the year. These rates are linked to the price of aluminum and allow aluminum companies to stay in production when the market is soft. A worldwide recession cut the demand for aluminum and large amounts of aluminum were exported by former republics of the Soviet Union in order to earn hard currency. *Bonneville Power Administration Annual Report 1992*, DOE/BP-2030 (January 1993), pp. 18-19.

Figure 11. Electricity Sales for Resale and Revenue by the Top Ten State and Other Government Utilities, Fiscal Year 1992

Notes : Numbers indicate rank by kilowatthours (kWh) sold. PUD = Public Utility District.
Source: Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities."

6 billion kilowatthours for \$173.1 million. Five of the remaining top ten are located in two States (Washington State has three and two are in North Carolina). Each of the top 10 purchasers, regardless of geographic region, paid more than \$41.2 million for the electric power they purchased in 1992 (Figure 10). The top 10 purchasers among the State and other government utilities generally bought less than the top 10 municipals and the State and other government utility costs were generally less (Tables 27 and 29).

The largest seller of electric power among State and other government utilities was the New York Power Authority (NYPA), which sold nearly 21 billion kilowatthours for \$474 million. This was over 85 percent more than the sales of the second largest seller, the Nebraska Public Power District, which sold 11.3 billion kilowatthours for revenue of \$328.8 million. NYPA sales for resale were more than any utility in the Nation with the exceptions of the TVA, BPA, WAPA, and the New England Power Company. The Municipal Electric Authority of Georgia (MEAG), which was second largest seller in 1990, was the third largest among State and other government utilities in 1992, selling 9.7 billion kilowatthours for revenue of \$538.1 million. Several of the public utilities in the Southeastern States of North Carolina, South Carolina, and Georgia were active as sellers, accounting for 4 of

the top 10. Public Utility Districts (PUDs) in the State of Washington accounted for 2 of the remaining top 10 sellers (Figure 11).

Revenue for the sales varied widely. While MEAG sold only 46 percent as much power as NYPA, nevertheless it received nearly 14 percent more revenue. The lowest total revenue received by any of the top 10 sellers was the PUD No.2 of Grant County of Washington State, which received \$45.8 million for 6.4 billion kilowatthours. In contrast, the North Carolina Eastern Municipal Power Agency and the Grand River Dam Authority of Oklahoma, ranking 9 and 10 in power sales, received \$398.6 million and \$125.2 million in revenues, respectively (Table 28).

The 10 largest total purchases by municipal utilities ranged from 2.4 billion kilowatthours at a cost of \$43 million by the City of Eugene, Oregon to 11.8 billion kilowatthours for \$498.8 million by the City of Memphis, Tennessee (which relies upon the Tennessee Valley Authority for its system requirements). The City of Los Angeles, California, which has substantial generation assets of its own, was the second largest purchaser of power among municipal utilities with 11.4 billion kilowatthours at a cost of \$660.3 million. Of the top 10 purchasers of electricity among municipal utilities (Figure 12), 5 are supported wholly by the Ten-

Figure 12. Electricity Purchases and Costs by the Top Ten Municipal Utilities, Fiscal Year 1992

Note: Numbers and symbol sizes indicate rank by kilowatthours (kWh) purchased.
 Source: Energy Information Administration, Form EIA-412, "Annual Report of Public Electric Utilities."

nessee Valley Authority. Of the 5, 4 are in Tennessee--Memphis (first), Nashville (third), Chattanooga (fourth), and Knoxville (fifth)--and the other is Huntsville, Alabama (ranked six). Overall, each of the top 10 municipal purchasers bought more than 2.4 billion kilowatthours and collectively spent almost \$2.5 billion (Table 29).

As a group, municipal utilities are not active as sellers of power. However, the 10 largest municipal wholesale sellers (Figure 13) of electric power (which includes several organizations that act as agents for groups of municipal utilities) each sold at least 1.4 billion kilowatthours. Revenue from power sold for the 10 largest, ranged from \$23.8 million received by Owensboro Municipal Utilities of Kentucky, which sold 1.5 billion kilowatthours, to \$648.6 million to the Intermountain Power Agency (a municipal agent) located in Utah for the sale of 11.4 billion kilowatthours. Seven of the top 10 municipal sellers, American Municipal Power of Ohio (second), Florida Municipal Power (third), Piedmont Municipal Power of South Carolina (fourth), Texas Municipal Power (fifth), Alabama Municipal Electric Authority (sixth), and Western Minnesota Municipal Power (seventh), are actually buying and selling wholesale electric power on behalf of groups of municipalities. Intermountain Power is in the top 10 (first), but it generates rather than purchases

the power it sells. Overall, these municipal selling organizations are reducing costs to their wholesale customers through large joint purchases, which provide better economies of scale (Table 30).

Although public sector utilities do not customarily participate in exchange or wheeling transactions (Table 32), the Tennessee Valley Authority exchanged 26.8 billion kilowatthours for 22.5 billion kilowatthours. The Bonneville Power Administration exchanged 20.8 billion kilowatthours for 13.9 billion kilowatthours and wheeled about 39.6 billion kilowatthours. The City of Los Angeles was by far the largest provider of transmission services among both municipal and State and other government utilities, wheeling about 12.8 billion kilowatthours.

Summary

In 1992, as in prior years, the Federal utilities dominated electric trade by publicly owned utilities. Much of this trade exists because of authority given and restrictions placed in the Federal laws that guide these Federal power authorities. Many of these differences are due to Federal flood prevention and irrigation requirements

Figure 13. Electricity Sales for Resale and Revenue by the Top Ten Municipal Utilities, Fiscal Year 1992

Note: Numbers and symbol sizes indicate rank by kilowatt-hours (kWh) sold.

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

at hydroelectric projects or the limitations of corresponding transmission systems operated by the power marketing authorities.

Geographically, the Western Area Power Administration (WAPA) and the Bonneville Power Administration are the two largest Federal power marketing administrations and both operate Federally owned transmission lines. The Tennessee Valley Authority collects the most revenue of any Federal utility, but its legal authority differs from the power marketing administrations. Other Federal authorities, like the Southeastern Power Administration, market power from a much smaller group of Federally owned generating facilities and transmit the power over a non-Federal transmission system. The Alaska Power Administration is the smallest power marketing administration. The International Boundary and Water Commission, United States and Mexico, facilities are the smallest in terms of size and 1992 trade (as reported by WAPA).

Many State power agencies and other public authorities were established to purchase large quantities of electricity for resale to their member electric utilities. Some of these State 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 make bulk power purchases for redistribution to municipalities and cooperatives, which reduces the rates to the members.

Municipalities purchase far more power than they sell for resale as the electricity is almost always redistributed to the ultimate consumers. The municipal utilities involved in sales for resale do have generating capability, frequently including hydroelectric facilities and/or jointly owned thermal generators.

If Federal and State marketing authorities operate nearby, municipals will probably have a preferential authorization which will allow them to purchase any available power first, thereby reducing the overall cost of purchased power. State municipal power agencies and authorities are becoming an increasingly important source of electric power for municipal utilities. Many States have municipal power agencies or their equivalent, and membership in these organizations is growing. By aggregating the power requirements of their members, municipal power agencies are able to purchase power at the most favorable rates available and pass these savings on to their members.

Table 25. Electricity Purchases by Federal Utilities, Fiscal Year Ending September 30, 1992

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)
Arizona							
USBIA-San Carlos Irrig Project	183,058	7,327,058	87,138	955,320	3,136	570,089	--
Colorado							
Western Area Power Admin	6,070,283	165,565,863	138,364	2,299,000	523,718	9,536,283	462,923
Georgia							
Southeastern Power Admin	17,780	420,976	--	--	32,346	439,791	--
Montana							
Mission Valley Power	84,761	1,213,830	201,533	4,836,141	901	21,035	--
Oklahoma							
Southwestern Power Admin	35,781	1,888,965	--	--	--	--	--
Oregon							
Bonneville Power Admin	2,702,108	56,895,650	--	--	360,116	6,216,324	274,022
Tennessee							
Tennessee Valley Authority	--	--	--	--	1,180	34,907	--
U.S. Total	9,093,751	232,912,340	427,033	8,090,461	921,377	16,818,429	736,945

	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)
Arizona							
USBIA-San Carlos Irrig Project	--	--	--	--	--	273,330	8,852,465
Colorado							
Western Area Power Admin	26,672,501	2,898,307	50,995,772	620,412	21,965,284	10,713,987	277,034,703
Georgia							
Southeastern Power Admin	--	106,719	1,925,440	--	--	156,845	2,788,207
Montana							
Mission Valley Power	--	--	--	--	--	287,195	6,071,006
Oklahoma							
Southwestern Power Admin	--	--	--	--	--	35,781	1,888,965
Oregon							
Bonneville Power Admin	5,131,500	931,917	19,104,354	3,410,014	59,162,017	7,678,177	146,308,845
Tennessee							
Tennessee Valley Authority	--	--	--	506,205	16,710,305	507,365	16,745,212
U.S. Total	31,804,001	3,936,943	72,025,566	4,536,631	97,837,606	19,652,680	459,488,403

¹ Includes transactions with 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, 1992

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)
Alaska							
Alaska Power Administration	213,830	6,693,976	--	--	--	--	70,622
Colorado							
Western Area Power Admin	2,516,002	46,693,192	88,165	850,464	8,048,816	151,360,680	9,274,184
Georgia							
Southeastern Power Admin	40,058	501,942	2,349,947	20,466,543	207,171	5,455,978	1,315,662
Michigan							
USCE-Detroit District	162,695	1,749,885	--	--	--	--	--
Oklahoma							
Southwestern Power Admin	3,515	17,813	159,649	3,635,295	383,423	4,429,715	1,744,346
Oregon							
Bonneville Power Admin	8,776,446	349,567,000	54,084	2,167,000	21,655,950	505,872,000	11,114,189
Tennessee							
Tennessee Valley Authority	--	1,000,886	--	--	--	--	67,184,073
U.S. Total	11,712,546	406,224,696	2,651,845	27,119,302	30,295,160	667,118,373	90,703,076

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)

Alaska						
Alaska Power Administration	1,200,574	73,742	1,248,693	--	--	358,194 9,144,245
Colorado						
Western Area Power Admin	174,496,523	7,472,642	108,280,211	1,579,520	29,453,201	28,979,129 511,114,271
Georgia						
Southeastern Power Admin	40,603,193	2,976,389	79,184,601	--	--	6,889,227 146,212,257
Michigan						
USCE-Detroit District	--	--	--	--	--	162,695 1,749,885
Oklahoma						
Southwestern Power Admin	21,486,690	4,315,200	60,812,695	--	--	6,606,133 90,382,208
Oregon						
Bonneville Power Admin	252,938,000	9,258,254	206,725,000	11,412	268,000	50,870,335 1,317,537,000
Tennessee						
Tennessee Valley Authority	3,060,686,869	26,437,903	1,205,478,036	--	--	93,621,976 4,267,165,791
U.S. Total	3,551,411,849	50,534,130	1,661,710,236	1,590,932	29,721,201	187,467,689 6,343,305,657

¹ Includes transactions with 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 1992

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/Jun 30						
Firm Power	87	274,536	755,292	14,800,203	--	--
Total Power	87	274,536	755,292	14,800,203	--	--
Electrical Dist No2 Pinal Cnty/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Navajo Tribal Utility Auth/Dec 31						
Firm Power	449,709	17,753,332	112,783	1,810,710	--	--
Total Power	449,709	17,753,332	112,783	1,810,710	--	--
Papago Tribal Utility Auth/Dec 31						
Firm Power	172,973	6,771,733	13,544	126,572	--	--
Total Power	172,973	6,771,733	13,544	126,572	--	--
Salt River Project/Apr 30						
Firm Power	204,656	22,079,090	532,312	7,485,139	34,989	757,357
Nonfirm Power	73,664	1,069,860	72,021	1,011,440	592	9,354
Other Power	14,760	-117,341	53,383	-19,680	--	-942
Total Power	293,080	23,031,609	657,716	8,476,899	35,581	765,769
Wellton-Mohawk Irr&Drain Dist/Dec 31 ¹						
Firm Power	--	--	--	--	--	--
Other Power	20,636	1,097,378	1,145	23,466	--	--
Total Power	20,636	1,097,378	1,145	23,466	--	--
California						
California Dept Wtr Resources/Dec 31						
Firm Power	625,917	23,639,400	--	--	162,399	7,096,460
Nonfirm Power	37,851	829,606	13,754	175,368	5,115	107,430
Total Power	663,768	24,469,006	13,754	175,368	167,514	7,205,890
Imperial Irrigation District/Dec 31						
Firm Power	1,303,583	62,902,619	156,303	1,472,404	--	--
Nonfirm Power	52,923	1,300,245	23,500	551,365	--	--
Total Power	1,356,506	64,202,864	179,803	2,023,769	--	--
Modesto Irrigation District/Dec 31						
Firm Power	548,382	26,063,373	62,141	1,516,659	559,797	18,428,954
Nonfirm Power	45,504	947,313	13,224	202,552	--	--
Other Power	--	--	--	--	--	--
Total Power	593,886	27,010,686	75,365	1,719,211	559,797	18,428,954
MSR Public Power Agency/Dec 31						
Nonfirm Power	1,887	62,233	--	--	--	--
Total Power	1,887	62,233	--	--	--	--
Northern California Power Agncy/Jun 30						
Firm Power	183,367	6,127,745	25,124	402,204	4,861	160,152
Nonfirm Power	41,176	982,129	--	--	4,949	84,600
Other Power	--	15,512	--	--	--	--
Total Power	224,543	7,125,386	25,124	402,204	9,810	244,752
Sacramento Municipal Util Dist/Dec 31						
Firm Power	2,360,510	156,479,529	2,062,993	57,482,205	--	--
Nonfirm Power	1,466,672	30,984,957	111,903	2,356,318	--	--
Other Power	--	--	--	--	--	--
Total Power	3,827,182	187,464,486	2,174,896	59,838,523	--	--
Southern California P P A/Jun 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Colorado						
Arkansas River Power Authority/Dec 31						
Firm Power	--	--	83,694	1,643,966	116,108	3,670,157
Nonfirm Power	--	--	29,832	566,800	-1,931	80,142
Total Power	--	--	113,526	2,210,766	114,177	3,750,299
Platte River Power Authority/Dec 31						
Firm Power	--	--	727,365	12,167,581	--	--
Nonfirm Power	268	6,256	19	593	3,406	73,791
Total Power	268	6,256	727,384	12,168,174	3,406	73,791
Connecticut						
Mun Electric Engy Coop/Dec 31						
Firm Power	609,521	36,547,998	--	--	814	1,373,105
Other Power	-165	181,712	--	--	--	--
Total Power	609,356	36,729,710	--	--	814	1,373,105

See notes and footnotes at end of table.

**Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1992
(Continued)**

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ^a		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Arizona						
Arizona Power Authority/Jun 30						
Firm Power	--	--	11,689	1,799,017	767,068	16,873,756
Total Power	--	--	11,689	1,799,017	767,068	16,873,756
Electrical Dist No2 Pinal Cnty/Dec 31						
Firm Power	--	--	145,396	5,215,942	145,396	5,215,942
Total Power	--	--	145,396	5,215,942	145,396	5,215,942
Navajo Tribal Utility Auth/Dec 31						
Firm Power	--	--	--	--	562,492	19,564,042
Total Power	--	--	--	--	562,492	19,564,042
Papago Tribal Utility Auth/Dec 31						
Firm Power	441	64,662	2,204	52,375	189,162	7,015,342
Total Power	441	64,662	2,204	52,375	189,162	7,015,342
Salt River Project/Apr 30						
Firm Power	208,725	17,774,214	261,227	4,859,443	1,241,909	52,955,243
Nonfirm Power	515	9,025	44,072	617,598	190,864	2,917,277
Other Power	--	-5,112	120,288	-447,146	188,431	-590,221
Total Power	209,240	17,778,127	425,587	5,229,895	1,621,204	55,262,299
Wellton-Mohawk Irr&Drain Dist/Dec 31 ¹						
Firm Power	--	--	30,945	464,610	30,945	464,610
Other Power	--	--	--	--	21,781	1,120,844
Total Power	--	--	30,945	464,610	52,726	1,585,454
California						
California Dept Wtr Resources/Dec 31						
Firm Power	--	--	177,439	2,530,936	965,755	33,268,796
Nonfirm Power	--	--	4,297	102,310	61,017	1,214,714
Total Power	--	--	181,736	2,633,246	1,026,772	34,483,510
Imperial Irrigation District/Dec 31						
Firm Power	--	--	98,759	8,386,976	1,558,645	72,761,999
Nonfirm Power	16,956	415,082	23,534	1,087,788	116,913	3,354,480
Total Power	16,956	415,082	122,293	9,474,764	1,675,558	76,116,479
Modesto Irrigation District/Dec 31						
Firm Power	--	--	410,751	16,898,298	1,581,071	62,907,284
Nonfirm Power	--	--	219,842	4,344,476	278,570	5,494,341
Other Power	--	--	--	3	--	3
Total Power	--	--	630,593	21,242,777	1,859,641	68,401,628
MSR Public Power Agency/Dec 31						
Nonfirm Power	--	--	--	--	1,887	62,233
Total Power	--	--	--	--	1,887	62,233
Northern California Power Agncy/Jun 30						
Firm Power	--	--	53,573	1,488,348	266,925	8,178,449
Nonfirm Power	--	--	6,013	95,492	52,138	1,162,221
Other Power	--	--	--	--	--	15,512
Total Power	--	--	59,586	1,583,840	319,063	9,356,182
Sacramento Municipal Util Dist/Dec 31						
Firm Power	--	--	255,685	15,730,262	4,679,188	229,691,996
Nonfirm Power	--	--	2,038,513	46,447,414	3,617,088	79,788,669
Other Power	--	--	-70,788	--	-70,788	--
Total Power	--	--	2,223,410	62,177,676	8,225,488	309,480,665
Southern California P P A/Jun 30						
Firm Power	--	--	--	116,322	--	116,322
Total Power	--	--	--	116,322	--	116,322
Colorado						
Arkansas River Power Authority/Dec 31						
Firm Power	14,224	639,082	5,776	266,254	219,802	6,221,439
Nonfirm Power	20,533	614,951	9,403	291,874	57,837	1,553,767
Total Power	34,757	1,254,013	15,179	560,128	277,639	7,775,206
Platte River Power Authority/Dec 31						
Firm Power	--	--	--	--	727,365	12,167,581
Nonfirm Power	1,789	32,776	54	10,364	5,536	123,780
Total Power	1,789	32,776	54	10,364	732,901	12,291,361
Connecticut						
Mun Electric Engrg Coop/Dec 31						
Firm Power	--	--	91,848	1,484,617	702,183	39,405,720
Other Power	--	--	--	--	-165	181,712
Total Power	--	--	91,848	1,484,617	702,018	39,587,432

See notes and footnotes at end of table.

**Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1992
(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)
Georgia						
Crisp County Power Commission/Dec 31						
Firm Power	—	—	32,894	1,101,151	—	—
Other Power	17,254	595,178	—	—	—	—
Total Power	17,254	595,178	32,894	1,101,151	—	—
Municipal Electric Auth of GA/Dec 31						
Firm Power	1,491,775	40,550,000	—	—	—	—
Total Power	1,491,775	40,550,000	—	—	—	—
Indiana						
Indiana Municipal Power Agency/Dec 31						
Firm Power	1,856,143	60,215,426	—	—	592,909	25,276,905
Other Power	67,916	1,557,017	—	—	—	—
Total Power	1,924,059	61,772,443	—	—	592,909	25,276,905
Kansas						
Kansas Municipal Energy Agency/Dec 31						
Firm Power	—	—	36,371	496,000	264,500	8,727,000
Total Power	—	—	36,371	496,000	264,500	8,727,000
Louisiana						
Louisiana Energy & Power Auth/Dec 31						
Firm Power	—	—	97,237	1,396,052	470,490	18,092,015
Nonfirm Power	20,435	511,634	—	—	38,392	908,018
Other Power	—	—	—	—	—	654,097
Total Power	20,435	511,634	97,237	1,396,052	508,882	19,654,130
Massachusetts						
Massachusetts Mun Wholes EI/Dec 31						
Firm Power	241,674	7,100,086	—	—	63,236	3,352,957
Total Power	241,674	7,100,086	—	—	63,236	3,352,957
Michigan						
Michigan Public Power Agency/Dec 31						
Firm Power	102,477	2,192,306	—	—	136,192	4,108,967
Nonfirm Power	39,859	1,040,322	—	—	1,552	36,236
Total Power	142,336	3,232,628	—	—	137,744	4,145,203
Michigan South Central Pwr Agy/Jun 30						
Firm Power	157,794	3,841,544	—	—	34,446	1,135,874
Nonfirm Power	75,345	1,578,463	—	—	6,153	140,843
Other Power	—	—	—	—	—	—
Total Power	233,139	5,420,007	—	—	40,599	1,276,717
Minnesota						
Southern Minnesota Mun P Agy/Dec 31						
Firm Power	6,092	106,224	—	—	209,402	11,812,333
Nonfirm Power	14,064	221,053	7,025	209,659	1,616	28,279
Total Power	20,156	327,277	7,025	209,659	211,018	11,840,612
Nebraska						
Burt County Public Power Dist/Dec 31 ¹						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Butler County Rural P P D/Dec 31 ¹						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Chimney Rock Public Power Dist/Dec 31 ¹						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Cornhusker Public Power Dist/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Dawson County Public Pwr Dist/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
KBR Rural Public Power Dist/Dec 31 ¹						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Loup River Public Power Dist/Dec 31						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Municipal Energy Agency of NE/Mar 31						
Firm Power	—	—	114,360	2,171,360	94,595	4,891,228
Nonfirm Power	—	—	6,138	111,274	42,513	287,017
Total Power	—	—	120,498	2,282,634	137,108	4,978,245

See notes and footnotes at end of table.

**Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1992
(Continued)**

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ^a		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Georgia						
Crisp County Power Commission/Dec 31						
Firm Power	--	--	210,428	8,435,052	243,322	9,536,203
Other Power	--	--	--	--	17,254	595,178
Total Power	--	--	210,428	8,435,052	260,576	10,131,381
Municipal Electric Auth of GA/Dec 31						
Firm Power	--	--	7,922	456,000	1,499,697	41,006,000
Total Power	--	--	7,922	456,000	1,499,697	41,006,000
Indiana						
Indiana Municipal Power Agency/Dec 31						
Firm Power	--	--	--	--	2,449,052	85,492,331
Other Power	--	--	--	--	67,916	1,557,017
Total Power	--	--	--	--	2,516,968	87,049,348
Kansas						
Kansas Municipal Energy Agency/Dec 31						
Firm Power	10,663	636,000	--	--	311,554	9,861,000
Total Power	10,663	636,000	--	--	311,554	9,861,000
Louisiana						
Louisiana Energy & Power Auth/Dec 31						
Firm Power	--	--	--	--	567,727	5,488,067
Nonfirm Power	18,365	357,833	148,785	3,254,415	225,977	5,031,900
Other Power	--	--	--	--	--	654,097
Total Power	18,365	357,833	148,785	3,254,415	793,704	25,174,064
Massachusetts						
Massachusetts Mun Wholes EI/Dec 31						
Firm Power	--	--	1,257,044	64,284,731	1,561,954	74,737,774
Total Power	--	--	1,257,044	64,284,731	1,561,954	74,737,774
Michigan						
Michigan Public Power Agency/Dec 31						
Firm Power	--	--	--	--	236,669	6,301,273
Nonfirm Power	--	--	--	--	41,411	1,076,559
Total Power	--	--	--	--	280,080	7,377,831
Michigan South Central Pwr Agy/Jun 30						
Firm Power	--	--	--	--	192,240	4,977,418
Nonfirm Power	--	--	--	--	81,498	1,719,306
Other Power	--	--	7,833	176,866	7,833	176,866
Total Power	--	--	7,833	176,866	281,571	6,873,590
Minnesota						
Southern Minnesota Mun P Agy/Dec 31						
Firm Power	--	--	8,017	107,225	223,511	12,025,782
Nonfirm Power	20,780	321,101	31,313	349,172	74,798	1,129,264
Total Power	20,780	321,101	39,330	456,397	298,309	13,155,046
Nebraska						
Burt County Public Power Dist/Dec 31 ¹						
Firm Power	84,538	2,749,223	--	--	84,538	2,749,223
Total Power	84,538	2,749,223	--	--	84,538	2,749,223
Butler County Rural P P D/Dec 31 ¹						
Firm Power	62,145	2,210,747	--	--	62,145	2,210,747
Total Power	62,145	2,210,747	--	--	62,145	2,210,747
Chimney Rock Public Power Dist/Dec 31 ¹						
Firm Power	39,839	1,733,421	--	--	39,839	1,733,421
Total Power	39,839	1,733,421	--	--	39,839	1,733,421
Cornhusker Public Power Dist/Dec 31						
Firm Power	181,396	6,071,450	--	--	181,396	6,071,450
Total Power	181,396	6,071,450	--	--	181,396	6,071,450
Dawson County Public Pwr Dist/Dec 31						
Firm Power	501,768	17,403,604	--	--	501,768	17,403,604
Total Power	501,768	17,403,604	--	--	501,768	17,403,604
KBR Rural Public Power Dist/Dec 31 ¹						
Firm Power	40,780	1,480,040	--	--	40,780	1,480,040
Total Power	40,780	1,480,040	--	--	40,780	1,480,040
Loup River Public Power Dist/Dec 31						
Firm Power	--	--	712,277	22,850,560	712,277	22,850,560
Total Power	--	--	712,277	22,850,560	712,277	22,850,560
Municipal Energy Agency of NE/Mar 31						
Firm Power	--	--	238,493	4,282,134	447,448	11,144,722
Nonfirm Power	62,640	1,056,739	174,484	2,754,812	285,775	4,209,842
Total Power	62,640	1,056,739	412,977	7,036,946	733,223	15,354,564

See notes and footnotes at end of table.

Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1992
(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)
Nebraska						
Nebraska Public Power District/Dec 31						
Firm Power	--	--	722,399	14,669,395	12,257	1,445,793
Nonfirm Power	161,762	2,595,604	41,923	638,005	60,097	815,849
Total Power	161,762	2,595,604	764,322	15,307,400	72,354	2,261,642
North Public Power District/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
North Central Public Pwr Dist/Dec 31 ¹						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Northeast Nebraska Rural P P D/Dec 31 ¹						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Omaha Public Power District/Dec 31						
Firm Power	--	--	368,283	4,209,376	--	192,000
Total Power	--	--	368,283	4,209,376	--	192,000
Polk County Rural Pub Pwr Dist/Dec 31 ¹						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Seward County Rri Pub Pwr Dist/Dec 31 ¹						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Southern Nebraska Rural P P D/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Stanton County Pub Pwr Dist/Dec 31 ¹						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Twin Valleys Public Power Dist/Dec 31 ¹						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Wayne County Public Power Dist/Dec 31 ¹						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Wheat Belt Public Power Dist/Dec 31 ¹						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Nevada						
Colorado River Commission/Jun 30						
Firm Power	--	401,003	1,331,189	19,012,310	--	--
Nonfirm Power	153,034	4,363,573	--	--	--	--
Total Power	153,034	4,764,576	1,331,189	19,012,310	--	--
Lincoln County Power Dist No 1/Dec 31 ¹						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Overton Power District No 5/Dec 31 ¹						
Firm Power	--	--	--	--	--	--
Other Power	49,204	1,961,749	--	--	--	--
Total Power	49,204	1,961,749	--	--	--	--
New York						
New York Power Authority/Dec 31						
Firm Power	459,979	24,006,153	--	--	--	--
Nonfirm Power	1,403,244	32,387,571	--	--	--	--
Other Power	52,929	1,461,186	--	--	--	--
Total Power	1,916,152	57,854,910	--	--	--	--
North Carolina						
New River Light & Power Co/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
North Carolina Eastern M P A/Dec 31						
Firm Power	2,743,442	135,217,000	--	--	--	--
Other Power	--	15,000	--	--	--	--
Total Power	2,743,442	135,232,000	--	--	--	--
North Carolina Mun Power Agny/Dec 31						
Firm Power	2,615,809	125,058,000	--	--	--	--
Total Power	2,615,809	125,058,000	--	--	--	--

See notes and footnotes at end of table.

Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1992
(Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ²		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Nebraska						
Nebraska Public Power District/Dec 31						
Firm Power	—	—	403,276	12,483,198	1,137,932	28,578,386
Nonfirm Power	227,175	3,417,593	17,905	223,131	508,862	7,690,182
Total Power	227,175	3,417,593	421,181	12,686,329	1,646,794	36,268,568
Norris Public Power District/Dec 31						
Firm Power	—	—	400,140	12,428,143	400,140	12,428,143
Total Power	—	—	400,140	12,428,143	400,140	12,428,143
North Central Public Pwr Dist/Dec 31 ¹						
Firm Power	60,253	2,271,124	—	—	60,253	2,271,124
Total Power	60,253	2,271,124	—	—	60,253	2,271,124
Northeast Nebraska Rural P P D/Dec 31 ¹						
Firm Power	67,290	2,106,800	—	—	67,290	2,106,800
Total Power	67,290	2,106,800	—	—	67,290	2,106,800
Omaha Public Power District/Dec 31						
Firm Power	2,220	313,290	—	—	370,503	4,714,666
Total Power	2,220	313,290	—	—	370,503	4,714,666
Polk County Rural Pub Pwr Dist/Dec 31 ¹						
Firm Power	49,761	1,671,755	—	—	49,761	1,671,755
Total Power	49,761	1,671,755	—	—	49,761	1,671,755
Seward County Rrl Pub Pwr Dist/Dec 31 ¹						
Firm Power	49,452	1,724,437	—	—	49,452	1,724,437
Total Power	49,452	1,724,437	—	—	49,452	1,724,437
Southern Nebraska Rural P P D/Dec 31						
Firm Power	379,750	14,424,916	—	—	379,750	14,424,916
Total Power	379,750	14,424,916	—	—	379,750	14,424,916
Stanton County Pub Pwr Dist/Dec 31 ¹						
Firm Power	42,569	1,424,699	—	—	42,569	1,424,699
Total Power	42,569	1,424,699	—	—	42,569	1,424,699
Twin Valleys Public Power Dist/Dec 31 ¹						
Firm Power	57,397	1,887,122	—	—	57,397	1,887,122
Total Power	57,397	1,887,122	—	—	57,397	1,887,122
Wayne County Public Power Dist/Dec 31 ¹						
Firm Power	53,292	1,850,370	—	—	53,292	1,850,370
Total Power	53,292	1,850,370	—	—	53,292	1,850,370
Wheat Belt Public Power Dist/Dec 31 ¹						
Firm Power	110,448	5,016,621	—	—	110,448	5,016,621
Total Power	110,448	5,016,621	—	—	110,448	5,016,621
Nevada						
Colorado River Commission/Jun 30						
Firm Power	—	—	—	—	1,331,189	19,413,313
Nonfirm Power	—	—	—	—	153,034	4,363,573
Total Power	—	—	—	—	1,484,223	23,776,886
Lincoln County Power Dist No 1/Dec 31 ¹						
Firm Power	—	—	66,263	776,157	66,263	776,157
Total Power	—	—	66,263	776,157	66,263	776,157
Overton Power District No 5/Dec 31 ¹						
Firm Power	—	—	104,838	1,628,422	104,838	1,628,422
Other Power	—	—	—	—	49,204	1,961,749
Total Power	—	—	104,838	1,628,422	154,042	3,590,171
New York						
New York Power Authority/Dec 31						
Firm Power	—	—	1,995,939	65,806,009	2,455,918	89,812,162
Nonfirm Power	—	—	2,047,511	47,989,373	3,450,755	80,356,944
Other Power	—	—	28,839	1,421,982	81,768	2,883,168
Total Power	—	—	4,072,289	115,197,364	5,988,441	173,052,274
North Carolina						
New River Light & Power Co/Dec 31						
Firm Power	165,753	8,377,684	—	—	165,753	8,377,684
Total Power	165,753	8,377,684	—	—	165,753	8,377,684
North Carolina Eastern M P A/Dec 31						
Firm Power	277,372	9,233,000	—	—	3,020,814	144,450,000
Other Power	—	—	—	—	—	15,000
Total Power	277,372	9,233,000	—	—	3,020,814	144,465,000
North Carolina Mun Power Agny/Dec 31						
Firm Power	—	—	—	—	2,615,809	125,058,000
Total Power	—	—	—	—	2,615,809	125,058,000

See notes and footnotes at end of table.

Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1992
(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)
Oklahoma						
Grand River Dam Authority/Dec 31						
Nonfirm Power	58,488	983,534	6,335	32,942	—	—
Total Power	58,488	983,534	6,335	32,942	—	—
Oklahoma Municipal Power Auth/Dec 31						
Firm Power	312,183	10,277,863	13,936	290,732	19,225	2,564,115
Other Power	—	—	—	—	—	—
Total Power	312,183	10,277,863	13,936	290,732	19,225	2,564,115
Oregon						
Central Lincoln Peoples Util Dt/Dec 31						
Firm Power	—	—	1,344,901	31,742,333	—	—
Total Power	—	—	1,344,901	31,742,333	—	—
Clatskanie Peoples Util Dist/Dec 31						
Firm Power	—	—	883,763	20,164,953	—	—
Total Power	—	—	883,763	20,164,953	—	—
Columbia River Peoples Ut Dist/Dec 31						
Firm Power	—	—	274,491	6,320,832	—	—
Other Power	—	—	—	—	—	—
Total Power	—	—	274,491	6,320,832	—	—
Emerald Peoples Utility Dist/Dec 31						
Firm Power	103	2,750	377,054	8,702,944	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	103	2,750	377,054	8,702,944	—	—
Northern Wasco Cnty Peoples/Dec 31						
Firm Power	—	—	238,532	5,976,792	—	—
Total Power	—	—	238,532	5,976,792	—	—
Tillamook Peoples Utility Dist/Dec 31						
Firm Power	—	—	342,137	8,059,425	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	342,137	8,059,425	—	—
South Carolina						
South Carolina Pub Serv Auth/Dec 31						
Firm Power	—	—	234,867	5,118,201	192,324	2,590,622
Other Power	109,149	1,463,886	—	—	—	—
Total Power	109,149	1,463,886	234,867	5,118,201	192,324	2,590,622
South Dakota						
Heartland Consumers Power Dist/Dec 31						
Nonfirm Power	—	—	630	9,999	—	—
Other Power	—	—	—	132,430	—	416,048
Total Power	—	—	630	142,429	—	416,048
Missouri Basin Mun Power Agny/Dec 31						
Firm Power	—	—	—	—	1,948,458	40,093,645
Nonfirm Power	4,387	54,889	4,248	63,975	200	3,885
Other Power	—	—	—	685,960	—	—
Total Power	4,387	54,889	4,248	749,935	1,948,658	40,097,530
Texas						
Lower Colorado River Authority/Jun 30						
Nonfirm Power	2,484	40,011	—	—	—	—
Total Power	2,484	40,011	—	—	—	—
Sam Rayburn Mun Pwr Agny/Sep 30						
Firm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Utah						
Utah Associated Mun Power Sys/Mar 31						
Firm Power	358,205	8,993,164	—	—	—	—
Nonfirm Power	17,745	406,225	—	—	5,454	91,518
Total Power	375,950	9,399,389	—	—	5,454	91,518
Utah Municipal Power Agency/Jun 30						
Firm Power	8,887	307,335	358,175	5,977,696	—	—
Nonfirm Power	2,333	57,991	—	—	—	—
Total Power	11,220	365,326	358,175	5,977,696	—	—
Vermont						
Vermont Public Pwr Supply Auth/Dec 31						
Firm Power	3	20,311	—	—	40	80,607
Nonfirm Power	139	4,699	—	—	35	894
Total Power	142	25,010	—	—	75	81,501

See notes and footnotes at end of table.

Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1992
(Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ^a		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Oklahoma						
Grand River Dam Authority/Dec 31						
Nonfirm Power	31,251	551,743	—	—	96,074	1,568,219
Total Power	31,251	551,743	—	—	96,074	1,568,219
Oklahoma Municipal Power Auth/Dec 31						
Firm Power	156,701	5,755,940	142,064	4,736,889	644,109	23,625,539
Other Power	—	—	—	140,252	—	140,252
Total Power	156,701	5,755,940	142,064	4,877,141	644,109	23,765,791
Oregon						
Central Lincoln Peoples Util Dt/Dec 31						
Firm Power	66	1,793	26,043	109,046	1,371,010	31,853,172
Total Power	66	1,793	26,043	109,046	1,371,010	31,853,172
Clatskanie Peoples Util Dist/Dec 31						
Firm Power	—	—	—	—	883,763	20,164,953
Total Power	—	—	—	—	883,763	20,164,953
Columbia River Peoples Ut Dist/Dec 31						
Firm Power	—	—	—	—	274,491	6,320,832
Other Power	—	—	—	303	—	303
Total Power	—	—	—	303	274,491	6,321,135
Emerald Peoples Utility Dist/Dec 31						
Firm Power	—	—	—	—	377,157	8,705,694
Nonfirm Power	—	—	100	2,457	100	2,457
Total Power	—	—	100	2,457	377,257	8,708,151
Northern Wasco Cnty Peoples/Dec 31						
Firm Power	—	—	—	—	238,532	5,976,792
Total Power	—	—	—	—	238,532	5,976,792
Tillamook Peoples Utility Dist/Dec 31						
Firm Power	—	—	13,020	54,813	355,157	8,114,038
Nonfirm Power	—	—	77	1,201	77	1,201
Total Power	—	—	13,097	55,814	355,234	8,115,239
South Carolina						
South Carolina Pub Serv Auth/Dec 31						
Firm Power	—	—	1,792	14,336	428,983	7,723,159
Other Power	—	—	-81,442	1,237,709	27,707	2,701,595
Total Power	—	—	-79,650	1,252,045	456,690	10,424,754
South Dakota						
Heartland Consumers Power Dist/Dec 31						
Nonfirm Power	—	—	13,287	179,144	13,917	189,143
Other Power	6,030	102,600	12,240	227,000	18,270	878,078
Total Power	6,030	102,600	25,527	406,144	32,187	1,067,221
Missouri Basin Mun Power Agny/Dec 31						
Firm Power	—	—	—	—	1,948,458	40,093,845
Nonfirm Power	21,586	254,124	4,408	54,035	34,829	430,908
Other Power	—	—	—	2,543	—	688,503
Total Power	21,586	254,124	4,408	56,578	1,983,287	41,213,056
Texas						
Lower Colorado River Authority/Jun 30						
Nonfirm Power	—	—	—	—	2,484	40,011
Total Power	—	—	—	—	2,484	40,011
Sam Rayburn Mun Pwr Agny/Sep 30						
Firm Power	87,716	2,514,673	—	—	87,716	2,514,673
Total Power	87,716	2,514,673	—	—	87,716	2,514,673
Utah						
Utah Associated Mun Power Sys/Mar 31						
Firm Power	—	—	—	—	358,205	8,993,164
Nonfirm Power	218,065	3,819,794	52,728	967,942	293,992	5,285,479
Total Power	218,065	3,819,794	52,728	967,942	652,197	14,278,643
Utah Municipal Power Agency/Jun 30						
Firm Power	—	—	—	—	367,062	6,285,031
Nonfirm Power	5,590	91,478	6,021	98,778	13,944	248,247
Total Power	5,590	91,478	6,021	98,778	381,006	6,533,278
Vermont						
Vermont Public Pwr Supply Auth/Dec 31						
Firm Power	—	—	99,411	2,586,615	99,454	2,687,533
Nonfirm Power	—	—	421	12,080	595	17,673
Total Power	—	—	99,832	2,598,695	100,049	2,705,206

See notes and footnotes at end of table.

Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1992
(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)
Virginia						
Virginia Tech Electric Service/Jun 30						
Firm Power	200,804	6,781,412	--	--	--	--
Total Power	200,804	6,781,412	--	--	--	--
Washington						
PUD No 1 of Benton County/Dec 31						
Firm Power	--	--	1,353,604	31,310,809	--	--
Total Power	--	--	1,353,604	31,310,809	--	--
PUD No 1 of Chelan County/Dec 31						
Firm Power	168,200	1,253,531	19,027	522,336	--	--
Nonfirm Power	32,300	778,672	--	--	--	--
Total Power	200,500	2,032,203	19,027	522,336	--	--
PUD No 1 of Clallam County/Dec 31						
Firm Power	--	--	473,811	11,518,146	--	--
Total Power	--	--	473,811	11,518,146	--	--
PUD No 1 of Clark County/Dec 31						
Firm Power	--	--	3,085,950	72,247,952	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	3,085,950	72,247,952	--	--
PUD No 1 of Cowlitz County/Dec 31						
Firm Power	--	--	4,062,496	91,255,506	--	--
Total Power	--	--	4,062,496	91,255,506	--	--
PUD No 1 of Douglas County/Dec 31						
Nonfirm Power	--	--	--	329,304	--	--
Total Power	--	--	--	329,304	--	--
PUD No 1 of Ferry County/Dec 31 ¹						
Firm Power	--	--	123,937	2,732,567	--	--
Total Power	--	--	123,937	2,732,567	--	--
PUD No 1 of Franklin County/Dec 31						
Firm Power	--	--	616,446	14,505,603	--	--
Total Power	--	--	616,446	14,505,603	--	--
PUD No 1 of Grays Harbor Cnty/Dec 31						
Firm Power	--	--	1,074,909	25,147,402	--	--
Total Power	--	--	1,074,909	25,147,402	--	--
PUD No 1 of Kittitas County/Dec 31 ¹						
Firm Power	179	6,358	--	--	--	--
Other Power	--	--	--	--	--	--
Total Power	179	6,358	--	--	--	--
PUD No 1 of Klickitat County/Dec 31						
Firm Power	--	--	278,347	6,111,650	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	278,347	6,111,650	--	--
PUD No 1 of Lewis County/Dec 31						
Firm Power	--	--	638,969	13,251,341	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	638,969	13,251,341	--	--
PUD No 1 of Mason County/Dec 31 ¹						
Firm Power	--	--	52,478	1,255,201	--	--
Total Power	--	--	52,478	1,255,201	--	--
PUD No 1 of Okanogan County/Dec 31						
Firm Power	--	--	185,852	4,763,946	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	185,852	4,763,946	--	--
PUD No 1 of Pend Oreille Cnty/Dec 31						
Firm Power	80,597	1,823,940	238,640	6,098,149	208,394	630,435
Total Power	80,597	1,823,940	238,640	6,098,149	208,394	630,435
PUD No 1 of Snohomish County/Dec 31						
Firm Power	--	--	4,690,520	105,955,773	--	--
Nonfirm Power	945	19,920	--	--	--	--
Total Power	945	19,920	4,690,520	105,955,773	--	--
PUD No 1 of Whatcom County/Dec 31						
Firm Power	--	--	141,788	3,226,741	--	--
Total Power	--	--	141,788	3,226,741	--	--
PUD No 2 of Grant County/Dec 31						
Firm Power	--	--	284,163	7,111,708	--	--
Other Power	--	--	--	--	--	--
Total Power	--	--	284,163	7,111,708	--	--

See notes and footnotes at end of table.

Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1992
(Continued)

State / Utility / Fiscal Year Ending Date	Source of Electricity					
	Cooperative		Other ²		Total	
	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)
Virginia						
Virginia Tech Electric Service/Jun 30						
Firm Power	—	—	—	—	200,804	6,781,412
Total Power	—	—	—	—	200,804	6,781,412
Washington						
PUD No 1 of Benton County/Dec 31						
Firm Power	—	—	—	—	1,353,804	31,310,809
Total Power	—	—	—	—	1,353,804	31,310,809
PUD No 1 of Chelan County/Dec 31						
Firm Power	—	—	26,225	96,379	213,452	1,872,246
Nonfirm Power	—	—	—	—	32,300	778,672
Total Power	—	—	26,225	96,379	245,752	2,650,918
PUD No 1 of Clallam County/Dec 31						
Firm Power	—	—	—	—	473,811	11,518,146
Total Power	—	—	—	—	473,811	11,518,146
PUD No 1 of Clark County/Dec 31						
Firm Power	—	—	—	—	3,085,950	72,247,952
Nonfirm Power	—	—	157,712	5,188,063	157,712	5,188,063
Total Power	—	—	157,712	5,188,063	3,243,662	77,436,015
PUD No 1 of Cowlitz County/Dec 31						
Firm Power	—	—	269,013	1,669,096	4,331,509	92,924,602
Total Power	—	—	269,013	1,669,096	4,331,509	92,924,602
PUD No 1 of Douglas County/Dec 31						
Nonfirm Power	—	—	162,510	947,044	162,510	1,276,348
Total Power	—	—	162,510	947,044	162,510	1,276,348
PUD No 1 of Ferry County/Dec 31 ¹						
Firm Power	—	—	—	—	123,937	2,732,567
Total Power	—	—	—	—	123,937	2,732,567
PUD No 1 of Franklin County/Dec 31						
Firm Power	—	—	20,836	76,445	637,282	14,582,048
Total Power	—	—	20,836	76,445	637,282	14,582,048
PUD No 1 of Grays Harbor Cnty/Dec 31						
Firm Power	—	—	39,224	163,822	1,114,133	25,311,224
Total Power	—	—	39,224	163,822	1,114,133	25,311,224
PUD No 1 of Kittitas County/Dec 31 ¹						
Firm Power	—	—	—	—	179	6,358
Other Power	—	—	49,570	882,463	49,570	882,463
Total Power	—	—	49,570	882,463	49,749	888,821
PUD No 1 of Klickitat County/Dec 31						
Firm Power	—	—	—	—	278,347	6,111,650
Nonfirm Power	—	—	19	335	19	335
Total Power	—	—	19	335	278,366	6,111,985
PUD No 1 of Lewis County/Dec 31						
Firm Power	—	—	—	—	638,969	13,251,341
Nonfirm Power	—	—	2,521	405,279	2,521	405,279
Total Power	—	—	2,521	405,279	641,490	13,656,620
PUD No 1 of Mason County/Dec 31 ¹						
Firm Power	—	—	4,888	100,980	57,366	1,356,181
Total Power	—	—	4,888	100,980	57,366	1,356,181
PUD No 1 of Okanogan County/Dec 31						
Firm Power	—	—	389,567	1,725,464	575,419	6,489,410
Nonfirm Power	—	—	2,439	24,390	2,439	24,390
Total Power	—	—	392,006	1,749,854	577,858	6,513,800
PUD No 1 of Pend Oreille Cnty/Dec 31						
Firm Power	—	—	5,200	19,244	532,831	8,571,768
Total Power	—	—	5,200	19,244	532,831	8,571,768
PUD No 1 of Snohomish County/Dec 31						
Firm Power	—	—	—	—	4,690,520	105,955,773
Nonfirm Power	—	—	3,535	98,845	4,480	116,785
Total Power	—	—	3,535	98,845	4,695,000	106,074,538
PUD No 1 of Whatcom County/Dec 31						
Firm Power	—	—	—	—	141,788	3,226,741
Total Power	—	—	—	—	141,788	3,226,741
PUD No 2 of Grant County/Dec 31						
Firm Power	51,049	116,518	11,730	49,163	346,942	7,277,389
Other Power	—	—	65,719	722,909	65,719	722,909
Total Power	51,049	116,518	77,449	772,072	412,661	8,000,298

See notes and footnotes at end of table.

Table 27. Electricity Purchases by State and Other Government Utilities, Fiscal Year 1992
(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 Pacific County/Dec 31						
Firm Power	—	—	255,242	6,516,258	—	—
Total Power	—	—	255,242	6,516,258	—	—
PUD No 3 of Mason County/Dec 31						
Firm Power	—	—	476,074	12,105,895	—	—
Total Power	—	—	476,074	12,105,895	—	—
Vera Irrigation District #15/Dec 31						
Firm Power	—	—	164,812	4,004,745	—	—
Total Power	—	—	164,812	4,004,745	—	—
Wisconsin						
Wisconsin Public Power Inc Sys/Dec 31						
Firm Power	1,955,341	71,397,009	—	—	14,474	3,027,889
Nonfirm Power	326,429	4,197,112	3,398	45,217	60	1,201
Other Power	—	415,173	—	—	—	—
Total Power	2,281,770	76,009,294	3,398	45,217	14,534	3,029,090
Wyoming						
Wyoming Municipal Pwr Agcy/Dec 31						
Firm Power	—	—	56,471	1,169,434	—	—
Total Power	—	—	56,471	1,169,434	—	—

Source of Electricity					
Cooperative		Other ²		Total	
Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)	Purchases (thousand kWh)	Cost (dollars)

Washington					
PUD No 2 of Pacific County/Dec 31					
Firm Power	—	—	—	255,242	6,516,258
Total Power	—	—	—	255,242	6,516,258
PUD No 3 of Mason County/Dec 31					
Firm Power	—	—	—	476,074	12,105,895
Total Power	—	—	—	476,074	12,105,895
Vera Irrigation District #15/Dec 31					
Firm Power	—	—	—	164,812	4,004,745
Total Power	—	—	—	164,812	4,004,745
Wisconsin					
Wisconsin Public Power Inc Sys/Dec 31					
Firm Power	—	—	—	1,969,815	74,424,898
Nonfirm Power	52,152	563,692	51,149	494,199	5,301,421
Other Power	—	—	—	—	415,173
Total Power	52,152	563,692	51,149	2,403,003	80,141,492
Wyoming					
Wyoming Municipal Pwr Agcy/Dec 31					
Firm Power	—	—	—	56,471	1,169,434
Total Power	—	—	—	56,471	1,169,434

¹ Source of data is Rural Electrification Administration, REA Form 7, "Financial and Statistical Report."

² Includes transactions with State and other government utilities, 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 1992

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/Jun 30						
Firm Power	--	--	--	--	192,365	6,800,056
Nonfirm Power	--	--	--	--	15,537	159,067
Total Power	--	--	--	--	207,902	6,959,123
Arizona						
Arizona Power Authority/Jun 30						
Firm Power	33,243	811,261	2,423	57,854	26,260	665,629
Total Power	33,243	811,261	2,423	57,854	26,260	665,629
Salt River Project/Apr 30						
Firm Power	1,645,419	53,863,269	4,041	556,458	24,501	2,481,672
Nonfirm Power	909,233	15,435,778	3,040	41,355	622,445	11,046,099
Other Power	--	--	--	--	--	--
Total Power	2,554,652	69,299,047	7,081	597,813	646,946	13,527,771
California						
California Dept Wtr Resources/Dec 31						
Firm Power	239,530	7,227,794	--	--	294,308	18,079,905
Nonfirm Power	332,452	6,898,781	117,294	2,405,246	149,726	3,207,893
Other Power	--	--	--	--	--	663,600
Total Power	571,982	14,126,575	117,294	2,405,246	444,034	21,951,388
Imperial Irrigation District/Dec 31						
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Modesto Irrigation District/Dec 31						
Nonfirm Power	520	14,300	--	--	35,161	892,512
Other Power	685	27,249	--	--	--	--
Total Power	1,205	41,549	--	--	35,161	892,512
MSR Public Power Agency/Dec 31						
Firm Power	616,087	40,384,347	--	--	--	--
Nonfirm Power	178,892	3,842,243	--	--	--	--
Total Power	794,979	44,026,590	--	--	--	--
Northern California Power Agny/Jun 30						
Firm Power	--	--	--	--	1,720,766	153,099,000
Total Power	--	--	--	--	1,720,766	153,099,000
Oakdale & South San Joaquin/Dec 31						
Firm Power	283,319	5,275,131	--	--	--	--
Total Power	283,319	5,275,131	--	--	--	--
Oroville-Wyandotte Irrig Dist/Dec 31						
Firm Power	346,201	8,300,000	--	--	--	--
Total Power	346,201	8,300,000	--	--	--	--
Placer County Water Agency/Dec 31						
Other Power	322,314	7,668,330	--	--	--	--
Total Power	322,314	7,668,330	--	--	--	--
Southern California P P A/Jun 30						
Firm Power	--	--	--	--	1,340,821	115,136,445
Total Power	--	--	--	--	1,340,821	115,136,445
Yuba County Water Agency/Jun 30						
Firm Power	1,010,311	11,002,823	--	--	--	--
Total Power	1,010,311	11,002,823	--	--	--	--
Colorado						
Arkansas River Power Authority/Dec 31						
Firm Power	--	--	--	--	265,274	9,602,654
Total Power	--	--	--	--	265,274	9,602,654
Platte River Power Authority/Dec 31						
Firm Power	1,180,132	69,448,455	--	--	1,745,144	59,589,809
Nonfirm Power	108,882	1,800,711	19,299	313,088	10,526	171,291
Total Power	1,289,014	71,049,166	19,299	313,088	1,755,670	59,761,100
Connecticut						
Mun Electric Engy Coop/Dec 31						
Firm Power	--	--	--	--	1,070,571	59,814,365
Total Power	--	--	--	--	1,070,571	59,814,365
Georgia						
Municipal Electric Auth of GA/Dec 31						
Firm Power	--	--	--	--	6,190,691	319,544,755
Nonfirm Power	3,280,181	210,048,000	--	--	--	--
Total Power	3,280,181	210,048,000	--	--	6,190,691	319,544,755

See notes and footnotes at end of table.

Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1992
(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/Jun 30						
Firm Power	412,864	10,679,015	--	--	605,229	17,479,071
Nonfirm Power	--	--	--	--	15,537	159,067
Total Power	412,864	10,679,015	--	--	620,766	17,638,138
Arizona						
Arizona Power Authority/Jun 30						
Firm Power	80,467	2,026,146	598,112	13,406,522	740,505	16,967,412
Total Power	80,467	2,026,146	598,112	13,406,522	740,505	16,967,412
Salt River Project/Apr 30						
Firm Power	135	3,035	69,773	1,653,840	1,743,869	58,558,274
Nonfirm Power	12,063	223,914	302,692	5,705,217	1,849,473	32,452,383
Other Power	--	--	--	1,115,189	--	1,115,189
Total Power	12,198	226,949	372,465	8,474,246	3,593,342	92,125,826
California						
California Dept Wtr Resources/Dec 31						
Firm Power	--	--	1,333,798	34,343,862	1,867,636	59,651,561
Nonfirm Power	--	--	--	--	599,472	12,511,910
Other Power	--	--	--	--	--	663,600
Total Power	--	--	1,333,798	34,343,862	2,467,108	72,827,071
Imperial Irrigation District/Dec 31						
Nonfirm Power	--	--	210	4,830	210	4,830
Total Power	--	--	210	4,830	210	4,830
Modesto Irrigation District/Dec 31						
Nonfirm Power	--	--	7,367	198,909	43,048	1,105,721
Other Power	--	--	--	--	685	27,249
Total Power	--	--	7,367	198,909	43,733	1,132,970
MSR Public Power Agency/Dec 31						
Firm Power	--	--	--	--	616,087	40,384,347
Nonfirm Power	--	--	1,887	73,027	180,779	3,715,270
Total Power	--	--	1,887	73,027	796,866	44,099,617
Northern California Power Agny/Jun 30						
Firm Power	13,346	422,000	--	--	1,734,112	153,521,000
Total Power	13,346	422,000	--	--	1,734,112	153,521,000
Oakdale & South San Joaquin/Dec 31						
Firm Power	--	--	--	--	283,319	5,275,131
Total Power	--	--	--	--	283,319	5,275,131
Oroville-Wyandotte Irrig Dist/Dec 31						
Firm Power	--	--	--	--	346,201	8,300,000
Total Power	--	--	--	--	346,201	8,300,000
Placer County Water Agency/Dec 31						
Other Power	--	--	--	--	322,314	7,668,330
Total Power	--	--	--	--	322,314	7,668,330
Southern California P P A/Jun 30						
Firm Power	--	--	93,212	7,895,504	1,434,033	123,031,949
Total Power	--	--	93,212	7,895,504	1,434,033	123,031,949
Yuba County Water Agency/Jun 30						
Firm Power	--	--	--	--	1,010,311	11,002,823
Total Power	--	--	--	--	1,010,311	11,002,823
Colorado						
Arkansas River Power Authority/Dec 31						
Firm Power	--	--	--	--	265,274	9,602,654
Total Power	--	--	--	--	265,274	9,602,654
Platte River Power Authority/Dec 31						
Firm Power	--	--	--	--	2,925,276	129,038,264
Nonfirm Power	19,251	272,873	208,577	3,741,990	366,535	8,099,953
Total Power	19,251	272,873	208,577	3,741,990	3,291,811	135,138,217
Connecticut						
Mun Electric Engy Coop/Dec 31						
Firm Power	--	--	--	--	1,070,571	59,814,365
Total Power	--	--	--	--	1,070,571	59,814,365
Georgia						
Municipal Electric Auth of GA/Dec 31						
Firm Power	--	--	212,550	8,503,969	6,403,241	328,048,724
Nonfirm Power	--	--	--	--	3,280,181	210,048,000
Total Power	--	--	212,550	8,503,969	9,683,422	538,096,724

See notes and footnotes at end of table.

**Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1992
(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)
Indiana						
Indiana Municipal Power Agency/Dec 31						
Firm Power	--	--	--	--	3,393,950	138,743,574
Other Power	--	--	--	--	--	--
Total Power	--	--	--	--	3,393,950	138,743,574
Kansas						
Kansas Municipal Energy Agency/Dec 31						
Firm Power	--	--	36,371	498,000	275,183	9,363,000
Total Power	--	--	36,371	498,000	275,183	9,363,000
Louisiana						
Louisiana Energy & Power Auth/Dec 31						
Firm Power	--	--	--	--	1,485,052	62,571,993
Total Power	--	--	--	--	1,485,052	62,571,993
Massachusetts						
Massachusetts Mun Wholes EI/Dec 31						
Firm Power	44,145	2,995,954	--	--	3,192,967	278,711,618
Other Power	--	--	--	--	--	--
Total Power	44,145	2,995,954	--	--	3,192,967	278,711,618
Michigan						
Michigan Public Power Agency/Dec 31						
Firm Power	--	--	--	--	729,302	34,140,955
Nonfirm Power	1,343,395	53,760,877	--	--	111,795	3,570,638
Total Power	1,343,395	53,760,877	--	--	841,097	37,711,593
Michigan South Central Pwr Agy/Jun 30						
Firm Power	--	--	--	--	420,310	20,761,513
Other Power	68	866	--	--	--	--
Total Power	68	866	--	--	420,310	20,761,513
Minnesota						
Southern Minnesota Mun P Agy/Dec 31						
Firm Power	14,149	506,671	--	--	1,964,204	113,479,341
Nonfirm Power	301,012	4,249,263	10,830	120,184	2,501	27,391
Total Power	315,161	4,755,934	10,830	120,184	1,966,705	113,506,732
Nebraska						
Central Nebraska Pub P&I Dist/Dec 31						
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Cornhusker Public Power Dist/Dec 31						
Nonfirm Power	--	--	--	--	1,986	27,325
Total Power	--	--	--	--	1,986	27,325
Dawson County Public Pwr Dist/Dec 31						
Firm Power	--	--	--	--	4,900	213,820
Total Power	--	--	--	--	4,900	213,820
Loup River Public Power Dist/Dec 31						
Firm Power	--	--	--	--	73,097	2,515,576
Total Power	--	--	--	--	73,097	2,515,576
Municipal Energy Agency of NE/Mar 31						
Firm Power	--	--	101,617	1,637,905	574,396	19,914,149
Nonfirm Power	--	--	--	--	180,016	2,964,948
Total Power	--	--	101,617	1,637,905	754,412	22,879,097
Nebraska Public Power District/Dec 31						
Firm Power	3,512,255	102,222,208	--	--	2,809,601	88,765,214
Nonfirm Power	597,782	8,256,877	335,922	4,866,182	176,883	2,900,538
Other Power	--	495,000	--	--	--	--
Total Power	4,110,037	110,974,085	335,922	4,866,182	2,986,484	91,665,752
Norris Public Power District/Dec 31						
Firm Power	--	--	--	--	12,777	474,337
Nonfirm Power	--	--	--	--	1,052	17,908
Total Power	--	--	--	--	13,829	492,245
Omaha Public Power District/Dec 31						
Firm Power	--	--	--	--	35,523	1,646,904
Total Power	--	--	--	--	35,523	1,646,904
Nevada						
Colorado River Commission/Jun 30						
Firm Power	484,146	7,137,798	--	--	48,026	771,697
Total Power	484,146	7,137,798	--	--	48,026	771,697

See notes and footnotes at end of table.

Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1992
(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)
Indiana						
Indiana Municipal Power Agency/Dec 31						
Firm Power	--	--	--	--	3,393,950	138,743,574
Other Power	--	--	--	3,009,335	--	3,009,335
Total Power	--	--	--	3,009,335	3,393,950	141,752,909
Kansas						
Kansas Municipal Energy Agency/Dec 31						
Firm Power	--	--	--	--	311,554	9,861,000
Total Power	--	--	--	--	311,554	9,861,000
Louisiana						
Louisiana Energy & Power Auth/Dec 31						
Firm Power	--	--	--	--	1,485,052	62,571,993
Total Power	--	--	--	--	1,485,052	62,571,993
Massachusetts						
Massachusetts Mun Wholes EI/Dec 31						
Firm Power	--	--	252	7,114	3,237,364	281,714,686
Other Power	--	--	--	-9,266,090	--	-9,266,090
Total Power	--	--	252	-9,258,976	3,237,364	272,448,596
Michigan						
Michigan Public Power Agency/Dec 31						
Firm Power	--	--	--	--	729,302	34,140,955
Nonfirm Power	26,412	818,758	--	--	1,483,602	58,150,273
Total Power	26,412	818,758	--	--	2,212,904	92,291,228
Michigan South Central Pwr Agy/Jun 30						
Firm Power	--	--	--	--	420,310	20,761,513
Other Power	--	--	--	--	68	866
Total Power	--	--	--	--	420,378	20,762,379
Minnesota						
Southern Minnesota Mun P Agy/Dec 31						
Firm Power	--	--	12,228	161,305	1,990,581	114,167,317
Nonfirm Power	65,694	852,894	23,891	301,238	403,928	5,550,970
Total Power	65,694	852,894	36,119	462,543	2,394,509	119,718,287
Nebraska						
Central Nebraska Pub P&I Dist/Dec 31						
Nonfirm Power	--	--	253,110	8,032,997	253,110	8,032,997
Total Power	--	--	253,110	8,032,997	253,110	8,032,997
Cornhusker Public Power Dist/Dec 31						
Nonfirm Power	--	--	--	--	1,986	27,325
Total Power	--	--	--	--	1,986	27,325
Dawson County Public Pwr Dist/Dec 31						
Firm Power	--	--	--	--	4,900	213,820
Total Power	--	--	--	--	4,900	213,820
Loup River Public Power Dist/Dec 31						
Firm Power	181,396	6,058,956	144,070	3,900,861	398,563	12,475,393
Total Power	181,396	6,058,956	144,070	3,900,861	398,563	12,475,393
Municipal Energy Agency of NE/Mar 31						
Firm Power	--	--	--	--	676,013	21,552,054
Nonfirm Power	17,202	236,978	--	--	197,218	3,201,926
Total Power	17,202	236,978	--	--	873,231	24,753,980
Nebraska Public Power District/Dec 31						
Firm Power	82,622	3,009,167	3,309,127	111,161,620	9,713,605	305,158,209
Nonfirm Power	360,184	5,011,843	125,118	1,827,256	1,595,889	22,862,696
Other Power	--	237,000	--	--	--	732,000
Total Power	442,806	8,258,010	3,434,245	112,988,876	11,309,494	328,752,905
Norris Public Power District/Dec 31						
Firm Power	--	--	--	--	12,777	474,337
Nonfirm Power	--	--	--	--	1,052	17,908
Total Power	--	--	--	--	13,829	492,245
Omaha Public Power District/Dec 31						
Firm Power	--	--	103,339	1,398,955	138,862	3,045,859
Total Power	--	--	103,339	1,398,955	138,862	3,045,859
Nevada						
Colorado River Commission/Jun 30						
Firm Power	121,297	3,663,287	172,557	2,838,354	826,026	14,411,136
Total Power	121,297	3,663,287	172,557	2,838,354	826,026	14,411,136

See notes and footnotes at end of table.

**Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1992
(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)
New York						
New York Power Authority/Dec 31						
Firm Power	12,699,836	313,685,055	--	--	4,475,305	72,840,529
Nonfirm Power	755,993	11,409,146	--	--	155,192	999,283
Other Power	--	--	--	--	--	--
Total Power	13,455,829	325,094,201	--	--	4,630,497	73,839,812
North Carolina						
North Carolina Eastern M P A/Dec 31						
Firm Power	390,069	39,987,000	--	--	5,508,520	361,290,173
Other Power	--	--	--	--	--	--
Total Power	390,069	39,987,000	--	--	5,508,520	361,290,173
North Carolina Mun Power Agny/Dec 31						
Firm Power	4,205,334	234,625,000	--	--	3,757,173	186,609,660
Other Power	--	--	--	--	--	--
Total Power	4,205,334	234,625,000	--	--	3,757,173	186,609,660
North Dakota						
Northern Municipal Power Agncy/Dec 31						
Firm Power	--	--	--	--	372,752	12,222,853
Nonfirm Power	--	--	--	--	120,092	1,410,774
Total Power	--	--	--	--	492,844	13,633,627
Oklahoma						
Grand River Dam Authority/Dec 31						
Firm Power	4,983	174,517	--	--	1,893,365	54,608,584
Nonfirm Power	344,452	5,367,074	--	--	33,096	501,228
Total Power	349,435	5,541,591	--	--	1,926,461	55,109,812
Oklahoma Municipal Power Auth/Dec 31						
Firm Power	--	--	--	--	1,344,274	60,041,513
Total Power	--	--	--	--	1,344,274	60,041,513
Oregon						
Emerald Peoples Utility Dist/Dec 31						
Firm Power	116	2,657	--	--	--	--
Total Power	116	2,657	--	--	--	--
Northern Wasco Cnty Peoples/Dec 31						
Firm Power	38,428	1,678,036	--	--	--	--
Total Power	38,428	1,678,036	--	--	--	--
South Carolina						
South Carolina Pub Serv Auth/Dec 31						
Firm Power	504	20,000	--	--	155,626	5,729,000
Other Power	--	--	--	--	--	--
Total Power	504	20,000	--	--	155,626	5,729,000
South Dakota						
Heartland Consumers Power Dist/Dec 31						
Firm Power	--	--	--	--	234,894	9,234,277
Nonfirm Power	--	--	6,941	75,469	--	--
Other Power	--	--	--	--	--	--
Total Power	--	--	6,941	75,469	234,894	9,234,277
Missouri Basin Mun Power Agny/Dec 31						
Firm Power	--	--	--	--	904,077	33,180,048
Nonfirm Power	765,077	10,743,444	98,781	982,252	62,276	797,799
Other Power	--	--	--	--	--	4,354,381
Total Power	765,077	10,743,444	98,781	982,252	966,353	38,312,228
Texas						
Lower Colorado River Authority/Jun 30						
Firm Power	8,527	101,048	--	--	2,998,980	123,062,356
Nonfirm Power	391,368	5,902,253	--	--	106,607	1,798,566
Total Power	399,895	6,003,301	--	--	3,105,587	124,860,922
Sabine River Authority/Aug 31						
Other Power	376,312	7,526,240	--	--	--	--
Total Power	376,312	7,526,240	--	--	--	--
Sam Rayburn Mun Pwr Agny/Sep 30						
Firm Power	--	--	--	--	317,688	21,187,255
Nonfirm Power	260,494	4,212,264	--	--	--	--
Total Power	260,494	4,212,264	--	--	317,688	21,187,255
Utah						
Utah Associated Mun Power Sys/Mar 31						
Nonfirm Power	1,744	22,415	--	--	74,417	1,585,935
Total Power	1,744	22,415	--	--	74,417	1,585,935

See notes and footnotes at end of table.

Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1992
(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						
New York Power Authority/Dec 31						
Firm Power	514,631	7,246,243	1,110,282	32,942,370	18,800,054	426,714,197
Nonfirm Power	42,378	176,263	1,205,954	31,166,754	2,159,517	43,751,446
Other Power	—	—	2,744	3,504,744	2,744	3,504,744
Total Power	557,009	7,422,506	2,318,980	67,613,868	20,962,315	473,970,387
North Carolina						
North Carolina Eastern M P A/Dec 31						
Firm Power	—	—	—	—	5,899,589	401,277,173
Other Power	—	—	819	-2,692,173	819	-2,692,173
Total Power	—	—	819	-2,692,173	5,899,408	398,585,000
North Carolina Mun Power Agny/Dec 31						
Firm Power	—	—	—	—	7,982,507	421,234,660
Other Power	—	—	—	-2,718,660	—	-2,718,660
Total Power	—	—	—	-2,718,660	7,982,507	418,516,000
North Dakota						
Northern Municipal Power Agncy/Dec 31						
Firm Power	61,523	18,509,863	—	—	434,275	30,732,716
Nonfirm Power	—	—	161,717	2,374,425	281,809	3,785,199
Total Power	61,523	18,509,863	161,717	2,374,425	716,084	34,517,915
Oklahoma						
Grand River Dam Authority/Dec 31						
Firm Power	1,738,078	59,661,418	498	14,468	3,636,924	114,458,987
Nonfirm Power	9,510	188,675	136,397	4,736,880	523,455	10,763,857
Total Power	1,747,588	59,820,093	136,395	4,751,348	4,160,379	125,222,844
Oklahoma Municipal Power Auth/Dec 31						
Firm Power	—	—	—	—	1,344,274	60,041,513
Total Power	—	—	—	—	1,344,274	60,041,513
Oregon						
Emerald Peoples Utility Dist/Dec 31						
Firm Power	—	—	—	—	116	2,657
Total Power	—	—	—	—	116	2,657
Northern Wasco Cnty Peoples/Dec 31						
Firm Power	—	—	—	—	38,428	1,678,036
Total Power	—	—	—	—	38,428	1,678,036
South Carolina						
South Carolina Pub Serv Auth/Dec 31						
Firm Power	6,161,935	236,441,000	76,990	9,228,000	6,395,055	251,418,000
Other Power	—	—	—	—	—	—
Total Power	6,161,935	236,441,000	76,990	9,228,000	6,395,055	251,418,000
South Dakota						
Heartland Consumers Power Dist/Dec 31						
Firm Power	—	—	73	1,030	234,967	9,235,307
Nonfirm Power	—	—	143,878	1,778,804	150,619	1,854,273
Other Power	30	117,435	—	—	30	117,435
Total Power	30	117,435	143,751	1,779,834	385,616	11,207,015
Missouri Basin Mun Power Agny/Dec 31						
Firm Power	—	—	37	1,437	904,114	33,161,485
Nonfirm Power	67,524	823,823	105,776	1,318,325	1,099,434	14,665,643
Other Power	—	—	—	—	—	4,354,381
Total Power	67,524	823,823	105,813	1,319,762	2,003,548	52,181,509
Texas						
Lower Colorado River Authority/Jun 30						
Firm Power	4,268,392	180,730,516	—	—	7,275,899	303,893,920
Nonfirm Power	273,854	6,391,909	23,636	354,944	795,465	14,447,672
Total Power	4,542,246	187,122,425	23,636	354,944	8,071,364	318,341,592
Sabine River Authority/Aug 31						
Other Power	—	—	—	—	376,312	7,526,240
Total Power	—	—	—	—	376,312	7,526,240
Sam Rayburn Mun Pwr Agny/Sep 30						
Firm Power	—	—	—	—	317,688	21,187,255
Nonfirm Power	—	—	—	—	280,494	4,212,264
Total Power	—	—	—	—	578,182	25,399,519
Utah						
Utah Associated Mun Power Sys/Mar 31						
Nonfirm Power	8,151	110,276	261	4,207	84,573	1,722,833
Total Power	8,151	110,276	261	4,207	84,573	1,722,833

See notes and footnotes at end of table.

Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1992
(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 Municipal Power Agency/Jun 30						
Firm Power	--	--	--	--	673,038	26,067,781
Nonfirm Power	115	1,495	17,146	305,272	75,355	1,361,386
Total Power	115	1,495	17,146	305,272	748,393	27,429,167
Vermont						
Vermont Public Pwr Supply Auth/Dec 31						
Firm Power	3,951	104,458	--	--	108,748	6,565,209
Total Power	3,951	104,458	--	--	108,748	6,565,209
Washington						
PUD No 1 of Chelan County/Dec 31						
Firm Power	7,570,327	71,456,813	--	--	50,945	513,422
Nonfirm Power	135,994	2,450,518	240	5,400	--	--
Total Power	7,706,321	73,907,331	240	5,400	50,945	513,422
PUD No 1 of Cowlitz County/Dec 31						
Firm Power	--	--	--	--	--	--
Other Power	12,864	232,942	--	--	3,578	47,876
Total Power	12,864	232,942	--	--	3,578	47,876
PUD No 1 of Douglas County/Dec 31						
Firm Power	2,331,868	14,812,820	--	--	15,750	184,318
Nonfirm Power	264,516	3,376,628	--	--	11,736	128,986
Other Power	--	1,242,913	--	244,112	--	182,502
Total Power	2,596,404	19,432,361	--	244,112	27,486	495,806
PUD No 1 of Grays Harbor Cnty/Dec 31						
Firm Power	410,097	9,337,352	--	--	--	--
Total Power	410,097	9,337,352	--	--	--	--
PUD No 1 of Pend Oreille Cnty/Dec 31						
Firm Power	--	--	--	--	137,819	1,036,599
Nonfirm Power	--	--	--	--	778	14,079
Total Power	--	--	--	--	138,597	1,050,678
PUD No 1 of Snohomish County/Dec 31						
Firm Power	--	--	--	--	1,868	64,325
Nonfirm Power	77,836	1,748,120	--	--	7,129	139,073
Total Power	77,836	1,748,120	--	--	8,997	203,398
PUD No 2 of Grant County/Dec 31						
Firm Power	87,600	3,075,515	--	--	--	--
Nonfirm Power	523,532	9,680,153	4,085	61,190	11,762	232,121
Other Power	4,310,514	23,940,424	82,276	1,073,650	1,127,448	6,474,781
Total Power	4,921,646	36,696,092	86,361	1,134,840	1,139,210	6,706,902
PUD No 3 of Mason County/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Washington Pub Pwr Supply Sys/Jun 30						
Firm Power	--	--	3,855,915	370,072,000	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	3,855,915	370,072,000	--	--
Wisconsin						
Wisconsin Public Power Inc Sys/Dec 31						
Firm Power	--	--	--	--	2,666,783	100,408,973
Nonfirm Power	54,624	882,309	240	3,803	90	1,476
Total Power	54,624	882,309	240	3,803	2,666,853	100,410,449
Wyoming						
Wyoming Municipal Pwr Agcy/Dec 31						
Firm Power	--	--	--	--	170,504	4,700,636
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	--	--	170,504	4,700,636

See notes and footnotes at end of table.

**Table 28. Electricity Sales for Resale by State and Other Government Utilities, Fiscal Year 1992
(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 Municipal Power Agency/June 30						
Firm Power	--	--	--	--	673,038	26,067,781
Nonfirm Power	--	--	12	236	92,628	1,666,389
Total Power	--	--	12	236	765,666	27,736,170
Vermont						
Vermont Public Pwr Supply Auth/Dec 31						
Firm Power	17,057	813,020	--	--	129,756	7,482,687
Total Power	17,057	813,020	--	--	129,756	7,482,687
Washington						
PUD No 1 of Chelan County/Dec 31						
Firm Power	--	--	157,250	927,833	7,778,522	72,898,068
Nonfirm Power	--	--	--	--	136,234	2,455,918
Total Power	--	--	157,250	927,833	7,914,756	75,353,986
PUD No 1 of Cowlitz County/Dec 31						
Firm Power	--	--	1,529	43,100	1,529	43,100
Other Power	--	--	--	--	16,442	280,818
Total Power	--	--	1,529	43,100	17,971	323,918
PUD No 1 of Douglas County/Dec 31						
Firm Power	--	--	441,360	3,890,276	2,788,998	18,887,414
Nonfirm Power	--	--	1,847	22,697	278,099	3,528,311
Other Power	--	--	--	209,573	--	1,879,100
Total Power	--	--	443,207	4,122,546	3,067,097	24,294,825
PUD No 1 of Grays Harbor Cnty/Dec 31						
Firm Power	--	--	--	--	410,097	9,337,352
Total Power	--	--	--	--	410,097	9,337,352
PUD No 1 of Pend Oreille Cnty/Dec 31						
Firm Power	--	--	--	--	137,819	1,036,599
Nonfirm Power	--	--	--	--	778	14,079
Total Power	--	--	--	--	138,597	1,050,678
PUD No 1 of Snohomish County/Dec 31						
Firm Power	--	--	--	--	1,868	64,325
Nonfirm Power	--	--	--	--	84,965	1,887,193
Total Power	--	--	--	--	86,833	1,951,518
PUD No 2 of Grant County/Dec 31						
Firm Power	--	--	--	--	87,600	3,075,515
Nonfirm Power	--	--	--	--	539,379	9,973,464
Other Power	--	--	220,444	1,221,350	5,740,682	32,710,205
Total Power	--	--	220,444	1,221,350	6,367,661	45,759,184
PUD No 3 of Mason County/Dec 31						
Firm Power	--	--	1,269	38,202	1,269	38,202
Total Power	--	--	1,269	38,202	1,269	38,202
Washington Pub Pwr Supply Sys/June 30						
Firm Power	--	--	4,659	2,307,966	3,860,574	372,379,966
Nonfirm Power	--	--	21,437	400,872	21,437	400,872
Total Power	--	--	26,096	2,708,838	3,882,011	372,780,838
Wisconsin						
Wisconsin Public Power Inc Sys/Dec 31						
Firm Power	--	--	--	--	2,666,763	100,408,973
Nonfirm Power	1,717	27,792	167	2,854	56,838	918,234
Total Power	1,717	27,792	167	2,854	2,723,601	101,327,207
Wyoming						
Wyoming Municipal Pwr Agcy/Dec 31						
Firm Power	368	13,416	--	--	170,872	4,714,052
Nonfirm Power	29,282	552,337	--	--	29,282	552,337
Total Power	29,650	565,753	--	--	200,154	5,266,389

¹ Includes transactions with State and other government utilities, 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 1992

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	2,252,355	68,978,822	--	--	--	--
Total Power	2,252,355	68,978,822	--	--	--	--
Albertville City of/Jun 30						
Firm Power	--	--	426,744	16,626,249	--	--
Total Power	--	--	426,744	16,626,249	--	--
Andalusia City of/Sep 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Athens City of/Dec 31						
Firm Power	--	--	648,620	29,351,808	--	--
Total Power	--	--	648,620	29,351,808	--	--
Bessemer City of/Jun 30						
Firm Power	--	--	316,785	12,870,823	--	--
Total Power	--	--	316,785	12,870,823	--	--
Cullman Power Board/Jun 30						
Firm Power	--	--	299,934	13,946,389	--	--
Total Power	--	--	299,934	13,946,389	--	--
Decatur Utilities/Jun 30						
Firm Power	--	--	1,386,397	54,447,261	--	--
Total Power	--	--	1,386,397	54,447,261	--	--
Dothan Electrical Department/Sep 30						
Firm Power	--	--	80,441	3,069,384	--	--
Total Power	--	--	80,441	3,069,384	--	--
Florence City of/Jun 30						
Firm Power	--	--	1,004,216	44,608,525	--	--
Total Power	--	--	1,004,216	44,608,525	--	--
Fort Payne Improvement Auth/Jun 30						
Firm Power	--	--	290,484	13,441,089	--	--
Total Power	--	--	290,484	13,441,089	--	--
Guntersville Electric Board/Jun 30						
Firm Power	--	--	218,360	9,606,456	--	--
Total Power	--	--	218,360	9,606,456	--	--
Huntsville City of/Sep 30						
Firm Power	--	--	3,644,300	163,883,280	--	--
Total Power	--	--	3,644,300	163,883,280	--	--
Muscle Shoals Electric Board/Jun 30						
Firm Power	--	--	190,351	8,739,121	--	--
Total Power	--	--	190,351	8,739,121	--	--
Opelika Light & Power/Sep 30						
Firm Power	291,264	11,249,978	30,581	1,220,572	--	--
Total Power	291,264	11,249,978	30,581	1,220,572	--	--
Riviera Utilities/Dec 31						
Firm Power	--	--	38,308	1,300,972	--	--
Total Power	--	--	38,308	1,300,972	--	--
Scottsboro City of/Jun 30						
Firm Power	--	--	338,307	13,521,495	--	--
Total Power	--	--	338,307	13,521,495	--	--
Sheffield City of/Jun 30						
Firm Power	--	--	416,327	18,269,268	--	--
Total Power	--	--	416,327	18,269,268	--	--
Sylacauga Utilities Board/Sep 30						
Firm Power	--	--	26,358	898,713	--	--
Total Power	--	--	26,358	898,713	--	--
Troy City of/Sep 30						
Firm Power	201,607	7,302,118	18,395	624,731	--	--
Total Power	201,607	7,302,118	18,395	624,731	--	--
Tuskegee City of/Sep 30						
Firm Power	--	--	18,307	686,202	--	--
Total Power	--	--	18,307	686,202	--	--
Alaska						
Anchorage Mun Light and Power/Dec 31						
Firm Power	--	--	58,303	991,151	83,262	3,700,566
Nonfirm Power	--	--	--	--	--	--
Other Power	--	--	--	57,830	--	--
Total Power	--	--	58,303	1,048,981	83,262	3,700,566

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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	—	—	—	—	2,252,355	68,978,822
Total Power	—	—	—	—	2,252,355	68,978,822
Albertville City of/Jun 30						
Firm Power	—	—	—	—	426,744	16,628,249
Total Power	—	—	—	—	426,744	16,628,249
Andalusia City of/Sep 30						
Firm Power	305,070	11,329,600	—	—	305,070	11,329,600
Total Power	305,070	11,329,600	—	—	305,070	11,329,600
Athens City of/Dec 31						
Firm Power	—	—	—	—	648,620	29,351,808
Total Power	—	—	—	—	648,620	29,351,808
Bessemer City of/Jun 30						
Firm Power	—	—	—	—	316,785	12,870,823
Total Power	—	—	—	—	316,785	12,870,823
Cullman Power Board/Jun 30						
Firm Power	—	—	—	—	299,934	13,946,389
Total Power	—	—	—	—	299,934	13,946,389
Decatur Utilities/Jun 30						
Firm Power	—	—	—	—	1,386,397	54,447,261
Total Power	—	—	—	—	1,386,397	54,447,261
Dothan Electrical Department/Sep 30						
Firm Power	—	—	908,411	34,642,440	988,852	37,711,824
Total Power	—	—	908,411	34,642,440	988,852	37,711,824
Florence City of/Jun 30						
Firm Power	—	—	—	—	1,004,216	44,608,525
Total Power	—	—	—	—	1,004,216	44,608,525
Fort Payns Improvement Auth/Jun 30						
Firm Power	—	—	—	—	290,484	13,441,089
Total Power	—	—	—	—	290,484	13,441,089
Guntersville Electric Board/Jun 30						
Firm Power	—	—	—	—	218,360	9,606,456
Total Power	—	—	—	—	218,360	9,606,456
Huntsville City of/Sep 30						
Firm Power	—	—	—	—	3,644,300	163,883,280
Total Power	—	—	—	—	3,644,300	163,883,280
Muscle Shoals Electric Board/Jun 30						
Firm Power	—	—	—	—	190,351	8,739,121
Total Power	—	—	—	—	190,351	8,739,121
Opelika Light & Power/Sep 30						
Firm Power	—	—	—	—	321,845	12,470,550
Total Power	—	—	—	—	321,845	12,470,550
Riviera Utilities/Dec 31						
Firm Power	—	—	425,737	17,999,177	464,045	19,300,149
Total Power	—	—	425,737	17,999,177	464,045	19,300,149
Scottsboro City of/Jun 30						
Firm Power	—	—	—	—	338,307	13,521,495
Total Power	—	—	—	—	338,307	13,521,495
Sheffield City of/Jun 30						
Firm Power	—	—	—	—	416,327	18,269,268
Total Power	—	—	—	—	416,327	18,269,268
Sylacauga Utilities Board/Sep 30						
Firm Power	—	—	139,978	5,488,008	166,336	6,386,721
Total Power	—	—	139,978	5,488,008	166,336	6,386,721
Troy City of/Sep 30						
Firm Power	—	—	—	—	220,002	7,926,849
Total Power	—	—	—	—	220,002	7,926,849
Tuskegee City of/Sep 30						
Firm Power	—	—	125,656	5,012,342	143,963	5,698,544
Total Power	—	—	125,656	5,012,342	143,963	5,698,544
Alaska						
Anchorage Mun Light and Power/Dec 31						
Firm Power	—	—	—	—	141,565	4,691,717
Nonfirm Power	2,269	41,843	—	—	2,269	41,843
Other Power	—	—	—	—	—	57,830
Total Power	2,269	41,843	—	—	143,834	4,791,390

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Alaska						
Fairbanks City of/Dec 31						
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Ketchikan Public Utilities/Dec 31						
Firm Power	--	--	--	--	80,085	4,234,954
Total Power	--	--	--	--	80,085	4,234,954
Arizona						
Mesa Utilities/Jun 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Arkansas						
Benton Utilities/Dec 31						
Firm Power	144,883	6,952,534	--	--	--	--
Total Power	144,883	6,952,534	--	--	--	--
Bentonville City of/Dec 31						
Firm Power	142,493	5,589,261	59,639	801,255	--	--
Total Power	142,493	5,589,261	59,639	801,255	--	--
Conway Corporation/Dec 31						
Firm Power	104,854	5,704,832	--	--	--	--
Total Power	104,854	5,704,832	--	--	--	--
Hope Water & Light Plant/Dec 31						
Firm Power	176,000	6,989,695	--	--	--	--
Total Power	176,000	6,989,695	--	--	--	--
Jonesboro City of/Dec 31						
Firm Power	--	--	264,310	2,739,134	--	--
Nonfirm Power	--	--	--	--	30,345	514,273
Other Power	--	1,801,120	--	--	--	--
Total Power	--	1,801,120	264,310	2,739,134	30,345	514,273
North Little Rock City of/Dec 31						
Firm Power	575,002	29,110,183	--	--	--	--
Total Power	575,002	29,110,183	--	--	--	--
Osceola City of/Dec 31						
Firm Power	180,644	6,270,055	--	--	--	--
Total Power	180,644	6,270,055	--	--	--	--
Paragould Light & Water Comm/Dec 31						
Firm Power	--	--	163,565	2,026,184	161,645	3,404,998
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	163,565	2,026,184	161,645	3,404,998
Siloam Springs City of/Dec 31						
Firm Power	--	--	--	--	173,435	6,034,931
Other Power	--	--	--	--	--	--
Total Power	--	--	--	--	173,435	6,034,931
West Memphis Utility Dept/Dec 31						
Firm Power	130,050	11,816,970	--	--	--	--
Total Power	130,050	11,816,970	--	--	--	--
California						
Alameda City of/Jun 30						
Firm Power	--	--	171,043	4,599,473	329,557	26,091,096
Other Power	--	--	--	--	--	--
Total Power	--	--	171,043	4,599,473	329,557	26,091,096
Anaheim City of/Jun 30						
Firm Power	167,941	8,892,000	40,528	689,000	--	--
Nonfirm Power	17,401	397,000	4,253	84,000	16,526	310,000
Other Power	17,381	268,000	--	580,000	--	--
Total Power	202,723	9,557,000	44,781	1,353,000	16,526	310,000
Azusa City of/Jun 30						
Firm Power	72,221	3,883,311	--	--	18,583	1,739,235
Nonfirm Power	--	--	--	--	--	--
Other Power	17,665	524,916	--	--	--	--
Total Power	89,886	4,408,227	--	--	18,583	1,739,235
Burbank Public Service Dept/Jun 30						
Firm Power	81,190	7,753,325	22,169	428,610	--	--
Nonfirm Power	99,381	2,391,528	91,624	1,478,314	35,122	703,763
Total Power	180,571	10,144,853	113,793	1,906,924	35,122	703,763
Cotton Electric Utility Dept/Jun 30						
Firm Power	110,726	6,145,895	3,346	149,012	--	--
Nonfirm Power	821	18,238	--	--	754	15,941
Total Power	111,547	6,162,133	3,346	149,012	754	15,941

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Alaska						
Fairbanks City of/Dec 31						
Nonfirm Power	13,942	922,100	10,840	426,734	24,782	1,348,834
Total Power	13,942	922,100	10,840	426,734	24,782	1,348,834
Ketchikan Public Utilities/Dec 31						
Firm Power	--	--	--	--	80,085	4,234,954
Total Power	--	--	--	--	80,085	4,234,954
Arizona						
Mesa Utilities/Jun 30						
Firm Power	--	--	322,026	13,263,975	322,026	13,263,975
Total Power	--	--	322,026	13,263,975	322,026	13,263,975
Arkansas						
Benton Utilities/Dec 31						
Firm Power	--	--	--	--	144,883	6,952,534
Total Power	--	--	--	--	144,883	6,952,534
Bentonville City of/Dec 31						
Firm Power	--	--	--	--	202,132	6,390,516
Total Power	--	--	--	--	202,132	6,390,516
Conway Corporation/Dec 31						
Firm Power	--	--	--	--	104,854	5,704,832
Total Power	--	--	--	--	104,854	5,704,832
Hope Water & Light Plant/Dec 31						
Firm Power	--	--	--	--	176,000	6,989,695
Total Power	--	--	--	--	176,000	6,989,695
Jonesboro City of/Dec 31						
Firm Power	--	--	--	--	264,310	2,739,134
Nonfirm Power	--	--	291,801	4,993,741	322,146	5,508,014
Other Power	--	--	--	--	--	1,801,120
Total Power	--	--	291,801	4,993,741	586,456	10,048,268
North Little Rock City of/Dec 31						
Firm Power	--	--	--	--	575,002	29,110,183
Total Power	--	--	--	--	575,002	29,110,183
Osceola City of/Dec 31						
Firm Power	--	--	--	--	180,644	6,270,055
Total Power	--	--	--	--	180,644	6,270,055
Paragould Light & Water Comm/Dec 31						
Firm Power	--	--	--	502,600	325,210	5,933,782
Nonfirm Power	--	--	3,795	69,704	3,795	69,704
Total Power	--	--	3,795	572,304	329,005	6,003,486
Siloam Springs City of/Dec 31						
Firm Power	--	--	--	--	173,435	6,034,931
Other Power	--	--	--	-639,668	--	-639,668
Total Power	--	--	--	-639,668	173,435	5,395,263
West Memphis Utility Dept/Dec 31						
Firm Power	--	--	--	--	130,050	11,816,970
Total Power	--	--	--	--	130,050	11,816,970
California						
Alameda City of/Jun 30						
Firm Power	--	--	--	--	500,600	30,690,569
Other Power	--	--	--	-2,105,843	--	-2,105,843
Total Power	--	--	--	-2,105,843	500,600	28,584,726
Anaheim City of/Jun 30						
Firm Power	571,184	21,684,000	1,550,687	86,962,000	2,330,340	118,227,000
Nonfirm Power	3,369	72,000	--	--	41,549	863,000
Other Power	--	--	--	--	17,381	848,000
Total Power	574,553	21,756,000	1,550,687	86,962,000	2,389,270	119,938,000
Azusa City of/Jun 30						
Firm Power	--	--	8,137	1,816,167	98,941	7,438,713
Nonfirm Power	--	--	48,013	854,590	48,013	854,590
Other Power	--	--	41,709	842,558	59,374	1,367,474
Total Power	--	--	97,859	3,513,315	206,328	9,660,777
Burbank Public Service Dept/Jun 30						
Firm Power	4,101	136,939	512,076	30,208,938	619,536	38,529,812
Nonfirm Power	83,018	1,358,439	6,336	564,682	315,481	6,496,726
Total Power	87,119	1,497,378	518,412	30,773,620	935,017	45,026,538
Cotton Electric Utility Dept/Jun 30						
Firm Power	--	--	7,777	1,363,939	121,849	7,658,846
Nonfirm Power	37,243	728,666	54,762	1,086,520	93,580	1,847,365
Total Power	37,243	728,666	62,539	2,450,459	215,429	9,506,211

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Glendale City of/Jun 30						
Firm Power	97,232	5,177,511	180,849	4,187,019	75,340	1,381,119
Nonfirm Power	103,219	6,636,069	60,191	704,991	110,221	2,066,108
Total Power	200,451	11,813,580	241,040	4,902,010	185,561	3,427,227
Lodi City of/Jun 30						
Firm Power	—	—	111,918	3,011,022	260,878	23,591,332
Total Power	—	—	111,918	3,011,022	260,878	23,591,332
Los Angeles Dept of Wtr & Pwr/Jun 30						
Firm Power	1,252,970	57,514,088	542,891	10,834,643	962,203	67,856,621
Nonfirm Power	536,030	10,374,741	304,671	3,479,213	149,353	2,729,345
Other Power	—	—	—	—	—	—
Total Power	1,789,000	67,888,839	847,562	14,113,856	1,111,556	90,585,966
Metropolitan Water Dist/Jun 30						
Firm Power	123,822	2,049,162	—	—	—	—
Nonfirm Power	187,585	3,418,892	242,075	3,426,092	329,797	5,448,083
Total Power	321,407	5,468,054	242,075	3,426,092	329,797	5,448,083
Palo Alto City of/Jun 30						
Firm Power	—	—	969,258	26,384,000	132,172	2,013,000
Total Power	—	—	969,258	26,384,000	132,172	2,013,000
Pasadena City of/Jun 30						
Firm Power	545	4,762	52,287	641,920	63,141	5,504,346
Nonfirm Power	18,860	689,673	—	—	56,913	1,249,650
Other Power	—	—	—	—	—	—
Total Power	19,405	694,435	52,287	641,920	120,054	6,753,996
Redding City of/Jun 30						
Firm Power	102,985	7,123,523	584,013	18,667,820	—	—
Total Power	102,985	7,123,523	584,013	18,667,820	—	—
Riverside City of/Jun 30						
Firm Power	126,450	12,731,760	32,845	589,510	78,892	7,403,280
Nonfirm Power	19,894	420,109	10,974	176,587	15,096	322,916
Total Power	146,144	13,151,869	43,819	766,097	93,988	7,726,196
Roseville Electric Department/Jun 30						
Firm Power	—	—	493,057	12,880,495	57,932	13,253,729
Total Power	—	—	493,057	12,880,495	57,932	13,253,729
San Francisco City & County of/Jun 30						
Firm Power	285,517	27,899,203	—	—	15,690	374,920
Total Power	285,517	27,899,203	—	—	15,690	374,920
Santa Clara Mun Electric Dept/Jun 30						
Firm Power	487,443	23,799,197	1,221,098	12,798,853	—	—
Nonfirm Power	5,730	91,160	4,733	52,682	—	—
Other Power	1,244	16,936,738	—	—	628,945	59,445,550
Total Power	494,417	40,827,095	1,225,831	12,851,535	628,945	59,445,550
Turlock Irrigation Dist/Dec 31						
Firm Power	315,322	14,342,631	34,119	756,976	288,493	18,783,880
Nonfirm Power	744	16,140	—	—	90,427	2,903,195
Total Power	316,066	14,358,771	34,119	756,976	378,920	22,687,075
Vernon City of/Jun 30						
Firm Power	716,144	18,733,460	19,427	437,493	298,259	20,041,287
Nonfirm Power	—	—	—	—	29	657
Total Power	716,144	18,733,460	19,427	437,493	298,288	20,041,944
Colorado						
Colorado Springs Utilities/Dec 31						
Firm Power	—	—	376,021	7,268,030	—	—
Nonfirm Power	55,568	1,319,002	1,515	44,115	10,526	171,291
Other Power	—	13,287	—	71,380	—	—
Total Power	55,568	1,332,289	377,536	7,383,525	10,526	171,291
Fort Collins Lgt & Pwr Utility/Dec 31						
Firm Power	—	—	—	—	848,241	29,161,963
Total Power	—	—	—	—	848,241	29,161,963
Longmont City of/Dec 31						
Firm Power	—	—	—	—	440,084	15,068,981
Total Power	—	—	—	—	440,084	15,068,981
Loveland Electric Division/Dec 31						
Firm Power	—	—	—	—	369,505	12,205,681
Total Power	—	—	—	—	369,505	12,205,681

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Glendale City of/Jun 30						
Firm Power	—	—	—	—	353,421	10,735,649
Nonfirm Power	117	2,034	312,597	16,475,598	586,345	25,884,800
Total Power	117	2,034	312,597	16,475,598	939,766	36,620,449
Lodi City of/Jun 30						
Firm Power	—	—	—	—	372,796	26,602,354
Total Power	—	—	—	—	372,796	26,602,354
Los Angeles Dept of Wtr & Pwr/Jun 30						
Firm Power	308,451	9,429,298	7,134,124	431,869,407	10,200,839	597,304,065
Nonfirm Power	168,477	2,245,332	71,579	1,922,165	1,230,110	20,750,796
Other Power	—	—	—	42,290,286	—	42,290,286
Total Power	476,928	11,674,628	7,205,703	476,081,858	11,430,749	660,345,147
Metropolitan Water Dist/Jun 30						
Firm Power	—	—	—	—	123,822	2,049,162
Nonfirm Power	—	—	—	—	769,457	12,293,047
Total Power	—	—	—	—	893,279	14,342,209
Palo Alto City of/Jun 30						
Firm Power	—	—	—	—	1,101,430	28,397,000
Total Power	—	—	—	—	1,101,430	28,397,000
Pasadena City of/Jun 30						
Firm Power	—	—	716,772	42,074,853	832,745	48,225,881
Nonfirm Power	2,600	42,490	9,971	1,881,966	88,344	3,863,779
Other Power	—	—	554	31,481	554	31,481
Total Power	2,600	42,490	727,297	43,988,300	921,643	52,121,141
Redding City of/Jun 30						
Firm Power	—	—	—	—	686,998	25,791,143
Total Power	—	—	—	—	686,998	25,791,143
Riverside City of/Jun 30						
Firm Power	250,635	11,122,430	895,643	44,601,366	1,384,265	76,448,346
Nonfirm Power	107,576	1,682,835	2,159	34,084	155,499	2,636,531
Total Power	358,211	12,805,265	897,802	44,635,450	1,539,764	79,084,877
Roseville Electric Department/Jun 30						
Firm Power	—	—	—	—	550,989	26,134,224
Total Power	—	—	—	—	550,989	26,134,224
San Francisco City & County of/Jun 30						
Firm Power	—	—	—	—	301,207	28,274,123
Total Power	—	—	—	—	301,207	28,274,123
Santa Clara Mun Electric Dept/Jun 30						
Firm Power	—	—	—	—	1,708,541	36,598,050
Nonfirm Power	—	—	—	—	10,463	143,842
Other Power	—	—	—	7,923,649	630,189	84,305,937
Total Power	—	—	—	7,923,649	2,349,193	121,047,829
Turlock Irrigation Dist/Dec 31						
Firm Power	—	—	349,482	11,629,676	987,416	46,513,163
Nonfirm Power	—	—	440	9,490	91,611	2,928,825
Total Power	—	—	349,922	11,639,166	1,079,027	49,441,988
Vernon City of/Jun 30						
Firm Power	—	—	—	—	1,033,830	39,212,240
Nonfirm Power	—	—	—	—	29	657
Total Power	—	—	—	—	1,033,859	39,212,897
Colorado						
Colorado Springs Utilities/Dec 31						
Firm Power	—	—	—	—	376,021	7,268,030
Nonfirm Power	2,615	54,460	—	—	70,224	1,588,868
Other Power	—	16,200	—	—	—	100,867
Total Power	2,615	70,660	—	—	446,245	8,957,765
Fort Collins Lgt & Pwr Utility/Dec 31						
Firm Power	—	—	—	—	848,241	29,161,963
Total Power	—	—	—	—	848,241	29,161,963
Longmont City of/Dec 31						
Firm Power	—	—	—	—	440,084	15,068,981
Total Power	—	—	—	—	440,084	15,068,981
Loveland Electric Division/Dec 31						
Firm Power	—	—	—	—	369,505	12,205,681
Total Power	—	—	—	—	369,505	12,205,681

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Connecticut						
Groton City of Dept of Utils/Jun 30						
Firm Power	--	--	--	--	644,861	35,657,778
Total Power	--	--	--	--	644,861	35,657,778
Norwich City of/Jun 30						
Firm Power	--	--	--	--	272,600	15,015,137
Total Power	--	--	--	--	272,600	15,015,137
Wallingford Town of/Jun 30						
Firm Power	515,842	33,139,305	--	--	26,564	315,872
Total Power	515,842	33,139,305	--	--	26,564	315,872
Delaware						
Dover City of/Jun 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	204,921	6,210,962	--	--	--	--
Total Power	204,921	6,210,962	--	--	--	--
Milford City of/Sep 30						
Firm Power	131,372	5,717,989	--	--	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	131,372	5,717,989	--	--	--	--
Newark City of/Dec 31						
Firm Power	281,513	12,750,734	--	--	--	--
Total Power	281,513	12,750,734	--	--	--	--
Florida						
Bartow City of/Sep 30						
Firm Power	248,847	10,934,514	--	--	--	--
Total Power	248,847	10,934,514	--	--	--	--
Florida Municipal Power Agency/Sep 30						
Firm Power	706,077	30,674,582	--	--	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	706,077	30,674,582	--	--	--	--
Fort Pierce Utilities Au/Sep 30						
Firm Power	10,232	872,885	--	--	--	--
Nonfirm Power	23,858	634,888	--	--	--	--
Total Power	34,090	1,507,773	--	--	--	--
Gainesville City of/Sep 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	28,750	669,742	--	--	--	--
Total Power	28,750	669,742	--	--	--	--
Homestead City of/Sep 30						
Firm Power	9,706	901,506	--	--	--	--
Nonfirm Power	4,672	107,322	--	--	--	--
Other Power	--	--	--	--	--	--
Total Power	14,378	1,008,828	--	--	--	--
Jacksonville Beach City/Sep 30						
Firm Power	37,736	2,514,610	--	--	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	37,736	2,514,610	--	--	--	--
Jacksonville Elec Auth/Sep 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	21,565	772,500	--	--	--	--
Other Power	1,392	59,177	--	--	--	--
Total Power	22,957	831,677	--	--	--	--
Key West Utility Board of/Sep 30						
Firm Power	230,262	6,958,473	--	--	--	--
Nonfirm Power	25,656	995,612	--	--	--	--
Total Power	255,918	7,954,085	--	--	--	--
Kissimmee Utility Auth/Sep 30						
Firm Power	221,975	8,576,718	--	--	--	--
Nonfirm Power	52,051	1,347,580	--	--	--	--
Other Power	--	--	--	--	--	--
Total Power	274,026	9,924,298	--	--	--	--
Lake Worth City of/Sep 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	13,106	415,914	--	--	--	--
Total Power	13,106	415,914	--	--	--	--
Lakeland City of/Sep 30						
Firm Power	143,937	3,118,102	--	--	--	--
Nonfirm Power	5,385	236,353	--	--	--	--
Total Power	149,322	3,354,455	--	--	--	--

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Connecticut						
Groton City of Dept of Utils/Jun 30						
Firm Power	--	--	--	--	644,861	35,657,778
Total Power	--	--	--	--	644,861	35,657,778
Norwich City of/Jun 30						
Firm Power	--	--	--	--	272,600	15,015,137
Total Power	--	--	--	--	272,600	15,015,137
Wallingford Town of/Jun 30						
Firm Power	--	--	--	--	542,406	33,455,177
Total Power	--	--	--	--	542,406	33,455,177
Delaware						
Dover City of/Jun 30						
Firm Power	--	--	57,195	1,881,345	57,195	1,881,345
Nonfirm Power	--	--	--	--	204,921	6,210,962
Total Power	--	--	57,195	1,881,345	262,116	8,092,307
Milford City of/Sep 30						
Firm Power	--	--	--	--	131,372	5,717,989
Nonfirm Power	--	--	6,087	325,587	6,087	325,587
Total Power	--	--	6,087	325,587	137,459	6,043,576
Newark City of/Dec 31						
Firm Power	--	--	--	--	281,513	12,750,734
Total Power	--	--	--	--	281,513	12,750,734
Florida						
Bartow City of/Sep 30						
Firm Power	--	--	--	--	248,847	10,934,514
Total Power	--	--	--	--	248,847	10,934,514
Florida Municipal Power Agency/Sep 30						
Firm Power	--	--	1,241,010	36,850,650	1,947,087	67,525,232
Nonfirm Power	58,840	1,085,457	8,483	173,997	67,323	1,259,454
Total Power	58,840	1,085,457	1,249,493	37,024,647	2,014,410	68,784,686
Fort Pierce Utilities Au/Sep 30						
Firm Power	--	--	197,191	10,793,760	207,423	11,666,645
Nonfirm Power	14,780	291,820	9,202	203,107	47,840	1,129,815
Total Power	14,780	291,820	206,393	10,996,867	255,263	12,796,460
Gainesville City of/Sep 30						
Firm Power	--	--	1,176	48,089	1,176	48,089
Nonfirm Power	11,586	216,132	3,278	79,758	43,612	965,632
Total Power	11,586	216,132	4,452	127,847	44,788	1,013,721
Homestead City of/Sep 30						
Firm Power	--	--	166,895	8,147,214	176,401	9,048,720
Nonfirm Power	1,989	38,497	2,647	57,459	9,308	203,278
Other Power	--	--	--	2,832	--	2,832
Total Power	1,989	38,497	169,342	8,207,505	185,709	9,254,830
Jacksonville Beach City/Sep 30						
Firm Power	--	--	458,208	21,424,406	495,944	23,939,016
Nonfirm Power	--	--	--	261,708	--	261,708
Total Power	--	--	458,208	21,686,114	495,944	24,200,724
Jacksonville Elec Auth/Sep 30						
Firm Power	--	--	1,162,329	67,530,379	1,162,329	67,530,379
Nonfirm Power	28,097	593,990	24,307	746,709	73,969	2,113,199
Other Power	94	9,720	--	--	1,486	68,897
Total Power	28,191	603,710	1,186,636	68,277,088	1,237,784	69,712,475
Key West Utility Board of/Sep 30						
Firm Power	--	--	85,844	4,009,236	316,106	10,967,711
Nonfirm Power	35,814	2,436,431	27,883	783,137	89,353	4,215,180
Total Power	35,814	2,436,431	113,727	4,792,375	405,459	15,182,891
Kissimmee Utility Auth/Sep 30						
Firm Power	--	--	47,279	3,346,060	269,254	11,922,778
Nonfirm Power	13,111	283,578	56,811	3,582,681	121,973	5,213,839
Other Power	--	--	--	34,504	--	34,504
Total Power	13,111	283,578	104,090	6,963,245	391,227	17,171,121
Lake Worth City of/Sep 30						
Firm Power	--	--	178,639	11,547,542	178,639	11,547,542
Nonfirm Power	3,699	87,188	2,838	85,823	19,643	588,925
Total Power	3,699	87,188	181,477	11,633,365	198,282	12,136,467
Lakeland City of/Sep 30						
Firm Power	--	--	175,275	5,508,930	319,212	8,627,032
Nonfirm Power	536	11,936	42	1,284	5,963	249,573
Total Power	536	11,936	175,317	5,510,214	325,175	8,876,605

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Leesburg Electric Department/Sep 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
New Smyrna Beach Utilis Comm/Sep 30						
Firm Power	149,476	6,293,574	--	--	--	--
Nonfirm Power	53	2,616	--	--	--	--
Other Power	63,829	2,592,593	--	--	--	--
Total Power	213,358	8,888,783	--	--	--	--
Ocala City of/Sep 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Orlando Utilities Commission/Sep 30						
Firm Power	26,134	980,062	--	--	--	--
Nonfirm Power	32,164	586,725	--	--	--	--
Total Power	58,298	1,566,787	--	--	--	--
Quincy Electric Department/Sep 30						
Firm Power	93,000	3,999,945	47,000	1,039,131	--	--
Total Power	93,000	3,999,945	47,000	1,039,131	--	--
Ready Creek Improvement Dist/Sep 30						
Firm Power	391,329	13,615,654	--	--	--	--
Nonfirm Power	5,483	141,057	--	--	--	--
Other Power	1	1,019,164	--	--	--	--
Total Power	396,813	14,775,875	--	--	--	--
Sebring Utilities Commission/Sep 30						
Firm Power	173,478	9,330,422	--	--	--	--
Other Power	--	27,494	--	--	--	--
Total Power	173,478	9,357,916	--	--	--	--
St Cloud City of/Sep 30						
Firm Power	151,104	6,853,963	--	--	--	--
Nonfirm Power	8,846	391,767	--	--	--	--
Total Power	159,950	7,245,730	--	--	--	--
Tallahassee City of/Sep 30						
Firm Power	21,670	408,476	--	--	--	--
Total Power	21,670	408,476	--	--	--	--
Vero Beach City of/Sep 30						
Firm Power	3,578	355,754	--	--	--	--
Nonfirm Power	31,655	734,828	--	--	--	--
Other Power	--	5,557	--	--	--	--
Total Power	35,233	1,096,139	--	--	--	--
Georgia						
Albany Water Gas & Light/Jun 30						
Firm Power	--	--	97,007	2,337,345	777,110	40,063,305
Total Power	--	--	97,007	2,337,345	777,110	40,063,305
Calhoun Light Department/Jun 30						
Firm Power	--	--	--	--	302,674	14,026,711
Total Power	--	--	--	--	302,674	14,026,711
Cartersville Electric System/Jun 30						
Firm Power	--	--	27,552	660,292	323,976	16,157,026
Total Power	--	--	27,552	660,292	323,976	16,157,026
College Park City of/Jun 30						
Firm Power	--	--	27,893	273,844	216,056	12,401,720
Total Power	--	--	27,893	273,844	216,056	12,401,720
Covington City of/Dec 31						
Firm Power	--	--	16,935	566,428	189,515	9,757,901
Total Power	--	--	16,935	566,428	189,515	9,757,901
Dalton City of/Nov 30						
Firm Power	324,919	9,807,085	73,578	1,839,940	--	--
Total Power	324,919	9,807,085	73,578	1,839,940	--	--
Douglas City of/Jun 30						
Firm Power	--	--	16,394	395,027	179,272	9,223,219
Total Power	--	--	16,394	395,027	179,272	9,223,219
East Point City of/Jun 30						
Firm Power	--	--	52,800	1,398,245	282,300	13,306,183
Total Power	--	--	52,800	1,398,245	282,300	13,306,183
Fitzgerald Wtr Lgt & Bnd/Dec 31						
Firm Power	--	--	17,681	372,646	150,300	7,863,068
Total Power	--	--	17,681	372,646	150,300	7,863,068

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Leesburg Electric Department/Sep 30						
Firm Power	--	--	351,840	14,457,569	351,840	14,457,569
Total Power	--	--	351,840	14,457,569	351,840	14,457,569
New Smyrna Beach Utils Comm/Sep 30						
Firm Power	--	--	50,518	3,398,259	199,994	9,691,833
Nonfirm Power	--	--	27	1,101	80	3,717
Other Power	--	--	4,026	627,818	67,855	3,220,411
Total Power	--	--	54,571	4,027,178	267,929	12,915,961
Ocala City of/Sep 30						
Firm Power	--	--	971,134	40,730,153	971,134	40,730,153
Total Power	--	--	971,134	40,730,153	971,134	40,730,153
Orlando Utilities Commission/Sep 30						
Firm Power	--	--	--	--	26,134	980,062
Nonfirm Power	3,016	61,104	3,368	73,580	38,548	721,409
Total Power	3,016	61,104	3,368	73,580	64,682	1,701,471
Quincy Electric Department/Sep 30						
Firm Power	--	--	--	--	140,000	5,039,076
Total Power	--	--	--	--	140,000	5,039,076
Reedy Creek Improvement Dist/Sep 30						
Firm Power	--	--	199,184	6,634,151	590,513	20,249,805
Nonfirm Power	11,420	255,066	3,464	82,596	20,367	478,719
Other Power	--	--	4	1,030	5	1,020,194
Total Power	11,420	255,066	202,652	6,717,777	610,885	21,748,718
Sebring Utilities Commission/Sep 30						
Firm Power	--	--	--	--	173,478	9,330,422
Other Power	--	--	--	--	--	27,484
Total Power	--	--	--	--	173,478	9,357,916
St Cloud City of/Sep 30						
Firm Power	--	--	--	--	151,104	6,853,963
Nonfirm Power	4,926	136,275	12,682	529,664	26,454	1,057,706
Total Power	4,926	136,275	12,682	529,664	177,558	7,911,669
Tallahassee City of/Sep 30						
Firm Power	18,668	974,443	486,097	29,040,481	526,435	30,423,400
Total Power	18,668	974,443	486,097	29,040,481	526,435	30,423,400
Vero Beach City of/Sep 30						
Firm Power	--	--	--	--	3,578	355,754
Nonfirm Power	11,602	226,664	84,410	2,318,018	127,667	3,279,510
Other Power	--	--	--	--	--	5,557
Total Power	11,602	226,664	84,410	2,318,018	131,245	3,640,821
Georgia						
Albany Water Gas & Light/Jun 30						
Firm Power	--	--	--	--	874,117	42,400,650
Total Power	--	--	--	--	874,117	42,400,650
Calhoun Light Department/Jun 30						
Firm Power	--	--	--	--	302,674	14,026,711
Total Power	--	--	--	--	302,674	14,026,711
Cartersville Electric System/Jun 30						
Firm Power	--	--	--	--	351,528	16,817,318
Total Power	--	--	--	--	351,528	16,817,318
College Park City of/Jun 30						
Firm Power	--	--	--	--	243,749	12,675,364
Total Power	--	--	--	--	243,749	12,675,364
Covington City of/Dec 31						
Firm Power	--	--	--	--	206,450	10,324,329
Total Power	--	--	--	--	206,450	10,324,329
Dalton City of/Nov 30						
Firm Power	--	--	--	--	398,497	11,647,025
Total Power	--	--	--	--	398,497	11,647,025
Douglas City of/Jun 30						
Firm Power	--	--	--	--	195,666	9,618,246
Total Power	--	--	--	--	195,666	9,618,246
East Point City of/Jun 30						
Firm Power	--	--	--	--	335,100	14,704,428
Total Power	--	--	--	--	335,100	14,704,428
Fitzgerald Wtr Lgt & Bnd/Dec 31						
Firm Power	--	--	--	--	167,981	8,235,714
Total Power	--	--	--	--	167,981	8,235,714

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Georgia						
Griffin Electric Department/Jun 30						
Firm Power	--	--	29,084	701,043	258,213	13,500,537
Total Power	--	--	29,084	701,043	258,213	13,500,537
La Grange City of/Jun 30						
Firm Power	--	--	--	--	553,601	25,576,932
Total Power	--	--	--	--	553,601	25,576,932
Lawrenceville Electric Dept/Aug 31						
Firm Power	--	--	--	--	173,767	9,873,340
Total Power	--	--	--	--	173,767	9,873,340
Marietta Power/Jun 30						
Firm Power	--	--	66,309	1,565,026	739,974	42,325,522
Total Power	--	--	66,309	1,565,026	739,974	42,325,522
Moultrie City of/Sep 30						
Firm Power	--	--	24,137	612,901	141,849	7,812,408
Total Power	--	--	24,137	612,901	141,849	7,812,408
Thomasville Water & Light Dept/Dec 31						
Firm Power	--	--	45,491	1,074,420	351,281	17,203,298
Total Power	--	--	45,491	1,074,420	351,281	17,203,298
Idaho						
Idaho Falls City of/Sep 30						
Firm Power	--	--	538,886	13,331,433	--	--
Total Power	--	--	538,886	13,331,433	--	--
Illinois						
Batavia City of Electric Util/Dec 31						
Firm Power	191,800	10,549,173	--	--	--	--
Total Power	191,800	10,549,173	--	--	--	--
Geneva Electric Department/Apr 30						
Firm Power	138,462	5,303,086	--	--	--	--
Other Power	--	771,484	--	--	--	--
Total Power	138,462	6,074,570	--	--	--	--
Illinois Municipal Elec Agency/Apr 30						
Firm Power	857,927	33,834,663	--	--	--	--
Nonfirm Power	74,934	1,182,710	--	--	--	--
Total Power	932,861	35,017,373	--	--	--	--
Naperville City of/Apr 30						
Firm Power	679,039	35,255,495	--	--	--	--
Other Power	--	--	--	--	--	--
Total Power	679,039	35,255,495	--	--	--	--
Rochelle Municipal Utilities/Apr 30						
Firm Power	133,375	4,128,943	--	--	--	--
Total Power	133,375	4,128,943	--	--	--	--
Springfield Water Light&Power/Feb 28						
Nonfirm Power	1,180	52,216	--	--	--	--
Other Power	6,330	83,580	--	--	--	--
Total Power	7,510	135,796	--	--	--	--
St Charles City of/Apr 30						
Firm Power	352,224	18,062,618	--	--	--	--
Total Power	352,224	18,062,618	--	--	--	--
Indiana						
Anderson Mun Light and Water/Dec 31						
Firm Power	--	--	--	--	619,455	27,803,718
Total Power	--	--	--	--	619,455	27,803,718
Auburn City of/Dec 31						
Firm Power	310,566	12,207,761	--	--	--	--
Total Power	310,566	12,207,761	--	--	--	--
Bluffton City of/Dec 31						
Firm Power	148,142	6,019,448	--	--	--	--
Total Power	148,142	6,019,448	--	--	--	--
Crawfordsville Elec Lgt&Pwr Co/Dec 31						
Firm Power	--	--	--	--	330,063	12,392,737
Total Power	--	--	--	--	330,063	12,392,737
Frankfort Light & Power/Dec 31						
Firm Power	--	--	--	--	279,065	10,433,011
Total Power	--	--	--	--	279,065	10,433,011
Greenfield Municipal Utility/Dec 31						
Firm Power	--	--	--	--	150,635	5,903,062
Total Power	--	--	--	--	150,635	5,903,062

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Georgia						
Griffin Electric Department/Jun 30						
Firm Power	--	--	--	--	287,307	14,201,580
Total Power	--	--	--	--	287,307	14,201,580
La Grange City of/Jun 30						
Firm Power	--	--	--	--	553,601	25,576,932
Total Power	--	--	--	--	553,601	25,576,932
Lawrenceville Electric Dept/Aug 31						
Firm Power	--	--	--	--	173,767	9,873,340
Total Power	--	--	--	--	173,767	9,873,340
Marietta Power/Jun 30						
Firm Power	--	--	--	--	806,283	43,890,548
Total Power	--	--	--	--	806,283	43,890,548
Moultrie City of/Sep 30						
Firm Power	--	--	--	--	165,986	8,425,309
Total Power	--	--	--	--	165,986	8,425,309
Thomasville Water & Light Dept/Dec 31						
Firm Power	--	--	--	--	396,772	18,277,718
Total Power	--	--	--	--	396,772	18,277,718
Idaho						
Idaho Falls City of/Sep 30						
Firm Power	--	--	--	--	538,886	13,331,433
Total Power	--	--	--	--	538,886	13,331,433
Illinois						
Batavia City of Electric Util/Dec 31						
Firm Power	--	--	--	--	191,800	10,549,173
Total Power	--	--	--	--	191,800	10,549,173
Geneva Electric Department/Apr 30						
Firm Power	--	--	19,145	526,634	157,607	5,829,720
Other Power	--	--	--	--	--	771,484
Total Power	--	--	19,145	526,634	157,607	6,601,204
Illinois Municipal Elec Agency/Apr 30						
Firm Power	--	--	68,088	2,084,284	926,015	35,918,947
Nonfirm Power	--	--	--	--	74,834	1,182,710
Total Power	--	--	68,088	2,084,284	1,000,949	37,101,657
Naperville City of/Apr 30						
Firm Power	--	--	--	--	679,039	35,255,495
Other Power	--	--	3,183	24,531	3,183	24,531
Total Power	--	--	3,183	24,531	682,222	35,280,026
Rochelle Municipal Utilities/Apr 30						
Firm Power	--	--	--	--	133,375	4,128,943
Total Power	--	--	--	--	133,375	4,128,943
Springfield Water Light&Power/Feb 28						
Nonfirm Power	--	--	--	--	1,180	52,216
Other Power	--	--	--	--	6,330	83,580
Total Power	--	--	--	--	7,510	135,796
St Charles City of/Apr 30						
Firm Power	--	--	--	--	352,224	18,062,618
Total Power	--	--	--	--	352,224	18,062,618
Indiana						
Anderson Mun Light and Water/Dec 31						
Firm Power	--	--	--	--	619,455	27,803,718
Total Power	--	--	--	--	619,455	27,803,718
Auburn City of/Dec 31						
Firm Power	--	--	--	--	310,566	12,207,761
Total Power	--	--	--	--	310,566	12,207,761
Bluffton City of/Dec 31						
Firm Power	--	--	--	--	148,142	6,019,448
Total Power	--	--	--	--	148,142	6,019,448
Crawfordsville Elec Lgt&Pwr Co/Dec 31						
Firm Power	--	--	--	--	330,063	12,392,737
Total Power	--	--	--	--	330,063	12,392,737
Frankfort Light & Power/Dec 31						
Firm Power	--	--	--	--	279,065	10,433,011
Total Power	--	--	--	--	279,065	10,433,011
Greenfield Municipal Utility/Dec 31						
Firm Power	--	--	--	--	150,635	5,903,062
Total Power	--	--	--	--	150,635	5,903,062

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Indiana						
Jasper Municipal Electric Util/Dec 31						
Firm Power	187,314	8,869,055	--	--	--	--
Total Power	187,314	8,869,055	--	--	--	--
Logansport Municipal Utilities/Dec 31						
Firm Power	226,255	6,622,804	--	--	--	--
Total Power	226,255	6,622,804	--	--	--	--
Mishawaka City of/Dec 31						
Firm Power	419,850	18,851,741	--	--	--	--
Total Power	419,850	18,851,741	--	--	--	--
Peru City of Utility/Dec 31						
Firm Power	--	--	--	--	186,455	5,027,736
Total Power	--	--	--	--	186,455	5,027,736
Richmond Power & Light/Dec 31						
Firm Power	--	--	--	--	172,706	10,778,352
Total Power	--	--	--	--	172,706	10,778,352
Washington City of/Dec 31						
Firm Power	--	--	--	--	156,226	6,089,370
Total Power	--	--	--	--	156,226	6,089,370
Iowa						
Ames City of/Jun 30						
Nonfirm Power	99,431	1,323,303	--	--	--	--
Total Power	99,431	1,323,303	--	--	--	--
Cedar Falls Mun Electric Util/Dec 31						
Nonfirm Power	63,364	918,745	--	--	--	--
Total Power	63,364	918,745	--	--	--	--
Muscatine Power and Water/Dec 31						
Nonfirm Power	13,739	170,784	700	10,927	60,978	743,723
Total Power	13,739	170,784	700	10,927	60,978	743,723
Pella Municipal Light & Power/Jun 30						
Firm Power	19,469	418,644	--	--	--	--
Nonfirm Power	53,313	954,943	--	--	--	--
Other Power	10,287	111,502	--	--	--	--
Total Power	83,069	1,485,089	--	--	--	--
Kansas						
Chanute Mun Electric Utility/Dec 31						
Firm Power	--	--	3,645	94,879	--	--
Nonfirm Power	127,837	3,120,650	--	--	--	--
Total Power	127,837	3,120,650	3,645	94,879	--	--
Coffeyville City of/Dec 31						
Firm Power	--	--	6,190	142,206	--	--
Nonfirm Power	103,470	2,438,539	--	--	--	--
Other Power	--	--	--	--	--	--
Total Power	103,470	2,438,539	6,190	142,206	--	--
Garden City City of/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Kansas City City of/Dec 31						
Firm Power	139,073	2,333,330	128,412	2,637,097	--	--
Total Power	139,073	2,333,330	128,412	2,637,097	--	--
McPherson Board of Pub Utils/Dec 31						
Firm Power	457,369	12,247,341	--	--	--	--
Total Power	457,369	12,247,341	--	--	--	--
Winfield City of/Dec 31						
Firm Power	--	--	--	--	108,735	3,727,299
Nonfirm Power	79,015	2,534,683	--	--	--	--
Total Power	79,015	2,534,683	--	--	108,735	3,727,299
Kentucky						
Bowling Green Municipal Utils/Jun 30						
Firm Power	--	--	654,459	29,497,990	--	--
Total Power	--	--	654,459	29,497,990	--	--
Frankfort City of/Jun 30						
Firm Power	579,208	18,135,342	--	--	--	--
Total Power	579,208	18,135,342	--	--	--	--
Franklin City of/Jun 30						
Firm Power	--	--	187,714	7,927,832	--	--
Total Power	--	--	187,714	7,927,832	--	--

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Indiana						
Jasper Municipal Electric Util/Dec 31						
Firm Power	--	--	--	--	187,314	8,869,055
Total Power	--	--	--	--	187,314	8,869,055
Logansport Municipal Utilities/Dec 31						
Firm Power	--	--	--	--	226,255	6,622,804
Total Power	--	--	--	--	226,255	6,622,804
Mishawaka City of/Dec 31						
Firm Power	--	--	--	--	419,850	18,851,741
Total Power	--	--	--	--	419,850	18,851,741
Peru City of Utility/Dec 31						
Firm Power	--	--	--	--	186,455	5,027,736
Total Power	--	--	--	--	186,455	5,027,736
Richmond Power & Light/Dec 31						
Firm Power	--	--	--	--	172,706	10,778,352
Total Power	--	--	--	--	172,706	10,778,352
Washington City of/Dec 31						
Firm Power	--	--	--	--	156,226	6,089,370
Total Power	--	--	--	--	156,226	6,089,370
Iowa						
Ames City of/Jun 30						
Nonfirm Power	--	--	--	--	99,431	1,323,303
Total Power	--	--	--	--	99,431	1,323,303
Cedar Falls Mun Electric Util/Dec 31						
Nonfirm Power	--	--	--	--	63,364	918,745
Total Power	--	--	--	--	63,364	918,745
Muscatine Power and Water/Dec 31						
Nonfirm Power	54,669	741,618	570	7,943	130,656	1,674,995
Total Power	54,669	741,618	570	7,943	130,656	1,674,995
Pella Municipal Light & Power/Jun 30						
Firm Power	--	--	2,364	114,874	21,833	533,518
Nonfirm Power	--	--	--	--	53,313	954,943
Other Power	--	--	--	--	10,287	111,502
Total Power	--	--	2,364	114,874	85,433	1,599,963
Kansas						
Chanute Mun Electric Utility/Dec 31						
Firm Power	--	--	--	--	3,645	94,879
Nonfirm Power	--	--	--	--	127,837	3,120,650
Total Power	--	--	--	--	131,482	3,215,529
Coffeyville City of/Dec 31						
Firm Power	--	--	--	--	6,190	142,206
Nonfirm Power	--	--	--	--	103,470	2,438,539
Other Power	--	--	--	540,000	--	540,000
Total Power	--	--	--	540,000	109,660	3,120,745
Garden City City of/Dec 31						
Firm Power	159,805	8,522,810	--	--	159,805	8,522,810
Total Power	159,805	8,522,810	--	--	159,805	8,522,810
Kansas City City of/Dec 31						
Firm Power	--	--	--	--	267,485	4,970,427
Total Power	--	--	--	--	267,485	4,970,427
McPherson Board of Pub Utils/Dec 31						
Firm Power	--	--	--	--	457,369	12,247,341
Total Power	--	--	--	--	457,369	12,247,341
Winfield City of/Dec 31						
Firm Power	--	--	--	--	108,735	3,727,299
Nonfirm Power	--	--	--	--	79,015	2,534,683
Total Power	--	--	--	--	187,750	6,261,982
Kentucky						
Bowling Green Municipal Utils/Jun 30						
Firm Power	--	--	--	--	654,459	29,497,990
Total Power	--	--	--	--	654,459	29,497,990
Frankfort City of/Jun 30						
Firm Power	--	--	--	--	579,208	18,135,342
Total Power	--	--	--	--	579,208	18,135,342
Franklin City of/Jun 30						
Firm Power	--	--	--	--	187,714	7,927,832
Total Power	--	--	--	--	187,714	7,927,832

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Kentucky						
Glasgow City of/Jun 30						
Firm Power	--	--	270,681	11,857,859	--	--
Total Power	--	--	270,681	11,857,859	--	--
Henderson City Utility Commiss/May 31						
Other Power	--	--	18,000	359,622	--	--
Total Power	--	--	18,000	359,622	--	--
Hopkinsville City of/Jun 30						
Firm Power	--	--	394,779	16,295,612	--	--
Total Power	--	--	394,779	16,295,612	--	--
Madisonville Mun Utilities/Jun 30						
Firm Power	258,954	8,267,961	--	--	--	--
Total Power	258,954	8,267,961	--	--	--	--
Mayfield Electric & Water Sys/Jun 30						
Firm Power	--	--	137,719	6,341,241	--	--
Total Power	--	--	137,719	6,341,241	--	--
Murray City of/Jun 30						
Firm Power	--	--	228,933	10,385,779	--	--
Total Power	--	--	228,933	10,385,779	--	--
Owensboro Municipal Utilities/May 31						
Firm Power	28,631	458,555	--	--	--	--
Other Power	--	--	--	--	--	--
Total Power	28,631	458,555	--	--	--	--
Paducah Power System/Jun 30						
Firm Power	--	--	525,689	23,241,853	--	--
Total Power	--	--	525,689	23,241,853	--	--
Louisiana						
Alexandria City of/Apr 30						
Firm Power	--	--	--	--	434,418	16,670,275
Nonfirm Power	129,510	2,686,607	--	--	--	--
Total Power	129,510	2,686,607	--	--	434,418	16,670,275
Lafayette City of/Oct 31						
Firm Power	138,668	2,808,504	--	--	--	--
Total Power	138,668	2,808,504	--	--	--	--
Morgan City City of/Dec 31						
Firm Power	--	--	--	--	155,200	6,876,600
Total Power	--	--	--	--	155,200	6,876,600
Natchitoches City of/May 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Ruston City of/Sep 30						
Firm Power	--	--	20,817	367,338	--	--
Total Power	--	--	20,817	367,338	--	--
Terrebonne Parish Consol Govt/Dec 31						
Firm Power	--	--	--	--	228,676	9,949,681
Total Power	--	--	--	--	228,676	9,949,681
Maryland						
Easton Utilities Commission/Jun 30						
Firm Power	172,620	4,732,332	--	--	--	--
Total Power	172,620	4,732,332	--	--	--	--
Hagerstown City of/Jun 30						
Firm Power	302,208	10,946,453	--	--	--	--
Total Power	302,208	10,946,453	--	--	--	--
Massachusetts						
Braintree Town of/Dec 31						
Firm Power	203,709	6,648,675	--	--	144,411	8,961,320
Other Power	--	--	--	--	--	--
Total Power	203,709	6,648,675	--	--	144,411	8,961,320
Chicopee City of/Dec 31						
Firm Power	162,590	8,992,173	--	--	35,971	427,231
Other Power	50,958	1,851,891	--	--	2,623	61,811
Total Power	213,548	10,844,064	--	--	38,594	489,042
Concord City of/Dec 31						
Firm Power	136,691	8,706,576	--	--	10,342	175,475
Total Power	136,691	8,706,576	--	--	10,342	175,475
Danvers Electric Utility/Dec 31						
Firm Power	20,207	644,047	--	--	260,492	22,666,878
Total Power	20,207	644,047	--	--	260,492	22,666,878

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Kentucky						
Glasgow City of/Jun 30						
Firm Power	--	--	--	--	270,681	11,857,859
Total Power	--	--	--	--	270,681	11,857,859
Henderson City Utility Commis/May 31						
Other Power	5,549	107,622	--	--	23,549	467,244
Total Power	5,549	107,622	--	--	23,549	467,244
Hopkinsville City of/Jun 30						
Firm Power	--	--	--	--	394,779	16,295,612
Total Power	--	--	--	--	394,779	16,295,612
Madisonville Mun Utilities/Jun 30						
Firm Power	--	--	--	--	258,954	8,267,961
Total Power	--	--	--	--	258,954	8,267,961
Mayfield Electric & Water Sys/Jun 30						
Firm Power	--	--	--	--	137,719	6,341,241
Total Power	--	--	--	--	137,719	6,341,241
Murray City of/Jun 30						
Firm Power	--	--	--	--	228,933	10,385,779
Total Power	--	--	--	--	228,933	10,385,779
Owensboro Municipal Utilities/May 31						
Firm Power	--	--	--	--	28,631	458,555
Other Power	--	--	--	-8,888	--	-8,888
Total Power	--	--	--	-8,888	28,631	449,667
Paducah Power System/Jun 30						
Firm Power	--	--	--	--	525,689	23,241,853
Total Power	--	--	--	--	525,689	23,241,853
Louisiana						
Alexandria City of/Apr 30						
Firm Power	--	--	--	--	434,418	16,670,275
Nonfirm Power	--	--	--	--	129,510	2,686,607
Total Power	--	--	--	--	563,928	19,356,882
Lafayette City of/Oct 31						
Firm Power	2,515	50,937	1,462,704	50,245,858	1,603,887	53,105,299
Total Power	2,515	50,937	1,462,704	50,245,858	1,603,887	53,105,299
Morgan City City of/Dec 31						
Firm Power	--	--	--	--	155,200	6,876,600
Total Power	--	--	--	--	155,200	6,876,600
Natchitoches City of/May 31						
Firm Power	--	--	196,067	7,715,901	196,067	7,715,901
Total Power	--	--	196,067	7,715,901	196,067	7,715,901
Ruston City of/Sep 30						
Firm Power	--	--	29,345	623,190	50,162	990,528
Total Power	--	--	29,345	623,190	50,162	990,528
Terrebonne Parish Consol Govt/Dec 31						
Firm Power	--	--	--	--	228,676	9,949,681
Total Power	--	--	--	--	228,676	9,949,681
Maryland						
Easton Utilities Commission/Jun 30						
Firm Power	--	--	--	--	172,620	4,732,332
Total Power	--	--	--	--	172,620	4,732,332
Hagerstown City of/Jun 30						
Firm Power	--	--	--	--	302,208	10,946,453
Total Power	--	--	--	--	302,208	10,946,453
Massachusetts						
Braintree Town of/Dec 31						
Firm Power	--	--	8,457	1,027,280	356,577	16,637,275
Other Power	--	--	-173	20,833	-173	20,833
Total Power	--	--	8,284	1,048,113	356,404	16,658,108
Chicopee City of/Dec 31						
Firm Power	--	--	--	--	198,561	9,419,404
Other Power	--	--	17,189	2,431,411	70,770	4,345,113
Total Power	--	--	17,189	2,431,411	269,331	13,764,517
Concord City of/Dec 31						
Firm Power	--	--	--	--	147,033	8,882,051
Total Power	--	--	--	--	147,033	8,882,051
Danvers Electric Utility/Dec 31						
Firm Power	--	--	21,798	1,066,599	302,497	24,377,524
Total Power	--	--	21,798	1,066,599	302,497	24,377,524

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Hingham Municipal Lighting Pla/Dec 31						
Firm Power	13,425	574,992	--	--	108,754	8,736,439
Total Power	13,425	574,992	--	--	108,754	8,736,439
Holyoke Gas and Electric Dept/Dec 31						
Firm Power	--	--	--	--	22,231	287,765
Other Power	125,730	6,399,762	--	--	181,459	10,851,610
Total Power	125,730	6,399,762	--	--	183,690	11,139,375
Hudson Light & Power Dept/Dec 31						
Firm Power	32,582	1,901,697	--	--	162,117	17,927,040
Other Power	--	--	--	--	--	--
Total Power	32,582	1,901,697	--	--	162,117	17,927,040
Littleton Town of/Dec 31						
Firm Power	10,539	612,191	--	--	8,274	53,233
Other Power	--	--	--	--	82,467	5,641,621
Total Power	10,539	612,191	--	--	90,741	5,694,854
Mansfield Electric Light Dept/Dec 31						
Other Power	--	--	--	--	158,294	15,331,013
Total Power	--	--	--	--	158,294	15,331,013
Middleborough Town of/Dec 31						
Firm Power	67,536	4,217,103	--	--	101,766	8,494,272
Total Power	67,536	4,217,103	--	--	101,766	8,494,272
North Attleborough Elec Dept/Dec 31						
Other Power	14,033	598,351	--	--	80,384	7,093,231
Total Power	14,033	598,351	--	--	80,384	7,093,231
Norwood City of/Jun 30						
Firm Power	327,305	21,188,901	--	--	--	--
Total Power	327,305	21,188,901	--	--	--	--
Peabody Municipal Light Plant/Dec 31						
Firm Power	42,412	2,061,293	--	--	88,565	5,025,515
Nonfirm Power	--	--	--	--	--	--
Total Power	42,412	2,061,293	--	--	88,565	5,025,515
Reading City of/Dec 31						
Firm Power	231,720	15,307,916	--	--	297,440	22,659,376
Other Power	--	--	--	--	--	--
Total Power	231,720	15,307,916	--	--	297,440	22,659,376
Shrewsbury Town of/Dec 31						
Firm Power	43,039	2,288,756	--	--	223,508	13,608,894
Total Power	43,039	2,288,756	--	--	223,508	13,608,894
Taunton Municipal Light Plant/Dec 31						
Firm Power	106,470	2,897,574	--	--	35,381	566,289
Total Power	106,470	2,897,574	--	--	35,381	566,289
Wakefield Town of/Dec 31						
Firm Power	23,650	907,945	--	--	133,022	10,088,462
Other Power	--	347,986	--	--	138	105,139
Total Power	23,650	1,255,931	--	--	133,160	10,193,601
Wellesley Town of/Dec 31						
Firm Power	193,900	12,351,087	--	--	15,400	258,903
Total Power	193,900	12,351,087	--	--	15,400	258,903
Westfield City of/Dec 31						
Firm Power	--	--	--	--	--	--
Other Power	36,567	1,832,368	--	--	193,098	18,757,970
Total Power	36,567	1,832,368	--	--	193,098	18,757,970
Michigan						
Bay City Electric Light&Power/Jun 30						
Firm Power	253,159	8,665,942	--	--	--	--
Total Power	253,159	8,665,942	--	--	--	--
Coldwater Board of Public Util/Jun 30						
Firm Power	--	--	--	--	135,407	7,643,385
Total Power	--	--	--	--	135,407	7,643,385
Detroit Public Lighting Dept/Jun 30						
Nonfirm Power	419,470	11,122,363	--	--	--	--
Total Power	419,470	11,122,363	--	--	--	--
Grand Haven City of/Jun 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Hingham Municipal Lighting Pla/Dec 31						
Firm Power	--	--	17,819	931,881	139,998	10,243,312
Total Power	--	--	17,819	931,881	139,998	10,243,312
Holyoke Gas and Electric Dept/Dec 31						
Firm Power	--	--	--	--	22,231	287,765
Other Power	--	--	--	--	287,189	17,251,372
Total Power	--	--	--	--	309,420	17,539,137
Hudson Light & Power Dept/Dec 31						
Firm Power	--	--	68,924	3,983,421	263,623	23,812,158
Other Power	--	--	-1,446	-42,239	-1,446	-42,239
Total Power	--	--	67,478	3,941,182	262,177	23,769,919
Littleton Town of/Dec 31						
Firm Power	--	--	9,938	754,264	28,751	1,419,688
Other Power	--	--	19,041	1,934,030	101,508	7,575,651
Total Power	--	--	28,979	2,688,294	130,259	8,995,339
Mansfield Electric Light Dept/Dec 31						
Other Power	--	--	--	--	158,294	15,331,013
Total Power	--	--	--	--	158,294	15,331,013
Middleborough Town of/Dec 31						
Firm Power	--	--	--	--	169,302	12,711,375
Total Power	--	--	--	--	169,302	12,711,375
North Attleborough Elec Dept/Dec 31						
Other Power	--	--	25,657	2,310,196	120,074	10,001,778
Total Power	--	--	25,657	2,310,196	120,074	10,001,778
Norwood City of/Jun 30						
Firm Power	--	--	--	--	327,305	21,188,901
Total Power	--	--	--	--	327,305	21,188,901
Peabody Municipal Light Plant/Dec 31						
Firm Power	--	--	255,078	22,807,432	386,055	29,894,240
Nonfirm Power	--	--	1,232	21,724	1,232	21,724
Total Power	--	--	256,310	22,829,156	387,287	29,915,964
Reading City of/Dec 31						
Firm Power	--	--	59,482	2,370,362	588,642	40,337,654
Other Power	--	--	--	-669,698	--	-669,698
Total Power	--	--	59,482	1,700,664	588,642	39,667,956
Shrewsbury Town of/Dec 31						
Firm Power	--	--	--	--	266,547	15,897,650
Total Power	--	--	--	--	266,547	15,897,650
Taunton Municipal Light Plant/Dec 31						
Firm Power	--	--	297,002	8,609,059	438,853	12,072,922
Total Power	--	--	297,002	8,609,059	438,853	12,072,922
Wakefield Town of/Dec 31						
Firm Power	--	--	477	39,622	157,149	11,036,029
Other Power	--	--	--	--	138	453,125
Total Power	--	--	477	39,622	157,287	11,489,154
Wellesley Town of/Dec 31						
Firm Power	--	--	--	--	209,300	12,609,990
Total Power	--	--	--	--	209,300	12,609,990
Westfield City of/Dec 31						
Firm Power	--	--	14,617	1,281,708	14,617	1,281,708
Other Power	--	--	--	--	229,665	20,590,338
Total Power	--	--	14,617	1,281,708	244,282	21,872,046
Michigan						
Bay City Electric Light&Power/Jun 30						
Firm Power	--	--	--	--	253,159	8,665,942
Total Power	--	--	--	--	253,159	8,665,942
Coldwater Board of Public Util/Jun 30						
Firm Power	--	--	--	--	135,407	7,643,385
Total Power	--	--	--	--	135,407	7,643,385
Detroit Public Lighting Dept/Jun 30						
Nonfirm Power	--	--	--	--	419,470	11,122,363
Total Power	--	--	--	--	419,470	11,122,363
Grand Haven City of/Jun 30						
Firm Power	31,234	879,423	--	--	31,234	879,423
Total Power	31,234	879,423	--	--	31,234	879,423

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Michigan						
Hilledale Board of Public Wks/Jun 30						
Firm Power	--	--	--	--	120,736	6,021,085
Total Power	--	--	--	--	120,736	6,021,085
Holland City Board of Pub Wks/Jun 30						
Firm Power	122,210	3,726,235	--	--	211,360	8,075,121
Nonfirm Power	2,335	118,827	--	--	--	--
Total Power	124,545	3,845,062	--	--	211,360	8,075,121
Lansing Board of Water & Light/Jun 30						
Firm Power	1,667	71,457	--	--	163,711	9,340,362
Total Power	1,667	71,457	--	--	163,711	9,340,362
Marquette City of/Jun 30						
Nonfirm Power	16,150	454,788	--	--	--	--
Total Power	16,150	454,788	--	--	--	--
Sturgis City of/Sep 30						
Firm Power	173,016	6,620,211	--	--	--	--
Total Power	173,016	6,620,211	--	--	--	--
Traverse City City of/Jun 30						
Nonfirm Power	31,306	830,831	--	--	99,691	3,425,036
Total Power	31,306	830,831	--	--	99,691	3,425,036
Wyandotte Municipal Serv Comm/Sep 30						
Firm Power	12,904	525,895	--	--	--	--
Total Power	12,904	525,895	--	--	--	--
Minnesota						
Alexandria City of/Dec 31						
Firm Power	--	--	93,775	986,006	79,080	2,902,813
Total Power	--	--	93,775	986,006	79,080	2,902,813
Anoka City of/Dec 31						
Firm Power	185,064	8,294,077	--	--	--	--
Total Power	185,064	8,294,077	--	--	--	--
Austin Utilities/Dec 31						
Firm Power	--	--	--	--	241,559	13,272,151
Total Power	--	--	--	--	241,559	13,272,151
Brainerd Water & Light Dept/Dec 31						
Firm Power	140,657	5,299,862	--	--	--	--
Total Power	140,657	5,299,862	--	--	--	--
Fairmont Public Utilities Comm/Dec 31						
Firm Power	--	--	--	--	152,055	8,916,830
Total Power	--	--	--	--	152,055	8,916,830
Hutchinson Utilities Comm/Dec 31						
Firm Power	--	--	--	--	--	--
Nonfirm Power	103,665	1,572,488	--	--	672	9,099
Total Power	103,665	1,572,488	--	--	672	9,099
Marshall Municipal Utilities/Dec 31						
Firm Power	--	--	131,654	1,344,389	178,479	6,116,912
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	131,654	1,344,389	178,479	6,116,912
Moorhead City of/Dec 31						
Firm Power	--	--	223,424	2,567,903	106,982	3,910,753
Total Power	--	--	223,424	2,567,903	106,982	3,910,753
New Ulm Public Utilities Comm/Dec 31						
Firm Power	103,546	2,183,332	--	--	--	--
Total Power	103,546	2,183,332	--	--	--	--
Owatonna City of/Dec 31						
Firm Power	--	--	--	--	225,828	12,981,992
Total Power	--	--	--	--	225,828	12,981,992
Rochester Public Utilities/Dec 31						
Firm Power	--	--	--	--	873,060	49,286,681
Total Power	--	--	--	--	873,060	49,286,681
Western Minnesota Mun P Agny/Dec 31						
Nonfirm Power	--	--	--	--	168	6,106
Total Power	--	--	--	--	168	6,106
Willmar Municipal Utils Comm/Dec 31						
Firm Power	--	--	32,094	358,380	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	32,094	358,380	--	--

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Michigan						
Hillsdale Board of Public Wks/Jun 30						
Firm Power	--	--	--	--	120,736	6,021,085
Total Power	--	--	--	--	120,736	6,021,085
Holland City Board of Pub Wks/Jun 30						
Firm Power	--	--	--	--	333,570	11,801,356
Nonfirm Power	--	--	--	--	2,335	118,827
Total Power	--	--	--	--	335,905	11,920,183
Lansing Board of Water & Light/Jun 30						
Firm Power	--	--	--	--	165,378	9,411,819
Total Power	--	--	--	--	165,378	9,411,819
Marquette City of/Jun 30						
Nonfirm Power	--	--	--	--	16,150	454,788
Total Power	--	--	--	--	16,150	454,788
Sturgis City of/Sep 30						
Firm Power	--	--	3,893	122,769	176,909	6,742,980
Total Power	--	--	3,893	122,769	176,909	6,742,980
Traverse City City of/Jun 30						
Nonfirm Power	--	--	1,922	53,289	132,919	4,309,156
Total Power	--	--	1,922	53,289	132,919	4,309,156
Wyandotte Municipal Serv Comm/Sep 30						
Firm Power	--	--	--	--	12,904	525,895
Total Power	--	--	--	--	12,904	525,895
Minnesota						
Alexandria City of/Dec 31						
Firm Power	--	--	--	--	172,855	3,888,819
Total Power	--	--	--	--	172,855	3,888,819
Anoka City of/Dec 31						
Firm Power	--	--	--	--	185,064	8,294,077
Total Power	--	--	--	--	185,064	8,294,077
Austin Utilities/Dec 31						
Firm Power	--	--	--	--	241,559	13,272,151
Total Power	--	--	--	--	241,559	13,272,151
Brainerd Water & Light Dept/Dec 31						
Firm Power	--	--	--	--	140,657	5,299,862
Total Power	--	--	--	--	140,657	5,299,862
Fairmont Public Utilities Comm/Dec 31						
Firm Power	--	--	--	--	152,055	8,916,830
Total Power	--	--	--	--	152,055	8,916,830
Hutchinson Utilities Comm/Dec 31						
Firm Power	30,776	2,021,374	--	--	30,776	2,021,374
Nonfirm Power	91,496	1,127,424	--	--	195,833	2,709,011
Total Power	122,272	3,148,798	--	--	226,609	4,730,385
Marshall Municipal Utilities/Dec 31						
Firm Power	--	--	--	--	310,133	7,461,301
Nonfirm Power	--	--	302	14,030	302	14,030
Total Power	--	--	302	14,030	310,435	7,475,331
Moorhead City of/Dec 31						
Firm Power	--	--	--	--	330,406	6,478,656
Total Power	--	--	--	--	330,406	6,478,656
New Ulm Public Utilities Comm/Dec 31						
Firm Power	--	--	--	--	103,546	2,183,332
Total Power	--	--	--	--	103,546	2,183,332
Owatonna City of/Dec 31						
Firm Power	--	--	--	--	225,828	12,981,992
Total Power	--	--	--	--	225,828	12,981,992
Rochester Public Utilities/Dec 31						
Firm Power	--	--	--	--	873,060	49,286,681
Total Power	--	--	--	--	873,060	49,286,681
Western Minnesota Mun P Agny/Dec 31						
Nonfirm Power	--	--	--	--	168	6,106
Total Power	--	--	--	--	168	6,106
Willmar Municipal Utils Comm/Dec 31						
Firm Power	102,974	2,822,330	--	--	135,068	3,180,710
Nonfirm Power	36,287	698,572	--	--	36,287	698,572
Total Power	139,261	3,520,902	--	--	171,355	3,879,282

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Aberdeen City of/Jun 30						
Firm Power	--	--	157,479	6,939,013	--	--
Total Power	--	--	157,479	6,939,013	--	--
Clarksdale Water & Light Dept/Sep 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Columbus City of/Jun 30						
Firm Power	--	--	444,087	21,020,520	--	--
Total Power	--	--	444,087	21,020,520	--	--
Greenwood Utilities Commission/Sep 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Holly Springs Electric Dept/Jun 30						
Firm Power	--	--	204,445	8,777,062	--	--
Total Power	--	--	204,445	8,777,062	--	--
Louisville Electric System/Jun 30						
Firm Power	--	--	155,117	7,027,161	--	--
Total Power	--	--	155,117	7,027,161	--	--
Municipal Energy Agency of MS/Sep 30						
Firm Power	639,156	12,619,494	43,511	899,055	7	276,778
Total Power	639,156	12,619,494	43,511	899,055	7	276,778
New Albany Electric Department/Jun 30						
Firm Power	--	--	221,626	10,096,872	--	--
Total Power	--	--	221,626	10,096,872	--	--
Oxford Electric Department/Jun 30						
Firm Power	--	--	142,141	6,502,095	--	--
Total Power	--	--	142,141	6,502,095	--	--
Starkville City of/Jun 30						
Firm Power	--	--	312,833	13,633,068	--	--
Total Power	--	--	312,833	13,633,068	--	--
Tupelo City of/Jun 30						
Firm Power	--	--	601,344	27,544,481	--	--
Total Power	--	--	601,344	27,544,481	--	--
West Point Electric System/Jun 30						
Firm Power	--	--	180,529	8,395,726	--	--
Total Power	--	--	180,529	8,395,726	--	--
Missouri						
Carthage City of/Jun 30						
Firm Power	--	--	18,802	438,371	--	--
Nonfirm Power	--	--	--	--	9,606	178,979
Other Power	--	--	--	--	--	--
Total Power	--	--	18,802	438,371	9,606	178,979
Columbia City of Water & Light/Sep 30						
Firm Power	266,845	5,926,068	--	--	154,165	4,959,408
Nonfirm Power	--	--	--	--	128	6,429
Other Power	--	--	--	--	--	--
Total Power	266,845	5,926,068	--	--	154,293	4,965,837
Hannibal Board of Public Works/Jun 30						
Firm Power	177,768	7,253,570	--	--	--	--
Total Power	177,768	7,253,570	--	--	--	--
Independence City of/Jun 30						
Firm Power	353,931	8,210,066	--	--	--	--
Nonfirm Power	32,183	442,024	--	--	--	--
Other Power	378,941	10,179,408	--	--	--	--
Total Power	765,055	18,831,498	--	--	--	--
Kennett City of/Jun 30						
Firm Power	--	--	28,018	561,861	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	28,018	561,861	--	--
Kirkwood City of/Mar 31						
Firm Power	184,813	7,781,856	--	--	--	--
Total Power	184,813	7,781,856	--	--	--	--
Lebanon City of/Oct 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Aberdeen City of/Jun 30						
Firm Power	--	--	--	--	157,479	6,939,013
Total Power	--	--	--	--	157,479	6,939,013
Clarkdale Water & Light Dept/Sep 30						
Firm Power	--	--	178,476	5,752,990	178,476	5,752,990
Total Power	--	--	178,476	5,752,990	178,476	5,752,990
Columbus City of/Jun 30						
Firm Power	--	--	--	--	444,087	21,020,520
Total Power	--	--	--	--	444,087	21,020,520
Greenwood Utilities Commission/Sep 30						
Firm Power	--	--	272,234	9,012,355	272,234	9,012,355
Total Power	--	--	272,234	9,012,355	272,234	9,012,355
Holly Springs Electric Dept/Jun 30						
Firm Power	--	--	--	--	204,445	8,777,062
Total Power	--	--	--	--	204,445	8,777,062
Louisville Electric System/Jun 30						
Firm Power	--	--	--	--	155,117	7,027,161
Total Power	--	--	--	--	155,117	7,027,161
Municipal Energy Agency of MS/Sep 30						
Firm Power	--	7,484,400	89,819	3,235,614	772,493	24,515,341
Total Power	--	7,484,400	89,819	3,235,614	772,493	24,515,341
New Albany Electric Department/Jun 30						
Firm Power	--	--	--	--	221,626	10,096,872
Total Power	--	--	--	--	221,626	10,096,872
Oxford Electric Department/Jun 30						
Firm Power	--	--	--	--	142,141	6,502,095
Total Power	--	--	--	--	142,141	6,502,095
Starkville City of/Jun 30						
Firm Power	--	--	--	--	312,833	13,633,068
Total Power	--	--	--	--	312,833	13,633,068
Tupelo City of/Jun 30						
Firm Power	--	--	--	--	601,344	27,544,481
Total Power	--	--	--	--	601,344	27,544,481
West Point Electric System/Jun 30						
Firm Power	--	--	--	--	180,529	8,395,726
Total Power	--	--	--	--	180,529	8,395,726
Missouri						
Carthage City of/Jun 30						
Firm Power	--	--	147,806	6,824,079	166,608	7,262,450
Nonfirm Power	8,691	166,636	--	--	18,297	345,615
Other Power	--	--	--	-1,094,820	--	-1,094,820
Total Power	8,691	166,636	147,806	5,729,259	184,905	6,513,245
Columbia City of Water & Light/Sep 30						
Firm Power	--	--	244,659	12,984,091	665,669	23,869,567
Nonfirm Power	683	15,575	--	--	811	22,004
Other Power	--	22,969	--	5,174	--	28,143
Total Power	683	38,544	244,659	12,989,265	666,480	23,919,714
Hannibal Board of Public Works/Jun 30						
Firm Power	--	--	--	--	177,768	7,253,570
Total Power	--	--	--	--	177,768	7,253,570
Independence City of/Jun 30						
Firm Power	--	--	--	--	353,931	8,210,066
Nonfirm Power	--	--	--	--	32,183	442,024
Other Power	--	--	--	--	378,941	10,179,408
Total Power	--	--	--	--	765,055	18,831,498
Kennett City of/Jun 30						
Firm Power	--	--	--	--	28,018	561,861
Nonfirm Power	--	--	117,262	2,147,644	117,262	2,147,644
Total Power	--	--	117,262	2,147,644	145,280	2,709,505
Kirkwood City of/Mar 31						
Firm Power	--	--	--	--	184,813	7,781,856
Total Power	--	--	--	--	184,813	7,781,856
Lebanon City of/Oct 31						
Firm Power	151,000	6,043,589	--	--	151,000	6,043,589
Total Power	151,000	6,043,589	--	--	151,000	6,043,589

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Missouri						
Marshall City of/Sep 30						
Firm Power	71,302	1,418,502	--	--	--	--
Total Power	71,302	1,418,502	--	--	--	--
Monett City of/Mar 31						
Firm Power	149,947	4,459,009	--	--	--	--
Total Power	149,947	4,459,009	--	--	--	--
Poplar Bluff Light & Water/Dec 31						
Firm Power	--	--	127,536	1,271,026	118,931	2,631,535
Total Power	--	--	127,536	1,271,026	118,931	2,631,535
Rolla Municipal Utilities/Sep 30						
Firm Power	194,076	7,696,113	--	--	--	--
Total Power	194,076	7,696,113	--	--	--	--
Sikeston Board of Mun Utils/May 31						
Firm Power	--	--	83,352	957,311	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	83,352	957,311	--	--
Springfield City of/Sep 30						
Firm Power	--	--	168,567	2,290,000	77,975	1,376,000
Nonfirm Power	10,530	154,000	--	--	--	--
Total Power	10,530	154,000	168,567	2,290,000	77,975	1,376,000
Nebraska						
Fremont City of/Jul 31						
Nonfirm Power	--	--	24,870	342,822	34,422	420,832
Total Power	--	--	24,870	342,822	34,422	420,832
Grand Island Electric Dept/Jul 31						
Firm Power	--	--	34,918	368,156	14,431	493,363
Nonfirm Power	--	--	--	--	7,078	115,905
Total Power	--	--	34,918	368,156	21,509	609,268
Hastings Utilities/Dec 31						
Firm Power	--	--	44,522	673,460	--	--
Nonfirm Power	--	--	--	--	54,341	860,604
Total Power	--	--	44,522	673,460	54,341	860,604
Lincoln Electric System/Dec 31						
Firm Power	7,280	179,397	139,725	3,189,338	1,491,323	42,670,443
Nonfirm Power	84,643	1,220,153	8,382	119,505	10,813	129,237
Total Power	91,923	1,399,550	148,107	3,308,843	1,502,136	42,799,680
North Platte Mun Light&Power/Jul 31						
Firm Power	--	--	--	--	211,581	7,364,566
Total Power	--	--	--	--	211,581	7,364,566
New Jersey						
Vineland City of/Jun 30						
Firm Power	158,625	9,773,964	--	--	17,905	435,610
Total Power	158,625	9,773,964	--	--	17,905	435,610
New Mexico						
Farmington City of/Jun 30						
Firm Power	4,464	204,130	85,763	1,505,025	--	--
Nonfirm Power	--	--	--	--	--	--
Other Power	5,722	134,418	--	--	--	--
Total Power	10,186	338,548	85,763	1,505,025	--	--
Gallup Electric Utility/Jun 30						
Firm Power	155,065	9,813,846	16,790	261,814	--	--
Total Power	155,065	9,813,846	16,790	261,814	--	--
Los Alamos County of/Jun 30						
Firm Power	--	--	6,217	96,862	--	--
Nonfirm Power	52,702	1,008,439	--	--	--	--
Other Power	--	--	--	--	--	--
Total Power	52,702	1,008,439	6,217	96,862	--	--
New York						
Fairport Village of/May 31						
Firm Power	--	--	--	--	350,327	6,052,189
Total Power	--	--	--	--	350,327	6,052,189
Freeport Village of Inc/Feb 28						
Firm Power	2,657	224,686	--	--	208,473	4,567,492
Total Power	2,657	224,686	--	--	208,473	4,567,492
Jamestown City of/Dec 31						
Nonfirm Power	454,268	5,022,229	--	--	--	--
Total Power	454,268	5,022,229	--	--	--	--

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Missouri						
Marshall City of/Sep 30						
Firm Power	--	--	--	--	71,302	1,419,502
Total Power	--	--	--	--	71,302	1,419,502
Monett City of/Mar 31						
Firm Power	--	--	--	--	149,947	4,459,009
Total Power	--	--	--	--	149,947	4,459,009
Poplar Bluff Light & Water/Dec 31						
Firm Power	--	--	4,344	777,465	250,811	4,680,026
Total Power	--	--	4,344	777,465	250,811	4,680,026
Rolla Municipal Utilities/Sep 30						
Firm Power	--	--	--	--	194,076	7,696,113
Total Power	--	--	--	--	194,076	7,696,113
Sikeston Board of Mun Utils/May 31						
Firm Power	--	--	--	--	83,352	957,311
Nonfirm Power	85	2,463	632	13,655	717	16,118
Total Power	85	2,463	632	13,655	84,069	973,429
Springfield City of/Sep 30						
Firm Power	--	--	--	--	246,542	3,666,000
Nonfirm Power	51,161	843,000	--	--	61,691	997,000
Total Power	51,161	843,000	--	--	308,233	4,663,000
Nebraska						
Fremont City of/Jul 31						
Nonfirm Power	--	--	--	--	59,292	763,654
Total Power	--	--	--	--	59,292	763,654
Grand Island Electric Dept/Jul 31						
Firm Power	--	--	--	--	49,349	861,519
Nonfirm Power	--	--	--	--	7,078	115,905
Total Power	--	--	--	--	56,427	977,424
Hastings Utilities/Dec 31						
Firm Power	--	--	--	--	44,522	673,460
Nonfirm Power	--	--	--	--	54,341	860,604
Total Power	--	--	--	--	98,863	1,534,064
Lincoln Electric System/Dec 31						
Firm Power	--	--	--	--	1,638,328	46,039,178
Nonfirm Power	86,835	992,584	30	728	190,703	2,462,207
Total Power	86,835	992,584	30	728	1,829,031	48,501,385
North Platte Mun Light&Power/Jul 31						
Firm Power	--	--	--	--	211,581	7,364,566
Total Power	--	--	--	--	211,581	7,364,566
New Jersey						
Vineland City of/Jun 30						
Firm Power	--	--	--	--	176,530	10,209,574
Total Power	--	--	--	--	176,530	10,209,574
New Mexico						
Farmington City of/Jun 30						
Firm Power	--	--	--	--	90,227	1,709,155
Nonfirm Power	--	--	6,683	111,585	6,683	111,585
Other Power	--	--	--	--	5,722	134,418
Total Power	--	--	6,683	111,585	102,632	1,955,158
Gallup Electric Utility/Jun 30						
Firm Power	--	--	--	--	171,855	10,075,660
Total Power	--	--	--	--	171,855	10,075,660
Los Alamos County of/Jun 30						
Firm Power	--	--	69,366	2,181,276	75,583	2,278,138
Nonfirm Power	49,332	986,158	--	--	102,034	1,994,597
Other Power	834	15,159	--	--	834	15,159
Total Power	50,166	1,001,317	69,366	2,181,276	178,451	4,287,894
New York						
Fairport Village of/May 31						
Firm Power	--	--	--	--	350,327	6,052,189
Total Power	--	--	--	--	350,327	6,052,189
Freeport Village of Inc/Feb 28						
Firm Power	--	--	--	--	211,130	4,792,178
Total Power	--	--	--	--	211,130	4,792,178
Jamestown City of/Dec 31						
Nonfirm Power	--	--	--	--	454,268	5,022,229
Total Power	--	--	--	--	454,268	5,022,229

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
New York						
Massena Electric Department/Dec 31						
Firm Power	1,100	40,720	--	--	151,303	2,241,703
Other Power	--	142,083	--	--	--	--
Total Power	1,100	182,803	--	--	151,303	2,241,703
Plattsburgh City of/Dec 31						
Firm Power	--	--	--	--	535,143	5,791,187
Total Power	--	--	--	--	535,143	5,791,187
Rockville Centre Village of/May 31						
Firm Power	--	--	--	--	134,749	2,744,028
Total Power	--	--	--	--	134,749	2,744,028
North Carolina						
Albemarle City of/Jun 30						
Firm Power	--	--	--	--	258,061	12,856,399
Total Power	--	--	--	--	258,061	12,856,399
Concord Board of Lgt&Wtr Comm/Jun 30						
Firm Power	371,141	18,848,394	3,726	290,138	--	--
Total Power	371,141	18,848,394	3,726	290,138	--	--
Elizabeth City City of/Jun 30						
Firm Power	--	--	1,581	104,590	229,628	14,394,178
Total Power	--	--	1,581	104,590	229,628	14,394,178
Fayetteville Public Works Comm/Jun 30						
Firm Power	1,366,578	61,270,792	4,088	233,415	--	--
Nonfirm Power	--	--	3,866	204,057	--	--
Total Power	1,366,578	61,270,792	7,954	437,472	--	--
Gastonia City of/Jun 30						
Firm Power	--	--	--	--	590,269	27,079,491
Nonfirm Power	--	--	7,210	562,190	--	--
Total Power	--	--	7,210	562,190	590,269	27,079,491
Greenville Utilities Comm/Jun 30						
Firm Power	--	--	--	--	1,047,000	68,967,737
Total Power	--	--	--	--	1,047,000	68,967,737
High Point Town of/Jun 30						
Firm Power	--	--	--	--	805,481	39,605,677
Total Power	--	--	--	--	805,481	39,605,677
Kinston City of/Jun 30						
Firm Power	--	--	1,103	62,992	415,767	26,788,557
Total Power	--	--	1,103	62,992	415,767	26,788,557
Lexington City of/Jun 30						
Firm Power	--	--	--	--	424,061	22,492,777
Total Power	--	--	--	--	424,061	22,492,777
Lumberton Electric Utils Dept/Jun 30						
Firm Power	--	--	673	38,467	265,946	17,486,003
Total Power	--	--	673	38,467	265,946	17,486,003
Monroe City of/Jun 30						
Firm Power	397,706	18,453,532	3,474	270,820	--	--
Total Power	397,706	18,453,532	3,474	270,820	--	--
Morganton City of/Jun 30						
Firm Power	--	--	15,717	462,266	256,552	11,509,145
Total Power	--	--	15,717	462,266	256,552	11,509,145
Murphy Electric Power Board/Jun 30						
Firm Power	--	--	146,259	6,769,541	--	--
Total Power	--	--	146,259	6,769,541	--	--
New Bern City of/Jun 30						
Firm Power	--	--	913	51,754	361,581	24,730,148
Total Power	--	--	913	51,754	361,581	24,730,148
Rocky Mount City of/Jun 30						
Firm Power	--	--	--	--	772,015	47,111,291
Total Power	--	--	--	--	772,015	47,111,291
Shelby City of/Jun 30						
Firm Power	--	--	2,660	207,398	165,187	7,571,999
Total Power	--	--	2,660	207,398	165,187	7,571,999
Statesville City of/Jun 30						
Firm Power	--	--	4,382	341,679	355,498	16,829,312
Total Power	--	--	4,382	341,679	355,498	16,829,312
Tarboro Town of/Jun 30						
Firm Power	--	--	--	--	242,329	15,747,908
Total Power	--	--	--	--	242,329	15,747,908

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Massena Electric Department/Dec 31						
Firm Power	--	--	--	--	152,403	2,282,423
Other Power	--	--	--	--	--	142,083
Total Power	--	--	--	--	152,403	2,424,506
Plattsburgh City of/Dec 31						
Firm Power	--	--	--	--	535,143	5,791,187
Total Power	--	--	--	--	535,143	5,791,187
Rockville Centre Village of/May 31						
Firm Power	--	--	--	--	134,749	2,744,028
Total Power	--	--	--	--	134,749	2,744,028
North Carolina						
Albemarle City of/Jun 30						
Firm Power	--	--	--	--	258,061	12,856,399
Total Power	--	--	--	--	258,061	12,856,399
Concord Board of Lgt&Wtr Comm/Jun 30						
Firm Power	--	--	--	--	374,867	16,938,532
Total Power	--	--	--	--	374,867	16,938,532
Elizabeth City City of/Jun 30						
Firm Power	--	--	--	--	231,209	14,498,768
Total Power	--	--	--	--	231,209	14,498,768
Fayetteville Public Works Comm/Jun 30						
Firm Power	--	--	--	--	1,370,666	61,504,207
Nonfirm Power	--	--	--	--	3,866	204,057
Total Power	--	--	--	--	1,374,532	61,708,264
Gastonia City of/Jun 30						
Firm Power	--	--	--	--	590,269	27,079,491
Nonfirm Power	--	--	--	--	7,210	562,190
Total Power	--	--	--	--	597,479	27,641,681
Greenville Utilities Comm/Jun 30						
Firm Power	--	--	--	--	1,047,000	68,967,737
Total Power	--	--	--	--	1,047,000	68,967,737
High Point Town of/Jun 30						
Firm Power	--	--	--	--	805,481	39,605,677
Total Power	--	--	--	--	805,481	39,605,677
Kinston City of/Jun 30						
Firm Power	--	--	--	--	416,870	26,851,549
Total Power	--	--	--	--	416,870	26,851,549
Lexington City of/Jun 30						
Firm Power	--	--	--	--	424,061	22,492,777
Total Power	--	--	--	--	424,061	22,492,777
Lumberton Electric Utils Dept/Jun 30						
Firm Power	--	--	--	--	266,619	17,524,470
Total Power	--	--	--	--	266,619	17,524,470
Monroe City of/Jun 30						
Firm Power	--	--	--	--	401,180	18,724,352
Total Power	--	--	--	--	401,180	18,724,352
Morganton City of/Jun 30						
Firm Power	--	--	--	--	272,269	11,971,411
Total Power	--	--	--	--	272,269	11,971,411
Murphy Electric Power Board/Jun 30						
Firm Power	--	--	--	--	146,259	6,769,541
Total Power	--	--	--	--	146,259	6,769,541
New Bern City of/Jun 30						
Firm Power	--	--	--	--	362,494	24,781,902
Total Power	--	--	--	--	362,494	24,781,902
Rocky Mount City of/Jun 30						
Firm Power	--	--	--	--	772,015	47,111,291
Total Power	--	--	--	--	772,015	47,111,291
Shelby City of/Jun 30						
Firm Power	--	--	--	--	167,847	7,779,397
Total Power	--	--	--	--	167,847	7,779,397
Statesville City of/Jun 30						
Firm Power	--	--	--	--	359,880	17,170,991
Total Power	--	--	--	--	359,880	17,170,991
Tarboro Town of/Jun 30						
Firm Power	--	--	--	--	242,329	15,747,808
Total Power	--	--	--	--	242,329	15,747,808

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Washington City of/Jun 30						
Firm Power	--	--	2,034	116,184	229,072	15,261,862
Total Power	--	--	2,034	116,184	229,072	15,261,862
Wilson City of/Jun 30						
Firm Power	--	--	2,220	126,771	962,229	60,395,094
Total Power	--	--	2,220	126,771	962,229	60,395,094
Ohio						
American Mun Power-Ohio Inc/Dec 31						
Firm Power	2,286,155	83,740,966	--	--	452,717	3,529,473
Other Power	--	1,611,550	--	--	--	--
Total Power	2,286,155	85,352,516	--	--	452,717	3,529,473
Bowling Green City of/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Bryan City of/Dec 31						
Firm Power	188,037	6,002,989	--	--	5,509	86,188
Total Power	188,037	6,002,989	--	--	5,509	86,188
Celina City of/Dec 31						
Firm Power	146,401	5,577,524	--	--	--	--
Other Power	--	--	--	--	--	--
Total Power	146,401	5,577,524	--	--	--	--
Cleveland City of/Dec 31						
Firm Power	620,840	20,854,640	--	--	152,622	2,532,570
Other Power	2,840	107,793	--	--	--	--
Total Power	623,680	20,962,433	--	--	152,622	2,532,570
Columbus Dept of Pub Service/Dec 31						
Firm Power	--	--	--	--	--	--
Nonfirm Power	1,562	167,946	--	--	--	--
Total Power	1,562	167,946	--	--	--	--
Cuyahoga Falls City of/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Dover City of/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Hamilton Dept of Public Utils/Dec 31						
Firm Power	276,327	2,121,014	--	--	54,122	1,332,459
Total Power	276,327	2,121,014	--	--	54,122	1,332,459
Niles City of/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Orrville City of/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Painesville City of/Dec 31						
Firm Power	59,891	1,543,357	--	--	--	--
Total Power	59,891	1,543,357	--	--	--	--
Piqua Municipal Power System/Dec 31						
Firm Power	--	--	--	--	--	--
Other Power	135,436	3,740,182	--	--	--	--
Total Power	135,436	3,740,182	--	--	--	--
St Marys City of/Dec 31						
Other Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Wadsworth City of/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Wapakoneta Electric Light Dept/Dec 31						
Firm Power	145,319	4,569,397	--	--	--	--
Total Power	145,319	4,569,397	--	--	--	--
Westerville City of/Dec 31						
Firm Power	301,190	9,562,754	--	--	11,019	225,530
Total Power	301,190	9,562,754	--	--	11,019	225,530
Oklahoma						
Altus City of/Jun 30						
Firm Power	--	--	--	--	139,382	5,941,000
Total Power	--	--	--	--	139,382	5,941,000

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Washington City of/Jun 30						
Firm Power	--	--	--	--	231,106	15,378,046
Total Power	--	--	--	--	231,106	15,378,046
Wilson City of/Jun 30						
Firm Power	--	--	--	--	964,449	60,521,865
Total Power	--	--	--	--	964,449	60,521,865
Ohio						
American Mun Power-Ohio Inc/Dec 31						
Firm Power	20,541	556,273	254,774	7,339,024	3,014,187	95,165,736
Other Power	--	--	--	--	--	1,611,550
Total Power	20,541	556,273	254,774	7,339,024	3,014,187	96,777,286
Bowling Green City of/Dec 31						
Firm Power	--	--	280,308	10,831,400	280,308	10,831,400
Total Power	--	--	280,308	10,831,400	280,308	10,831,400
Bryan City of/Dec 31						
Firm Power	--	--	--	--	193,546	6,089,177
Total Power	--	--	--	--	193,546	6,089,177
Celina City of/Dec 31						
Firm Power	--	--	--	--	146,401	5,577,524
Other Power	--	--	8,053	171,841	8,053	171,841
Total Power	--	--	8,053	171,841	154,454	5,749,365
Cleveland City of/Dec 31						
Firm Power	81,259	2,143,577	87,830	2,965,421	942,551	28,496,208
Other Power	--	--	416	13,684	3,256	121,477
Total Power	81,259	2,143,577	88,246	2,979,105	945,807	28,617,685
Columbus Dept of Pub Service/Dec 31						
Firm Power	--	--	287,435	8,687,524	287,435	8,687,524
Nonfirm Power	--	--	--	--	1,562	167,946
Total Power	--	--	287,435	8,687,524	288,997	8,855,470
Cuyahoga Falls City of/Dec 31						
Firm Power	--	--	289,208	11,818,116	289,208	11,818,116
Total Power	--	--	289,208	11,818,116	289,208	11,818,116
Dover City of/Dec 31						
Firm Power	--	--	130,152	3,750,064	130,152	3,750,064
Total Power	--	--	130,152	3,750,064	130,152	3,750,064
Hamilton Dept of Public Utils/Dec 31						
Firm Power	--	--	--	--	330,449	3,453,473
Total Power	--	--	--	--	330,449	3,453,473
Niles City of/Dec 31						
Firm Power	--	--	248,976	9,777,850	248,976	9,777,850
Total Power	--	--	248,976	9,777,850	248,976	9,777,850
Orrville City of/Dec 31						
Firm Power	--	--	59,433	3,397,000	59,433	3,397,000
Total Power	--	--	59,433	3,397,000	59,433	3,397,000
Painesville City of/Dec 31						
Firm Power	--	--	17,767	491,424	77,658	2,034,781
Total Power	--	--	17,767	491,424	77,658	2,034,781
Piqua Municipal Power System/Dec 31						
Firm Power	--	--	15,624	390,368	15,624	390,368
Other Power	--	--	--	--	135,436	3,740,182
Total Power	--	--	15,624	390,368	151,060	4,130,550
St Marys City of/Dec 31						
Other Power	--	--	108,551	2,953,553	108,551	2,953,553
Total Power	--	--	108,551	2,953,553	108,551	2,953,553
Wadsworth City of/Dec 31						
Firm Power	--	--	195,494	7,460,236	195,494	7,460,236
Total Power	--	--	195,494	7,460,236	195,494	7,460,236
Wapakoneta Electric Light Dept/Dec 31						
Firm Power	--	--	6,420	126,615	151,739	4,696,012
Total Power	--	--	6,420	126,615	151,739	4,696,012
Westerville City of/Dec 31						
Firm Power	--	--	--	--	312,209	9,788,284
Total Power	--	--	--	--	312,209	9,788,284
Oklahoma						
Altus City of/Jun 30						
Firm Power	--	--	--	--	139,382	5,941,000
Total Power	--	--	--	--	139,382	5,941,000

See notes and footnotes at end of table.

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Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Oklahoma						
Claremore City of/Jun 30						
Firm Power	--	--	--	--	198,206	7,149,162
Total Power	--	--	--	--	198,206	7,149,162
Duncan City of/Jun 30						
Firm Power	--	--	--	--	139,412	4,508,302
Total Power	--	--	--	--	139,412	4,508,302
Edmond Electric Department/Jun 30						
Firm Power	--	--	--	--	429,507	18,730,818
Total Power	--	--	--	--	429,507	18,730,818
Mannford Town of/Dec 31 ^a						
Firm Power	24,335	901,123	--	--	--	--
Total Power	24,335	901,123	--	--	--	--
Ponca City City of/Jun 30						
Firm Power	--	--	--	--	284,936	11,289,739
Total Power	--	--	--	--	284,936	11,289,739
Stillwater Utilities Authority/Jun 30						
Firm Power	--	--	--	--	360,577	11,016,126
Total Power	--	--	--	--	360,577	11,016,126
Oregon						
Ashland City of/Jun 30						
Firm Power	--	--	154,796	3,926,067	--	--
Total Power	--	--	154,796	3,926,067	--	--
Eugene City of/Dec 31						
Firm Power	5,630	148,979	2,023,056	39,155,586	175,001	1,738,717
Other Power	--	237,940	--	--	--	--
Total Power	5,630	386,919	2,023,056	39,155,586	175,001	1,738,717
Forest Grove City of/Jun 30						
Firm Power	--	--	150,208	1,823,463	44,188	273,331
Other Power	--	--	--	--	--	-251,854
Total Power	--	--	150,208	1,823,463	44,188	21,477
McMinnville City of/Jun 30						
Firm Power	--	--	457,466	11,863,292	44,571	209,876
Total Power	--	--	457,466	11,863,292	44,571	209,876
Springfield City of/Dec 31						
Firm Power	--	--	781,674	18,644,704	--	--
Total Power	--	--	781,674	18,644,704	--	--
Pennsylvania						
Chambersburg Borough of/Dec 31						
Firm Power	227,539	8,063,479	--	--	--	--
Total Power	227,539	8,063,479	--	--	--	--
South Carolina						
Camden City of/Jun 30						
Firm Power	151,412	8,822,285	--	--	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	151,412	8,822,285	--	--	--	--
Easley Combined Utility System/Mar 31						
Firm Power	--	--	15,629	437,603	--	--
Total Power	--	--	15,629	437,603	--	--
Gaffney Board of Public Works/Mar 31						
Firm Power	--	--	12,673	354,833	--	--
Total Power	--	--	12,673	354,833	--	--
Greenwood City of/Dec 31						
Firm Power	214,341	9,378,276	22,349	607,512	--	--
Total Power	214,341	9,378,276	22,349	607,512	--	--
Greer Commission of Public Wks/Dec 31						
Firm Power	--	--	18,326	498,154	--	--
Total Power	--	--	18,326	498,154	--	--
Newberry City of/Jun 30						
Firm Power	--	--	1,479	115,338	--	--
Total Power	--	--	1,479	115,338	--	--
Orangeburg City of/Sep 30						
Firm Power	689,861	24,178,452	7,145	634,215	--	--
Total Power	689,861	24,178,452	7,145	634,215	--	--
Piedmont Municipal Power Agny/Dec 31						
Other Power	993,200	43,399,000	--	--	--	--
Total Power	993,200	43,399,000	--	--	--	--

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Oklahoma						
Claremore City of/Jun 30						
Firm Power	--	--	--	--	198,206	7,149,162
Total Power	--	--	--	--	198,206	7,149,162
Duncan City of/Jun 30						
Firm Power	--	--	--	--	139,412	4,508,302
Total Power	--	--	--	--	139,412	4,508,302
Edmond Electric Department/Jun 30						
Firm Power	--	--	--	--	429,507	18,730,818
Total Power	--	--	--	--	429,507	18,730,818
Mannford Town of/Dec 31 ²						
Firm Power	--	--	--	--	24,335	901,123
Total Power	--	--	--	--	24,335	901,123
Ponca City of/Jun 30						
Firm Power	--	--	--	--	284,936	11,289,739
Total Power	--	--	--	--	284,936	11,289,739
Stillwater Utilities Authority/Jun 30						
Firm Power	--	--	--	--	360,577	11,016,126
Total Power	--	--	--	--	360,577	11,016,126
Oregon						
Ashland City of/Jun 30						
Firm Power	--	--	--	--	154,796	3,926,067
Total Power	--	--	--	--	154,796	3,926,067
Eugene City of/Dec 31						
Firm Power	--	--	210,495	1,976,423	2,414,182	43,019,705
Other Power	--	--	--	--	--	237,940
Total Power	--	--	210,495	1,976,423	2,414,182	43,257,645
Forest Grove City of/Jun 30						
Firm Power	--	--	7,984	29,767	202,380	2,126,561
Other Power	--	--	--	2,021,370	--	1,769,516
Total Power	--	--	7,984	2,051,137	202,380	3,896,077
McMinnville City of/Jun 30						
Firm Power	--	--	10,630	44,950	512,667	12,118,118
Total Power	--	--	10,630	44,950	512,667	12,118,118
Springfield City of/Dec 31						
Firm Power	--	--	--	--	781,674	18,644,704
Total Power	--	--	--	--	781,674	18,644,704
Pennsylvania						
Chambersburg Borough of/Dec 31						
Firm Power	--	--	--	--	227,539	8,063,479
Total Power	--	--	--	--	227,539	8,063,479
South Carolina						
Camden City of/Jun 30						
Firm Power	--	--	--	--	151,412	8,822,285
Nonfirm Power	--	--	2	--	2	--
Total Power	--	--	2	--	151,414	8,822,285
Easley Combined Utility System/Mar 31						
Firm Power	--	--	192,914	9,442,584	208,543	9,880,187
Total Power	--	--	192,914	9,442,584	208,543	9,880,187
Gaffney Board of Public Works/Mar 31						
Firm Power	--	--	176,542	8,327,962	189,215	8,682,795
Total Power	--	--	176,542	8,327,962	189,215	8,682,795
Greenwood City of/Dec 31						
Firm Power	--	--	--	--	236,690	9,985,788
Total Power	--	--	--	--	236,690	9,985,788
Greer Commission of Public Wks/Dec 31						
Firm Power	--	--	137,598	6,636,155	155,924	7,134,309
Total Power	--	--	137,598	6,636,155	155,924	7,134,309
Newberry City of/Jun 30						
Firm Power	--	--	140,079	6,855,703	141,558	6,971,041
Total Power	--	--	140,079	6,855,703	141,558	6,971,041
Orangeburg City of/Sep 30						
Firm Power	--	--	--	--	697,006	24,812,667
Total Power	--	--	--	--	697,006	24,812,667
Piedmont Municipal Power Agny/Dec 31						
Other Power	--	--	126,130	6,378,000	1,119,330	49,777,000
Total Power	--	--	126,130	6,378,000	1,119,330	49,777,000

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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 Carolina						
Rock Hill City of/Dec 31						
Firm Power	--	--	37,071	1,007,714	--	--
Total Power	--	--	37,071	1,007,714	--	--
South Dakota						
Brookings City of/Dec 31						
Firm Power	--	--	98,640	1,136,454	74,874	2,711,140
Total Power	--	--	98,640	1,136,454	74,874	2,711,140
Pierre Municipal Electric/Dec 31						
Firm Power	--	--	107,229	1,349,074	41,530	1,577,014
Total Power	--	--	107,229	1,349,074	41,530	1,577,014
Watertown Municipal Utils Dept/Dec 31						
Firm Power	--	--	116,367	1,304,459	84,652	3,149,557
Total Power	--	--	116,367	1,304,459	84,652	3,149,557
Tennessee						
Alcoa City of Utilities/Jun 30						
Firm Power	--	--	418,443	18,518,948	--	--
Total Power	--	--	418,443	18,518,948	--	--
Athens Utilities Board/Jun 30						
Firm Power	--	--	502,014	22,104,216	--	--
Total Power	--	--	502,014	22,104,216	--	--
Benton County Bd of Pub Util/Jun 30						
Firm Power	--	--	55,348	2,595,188	--	--
Total Power	--	--	55,348	2,595,188	--	--
Bolivar City of/Jun 30						
Firm Power	--	--	234,592	10,626,696	--	--
Total Power	--	--	234,592	10,626,696	--	--
Bristol City of/Jun 30						
Firm Power	--	--	760,766	33,480,086	--	--
Total Power	--	--	760,766	33,480,086	--	--
Brownsville City of/Jun 30						
Firm Power	--	--	187,443	8,655,552	--	--
Total Power	--	--	187,443	8,655,552	--	--
Carroll County/Jun 30						
Firm Power	--	--	371,270	16,337,891	--	--
Total Power	--	--	371,270	16,337,891	--	--
Chattanooga City of/Jun 30						
Firm Power	--	--	5,318,656	230,268,725	--	--
Total Power	--	--	5,318,656	230,268,725	--	--
Clarksville Dept of Electric/Jun 30						
Firm Power	--	--	798,059	35,453,654	--	--
Total Power	--	--	798,059	35,453,654	--	--
Cleveland City of/Jun 30						
Firm Power	--	--	866,082	37,523,995	--	--
Total Power	--	--	866,082	37,523,995	--	--
Clinton City of/Jun 30						
Firm Power	--	--	592,035	26,494,080	--	--
Total Power	--	--	592,035	26,494,080	--	--
Columbia City of/Jun 30						
Firm Power	--	--	499,827	22,383,830	--	--
Total Power	--	--	499,827	22,383,830	--	--
Cookeville City of/Jun 30						
Firm Power	--	--	442,517	20,595,119	--	--
Total Power	--	--	442,517	20,595,119	--	--
Covington Electric System/Jun 30						
Firm Power	--	--	189,241	8,705,444	--	--
Total Power	--	--	189,241	8,705,444	--	--
Dayton City of/Jun 30						
Firm Power	--	--	191,009	8,573,346	--	--
Total Power	--	--	191,009	8,573,346	--	--
Dickson Electric Department/Jun 30						
Firm Power	--	--	546,251	24,340,295	--	--
Total Power	--	--	546,251	24,340,295	--	--
Dyersburg Electric System/Jun 30						
Firm Power	--	--	571,902	22,876,350	--	--
Total Power	--	--	571,902	22,876,350	--	--

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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 Carolina						
Rock Hill City of/Dec 31						
Firm Power	--	--	458,951	22,459,223	498,022	23,466,937
Total Power	--	--	458,951	22,459,223	498,022	23,466,937
South Dakota						
Brookings City of/Dec 31						
Firm Power	--	--	--	--	173,514	3,847,594
Total Power	--	--	--	--	173,514	3,847,594
Pierre Municipal Electric/Dec 31						
Firm Power	--	--	--	--	148,759	2,926,088
Total Power	--	--	--	--	148,759	2,926,088
Watertown Municipal Utilis Dept/Dec 31						
Firm Power	--	--	--	--	201,019	4,454,016
Total Power	--	--	--	--	201,019	4,454,016
Tennessee						
Alcoa City of Utilities/Jun 30						
Firm Power	--	--	--	--	418,443	18,518,948
Total Power	--	--	--	--	418,443	18,518,948
Athens Utilities Board/Jun 30						
Firm Power	--	--	--	--	502,014	22,104,216
Total Power	--	--	--	--	502,014	22,104,216
Benton County Bd of Pub Util/Jun 30						
Firm Power	--	--	--	--	55,348	2,595,188
Total Power	--	--	--	--	55,348	2,595,188
Bolivar City of/Jun 30						
Firm Power	--	--	--	--	234,592	10,626,696
Total Power	--	--	--	--	234,592	10,626,696
Bristol City of/Jun 30						
Firm Power	--	--	--	--	760,766	33,480,086
Total Power	--	--	--	--	760,766	33,480,086
Brownsville City of/Jun 30						
Firm Power	--	--	--	--	187,443	8,655,552
Total Power	--	--	--	--	187,443	8,655,552
Carroll County/Jun 30						
Firm Power	--	--	--	--	371,270	16,337,891
Total Power	--	--	--	--	371,270	16,337,891
Chattanooga City of/Jun 30						
Firm Power	--	--	--	--	5,318,656	230,268,725
Total Power	--	--	--	--	5,318,656	230,268,725
Clarksville Dept of Electric/Jun 30						
Firm Power	--	--	--	--	798,059	35,453,654
Total Power	--	--	--	--	798,059	35,453,654
Cleveland City of/Jun 30						
Firm Power	--	--	--	--	866,082	37,523,995
Total Power	--	--	--	--	866,082	37,523,995
Clinton City of/Jun 30						
Firm Power	--	--	--	--	592,035	26,494,080
Total Power	--	--	--	--	592,035	26,494,080
Columbia City of/Jun 30						
Firm Power	--	--	--	--	499,827	22,383,830
Total Power	--	--	--	--	499,827	22,383,830
Cookeville City of/Jun 30						
Firm Power	--	--	--	--	442,517	20,595,119
Total Power	--	--	--	--	442,517	20,595,119
Covington Electric System/Jun 30						
Firm Power	--	--	--	--	189,241	8,705,444
Total Power	--	--	--	--	189,241	8,705,444
Dayton City of/Jun 30						
Firm Power	--	--	--	--	191,009	8,573,346
Total Power	--	--	--	--	191,009	8,573,346
Dickson Electric Department/Jun 30						
Firm Power	--	--	--	--	546,251	24,340,295
Total Power	--	--	--	--	546,251	24,340,295
Dyersburg Electric System/Jun 30						
Firm Power	--	--	--	--	571,902	22,876,350
Total Power	--	--	--	--	571,902	22,876,350

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Elizabethton Electric System/Jun 30						
Firm Power	--	--	493,331	21,841,498	--	--
Total Power	--	--	493,331	21,841,498	--	--
Erwin City of/Jun 30						
Firm Power	--	--	204,090	9,296,831	--	--
Total Power	--	--	204,090	9,296,831	--	--
Etowah City of/Jun 30						
Firm Power	--	--	139,024	6,098,344	--	--
Total Power	--	--	139,024	6,098,344	--	--
Fayetteville Electric System/Jun 30						
Firm Power	--	--	352,020	15,625,127	--	--
Total Power	--	--	352,020	15,625,127	--	--
Gallatin Dept of Electricity/Jun 30						
Firm Power	--	--	412,411	18,488,652	--	--
Total Power	--	--	412,411	18,488,652	--	--
Greeneville City of/Jun 30						
Firm Power	--	--	856,100	37,546,127	--	--
Total Power	--	--	856,100	37,546,127	--	--
Harriman City of/Jun 30						
Firm Power	--	--	214,947	9,898,888	--	--
Total Power	--	--	214,947	9,898,888	--	--
Humboldt Electric Department/Jun 30						
Firm Power	--	--	204,945	9,123,402	--	--
Total Power	--	--	204,945	9,123,402	--	--
Jackson Utility Division/Jun 30						
Firm Power	--	--	1,115,881	48,778,416	--	--
Total Power	--	--	1,115,881	48,778,416	--	--
Johnson City Power Board/Jun 30						
Firm Power	--	--	1,488,631	66,674,557	--	--
Total Power	--	--	1,488,631	66,674,557	--	--
Knoxville City of/Jun 30						
Firm Power	--	--	4,393,079	201,972,847	--	--
Total Power	--	--	4,393,079	201,972,847	--	--
Lawrenceburg City of/Jun 30						
Firm Power	--	--	470,419	20,599,719	--	--
Total Power	--	--	470,419	20,599,719	--	--
LaFollette Electric Dept/Jun 30						
Firm Power	--	--	327,446	14,541,253	--	--
Total Power	--	--	327,446	14,541,253	--	--
Lebanon City of/Jun 30						
Firm Power	--	--	318,631	14,528,713	--	--
Total Power	--	--	318,631	14,528,713	--	--
Lenoir City City of/Jun 30						
Firm Power	--	--	984,481	44,925,261	--	--
Total Power	--	--	984,481	44,925,261	--	--
Lewisburg Electric System/Jun 30						
Firm Power	--	--	274,731	12,500,766	--	--
Total Power	--	--	274,731	12,500,766	--	--
Lexington Electric System/Jun 30						
Firm Power	--	--	364,336	15,711,840	--	--
Total Power	--	--	364,336	15,711,840	--	--
Loudon Utilities Board/Jun 30						
Firm Power	--	--	254,233	10,747,609	--	--
Total Power	--	--	254,233	10,747,609	--	--
Maryville City of Utilities/Jun 30						
Firm Power	--	--	486,677	20,849,846	--	--
Total Power	--	--	486,677	20,849,846	--	--
McMinnville Electric System/Jun 30						
Firm Power	--	--	209,858	9,309,059	--	--
Total Power	--	--	209,858	9,309,059	--	--
Memphis City of/Jun 30						
Firm Power	--	--	11,818,703	498,793,712	--	--
Total Power	--	--	11,818,703	498,793,712	--	--
Morristown Power System/Jun 30						
Firm Power	--	--	596,111	27,008,874	--	--
Total Power	--	--	596,111	27,008,874	--	--

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Elizabethton Electric System/Jun 30						
Firm Power	--	--	--	--	493,331	21,841,498
Total Power	--	--	--	--	493,331	21,841,498
Erwin City of/Jun 30						
Firm Power	--	--	--	--	204,090	9,296,831
Total Power	--	--	--	--	204,090	9,296,831
Etowah City of/Jun 30						
Firm Power	--	--	--	--	139,024	6,098,344
Total Power	--	--	--	--	139,024	6,098,344
Fayetteville Electric System/Jun 30						
Firm Power	--	--	--	--	352,020	15,625,127
Total Power	--	--	--	--	352,020	15,625,127
Gallatin Dept of Electricity/Jun 30						
Firm Power	--	--	--	--	412,411	18,488,652
Total Power	--	--	--	--	412,411	18,488,652
Greeneville City of/Jun 30						
Firm Power	--	--	--	--	856,100	37,546,127
Total Power	--	--	--	--	856,100	37,546,127
Harriman City of/Jun 30						
Firm Power	--	--	--	--	214,947	9,898,888
Total Power	--	--	--	--	214,947	9,898,888
Humboldt Electric Department/Jun 30						
Firm Power	--	--	--	--	204,945	9,123,402
Total Power	--	--	--	--	204,945	9,123,402
Jackson Utility Division/Jun 30						
Firm Power	--	--	--	--	1,115,881	48,778,416
Total Power	--	--	--	--	1,115,881	48,778,416
Johnson City Power Board/Jun 30						
Firm Power	--	--	--	--	1,488,831	66,674,557
Total Power	--	--	--	--	1,488,831	66,674,557
Knoxville City of/Jun 30						
Firm Power	--	--	7,568	131,054	4,400,647	202,103,901
Total Power	--	--	7,568	131,054	4,400,647	202,103,901
Lawrenceburg City of/Jun 30						
Firm Power	--	--	--	--	470,419	20,599,719
Total Power	--	--	--	--	470,419	20,599,719
LaFollette Electric Dept/Jun 30						
Firm Power	--	--	--	--	327,446	14,541,253
Total Power	--	--	--	--	327,446	14,541,253
Lebanon City of/Jun 30						
Firm Power	--	--	--	--	318,631	14,528,713
Total Power	--	--	--	--	318,631	14,528,713
Lenoir City City of/Jun 30						
Firm Power	--	--	--	--	984,481	44,925,261
Total Power	--	--	--	--	984,481	44,925,261
Lewisburg Electric System/Jun 30						
Firm Power	--	--	--	--	274,731	12,500,766
Total Power	--	--	--	--	274,731	12,500,766
Lexington Electric System/Jun 30						
Firm Power	--	--	--	--	364,336	15,711,840
Total Power	--	--	--	--	364,336	15,711,840
Loudon Utilities Board/Jun 30						
Firm Power	--	--	--	--	254,233	10,747,609
Total Power	--	--	--	--	254,233	10,747,609
Maryville City of Utilities/Jun 30						
Firm Power	--	--	--	--	486,677	20,849,846
Total Power	--	--	--	--	486,677	20,849,846
McMinnville Electric System/Jun 30						
Firm Power	--	--	--	--	209,858	9,309,059
Total Power	--	--	--	--	209,858	9,309,059
Memphis City of/Jun 30						
Firm Power	--	--	--	--	11,818,703	498,793,712
Total Power	--	--	--	--	11,818,703	498,793,712
Morristown Power System/Jun 30						
Firm Power	--	--	--	--	596,111	27,008,874
Total Power	--	--	--	--	596,111	27,008,874

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Murfreesboro City of/Jun 30						
Firm Power	--	--	811,736	35,693,618	--	--
Total Power	--	--	811,736	35,693,618	--	--
Nashville Electric Service/Jun 30						
Firm Power	--	--	10,176,010	445,923,236	--	--
Total Power	--	--	10,176,010	445,923,236	--	--
Newport City of/Jun 30						
Firm Power	--	--	421,066	18,345,154	--	--
Total Power	--	--	421,066	18,345,154	--	--
Oak Ridge City of/Jun 30						
Firm Power	--	--	438,613	20,012,141	--	--
Total Power	--	--	438,613	20,012,141	--	--
Okolona Electric Department/Dec 31						
Firm Power	--	--	81,662	3,699,635	--	--
Total Power	--	--	81,662	3,699,635	--	--
Paris City of/Jun 30						
Firm Power	--	--	412,982	18,591,100	--	--
Total Power	--	--	412,982	18,591,100	--	--
Pulaski Electric System/Jun 30						
Firm Power	--	--	390,643	16,492,086	--	--
Total Power	--	--	390,643	16,492,086	--	--
Ripley City of/Jun 30						
Firm Power	--	--	253,117	11,138,702	--	--
Total Power	--	--	253,117	11,138,702	--	--
Rockwood Electric Utility Sys/Jun 30						
Firm Power	--	--	276,945	12,473,391	--	--
Total Power	--	--	276,945	12,473,391	--	--
Sevier County Electric System/Jun 30						
Firm Power	--	--	833,612	37,583,286	--	--
Total Power	--	--	833,612	37,583,286	--	--
Shelbyville Power System/Jun 30						
Firm Power	--	--	303,390	14,090,430	--	--
Total Power	--	--	303,390	14,090,430	--	--
Springfield City of/Jun 30						
Firm Power	--	--	189,622	8,492,457	--	--
Total Power	--	--	189,622	8,492,457	--	--
Sweetwater Utilities Board/Jun 30						
Firm Power	--	--	172,813	7,924,967	--	--
Total Power	--	--	172,813	7,924,967	--	--
Tullahoma Power System/Jun 30						
Firm Power	--	--	200,000	12,024,757	--	--
Total Power	--	--	200,000	12,024,757	--	--
Union City Electric System/Jun 30						
Firm Power	--	--	339,089	13,079,590	--	--
Total Power	--	--	339,089	13,079,590	--	--
Weakley County Mun Elec Sys/Jun 30						
Firm Power	--	--	456,136	20,443,164	--	--
Total Power	--	--	456,136	20,443,164	--	--
Texas						
Austin City of/Sep 30						
Nonfirm Power	24,887	472,226	--	--	33,707	562,725
Total Power	24,887	472,226	--	--	33,707	562,725
Brenham City of/Sep 30						
Firm Power	--	--	--	--	241,947	9,615,007
Total Power	--	--	--	--	241,947	9,615,007
Brownsville City of/Sep 30						
Firm Power	99,711	4,469,819	--	--	--	--
Nonfirm Power	77,304	1,033,468	--	--	12,058	209,339
Total Power	177,015	5,503,287	--	--	12,058	209,339
Bryan City of/Sep 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
College Station City of/Sep 30						
Firm Power	131,722	6,170,253	--	--	--	--
Total Power	131,722	6,170,253	--	--	--	--

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Murfreesboro City of/Jun 30						
Firm Power	--	--	--	--	811,736	35,693,618
Total Power	--	--	--	--	811,736	35,693,618
Nashville Electric Service/Jun 30						
Firm Power	--	--	--	--	10,176,010	445,923,236
Total Power	--	--	--	--	10,176,010	445,923,236
Newport City of/Jun 30						
Firm Power	--	--	--	--	421,066	18,345,154
Total Power	--	--	--	--	421,066	18,345,154
Oak Ridge City of/Jun 30						
Firm Power	--	--	--	--	438,613	20,012,141
Total Power	--	--	--	--	438,613	20,012,141
Okolona Electric Department/Dec 31						
Firm Power	--	--	--	--	81,662	3,699,635
Total Power	--	--	--	--	81,662	3,699,635
Paris City of/Jun 30						
Firm Power	--	--	--	--	412,982	18,591,100
Total Power	--	--	--	--	412,982	18,591,100
Pulaski Electric System/Jun 30						
Firm Power	--	--	--	--	390,643	16,492,086
Total Power	--	--	--	--	390,643	16,492,086
Ripley City of/Jun 30						
Firm Power	--	--	--	--	253,117	11,138,702
Total Power	--	--	--	--	253,117	11,138,702
Rockwood Electric Utility Sys/Jun 30						
Firm Power	--	--	787	46,544	277,732	12,519,935
Total Power	--	--	787	46,544	277,732	12,519,935
Sevier County Electric System/Jun 30						
Firm Power	--	--	257	8,826	833,869	37,592,112
Total Power	--	--	257	8,826	833,869	37,592,112
Shelbyville Power System/Jun 30						
Firm Power	--	--	--	--	303,390	14,090,430
Total Power	--	--	--	--	303,390	14,090,430
Springfield City of/Jun 30						
Firm Power	--	--	--	--	189,622	8,492,457
Total Power	--	--	--	--	189,622	8,492,457
Sweetwater Utilities Board/Jun 30						
Firm Power	--	--	--	--	172,813	7,924,967
Total Power	--	--	--	--	172,813	7,924,967
Tullahoma Power System/Jun 30						
Firm Power	--	--	--	--	200,000	12,024,757
Total Power	--	--	--	--	200,000	12,024,757
Union City Electric System/Jun 30						
Firm Power	--	--	--	--	339,089	13,079,590
Total Power	--	--	--	--	339,089	13,079,590
Weakley County Mun Elec Sys/Jun 30						
Firm Power	--	--	--	--	456,136	20,443,164
Total Power	--	--	--	--	456,136	20,443,164
Texas						
Austin City of/Sep 30						
Nonfirm Power	4,803	65,037	1,382	23,600	64,779	1,123,588
Total Power	4,803	65,037	1,382	23,600	64,779	1,123,588
Brenham City of/Sep 30						
Firm Power	--	--	--	--	241,947	9,615,007
Total Power	--	--	--	--	241,947	9,615,007
Brownsville City of/Sep 30						
Firm Power	--	--	--	--	99,711	4,469,819
Nonfirm Power	3,034	38,199	1,277	20,256	93,673	1,301,262
Total Power	3,034	38,199	1,277	20,256	193,384	5,771,081
Bryan City of/Sep 30						
Firm Power	--	--	564,079	28,377,237	564,079	28,377,237
Nonfirm Power	--	--	16,910	322,762	16,910	322,762
Total Power	--	--	580,989	28,699,999	580,989	28,699,999
College Station City of/Sep 30						
Firm Power	--	--	292,963	12,308,108	424,685	18,478,361
Total Power	--	--	292,963	12,308,108	424,685	18,478,361

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Denton City of/Sep 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Floresville Elec Lgt & Pwr Sys/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Garland City of/Sep 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Georgetown City of/Sep 30						
Firm Power	--	--	--	--	166,219	7,227,522
Total Power	--	--	--	--	166,219	7,227,522
Greenville Electric Util Sys/Sep 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Kerrville City of/Sep 30						
Firm Power	--	--	--	--	340,911	14,262,834
Total Power	--	--	--	--	340,911	14,262,834
Lubbock City of/Sep 30						
Firm Power	230,635	6,761,192	--	--	--	--
Nonfirm Power	67,401	1,645,443	--	--	--	--
Total Power	298,036	8,406,635	--	--	--	--
New Braunfels Utilities/Jul 31						
Firm Power	--	--	--	--	732,745	28,390,359
Total Power	--	--	--	--	732,745	28,390,359
San Antonio City of/Jan 31						
Nonfirm Power	7,450	114,999	--	--	45,266	747,212
Other Power	--	--	--	--	--	--
Total Power	7,450	114,999	--	--	45,266	747,212
San Marcos City of/Sep 30						
Firm Power	--	--	--	--	303,205	12,280,095
Total Power	--	--	--	--	303,205	12,280,095
Seguin City of/Sep 30						
Firm Power	--	--	--	--	189,467	7,607,197
Total Power	--	--	--	--	189,467	7,607,197
Weatherford Municipal Util Sys/Sep 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Utah						
Bountiful City Light & Power/Jun 30						
Firm Power	2,413	106,748	138,194	2,503,534	74,552	1,639,474
Nonfirm Power	--	--	5,382	109,462	--	--
Total Power	2,413	106,748	143,576	2,612,996	74,552	1,639,474
Logan City of/Jun 30						
Firm Power	--	--	--	--	168,948	5,573,646
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	--	--	168,948	5,573,646
Murray City Power Department/Jun 30						
Firm Power	11,692	476,397	--	--	152,397	6,064,476
Total Power	11,692	476,397	--	--	152,397	6,064,476
Provo City Corporation/Jun 30						
Firm Power	--	--	--	--	539,736	17,498,651
Total Power	--	--	--	--	539,736	17,498,651
St George Dept Water & Power/Jun 30						
Firm Power	--	--	--	--	204,681	7,194,103
Total Power	--	--	--	--	204,681	7,194,103
Vermont						
Burlington City of/Dec 31						
Firm Power	139,870	6,282,902	--	--	20,104	282,523
Other Power	--	891,999	--	--	7,723	311,716
Total Power	139,870	7,174,901	--	--	27,827	594,239
Virginia						
Bedford City of/Jun 30						
Firm Power	183,625	6,758,773	911	61,844	--	--
Total Power	183,625	6,758,773	911	61,844	--	--

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Denton City of/Sep 30						
Firm Power	--	--	794,990	40,519,916	794,990	40,519,916
Total Power	--	--	794,990	40,519,916	794,990	40,519,916
Floresville Elec Lgt & Pwr Sys/Dec 31						
Firm Power	--	--	138,763	5,698,979	138,763	5,698,979
Total Power	--	--	138,763	5,698,979	138,763	5,698,979
Garland City of/Sep 30						
Firm Power	--	--	1,338,333	64,488,244	1,338,333	64,488,244
Nonfirm Power	--	--	75,448	1,412,932	75,448	1,412,932
Total Power	--	--	1,413,781	65,881,176	1,413,781	65,881,176
Georgetown City of/Sep 30						
Firm Power	--	--	--	--	166,219	7,227,522
Total Power	--	--	--	--	166,219	7,227,522
Greenville Electric Util Sys/Sep 30						
Firm Power	--	--	312,596	14,493,642	312,596	14,493,642
Nonfirm Power	26,235	507,865	103,282	2,131,963	129,517	2,639,828
Total Power	26,235	507,865	415,878	16,625,605	442,113	17,133,470
Kerrville City of/Sep 30						
Firm Power	--	--	--	--	340,911	14,262,834
Total Power	--	--	--	--	340,911	14,262,834
Lubbock City of/Sep 30						
Firm Power	--	--	--	--	230,835	8,761,192
Nonfirm Power	--	--	--	--	67,401	1,645,443
Total Power	--	--	--	--	298,036	8,406,635
New Braunfels Utilities/Jul 31						
Firm Power	--	--	--	--	732,745	28,390,359
Total Power	--	--	--	--	732,745	28,390,359
San Antonio City of/Jan 31						
Nonfirm Power	12,207	158,249	969	19,882	65,892	1,040,342
Other Power	--	--	226,794	--	226,794	--
Total Power	12,207	158,249	227,763	19,882	292,686	1,040,342
San Marcos City of/Sep 30						
Firm Power	--	--	--	--	303,205	12,280,095
Total Power	--	--	--	--	303,205	12,280,095
Seguin City of/Sep 30						
Firm Power	--	--	--	--	189,467	7,607,197
Total Power	--	--	--	--	189,467	7,607,197
Weatherford Municipal Util Sys/Sep 30						
Firm Power	29,614	1,691,529	166,308	4,070,057	195,922	5,761,586
Total Power	29,614	1,691,529	166,308	4,070,057	195,922	5,761,586
Utah						
Bountiful City Light & Power/Jun 30						
Firm Power	--	--	--	--	215,159	4,249,756
Nonfirm Power	--	--	--	--	5,382	109,462
Total Power	--	--	--	--	220,541	4,359,218
Logan City of/Jun 30						
Firm Power	--	--	89,461	1,386,823	258,409	6,960,469
Nonfirm Power	--	--	1,500	320,566	1,500	320,566
Total Power	--	--	90,961	1,707,389	259,909	7,281,035
Murray City Power Department/Jun 30						
Firm Power	--	--	131,167	2,356,644	295,256	8,897,517
Total Power	--	--	131,167	2,356,644	295,256	8,897,517
Provo City Corporation/Jun 30						
Firm Power	--	--	--	--	539,736	17,498,651
Total Power	--	--	--	--	539,736	17,498,651
St George Dept Water & Power/Jun 30						
Firm Power	--	--	100,726	1,883,301	305,407	9,077,404
Total Power	--	--	100,726	1,883,301	305,407	9,077,404
Vermont						
Burlington City of/Dec 31						
Firm Power	38	450	193,032	5,859,899	353,044	12,425,774
Other Power	--	--	--	135,971	7,723	1,339,686
Total Power	38	450	193,032	5,995,870	360,767	13,765,460
Virginia						
Bedford City of/Jun 30						
Firm Power	--	--	--	--	184,536	6,820,617
Total Power	--	--	--	--	184,536	6,820,617

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Virginia						
Bristol Utility Board/Jun 30						
Firm Power	--	--	525,176	19,841,000	--	--
Total Power	--	--	525,176	19,841,000	--	--
Danville City of Electric Div/Jun 30						
Firm Power	768,922	26,242,582	4,202	288,606	--	--
Total Power	768,922	26,242,582	4,202	288,606	--	--
Harrisonburg City of/Jun 30						
Firm Power	488,957	21,320,249	1,992	135,351	--	--
Total Power	488,957	21,320,249	1,992	135,351	--	--
Manassas City of/Jun 30						
Firm Power	264,602	11,132,749	--	--	--	--
Total Power	264,602	11,132,749	--	--	--	--
Martinsville City of/Jun 30						
Firm Power	202,369	6,715,758	1,201	82,594	--	--
Total Power	202,369	6,715,758	1,201	82,594	--	--
Radford City of/Jun 30						
Firm Power	283,464	9,298,106	--	--	--	--
Total Power	283,464	9,298,106	--	--	--	--
Salem City of/Jun 30						
Firm Power	323,303	10,949,598	1,651	113,381	--	--
Total Power	323,303	10,949,598	1,651	113,381	--	--
Washington						
Centralia City of/Dec 31						
Firm Power	--	--	162,458	4,275,365	--	--
Total Power	--	--	162,458	4,275,365	--	--
Ellensburg City of/Dec 31						
Firm Power	--	--	159,071	3,884,018	--	--
Total Power	--	--	159,071	3,884,018	--	--
Port Angeles City of/Dec 31						
Firm Power	--	--	666,520	15,524,000	--	--
Total Power	--	--	666,520	15,524,000	--	--
Richland City of/Dec 31						
Firm Power	--	--	582,257	14,471,278	--	--
Total Power	--	--	582,257	14,471,278	--	--
Seattle City Light/Dec 31						
Firm Power	--	682,000	2,012,628	41,862,509	760,608	15,883,514
Nonfirm Power	79,830	-1,539,213	-14,393	114,422	15,166	-337,190
Other Power	27,612	--	67,616	--	3,102	--
Total Power	107,442	-857,213	2,065,851	41,976,931	778,876	15,546,324
Tacoma Dept of Public Utils/Dec 31						
Firm Power	--	--	2,503,765	54,053,342	599,200	11,974,734
Nonfirm Power	--	--	--	--	--	--
Other Power	--	--	--	--	--	--
Total Power	--	--	2,503,765	54,053,342	599,200	11,974,734
Wisconsin						
Jefferson Water & Elec Dept/Dec 31						
Firm Power	--	--	--	--	131,000	5,084,757
Total Power	--	--	--	--	131,000	5,084,757
Kaukauna City of/Dec 31						
Firm Power	--	--	--	--	383,757	13,233,034
Nonfirm Power	--	--	--	--	1,430	44,343
Total Power	--	--	--	--	385,187	13,280,377
Manitowoc Public Utilities/Dec 31						
Firm Power	--	--	--	--	73,527	2,329,846
Nonfirm Power	--	--	--	--	149,912	2,729,397
Total Power	--	--	--	--	223,439	5,059,243
Marshfield Electric&Water Dept/Dec 31						
Firm Power	299,175	10,225,898	--	--	--	--
Total Power	299,175	10,225,898	--	--	--	--
Menasha Electric & Water Util/Dec 31						
Firm Power	--	--	--	--	513,600	17,547,720
Total Power	--	--	--	--	513,600	17,547,720
New London Utilities/Dec 31						
Firm Power	--	--	--	--	157,907	6,055,230
Total Power	--	--	--	--	157,907	6,055,230

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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)
Virginia						
Bristol Utility Board/Jun 30						
Firm Power	--	--	--	--	525,176	19,841,000.
Total Power	--	--	--	--	525,176	19,841,000
Danville City of Electric Div/Jun 30						
Firm Power	--	--	--	--	773,124	26,531,188
Total Power	--	--	--	--	773,124	26,531,188
Harrisonburg City of/Jun 30						
Firm Power	--	--	--	--	490,949	21,455,600
Total Power	--	--	--	--	490,949	21,455,600
Manassas City of/Jun 30						
Firm Power	--	--	--	--	264,602	11,132,749
Total Power	--	--	--	--	264,602	11,132,749
Martinsville City of/Jun 30						
Firm Power	--	--	--	--	203,570	6,798,352
Total Power	--	--	--	--	203,570	6,798,352
Radford City of/Jun 30						
Firm Power	--	--	--	--	283,464	9,298,106
Total Power	--	--	--	--	283,464	9,298,106
Salem City of/Jun 30						
Firm Power	--	--	--	--	324,954	11,062,979
Total Power	--	--	--	--	324,954	11,062,979
Washington						
Centralia City of/Dec 31						
Firm Power	--	--	--	--	162,458	4,275,365
Total Power	--	--	--	--	162,458	4,275,365
Ellensburg City of/Dec 31						
Firm Power	--	--	--	--	159,071	3,884,018
Total Power	--	--	--	--	159,071	3,884,018
Port Angeles City of/Dec 31						
Firm Power	--	--	12,321	--	678,841	15,524,000
Total Power	--	--	12,321	--	678,841	15,524,000
Richland City of/Dec 31						
Firm Power	--	--	19,261	83,281	601,518	14,554,559
Total Power	--	--	19,261	83,281	601,518	14,554,559
Seattle City Light/Dec 31						
Firm Power	--	--	669,598	23,691,764	3,442,834	82,119,787
Nonfirm Power	--	--	-78,680	1,811,189	1,923	49,208
Other Power	--	--	-5,129	--	93,201	--
Total Power	--	--	585,789	25,502,953	3,537,958	82,168,995
Tacoma Dept of Public Utils/Dec 31						
Firm Power	--	--	328,448	1,363,087	3,431,413	67,391,163
Nonfirm Power	--	--	136,853	1,487,973	136,853	1,487,973
Other Power	--	--	--	1,133,979	--	1,133,979
Total Power	--	--	465,301	3,985,039	3,568,266	70,013,115
Wisconsin						
Jefferson Water & Elec Dept/Dec 31						
Firm Power	--	--	--	--	131,000	5,084,757
Total Power	--	--	--	--	131,000	5,084,757
Kaukauna City of/Dec 31						
Firm Power	--	--	--	--	383,757	13,236,034
Nonfirm Power	--	--	--	--	1,430	44,343
Total Power	--	--	--	--	385,187	13,280,377
Manitowoc Public Utilities/Dec 31						
Firm Power	--	--	--	--	73,527	2,329,846
Nonfirm Power	--	--	--	--	149,912	2,729,397
Total Power	--	--	--	--	223,439	5,059,243
Marshfield Electric&Water Dept/Dec 31						
Firm Power	--	--	--	--	299,175	10,225,898
Total Power	--	--	--	--	299,175	10,225,898
Menasha Electric & Water Util/Dec 31						
Firm Power	--	--	--	--	513,600	17,547,720
Total Power	--	--	--	--	513,600	17,547,720
New London Utilities/Dec 31						
Firm Power	--	--	--	--	157,907	6,055,230
Total Power	--	--	--	--	157,907	6,055,230

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Oconomowoc City of/Dec 31						
Firm Power	—	—	—	—	147,817	5,513,806
Nonfirm Power	—	45,817	—	—	—	—
Total Power	—	45,817	—	—	147,817	5,513,806
Plymouth Utilities/Dec 31						
Firm Power	154,584	5,018,108	—	—	—	—
Total Power	154,584	5,018,108	—	—	—	—
Reedsburg Utility Commission/Dec 31						
Firm Power	150,120	5,189,259	—	—	—	—
Total Power	150,120	5,189,259	—	—	—	—
Shawano Municipal Utilities/Dec 31						
Firm Power	—	—	—	—	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	—	—	—	—
Sheboygan Falls City of/Dec 31						
Firm Power	175,537	5,578,010	—	—	—	—
Total Power	175,537	5,578,010	—	—	—	—
Sturgeon Bay City of/Dec 31						
Firm Power	132,023	5,197,167	—	—	—	—
Total Power	132,023	5,197,167	—	—	—	—
Wisconsin Rapids W & L Comm/Dec 31						
Firm Power	192,666	7,132,751	—	—	—	—
Total Power	192,666	7,132,751	—	—	—	—
Wyoming						
Gillette City of/Jun 30						
Firm Power	150,954	7,520,740	26,834	374,468	—	—
Other Power	—	—	—	—	621	20,493
Total Power	150,954	7,520,740	26,834	374,468	621	20,493

See notes and footnotes at end of table.

Table 29. Electricity Purchases by Municipal Utilities, Fiscal Year 1992 (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						
Oconomowoc City of/Dec 31						
Firm Power	--	--	--	--	147,817	5,513,808
Nonfirm Power	--	--	--	--	--	45,817
Total Power	--	--	--	--	147,817	5,559,623
Plymouth Utilities/Dec 31						
Firm Power	--	--	--	--	154,584	5,018,108
Total Power	--	--	--	--	154,584	5,018,108
Reedsburg Utility Commission/Dec 31						
Firm Power	--	--	--	--	150,120	5,189,259
Total Power	--	--	--	--	150,120	5,189,259
Shawano Municipal Utilities/Dec31						
Firm Power	--	--	174,369	6,195,040	174,369	6,195,040
Nonfirm Power	--	--	3	126	3	126
Total Power	--	--	174,372	6,195,166	174,372	6,195,166
Sheboygan Falls City of/Dec 31						
Firm Power	--	--	--	--	175,537	5,578,010
Total Power	--	--	--	--	175,537	5,578,010
Sturgeon Bay City of/Dec 31						
Firm Power	--	--	--	--	132,023	5,197,167
Total Power	--	--	--	--	132,023	5,197,167
Wisconsin Rapids W & L Comm/Dec 31						
Firm Power	--	--	--	--	192,666	7,132,751
Total Power	--	--	--	--	192,666	7,132,751
Wyoming						
Gillette City of/Jun 30						
Firm Power	--	--	--	--	177,788	7,895,208
Other Power	--	--	--	--	621	20,493
Total Power	--	--	--	--	178,409	7,915,701

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

² Source of data is Rural Electrification Administration, REA Form 7, "Financial and Statistical Report."

-- 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 1992

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	--	--	--	--	--	--
Alaska						
Anchorage Mun Light and Power/Dec 31						
Other Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Arizona						
Mesa Utilities/Jun 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Arkansas						
Jonesboro City of/Dec 31						
Firm Power	--	--	--	--	--	--
Nonfirm Power	128,821	2,899,774	--	--	--	--
Total Power	128,821	2,899,774	--	--	--	--
Paragould Light & Water Comm/Dec 31						
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
California						
Anaheim City of/Jun 30						
Nonfirm Power	369,399	6,349,000	--	--	--	--
Total Power	369,399	6,349,000	--	--	--	--
Burbank Public Service Dept/Jun 30						
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Intermountain Power Agency/Jun 30						
Firm Power	316,798	23,057,000	--	--	--	--
Total Power	316,798	23,057,000	--	--	--	--
Los Angeles Dept of Wtr & Pwr/Jun 30						
Firm Power	1,200	42,881	--	--	--	165,000
Nonfirm Power	128,350	3,082,960	1,500	33,000	1,571	33,510
Other Power	--	--	--	--	--	--
Total Power	129,550	3,125,841	1,500	33,000	1,571	198,518
Metropolitan Water Dist/Jun 30						
Other Power	139,742	6,255,446	--	--	--	--
Total Power	139,742	6,255,446	--	--	--	--
Pasadena City of/Jun 30						
Firm Power	--	--	387	8,514	--	--
Nonfirm Power	2,457	38,750	--	--	--	--
Other Power	--	--	--	--	--	--
Total Power	2,457	38,750	387	8,514	--	--
Riverside City of/Jun 30						
Nonfirm Power	69,925	1,298,988	--	--	--	--
Total Power	69,925	1,298,988	--	--	--	--
San Francisco City & County of/Jun 30						
Firm Power	--	--	--	--	560,217	17,301,824
Total Power	--	--	--	--	560,217	17,301,824
Santa Clara Mun Electric Dept/Jun 30						
Firm Power	3,663	56,448	--	--	1,071	29,998
Total Power	3,663	56,448	--	--	1,071	29,998
Turlock Irrigation Dist/Dec 31						
Firm Power	--	--	17,692	914,116	3,785	129,104
Nonfirm Power	--	--	--	--	30	780
Total Power	--	--	17,692	914,116	3,815	129,884
Colorado						
Colorado Springs Utilities/Dec 31						
Firm Power	--	--	--	--	--	--
Nonfirm Power	6,607	175,779	--	--	37	777
Total Power	6,607	175,779	--	--	37	777
Connecticut						
Groton City of Dept of Utils/Jun 30						
Firm Power	5,908	354,454	--	--	--	--
Total Power	5,908	354,454	--	--	--	--

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1992 (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	---	---	2,252,354	88,399,598	2,252,354	88,399,598
Total Power	---	---	2,252,354	88,399,598	2,252,354	88,399,598
Alaska						
Anchorage Mun Light and Power/Dec 31						
Other Power	2,532	81,392	14,593	528,617	17,125	610,009
Total Power	2,532	81,392	14,593	528,617	17,125	610,009
Arizona						
Mesa Utilities/Jun 30						
Firm Power	---	---	150	3,209	150	3,209
Total Power	---	---	150	3,209	150	3,209
Arkansas						
Jonesboro City of/Dec 31						
Firm Power	---	---	13,905	400,580	13,905	400,580
Nonfirm Power	---	---	70,614	1,543,492	199,435	4,443,266
Total Power	---	---	84,519	1,944,072	213,340	4,843,846
Paragould Light & Water Comm/Dec 31						
Nonfirm Power	---	---	4,872	82,824	4,872	82,824
Total Power	---	---	4,872	82,824	4,872	82,824
California						
Anaheim City of/Jun 30						
Nonfirm Power	---	---	---	---	369,399	6,349,000
Total Power	---	---	---	---	369,399	6,349,000
Burbank Public Service Dept/Jun 30						
Nonfirm Power	---	---	753	12,823	753	12,823
Total Power	---	---	753	12,823	753	12,823
Intermountain Power Agency/Jun 30						
Firm Power	---	---	11,068,569	625,529,000	11,385,367	648,586,000
Total Power	---	---	11,068,569	625,529,000	11,385,367	648,586,000
Los Angeles Dept of Wtr & Pwr/Jun 30						
Firm Power	---	---	---	60,000	1,200	267,881
Nonfirm Power	---	---	7,868	193,168	139,289	3,342,646
Other Power	---	---	---	73,481	---	73,481
Total Power	---	---	7,868	326,649	140,489	3,684,008
Metropolitan Water Dist/Jun 30						
Other Power	---	---	---	---	139,742	6,255,446
Total Power	---	---	---	---	139,742	6,255,446
Pasadena City of/Jun 30						
Firm Power	---	---	---	---	387	8,514
Nonfirm Power	---	---	41,474	636,533	43,931	675,283
Other Power	---	---	---	3,216,000	---	3,216,000
Total Power	---	---	41,474	3,852,533	44,318	3,899,797
Riverside City of/Jun 30						
Nonfirm Power	---	---	---	---	69,925	1,298,988
Total Power	---	---	---	---	69,925	1,298,988
San Francisco City & County of/Jun 30						
Firm Power	---	---	445,206	15,517,039	1,005,423	32,818,863
Total Power	---	---	445,206	15,517,039	1,005,423	32,818,863
Santa Clara Mun Electric Dept/Jun 30						
Firm Power	---	---	---	---	4,734	86,446
Total Power	---	---	---	---	4,734	86,446
Turlock Irrigation Dist/Dec 31						
Firm Power	---	---	---	---	21,477	1,043,220
Nonfirm Power	---	---	---	---	30	780
Total Power	---	---	---	---	21,507	1,044,000
Colorado						
Colorado Springs Utilities/Dec 31						
Firm Power	---	---	119,669	4,214,260	119,669	4,214,260
Nonfirm Power	---	---	---	---	6,644	176,556
Total Power	---	---	119,669	4,214,260	126,313	4,390,816
Connecticut						
Groton City of Dept of Utils/Jun 30						
Firm Power	---	---	---	---	5,908	354,454
Total Power	---	---	---	---	5,908	354,454

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1992 (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)
Delaware						
Dover City of/Jun 30						
Nonfirm Power	38,005	941,245	--	--	--	--
Total Power	38,005	941,245	--	--	--	--
Florida						
Florida Municipal Power Agency/Sep 30						
Firm Power	254,515	2,911,418	--	--	--	--
Total Power	254,515	2,911,418	--	--	--	--
Fort Pierce Utilities Au/Sep 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	4,211	187,482	--	--	--	--
Total Power	4,211	187,482	--	--	--	--
Gainesville City of/Sep 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	187,125	4,698,308	--	--	--	--
Total Power	187,125	4,698,308	--	--	--	--
Homestead City of/Sep 30						
Firm Power	295	13,059	--	--	--	--
Nonfirm Power	5,985	257,319	--	--	--	--
Total Power	6,280	270,378	--	--	--	--
Jacksonville Elec Auth/Sep 30						
Firm Power	291,469	16,466,433	--	--	--	--
Nonfirm Power	131,579	3,081,363	--	--	--	--
Other Power	195	8,067	--	--	--	--
Total Power	423,243	19,555,863	--	--	--	--
Key West Utility Board of/Sep 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Kissimmee Utility Auth/Sep 30						
Nonfirm Power	4,803	204,931	--	--	--	--
Total Power	4,803	204,931	--	--	--	--
Lake Worth City of/Sep 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	13,888	323,105	--	--	--	--
Total Power	13,888	323,105	--	--	--	--
Lakeland City of/Sep 30						
Firm Power	877	63,500	--	--	--	--
Nonfirm Power	6,288	358,685	--	--	--	--
Total Power	7,165	422,185	--	--	--	--
New Smyrna Beach Utils Comm/Sep 30						
Nonfirm Power	215	13,099	--	--	--	--
Total Power	215	13,099	--	--	--	--
Orlando Utilities Commission/Sep 30						
Firm Power	83,097	2,668,855	--	--	--	--
Nonfirm Power	30,026	1,709,141	--	--	--	--
Total Power	113,123	4,377,996	--	--	--	--
St Cloud City of/Sep 30						
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Tallahassee City of/Sep 30						
Firm Power	135,310	4,076,053	--	--	--	--
Total Power	135,310	4,076,053	--	--	--	--
Vero Beach City of/Sep 30						
Nonfirm Power	3,341	147,820	--	--	--	--
Other Power	--	--	--	--	--	--
Total Power	3,341	147,820	--	--	--	--
Georgia						
Dalton City of/Nov 30						
Firm Power	44,625	1,093,234	--	--	--	--
Total Power	44,625	1,093,234	--	--	--	--
Idaho						
Idaho Falls City of/Sep 30						
Firm Power	41,298	1,901,802	125,606	4,769,712	--	--
Total Power	41,298	1,901,802	125,606	4,769,712	--	--

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1992 (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)
Delaware						
Dover City of/Jun 30						
Nonfirm Power	--	--	--	--	38,005	941,245
Total Power	--	--	--	--	38,005	941,245
Florida						
Florida Municipal Power Agency/Sep 30						
Firm Power	--	--	2,917,046	154,382,603	3,171,561	157,294,021
Total Power	--	--	2,917,046	154,382,603	3,171,561	157,294,021
Fort Pierce Utilities Au/Sep 30						
Firm Power	--	--	73,363	2,073,335	73,363	2,073,335
Nonfirm Power	158	7,041	706	29,543	5,075	224,066
Total Power	158	7,041	74,069	2,102,878	78,438	2,297,401
Gainesville City of/Sep 30						
Firm Power	49,882	2,586,123	293,937	10,574,735	343,819	13,160,858
Nonfirm Power	13,373	756,143	35,631	820,150	236,129	6,276,606
Total Power	63,255	3,344,271	329,568	11,394,885	579,948	19,437,464
Homestead City of/Sep 30						
Firm Power	--	--	7,902	382,989	8,197	396,048
Nonfirm Power	309	15,751	2,201	89,378	8,495	362,448
Total Power	309	15,751	10,103	472,367	16,692	758,496
Jacksonville Elec Auth/Sep 30						
Firm Power	35,459	1,558,560	--	--	326,928	18,024,993
Nonfirm Power	16,913	550,456	30,365	682,944	178,857	4,314,763
Other Power	24,476	3,846,366	268	299,441	24,939	4,153,874
Total Power	76,848	5,955,382	30,633	982,385	530,724	26,493,630
Key West Utility Board of/Sep 30						
Firm Power	--	--	2,735	74,936	2,735	74,936
Nonfirm Power	1,598	137,377	--	--	1,598	137,377
Total Power	1,598	137,377	2,735	74,936	4,333	212,313
Kissimmee Utility Auth/Sep 30						
Nonfirm Power	170	5,267	3,080	144,827	8,053	355,025
Total Power	170	5,267	3,080	144,827	8,053	355,025
Lake Worth City of/Sep 30						
Firm Power	--	--	1,900	331,953	1,900	331,953
Nonfirm Power	173	9,108	2,944	69,346	17,005	401,559
Total Power	173	9,108	4,844	401,299	18,905	733,512
Lakeland City of/Sep 30						
Firm Power	--	--	4,026	451,695	4,903	515,195
Nonfirm Power	--	--	43,797	1,124,422	50,085	1,483,107
Total Power	--	--	47,823	1,576,117	54,988	1,998,302
New Smyrna Beach Utils Comm/Sep 30						
Nonfirm Power	50	3,420	30	1,739	295	18,258
Total Power	50	3,420	30	1,739	295	18,258
Orlando Utilities Commission/Sep 30						
Firm Power	--	--	454,838	20,273,361	537,935	22,942,216
Nonfirm Power	1,580	72,013	909,224	25,029,736	940,830	26,810,890
Total Power	1,580	72,013	1,364,062	45,303,097	1,478,765	49,753,106
St Cloud City of/Sep 30						
Nonfirm Power	3	113	--	--	3	113
Total Power	3	113	--	--	3	113
Tallahassee City of/Sep 30						
Firm Power	48,170	2,446,840	11,301	296,507	194,781	6,819,400
Total Power	48,170	2,446,840	11,301	296,507	194,781	6,819,400
Vero Beach City of/Sep 30						
Nonfirm Power	264	12,912	764	32,029	4,369	192,761
Other Power	--	--	230	12,178	230	12,178
Total Power	264	12,912	994	44,207	4,599	204,939
Georgia						
Dalton City of/Nov 30						
Firm Power	--	--	--	--	44,625	1,093,234
Total Power	--	--	--	--	44,625	1,093,234
Idaho						
Idaho Falls City of/Sep 30						
Firm Power	--	--	--	--	166,904	6,671,514
Total Power	--	--	--	--	166,904	6,671,514

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1992 (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)
Illinois						
Illinois Municipal Elec Agency/Apr 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Springfield Water Light&Power/Feb 28						
Firm Power	--	--	--	--	--	--
Nonfirm Power	5,185	105,223	--	--	--	--
Other Power	20,876	375,971	--	--	--	--
Total Power	26,041	481,194	--	--	--	--
Indiana						
Crawfordsville Elec Lgt&Pwr Co/Dec 31						
Firm Power	--	--	--	--	27,195	2,228,361
Total Power	--	--	--	--	27,195	2,228,361
Iowa						
Ames City of/Jun 30						
Nonfirm Power	6,942	124,601	--	--	--	--
Total Power	6,942	124,601	--	--	--	--
Cedar Falls Mun Electric Util/Dec 31						
Firm Power	90	3,607	--	--	--	--
Nonfirm Power	17,107	251,554	--	--	--	--
Total Power	17,197	255,161	--	--	--	--
Muscatine Power and Water/Dec 31						
Firm Power	515,096	35,914,417	--	--	--	--
Nonfirm Power	11,457	309,885	180	3,897	1,828	40,442
Total Power	526,553	36,224,302	180	3,897	1,828	40,442
Kansas						
Kansas City City of/Dec 31						
Firm Power	1,750	33,758	--	--	264,500	8,701,892
Other Power	--	--	--	--	--	--
Total Power	1,750	33,758	--	--	264,500	8,701,892
McPherson Board of Pub Utils/Dec 31						
Firm Power	--	--	--	--	--	--
Other Power	8,290	1,862,950	--	--	--	--
Total Power	8,290	1,862,950	--	--	--	--
Winfield City of/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Kentucky						
Henderson City Utility Commiss/May 31						
Other Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Owensboro Municipal Utilities/May 31						
Firm Power	1,526,274	23,780,550	--	--	--	--
Total Power	1,526,274	23,780,550	--	--	--	--
Louisiana						
Lafayette City of/Oct 31						
Firm Power	23	805	--	--	367,981	13,946,898
Total Power	23	805	--	--	367,981	13,946,898
Lafayette Public Power Auth/Oct 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Terrebonne Parish Consol Govt/Dec 31						
Firm Power	--	--	--	--	102,391	3,109,413
Total Power	--	--	--	--	102,391	3,109,413
Maryland						
Easton Utilities Commission/Jun 30						
Other Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Massachusetts						
Braintree Town of/Dec 31						
Firm Power	25,649	1,630,913	--	--	--	--
Total Power	25,649	1,630,913	--	--	--	--
Chicopee City of/Dec 31						
Firm Power	--	--	--	--	300	7,800
Total Power	--	--	--	--	300	7,800

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1992 (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)
Illinois						
Illinois Municipal Elec Agency/Apr 30						
Firm Power	--	--	1,281,982	57,601,575	1,281,982	57,601,575
Nonfirm Power	--	--	26,292	771,466	26,292	771,466
Total Power	--	--	1,308,274	58,373,041	1,308,274	58,373,041
Springfield Water Light&Power/Feb 28						
Firm Power	--	--	94,433	3,079,547	94,433	3,079,547
Nonfirm Power	--	--	--	--	5,165	105,223
Other Power	--	--	--	--	20,876	375,971
Total Power	--	--	94,433	3,079,547	120,474	3,560,741
Indiana						
Crawfordsville Elec Lgt&Pwr Co/Dec 31						
Firm Power	--	--	--	--	27,195	2,228,361
Total Power	--	--	--	--	27,195	2,228,361
Iowa						
Ames City of/Jun 30						
Nonfirm Power	--	--	358	7,250	7,300	131,851
Total Power	--	--	358	7,250	7,300	131,851
Cedar Falls Mun Electric Util/Dec 31						
Firm Power	--	--	--	--	90	3,607
Nonfirm Power	--	--	--	--	17,107	251,554
Total Power	--	--	--	--	17,197	255,161
Muscatine Power and Water/Dec 31						
Firm Power	--	--	--	--	515,096	35,914,417
Nonfirm Power	4,386	106,463	25	675	17,878	461,362
Total Power	4,386	106,463	25	675	532,972	36,375,779
Kansas						
Kansas City City of/Dec 31						
Firm Power	--	--	147,770	4,884,127	414,020	13,619,777
Other Power	--	--	--	38,047	--	38,047
Total Power	--	--	147,770	4,922,174	414,020	13,657,824
McPherson Board of Pub Utils/Dec 31						
Firm Power	--	--	18,893	854,634	18,893	854,634
Other Power	--	--	--	--	8,290	1,862,950
Total Power	--	--	18,893	854,634	27,183	2,717,584
Winfield City of/Dec 31						
Firm Power	--	--	4,243	194,400	4,243	194,400
Total Power	--	--	4,243	194,400	4,243	194,400
Kentucky						
Henderson City Utility Commiss/May 31						
Other Power	1,411,007	12,428,314	--	--	1,411,007	12,428,314
Total Power	1,411,007	12,428,314	--	--	1,411,007	12,428,314
Owensboro Municipal Utilities/May 31						
Firm Power	--	--	--	--	1,526,274	23,780,550
Total Power	--	--	--	--	1,526,274	23,780,550
Louisiana						
Lafayette City of/Oct 31						
Firm Power	--	--	192,647	6,454,473	560,651	20,402,176
Total Power	--	--	192,647	6,454,473	560,651	20,402,176
Lafayette Public Power Auth/Oct 31						
Firm Power	--	--	1,418,646	49,937,278	1,418,646	49,937,278
Total Power	--	--	1,418,646	49,937,278	1,418,646	49,937,278
Terrebonne Parish Consol Govt/Dec 31						
Firm Power	--	--	--	--	102,391	3,109,413
Total Power	--	--	--	--	102,391	3,109,413
Maryland						
Easton Utilities Commission/Jun 30						
Other Power	2,759	290,227	--	--	2,759	290,227
Total Power	2,759	290,227	--	--	2,759	290,227
Massachusetts						
Braintree Town of/Dec 31						
Firm Power	--	--	4,151	557,888	29,800	2,188,801
Total Power	--	--	4,151	557,888	29,800	2,188,801
Chicopee City of/Dec 31						
Firm Power	--	--	28,640	1,797,238	28,940	1,805,038
Total Power	--	--	28,640	1,797,238	28,940	1,805,038

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1992 (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						
Danvers Electric Utility/Dec 31						
Firm Power	--	--	--	--	3,457	174,117
Total Power	--	--	--	--	3,457	174,117
Hingham Municipal Lighting Pla/Dec 31						
Firm Power	146	16,782	--	--	115	38,238
Total Power	146	16,782	--	--	115	38,238
Holyoke Gas and Electric Dept/Dec 31						
Other Power	--	--	--	--	5,832	144,164
Total Power	--	--	--	--	5,832	144,164
Littleton Town of/Dec 31						
Firm Power	--	--	--	--	11,647	438,142
Total Power	--	--	--	--	11,647	438,142
Mansfield Electric Light Dept/Dec 31						
Other Power	--	--	--	--	6,456	247,927
Total Power	--	--	--	--	6,456	247,927
Middleborough Town of/Dec 31						
Firm Power	--	--	--	--	112	40,213
Total Power	--	--	--	--	112	40,213
North Attleborough Elec Dept/Dec 31						
Firm Power	--	--	--	--	201	88,797
Total Power	--	--	--	--	201	88,797
Reading City of/Dec 31						
Firm Power	242	20,441	--	--	--	--
Total Power	242	20,441	--	--	--	--
Shrewsbury Town of/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Taunton Municipal Light Plant/Dec 31						
Firm Power	12,754	399,571	--	--	--	--
Other Power	--	--	--	--	--	--
Total Power	12,754	399,571	--	--	--	--
Westfield City of/Dec 31						
Firm Power	--	--	--	--	2,048	1,201,107
Total Power	--	--	--	--	2,048	1,201,107
Michigan						
Grand Haven City of/Jun 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Lansing Board of Water & Light/Jun 30						
Firm Power	57,290	1,346,811	--	--	38,131	1,240,021
Nonfirm Power	--	--	--	--	6,133	140,843
Total Power	57,290	1,346,811	--	--	44,264	1,380,864
Marquette City of/Jun 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	189	7,568	--	--	--	--
Other Power	2,799	2,260,232	--	--	--	--
Total Power	2,988	2,267,800	--	--	--	--
Traverse City City of/Jun 30						
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Minnesota						
Austin Utilities/Dec 31						
Firm Power	--	--	--	--	6,936	1,631,243
Total Power	--	--	--	--	6,936	1,631,243
Fairmont Public Utilities Comm/Dec 31						
Other Power	--	--	--	--	719	31,768
Total Power	--	--	--	--	719	31,768
Hutchinson Utilities Comm/Dec 31						
Nonfirm Power	14	420	1	30	1	30
Total Power	14	420	1	30	1	30
Rochester Public Utilities/Dec 31						
Firm Power	--	--	--	--	199,620	8,627,123
Total Power	--	--	--	--	199,620	8,627,123
Western Minnesota Mun P Agny/Dec 31						
Firm Power	--	--	--	--	1,948,458	40,093,645
Total Power	--	--	--	--	1,948,458	40,093,645

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1992 (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						
Danvers Electric Utility/Dec 31						
Firm Power	--	--	--	--	3,457	174,117
Total Power	--	--	--	--	3,457	174,117
Hingham Municipal Lighting Pla/Dec 31						
Firm Power	--	--	--	--	261	55,020
Total Power	--	--	--	--	261	55,020
Holyoke Gas and Electric Dept/Dec 31						
Other Power	--	--	--	--	5,832	144,164
Total Power	--	--	--	--	5,832	144,164
Littleton Town of/Dec 31						
Firm Power	--	--	--	--	11,647	438,142
Total Power	--	--	--	--	11,647	438,142
Mansfield Electric Light Dept/Dec 31						
Other Power	--	--	--	--	6,456	247,927
Total Power	--	--	--	--	6,456	247,927
Middleborough Town of/Dec 31						
Firm Power	--	--	--	--	112	40,213
Total Power	--	--	--	--	112	40,213
North Attleborough Elec Dept/Dec 31						
Firm Power	--	--	--	--	201	88,797
Total Power	--	--	--	--	201	88,797
Reading City of/Dec 31						
Firm Power	--	--	390	43,971	632	64,412
Total Power	--	--	390	43,971	632	64,412
Shrewsbury Town of/Dec 31						
Firm Power	--	--	1,329	108,073	1,329	108,073
Total Power	--	--	1,329	108,073	1,329	108,073
Taunton Municipal Light Plant/Dec 31						
Firm Power	--	--	13,987	265,588	26,741	665,159
Other Power	--	--	23,680	3,280,445	23,680	3,280,445
Total Power	--	--	37,667	3,546,033	50,421	3,945,604
Westfield City of/Dec 31						
Firm Power	--	--	7,321	614,541	9,369	1,815,648
Total Power	--	--	7,321	614,541	9,369	1,815,648
Michigan						
Grand Haven City of/Jun 30						
Firm Power	131,828	3,305,020	--	--	131,828	3,305,020
Total Power	131,828	3,305,020	--	--	131,828	3,305,020
Lansing Board of Water & Light/Jun 30						
Firm Power	5,381	308,290	80,708	2,867,589	181,510	5,762,711
Nonfirm Power	--	--	--	--	6,133	140,843
Total Power	5,381	308,290	80,708	2,867,589	187,643	5,903,554
Marquette City of/Jun 30						
Firm Power	10,386	636,969	--	--	10,386	636,969
Nonfirm Power	--	--	--	--	189	7,568
Other Power	--	--	--	--	2,799	2,260,232
Total Power	10,386	636,969	--	--	13,374	2,904,769
Traverse City City of/Jun 30						
Nonfirm Power	6,747	114,872	--	--	6,747	114,872
Total Power	6,747	114,872	--	--	6,747	114,872
Minnesota						
Austin Utilities/Dec 31						
Firm Power	--	--	--	--	6,936	1,631,243
Total Power	--	--	--	--	6,936	1,631,243
Fairmont Public Utilities Comm/Dec 31						
Other Power	--	--	--	--	719	31,768
Total Power	--	--	--	--	719	31,768
Hutchinson Utilities Comm/Dec 31						
Nonfirm Power	--	--	1	30	17	510
Total Power	--	--	1	30	17	510
Rochester Public Utilities/Dec 31						
Firm Power	--	--	--	--	199,620	8,627,123
Total Power	--	--	--	--	199,620	8,627,123
Western Minnesota Mun P Agny/Dec 31						
Firm Power	--	--	--	--	1,948,458	40,093,845
Total Power	--	--	--	--	1,948,458	40,093,845

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1992 (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)
Mississippi						
Clarksdale Water & Light Dept/Sep 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Greenwood Utilities Commission/Sep 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Municipal Energy Agency of MS/Sep 30						
Firm Power	--	--	--	--	99,314	3,427,491
Total Power	--	--	--	--	99,314	3,427,491
Missouri						
Independence City of/Jun 30						
Firm Power	1,807	59,063	--	--	--	--
Nonfirm Power	10,620	182,172	--	--	--	--
Other Power	--	805,000	--	--	--	--
Total Power	12,427	1,046,235	--	--	--	--
Sikeston Board of Mun Utils/May 31						
Firm Power	--	--	--	--	--	--
Nonfirm Power	--	--	--	--	12,089	210,888
Other Power	--	--	--	--	--	--
Total Power	--	--	--	--	12,089	210,888
Springfield City of/Sep 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	90	4,000	--	--	--	--
Total Power	90	4,000	--	--	--	--
Nebraska						
Fremont City of/Jul 31						
Nonfirm Power	--	--	--	--	4,884	88,907
Total Power	--	--	--	--	4,884	88,907
Grand Island Electric Dept/Jul 31						
Nonfirm Power	--	--	--	--	78,460	1,035,559
Total Power	--	--	--	--	78,460	1,035,559
Hastings Utilities/Dec 31						
Firm Power	--	--	--	--	96,055	1,078,911
Nonfirm Power	--	--	--	--	3,630	59,535
Total Power	--	--	--	--	99,685	1,138,446
Lincoln Electric System/Dec 31						
Firm Power	--	--	--	--	--	--
Nonfirm Power	480,979	6,931,239	79,547	1,155,786	41,369	590,399
Total Power	480,979	6,931,239	79,547	1,155,786	41,369	590,399
New Mexico						
Farmington City of/Jun 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	265	5,950	5,931	99,961	--	--
Total Power	265	5,950	5,931	99,961	--	--
Los Alamos County of/Jun 30						
Nonfirm Power	19,571	358,675	--	--	9,540	168,003
Total Power	19,571	358,675	--	--	9,540	168,003
New York						
Jamestown City of/Dec 31						
Firm Power	165,565	4,277,105	--	--	--	--
Total Power	165,565	4,277,105	--	--	--	--
North Carolina						
Fayetteville Public Works Comm/Jun 30						
Nonfirm Power	843	20,635	--	--	--	--
Total Power	843	20,635	--	--	--	--
Greenville Utilities Comm/Jun 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Rocky Mount City of/Jun 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Wilson City of/Jun 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1992 (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)
Mississippi						
Clarksdale Water & Light Dept/Sep 30						
Firm Power	--	--	78,035	2,302,796	78,035	2,302,796
Total Power	--	--	78,035	2,302,796	78,035	2,302,796
Greenwood Utilities Commission/Sep 30						
Firm Power	--	--	11,508	932,818	11,508	932,818
Total Power	--	--	11,508	932,818	11,508	932,818
Municipal Energy Agency of MS/Sep 30						
Firm Power	--	--	673,120	24,040,373	772,434	27,467,864
Total Power	--	--	673,120	24,040,373	772,434	27,467,864
Missouri						
Independence City of/Jun 30						
Firm Power	--	--	--	--	1,807	59,063
Nonfirm Power	120	1,901	--	--	10,740	184,073
Other Power	--	--	--	--	--	805,000
Total Power	120	1,901	--	--	12,547	1,048,136
Sikeston Board of Mun Utils/May 31						
Firm Power	--	--	661,550	28,947,452	661,550	28,947,452
Nonfirm Power	--	--	533,154	9,535,522	545,243	9,746,210
Other Power	9,653	2,032,237	74,054	2,604,732	83,707	4,636,969
Total Power	9,653	2,032,237	1,268,758	41,087,706	1,290,500	43,330,631
Springfield City of/Sep 30						
Firm Power	--	--	51,195	2,873,000	51,195	2,873,000
Nonfirm Power	--	--	--	--	90	4,000
Total Power	--	--	51,195	2,873,000	51,285	2,877,000
Nebraska						
Fremont City of/Jul 31						
Nonfirm Power	--	--	--	--	4,884	88,907
Total Power	--	--	--	--	4,884	88,907
Grand Island Electric Dept/Jul 31						
Nonfirm Power	--	--	--	--	78,460	1,035,559
Total Power	--	--	--	--	78,460	1,035,559
Hastings Utilities/Dec 31						
Firm Power	--	--	--	--	96,055	1,078,911
Nonfirm Power	--	--	--	--	3,630	59,535
Total Power	--	--	--	--	99,685	1,138,446
Lincoln Electric System/Dec 31						
Firm Power	--	--	80,261	2,151,386	80,261	2,151,386
Nonfirm Power	336,826	3,996,954	625	8,740	939,346	12,683,118
Total Power	336,826	3,996,954	80,886	2,160,126	1,019,607	14,834,504
New Mexico						
Farmington City of/Jun 30						
Firm Power	--	--	15,692	906,016	15,692	906,016
Nonfirm Power	--	--	--	--	6,196	105,911
Total Power	--	--	15,692	906,016	21,888	1,011,927
Los Alamos County of/Jun 30						
Nonfirm Power	250	3,525	6,673	111,585	36,034	641,788
Total Power	250	3,525	6,673	111,585	36,034	641,788
New York						
Jamestown City of/Dec 31						
Firm Power	--	--	--	--	165,565	4,277,105
Total Power	--	--	--	--	165,565	4,277,105
North Carolina						
Fayetteville Public Works Comm/Jun 30						
Nonfirm Power	--	--	--	--	843	20,635
Total Power	--	--	--	--	843	20,635
Greenville Utilities Comm/Jun 30						
Firm Power	--	--	23,700	1,801,962	23,700	1,801,962
Total Power	--	--	23,700	1,801,962	23,700	1,801,962
Rocky Mount City of/Jun 30						
Firm Power	--	--	15,872	988,941	15,872	988,941
Total Power	--	--	15,872	988,941	15,872	988,941
Wilson City of/Jun 30						
Firm Power	--	--	56,166	4,387,091	56,166	4,387,091
Total Power	--	--	56,166	4,387,091	56,166	4,387,091

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1992 (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)
Ohio						
American Mun Power-Ohio Inc/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Bowling Green City of/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Columbus Dept of Pub Service/Dec 31						
Nonfirm Power	988	5,911	--	--	--	--
Total Power	988	5,911	--	--	--	--
Hamilton Dept of Public Utils/Dec 31						
Firm Power	--	--	--	--	--	--
Nonfirm Power	38,048	233,690	--	--	--	--
Total Power	38,048	233,690	--	--	--	--
Orville City of/Dec 31						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
St Marys City of/Dec 31						
Other Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Oregon						
Ashland City of/Jun 30						
Firm Power	1,562	47,601	--	--	--	--
Total Power	1,562	47,601	--	--	--	--
Eugene City of/Dec 31						
Firm Power	138,571	3,624,441	72,700	1,996,606	29,777	707,670
Total Power	138,571	3,624,441	72,700	1,996,606	29,777	707,670
South Carolina						
Piedmont Municipal Power Agny/Dec 31						
Firm Power	--	--	--	--	--	--
Other Power	1,606,944	81,608,000	--	--	--	--
Total Power	1,606,944	81,608,000	--	--	--	--
South Dakota						
Pierre Municipal Electric/Dec 31						
Firm Power	--	--	--	--	12,182	219,542
Total Power	--	--	--	--	12,182	219,542
Texas						
Austin City of/Sep 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	91,116	1,087,979	--	--	--	--
Total Power	91,116	1,087,979	--	--	--	--
Bryan City of/Sep 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Denton City of/Sep 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Garland City of/Sep 30						
Firm Power	--	--	--	--	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Greenville Electric Uti Sys/Sep 30						
Firm Power	--	84,084	--	--	--	--
Nonfirm Power	--	--	--	--	--	--
Total Power	--	84,084	--	--	--	--
San Antonio City of/Jan 31						
Firm Power	--	--	--	--	--	--
Other Power	93,127	1,714,941	--	--	6,567	113,236
Total Power	93,127	1,714,941	--	--	6,567	113,236
Texas Municipal Power Agency/Sep 30						
Firm Power	--	--	--	--	--	--
Total Power	--	--	--	--	--	--
Vermont						
Burlington City of/Dec 31						
Firm Power	24,048	4,165,449	--	--	19,293	1,224,030
Total Power	24,048	4,165,449	--	--	19,293	1,224,030

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1992 (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)
Ohio						
American Mun Power-Ohio Inc/Dec 31						
Firm Power	—	—	3,730,661	129,859,996	3,730,661	129,859,996
Total Power	—	—	3,730,661	129,859,996	3,730,661	129,859,996
Bowling Green City of/Dec 31						
Firm Power	—	—	3,454	151,506	3,454	151,506
Total Power	—	—	3,454	151,506	3,454	151,506
Columbus Dept of Pub Service/Dec 31						
Nonfirm Power	—	—	—	—	988	5,911
Total Power	—	—	—	—	988	5,911
Hamilton Dept of Public Utile/Dec 31						
Firm Power	—	—	44,812	1,878,270	44,812	1,878,270
Nonfirm Power	—	—	—	—	38,046	233,690
Total Power	—	—	44,812	1,878,270	82,858	2,111,960
Orville City of/Dec 31						
Firm Power	—	—	115,279	2,841,760	115,279	2,841,760
Total Power	—	—	115,279	2,841,760	115,279	2,841,760
St Marys City of/Dec 31						
Other Power	—	—	4,463	164,610	4,463	164,610
Total Power	—	—	4,463	164,610	4,463	164,610
Oregon						
Ashland City of/Jun 30						
Firm Power	—	—	—	—	1,562	47,601
Total Power	—	—	—	—	1,562	47,601
Eugene City of/Dec 31						
Firm Power	—	—	4,738	116,163	245,786	6,444,880
Total Power	—	—	4,738	116,163	245,786	6,444,880
South Carolina						
Piedmont Municipal Power Agncy/Dec 31						
Firm Power	—	—	1,487,316	72,652,000	1,487,316	72,652,000
Other Power	—	—	—	—	1,608,944	81,608,000
Total Power	—	—	1,487,316	72,652,000	3,094,260	154,260,000
South Dakota						
Pierre Municipal Electric/Dec 31						
Firm Power	—	—	—	—	12,182	219,542
Total Power	—	—	—	—	12,182	219,542
Texas						
Austin City of/Sep 30						
Firm Power	—	—	166,533	3,583,993	166,533	3,583,993
Nonfirm Power	6,316	97,649	13,893	192,263	111,325	1,377,891
Total Power	6,316	97,649	180,426	3,776,256	277,858	4,961,884
Bryan City of/Sep 30						
Firm Power	—	—	392,842	16,733,959	392,842	16,733,959
Nonfirm Power	—	—	156,447	3,757,439	156,447	3,757,439
Total Power	—	—	549,289	20,491,398	549,289	20,491,398
Denton City of/Sep 30						
Firm Power	—	—	104,358	3,489,210	104,358	3,489,210
Total Power	—	—	104,358	3,489,210	104,358	3,489,210
Garland City of/Sep 30						
Firm Power	233,667	4,461,871	204,718	7,259,072	438,385	11,720,943
Nonfirm Power	—	—	145,190	3,831,380	145,190	3,831,380
Total Power	233,667	4,461,871	349,908	11,090,452	583,575	15,552,323
Greenville Electric Utl Sys/Sep 30						
Firm Power	14,543	548,614	32,294	1,745,217	46,837	2,377,915
Nonfirm Power	—	—	2,382	39,101	2,382	39,101
Total Power	14,543	548,614	34,676	1,784,318	49,219	2,417,016
San Antonio City of/Jan 31						
Firm Power	—	—	205,758	8,545,895	205,758	8,545,895
Other Power	19,034	359,180	4,061	71,563	122,789	2,258,920
Total Power	19,034	359,180	209,819	8,617,458	328,547	10,804,815
Texas Municipal Power Agency/Sep 30						
Firm Power	—	—	2,818,728	139,627,301	2,818,728	139,627,301
Total Power	—	—	2,818,728	139,627,301	2,818,728	139,627,301
Vermont						
Burlington City of/Dec 31						
Firm Power	128	4,745	48,444	944,449	91,913	6,338,673
Total Power	128	4,745	48,444	944,449	91,913	6,338,673

See notes and footnotes at end of table.

Table 30. Electricity Sales for Resale by Municipal Utilities, Fiscal Year 1992 (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)
Washington						
Seattle City Light/Dec 31						
Firm Power	—	—	—	—	209,730	637,962
Nonfirm Power	110,900	2,034,513	32,467	829,213	30,930	634,824
Total Power	110,900	2,034,513	32,467	829,213	240,660	1,272,786
Tacoma Dept of Public Utils/Dec 31						
Firm Power	—	—	370,426	15,207,856	—	—
Nonfirm Power	—	—	—	—	—	—
Total Power	—	—	370,426	15,207,856	—	—

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)

Washington					
Seattle City Light/Dec 31					
Firm Power	—	—	—	209,730	637,962
Nonfirm Power	—	—	7,520	139,788	3,638,338
Total Power	—	—	7,520	391,547	4,276,300
Tacoma Dept of Public Utils/Dec 31					
Firm Power	—	—	6,617	377,043	15,349,211
Nonfirm Power	—	—	405,467	405,467	7,420,893
Total Power	—	—	412,084	782,510	22,770,104

¹ Includes transactions with municipal utilities, 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, 1992**

State / Utility	Source of Electricity (Purchases in thousand kWh)						
	Investor- Owned	Federal	State and Other Government	Municipal	Cooperative	Other ¹	Total
Alabama							
Brundage City of	--	--	--	--	25,000	--	25,000
Elba City of	--	--	--	--	47,443	--	47,443
Opp Utilities Board	--	--	--	--	71,407	--	71,407
Alaska							
Eagle Village Energy Systems	--	--	--	--	--	57	57
Kokhanok Village Council	--	--	73	--	--	--	73
Ouzinkie City of	--	--	--	--	--	355	355
Colorado							
Granada Town of	--	--	--	2,514	--	--	2,514
Illinois							
Fairfield City of	--	--	--	--	67,891	--	67,891
McLeansboro City of	--	--	--	--	19,193	--	19,193
Red Bud City of	--	--	--	--	32,347	--	32,347
Indiana							
Cannelton City of	--	--	--	18,461	--	--	18,461
Troy Municipal Electric Util	--	--	--	9,667	--	--	9,667
Iowa							
Aplington City of	5,176	--	--	--	--	--	5,176
Bancroft City of	--	--	--	--	9,784	--	9,784
Brooklyn City of	--	--	--	--	10,032	--	10,032
Cascade Municipal Utilities	--	--	--	--	12,839	--	12,839
Coggon City of	--	--	--	--	3,307	--	3,307
Corwith City of	--	--	--	--	2,343	--	2,343
Dayton City of	--	--	--	--	5,071	--	5,071
Durant City of	--	--	--	--	12,382	--	12,382
Earville City of	--	--	--	--	3,920	--	3,920
Ellsworth Municipal Electric	--	--	--	--	5,699	--	5,699
Farnhamville City of	--	--	--	--	4,543	--	4,543
Gowrie Municipal Utilities	--	--	--	--	6,693	--	6,693
Greenfield Municipal Utilities	--	--	--	--	23,781	--	23,781
Grundy Center City of	--	--	--	--	22,965	--	22,965
Indianola Mun Wtr & Elec Util	--	--	82,523	--	--	--	82,523
Keosauqua City of	--	--	--	--	9,440	--	9,440
Lake Mills City of	--	--	--	--	28,272	--	28,272
Lamoni Municipal Utilities	--	--	--	--	17,377	--	17,377
Larchwood City of	--	--	--	--	4,244	--	4,244
Lehigh City of	--	--	--	--	2,142	--	2,142
New Hampton Mun Light Plant	--	--	--	--	53,467	--	53,467
Paton Electrical Department	--	--	--	--	1,986	--	1,986
Renwick City of	--	--	--	--	2,925	--	2,925
Stanton Elect Distribution Sys	--	--	--	--	6,282	--	6,282
Stratford City of	--	--	--	--	4,674	--	4,674
Sumner Municipal Light Plant	--	--	--	--	14,584	--	14,584
Tennant City of	--	--	--	298	--	--	298
Webster City City of	--	--	--	--	115,200	--	115,200
West Bend City of	--	--	--	--	12,598	--	12,598
Westfield Town of	--	--	--	--	682	--	682
Wilton City of	--	--	--	--	19,252	--	19,252
Winterset City of	--	--	--	--	32,875	--	32,875
Woolstock City of	--	--	--	1,460	--	--	1,460
Kansas							
Colby City of	--	--	--	--	47,716	--	47,716
Dighton City of	--	--	--	--	9,101	--	9,101
Herndon City of	--	--	--	--	1,050	--	1,050
Hill City City of	--	--	--	--	12,917	--	12,917
Iuka City of	--	--	--	1,663	--	--	1,663
Jetmore City of	--	--	--	--	6,574	--	6,574
Johnson City of	--	--	--	--	9,793	--	9,793
Kiowa City of	--	--	--	--	9,222	--	9,222
La Crosse City of	--	--	--	--	9,200	--	9,200

See notes and footnotes at end of table.

Table 31. Electricity Purchases by Publicly Owned Utilities Not Reported on Form EIA-412, by State, 1992 (Continued)

State / Utility	Source of Electricity (Purchases in thousand kWh)						Total
	Investor- Owned	Federal	State and Other Government	Municipal	Cooperative	Other ¹	
Kansas							
Lakin City of	--	--	--	--	5,584	--	5,584
Meade City of	--	--	--	--	5,808	--	5,808
Norton City of	--	--	--	--	24,058	--	24,058
Oakley City of	--	--	--	--	17,970	--	17,970
Radium City of	--	--	--	--	703	--	703
Seward City of	--	--	--	--	385	--	385
Minnesota							
Alpha City of	--	--	--	--	1,052	--	1,052
Alvarado City of	--	--	--	--	3,166	--	3,166
Bigelow City of	--	--	--	1,782	--	--	1,782
Blwabik Public Utilities	--	--	--	--	6,174	--	6,174
Brewster City of	--	1,575	1,575	--	--	--	3,150
Caledonia Mun Light&Power Dept	--	--	--	--	17,334	--	17,334
Ceylon City of	--	--	--	--	2,607	--	2,607
Darwin Village of	--	--	--	1,880	--	--	1,880
Dunnet Village of	--	--	--	--	1,008	--	1,008
Eitzen City of	--	--	--	--	2,153	--	2,153
Grove City City of	--	--	--	5,715	--	--	5,715
Harmony City of	--	--	--	--	6,936	--	6,936
Mabel City of	--	--	--	--	4,122	--	4,122
Nashwauk Public Utilities Dept	--	--	--	--	5,890	--	5,890
Peterson Electric System	--	--	--	--	1,371	--	1,371
Proctor Public Utilities Comm	15,791	--	--	--	--	--	15,791
Round Lake City of	--	--	--	--	7,510	--	7,510
Rushmore City of	--	--	--	1,845	--	--	1,845
Spring Grove City of	--	--	--	--	14,200	--	14,200
Whalan City of	--	--	--	--	416	--	416
Missouri							
Albany City of	--	--	--	3,963	10,000	--	13,963
Ava City of	--	--	--	--	36,263	--	36,263
Bethany City of	--	--	--	--	27,922	--	27,922
Butler City of	--	--	--	--	24,923	--	24,923
Cabool City of	--	--	--	--	31,487	--	31,487
Cameron City of	--	--	--	--	38,137	--	38,137
Chillicothe Municipal Utils	--	--	--	--	80,303	--	80,303
Crane City of	--	--	--	--	12,000	--	12,000
Cuba City of	--	--	--	--	38,120	--	38,120
Easton City of	--	--	--	--	1,316	--	1,316
Fayette City of	--	--	--	--	17,581	--	17,581
Gallatin City of	--	--	--	7,327	10,000	--	17,327
Houston City of	--	--	--	--	27,300	--	27,300
Hunnewell City of	--	--	--	--	879	--	879
La Plata City of	--	--	--	--	22,261	--	22,261
Macon City of	--	--	--	--	74,952	--	74,952
Mansfield City of	--	--	--	--	23,787	--	23,787
Meadville City of	--	--	--	--	2,000	--	2,000
Memphis City of	--	--	--	14,881	--	--	14,881
Milan City of	--	--	--	--	27,666	--	27,666
Monroe City City of	--	--	--	--	49,545	--	49,545
Mountain View City of	--	--	--	--	29,525	--	29,525
Newburg City of	--	--	--	--	3,725	--	3,725
Osceola City of	--	--	--	--	5,320	--	5,320
Palmyra City of	--	--	--	--	29,689	--	29,689
Paris City of	--	--	--	--	11,110	--	11,110
Pattonsburg City of	--	--	--	--	3,424	--	3,424
Richland City of	--	--	--	--	16,700	--	16,700
Rockport City of	--	--	--	--	10,921	--	10,921
Salem City of	--	--	--	--	47,300	--	47,300
Seymour City of	--	--	--	--	19,056	--	19,056
Shelbina City of	--	--	--	--	24,589	--	24,589
St Robert City of	--	--	--	--	30,381	--	30,381
Stanberry City of	--	--	--	--	9,383	--	9,383
Steelville Municipal Utilities	--	--	--	--	16,841	--	16,841
Sullivan Municipal Util	--	--	--	--	74,883	--	74,883

See notes and footnotes at end of table.

Table 31. Electricity Purchases by Publicly Owned Utilities Not Reported on Form EIA-412, by State, 1992 (Continued)

State / Utility	Source of Electricity (Purchases in thousand kWh)						
	Investor-Owned	Federal	State and Other Government	Municipal	Cooperative	Other ¹	Total
Missouri							
Unionville City of	--	--	--	14,589	--	--	14,589
Vandalia City of	--	--	--	7,879	7,879	--	15,758
Waynesville City of	--	--	--	--	26,628	--	26,628
Willow Springs City of	--	--	--	--	24,087	--	24,087
Winona City of	--	--	--	--	8,476	--	8,476
Nebraska							
Bartley Village of	--	--	1,718	--	--	--	1,718
Decatur Village of	--	--	4,622	--	--	--	4,622
Emerson City of	--	--	4,894	--	--	--	4,894
Endicott Village of	--	--	--	647	--	--	647
Northwest Rural Pub Pwr Dist	--	--	--	--	50,300	--	50,300
Panama Village of	--	--	--	1,293	--	--	1,293
Reynolds Village of	--	--	--	580	--	--	580
Roosevelt Public Power Dist	--	--	--	--	42,880	--	42,880
St Paul City of	--	--	14,793	--	--	--	14,793
Stromsburg Electric Department	--	--	10,004	--	--	--	10,004
Talmage Village of	--	--	--	2,400	--	--	2,400
Nevada							
Alamo Power District No 3 ²	--	--	10,747	--	--	--	10,747
Caliente Public Utilities	--	--	13,157	--	--	--	13,157
Pioche Public Utilities	--	--	6,445	--	--	--	6,445
New Mexico							
Springer Town of	--	--	--	--	4,998	--	4,998
North Carolina							
Fountain City of	--	--	--	6,778	--	--	6,778
Oak City Town of	--	--	--	--	3,485	--	3,485
Ohio							
Woodsfield Board of Public Aff	--	--	--	--	21,111	--	21,111
Oklahoma							
Anadarko Public Works Auth	--	--	--	--	56,702	--	56,702
Braman Town of	--	--	--	1,615	--	--	1,615
Burlington City of	--	--	--	--	1,439	--	1,439
Fort Supply Electric Dept	--	--	--	--	2,255	--	2,255
Lindsay Public Works Authority	--	--	--	--	22,354	--	22,354
Moorsland City of	--	--	--	--	8,398	--	8,398
South Dakota							
Elk Point City of	--	--	--	--	11,199	--	11,199
Onida City of	--	--	--	--	6,159	--	6,159
Texas							
Electra City of	--	--	--	--	19,059	--	19,059
Garrison Electric Department	--	--	--	--	8,295	--	8,295
Granbury City of	--	--	--	--	60,996	--	60,996
Hearne City of	--	--	--	--	40,719	--	40,719
Hemphill City of	--	--	--	--	15,839	--	15,839
Plains City of	--	--	--	--	5,874	--	5,874
San Augustine City of	--	--	--	--	21,362	--	21,362
Sanger City of	--	--	--	--	27,000	--	27,000
Seymour City of	--	--	--	--	26,359	--	26,359
Timpson City of	--	--	--	--	9,153	--	9,153
Utah							
Enterprise City of	--	--	6,918	--	--	--	6,918
Ephraim City of	--	--	--	--	--	15,986	15,986
Fairview City Corporation	--	--	--	--	--	5,134	5,134
Heber Light & Power Company	--	43,995	--	--	--	--	43,995
Holden Town of	--	3,442	--	--	--	--	3,442
Hurricane Power Committee	--	--	26,902	--	--	--	26,902
Hyrum City Corporation	--	11,483	45,105	--	--	--	56,588

See notes and footnotes at end of table.

Table 31. Electricity Purchases by Publicly Owned Utilities Not Reported on Form EIA-412, by State, 1992 (Continued)

State / Utility	Source of Electricity (Purchases in thousand kWh)						
	Investor- Owned	Federal	State and Other Government	Municipal	Cooperative	Other ¹	Total
Utah							
Kanosh Town of	--	--	1,892	--	--	--	1,892
Kaysville City Corp Elec Dept	--	--	--	--	--	25,606	25,606
Lehi City City of	--	--	--	--	--	30,684	30,684
Meadow Town Corporation	--	--	1,454	--	--	700	2,154
Monroe City City of	--	--	--	--	--	6,130	6,130
Mt Pleasant City of	--	--	5,201	--	--	6,180	11,381
Oak City Town of	--	--	2,650	--	--	294	2,944
Paragonah Town of	--	--	521	--	--	1,054	1,575
Parowan City Corporation	--	6,184	4,073	--	--	--	10,257
Payson City Corporation	--	--	10,000	--	--	36,807	46,807
Spring City Corporation	700	803	--	--	--	--	1,503
Wyoming							
Basin Town of	--	--	--	--	8,742	--	8,742
Midvale Irrigation District	--	--	--	--	237	--	237

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

² Source of data is Rural Electrification Administration, REA Form 7, "Financial and Statistical Report."

-- 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, 1992
(Thousand Kilowatthours)

Public Authority / State / Utility	Exchanges		Wheeling	
	Received	Delivered	Received	Delivered
Federal				
Alaska				
Alaska Power Administration	--	--	303,522	303,522
Colorado				
Western Area Power Admin	1,841,000	1,269,000	6,144,038	6,144,038
Georgia				
Southeastern Power Admin	185	--	4,154,527	4,154,527
Oklahoma				
Southwestern Power Admin	412,210	694,502	--	--
Oregon				
Bonneville Power Admin	13,926,757	20,815,831	39,611,596	37,213,924
Tennessee				
Tennessee Valley Authority	22,509,076	26,795,816	1,611,167	1,565,429
State and Other Government				
California				
California Dept-Wtr Resources	4,038,007	1,470,477	--	--
Colorado				
Platte River Power Authority	12,865	56,973	--	--
Connecticut				
Connecticut Mun Elec Engy Coop	318,764	21,781	--	--
Georgia				
Municipal Electric Authority	--	--	822,455	777,220
Massachusetts				
Massachusetts Mun Whls Elec Co	774,820	402,384	--	--
Michigan				
Michigan South Central Pwr Agy	--	854	--	--
Oklahoma				
Grand River Dam Authority	135,726	1,439,228	1,045	1,045
South Carolina				
South Carolina Pub Serv Auth	39,388	45,864	445,716	439,327
South Dakota				
Missouri Basin Mun Power Agny	67,222	198	--	--
Texas				
Toledo Bend Project Joint Oper	908	908	--	--
Utah				
Utah Associated Mun Power Sys	23,649	16,419	--	--
Wyoming				
Wyoming Municipal Power Agency	3,912	2,268	--	--
Municipal				
Alaska				
Ketchikan City of	81	--	--	--
Wrangell City of	1,468	3,352	--	--
California				
Anaheim City of	18,013	47,795	--	--
Burbank City of	23,295	56,706	--	--
Lassen Municipal Utility Dist	--	--	196,722	196,722
Los Angeles City of	438,555	1,074,855	12,814,463	12,765,840
Metropolitan Water District	--	28,220	--	--
Santa Clara City of	--	--	214,246	211,161
Turlock Irrigation District	1,401	1,192	69	1,107
Colorado				
Colorado Springs City of	2,326	15,805	27,149	27,149
Lamar City of	--	--	7,911	7,911
Longmont City of	--	--	6,648	6,644
Connecticut				
South Norwalk City of	1,120	104	--	--
Delaware				
Dover City of	240,638	40,244	--	--
Florida				
Lakeland City of	266,948	968,000	--	--
Ocala City of	--	--	17,096	17,096
Orlando Utilities Comm	--	--	333,524	325,343

See notes and footnotes at end of table.

Table 32. Electricity Exchanges and Wheeling by Publicly Owned Utilities, 1992
(Thousand Kilowatthours) (Continued)

Public Authority / State / Utility	Exchanges		Wheeling	
	Received	Delivered	Received	Delivered
Municipal				
Iowa				
Ames City of	907	719	--	--
Harlan City of	2,502	1,748	--	--
Muscatine City of	--	--	145	397
Pella City of	5,700	5,900	--	--
Idaho				
Rupert City of	--	--	126	126
Kansas				
Kansas City City of	37	11,333	--	--
Louisiana				
Lafayette City of	26,238	26,226	--	--
Massachusetts				
Ashburnham Town of	5,767	5,008	--	--
Braintree Town of	49,456	63,481	--	--
Chicopee City of	67,011	2,266	--	--
Danvers Town of	78,075	56,669	--	--
Georgetown City of	4,123	408	--	--
Groton City of	11,162	4,689	--	--
Hingham City of	16,549	2,538	--	--
Holyoke City of	14,636	51,912	--	--
Hudson Town of	37,861	25,484	--	--
Hull Town of	7,093	11,893	--	--
Ipswich Town of	36,029	4,645	--	--
Littleton Town of	83,549	11,776	--	--
Mansfield Town of	70,387	28,111	--	--
Marblehead City of	15,061	614	--	--
Middleborough Town of	--	2,278	--	--
Middleton City of	7,599	2,029	--	--
North Attleborough Town of	80,748	21,721	--	--
Paxton Town of	5,811	4,250	--	--
Peabody City of	133,804	81,899	--	--
Princeton Town of	--	--	3,274	2,855
Reading Town of	128,583	69,203	--	--
South Hadley Town of	25,096	13,224	--	--
Taunton City of	297,002	13,987	--	--
West Boylston Town of	14,803	8,270	--	--
Maryland				
Easton Utilities Comm	179,057	308	--	--
Michigan				
Lansing City of	65,778	65,919	--	--
Missouri				
Bethany City of	--	--	536	343
Independence City of	744,200	743,838	--	--
Sikeston City of	141,855	64,077	--	--
Springfield City of	41,541	88,829	--	--
North Carolina				
Fayetteville Public Works Comm	44,164	135	--	--
Nebraska				
Grand Island City of	1,099	1,032	--	--
Hastings City of	--	--	5,228	5,228
Lincoln Electric System	--	129	105,494	105,494
Wayne City of	--	--	1,892	1,778
New Hampshire				
Ashland Town of	--	--	617	617
New Mexico				
Farmington City of	13,551	1,093	9,921	9,921
Los Alamos County	65,606	47,290	--	--
New York				
Springville Village of	--	--	55,740	55,183
Ohio				
American Mun Power-Ohio Inc	--	--	149,389	149,389
Columbus City of	--	--	298,376	298,376
Hamilton City of	10,712	18,695	--	--
New Knoxville Village of	--	--	1,511	1,511
Painesville City of	1,705	7,464	--	--
St Marys City of	1,169	1,448	--	--

See notes and footnotes at end of table.

Table 32. Electricity Exchanges and Wheeling by Publicly Owned Utilities, 1992
(Thousand Kilowatthours) (Continued)

Public Authority / State / Utility	Exchanges		Wheeling	
	Received	Delivered	Received	Delivered
Municipal				
Oregon				
Eugene City of	117,903	319,065	--	--
South Carolina				
Piedmont Municipal Power Agny	187,983	219,238	--	--
Texas				
Austin City of	59,580	46,104	24,514	22,885
Bryan City of	184,336	185,587	--	--
San Antonio City of	956,905	937,971	--	--
Utah				
Logan City of	--	--	5,601	5,601
Vermont				
Barton Village Inc	758	758	--	--
Morrisville Village of	7,550	5,121	--	--
Orleans Village of	301	1,315	--	--
Washington				
Seattle City of	5,932,411	5,935,697	51,381	51,381
Tacoma City of	95,676	128,221	1,227,049	1,227,049

-- Not Applicable

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

4. Bulk Power Transactions by Cooperative Borrowers

Overview

This chapter presents electric trade data for participants in the U. S. Department of Agriculture's Rural Electrification Administration (REA) 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. Coopera-

tive borrowers are required to provide REA with financial and operational data to support the REA loan management program. The cooperative borrowers represent nearly all the cooperatives in the country.⁸

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.

Figure 14. Electricity Purchases by Cooperative Borrowers by State, 1992

Source: Rural Electrification Administration, REA Form 7, "Financial and Statistical Report," REA Form 12a through 12l, "Electric Power Supply Borrowers," REA Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities."

⁸There have been fewer than 50 REA borrowers that have paid off their loans. Those utilities are not required to file the REA forms.

- Dividends on member capital are limited.
- Education is necessary for understanding and support.⁹

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 REA 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, REA computerizes only individual utility transactions with other utilities for purchased power (Figure 14). Therefore, data on sales for resale are not presented in this chapter. Because REA 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 REA 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 pre-

Figure 15. Electricity Purchase Costs by Cooperative Borrowers by State, 1992

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

⁹Information 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.

Figure 16. Electricity Purchases and Costs by the Top Ten Cooperative Borrowers, 1992

Notes: Number appearing next to utility location indicates rank by kilowatthours (kWh) purchased. Old Dominion Electric Coop is no longer an REA borrower and does not file a Form 12; source of data is FERC Form 1.

Source: Rural Electrification Administration, REA Form 7, "Financial and Statistical Report," REA Form 12a through 12l, "Electric Power Supply Borrowers," REA Form 12c through 12g, "Electric Distribution Borrowers with Generating Facilities."

sented 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 (Figure 15). 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.

Highlights

As a group, power supply cooperatives purchased more electricity than the average distribution cooperative. However, in ranking purchases of electricity by cooperatives, the top 20 in both classes of cooperatives each purchased more than 1 billion kilowatthours.

(The power supply cooperatives acquired nearly 60 billion kilowatthours while the top 20 distribution bought slightly less than 36 billion kilowatthours.) In addition, 13 of the top 20 distribution cooperatives are located in just 5 States in the Southeast (Georgia, Florida, Kentucky, Tennessee and Virginia). Of all power purchased by the top 20 distribution cooperatives, 73.9 percent was purchased by these 13 cooperative utilities (Tables 33, 34, and 35), which reflects a strong regional strength for cooperative utilities (Figure 16).

The most purchases made by a distribution cooperative in 1992 totaled 4.2 billion kilowatthours by the Green River Electric Corporation of Kentucky. That electricity cost \$132.9 million, which was also the largest total payments made by a distribution cooperative in 1992. The State of Kentucky also had another cooperative in the top five. Henderson-Union Rural Electric Cooperative Corporation was second in amount of purchases but fourth in the cost of those purchases. It paid \$105.7 million for 3.4 billion kilowatthours. In third place for the amount of electricity purchased, as in 1990, was the Middle Tennessee Electric Membership Corporation. This cooperative ranked fifth in total cost, buying 2.5 billion kilowatthours for \$102.9 mil-

Figure 17. Electricity Purchases by Cooperative Borrowers, 1992

Note: Areas with no shading are not served by cooperatives.

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

lion. Of the other top five power purchasers, the Southern Maryland Electric Cooperative bought 2.1 billion kilowatthours for \$96.6 million and was followed by the Withlacoochee River Electric Cooperative of Florida which purchased just under 2.0 billion kilowatthours for \$114.9 million.

Purchases by power supply cooperatives showed a similar pattern of regional concentrations. Of the top 20 power supply cooperatives, 9 are centered in the States of Missouri, Texas, South Carolina and Kentucky. While most of the top 20 power supply cooperatives are located east of the Mississippi River, the first 3 are in the Southeastern coastal States. The largest power supply cooperative purchaser by quantity was the North Carolina Electric Membership Corporation which spent \$386.7 million for 7.9 billion kilowatthours. It was followed by the Central Electric Power Coop, Inc. of South Carolina which bought 6.7 billion kilowatthours for \$245 million. The third largest purchaser was the Oglethorpe Power Corporation of Georgia. That cooperative spent \$230.5 million for 6.2 billion kilowatthours. The fourth largest purchaser, the Associated Electric Cooperative of Missouri, bought 6 billion kilowatthours but only paid \$111.4 million which illustrates that there can be large differ-

ences in costs among regions. The Brazos Electric Power Cooperative, Inc. of Texas bought 3.4 billion kilowatthours for \$113.9 million and holds the fifth place.

Most cooperative utilities are not very active in implementing exchange or wheeling transactions with other utilities outside their membership. Nevertheless, the Brazos Electric Power Cooperative, Inc. of Texas exchanged over 17 billion kilowatthours and Tri-State Generation & Transmission Assn., Inc. of Colorado exchanged about 1.7 billion kilowatthours. The East Kentucky Power Cooperative provided transmission services (wheeling) for about 1.5 billion kilowatthours (Table 36).

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 (Figure 17).

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, 1992

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	7,138	166,392	371,029	10,048,163	—	—	—
Alaska							
Alaska Electric G & T Coop Inc	—	—	—	—	—	—	—
Arizona							
Arizona Electric Pwr Coop Inc	—	—	—	—	—	—	—
Arkansas							
Arkansas Electric Coop Corp	14,766	353,977	654,726	8,825,138	—	—	—
Colorado							
Tri-State G & T Assn Inc	85,546	1,995,854	2,039,638	38,437,598	18,186	256,709	—
Florida							
Seminole Electric Coop Inc	855,502	65,491,667	—	—	—	—	139,977
Georgia							
Oglethorpe Power Corporation	4,669,282	183,409,058	—	—	—	—	—
Illinois							
Southern Illinois Power Coop	—	—	42,600	842,821	—	—	—
Soyland Power Cooperative Inc	1,739,582	79,044,065	—	—	—	—	—
Indiana							
Hoosier Energy R E C Inc	39,140	1,182,118	—	—	—	—	—
Iowa							
Central Iowa Power Cooperative	—	—	80,665	869,374	—	—	—
Corn Belt Power Cooperative	—	—	139,078	1,481,941	—	—	—
L & O Power Cooperative	—	—	71,234	769,536	—	—	—
Northwest Iowa Power Coop	—	—	283,360	2,608,530	—	—	—
Kansas							
Kansas Electric Power Coop Inc	407,916	22,214,997	377,026	5,602,225	—	—	—
Sunflower Electric Power Corp	—	—	—	—	125,258	1,725,024	4,000
Kentucky							
Big Rivers Electric Corp	19,703	321,292	249,341	5,225,419	—	—	1,211,985
East Kentucky Power Coop Inc	282,597	6,127,159	944,233	16,165,847	—	—	—
Louisiana							
Cajun Electric Power Coop Inc	110,841	2,291,293	277,028	3,975,739	—	—	—
Michigan							
Wolverine Pwr Supply Coop Inc	802,182	30,944,389	—	—	—	—	—
Minnesota							
Cooperative Power Association	6,770	140,806	500,262	5,447,393	2,626	32,694	606
United Power Association	28,543	1,495,297	71,164	963,533	15,919	555,944	2,909
Mississippi							
South Mississippi El Pwr Assn	—	—	274,106	7,915,152	—	—	—
Missouri							
Associated Electric Coop Inc	1,744,560	36,378,799	1,218,287	21,338,666	1,752,302	25,652,964	1,248,322
Central Electric Power Coop	—	—	—	—	—	—	—
M & A Electric Power Coop	—	—	—	—	—	—	—
N W Electric Power Coop Inc	—	—	—	—	—	—	—
Northeast Missouri El Pwr Coop	—	—	—	—	—	—	—
Sho-Me Power Corporation	9,376	391,059	—	—	—	—	—

See notes and footnotes at end of table.

Table 33. Electricity Purchases by the Power Supply Segment of Cooperative Borrowers, by State, 1992 (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	—	1,603,505	31,314,454	409,245	11,541,689	2,390,917	53,070,698
Alaska							
Alaska Electric G & T Coop Inc	—	804,109	30,549,978	—	—	804,109	30,549,978
Arizona							
Arizona Electric Pwr Coop Inc	—	—	—	690,072	17,266,105	690,072	17,266,105
Arkansas							
Arkansas Electric Coop Corp	—	133,385	2,201,682	231	14,174	803,088	11,194,971
Colorado							
Tri-State G & T Assn Inc	—	1,088,440	48,297,176	746	24,498	3,232,556	89,011,835
Florida							
Seminole Electric Coop Inc	10,034,759	17,904	411,826	342	17,729	1,013,725	75,955,981
Georgia							
Oglethorpe Power Corporation	—	1,495,031	44,599,179	68,949	2,502,087	6,233,262	230,510,324
Illinois							
Southern Illinois Power Coop	—	792	38,129	—	—	43,392	880,950
Soyland Power Cooperative Inc	—	—	—	—	—	1,739,582	79,044,065
Indiana							
Hoosier Energy R E C Inc	—	9,543	750,140	—	—	48,683	1,932,258
Iowa							
Central Iowa Power Cooperative	—	343	20,032	128	5,504	81,136	894,910
Corn Belt Power Cooperative	—	110,299	1,625,005	—	—	249,377	3,106,948
L & O Power Cooperative	—	69,978	3,176,890	—	—	141,212	3,946,426
Northwest Iowa Power Coop	—	271,152	12,639,459	9,346	301,848	563,858	15,549,837
Kansas							
Kansas Electric Power Coop Inc	—	13,813	227,915	—	—	798,755	28,045,137
Sunflower Electric Power Corp	83,289	—	—	—	—	1,925,8	1,808,313
Kentucky							
Big Rivers Electric Corp	27,250,486	36,863	630,083	—	—	1,517,892	33,427,280
East Kentucky Power Coop Inc	—	—	—	—	—	1,226,830	22,293,006
Louisiana							
Cajun Electric Power Coop Inc	—	—	—	12,855	386,678	400,724	6,653,710
Michigan							
Wolverine Pwr Supply Coop Inc	—	—	—	—	—	802,182	30,944,389
Minnesota							
Cooperative Power Association	9,297	626,979	18,178,098	—	—	1,137,243	23,808,388
United Power Association	65,691	16,235	406,437	4,015	66,665	138,785	3,553,567
Mississippi							
South Mississippi El Pwr Assn	—	1,643,575	35,465,322	40,547	653,261	1,958,228	44,033,735
Missouri							
Associated Electric Coop Inc	28,055,247	—	—	—	—	5,963,471	111,425,676
Central Electric Power Coop	—	1,692,378	66,572,562	—	—	1,692,378	66,572,562
M & A Electric Power Coop	—	968,841	37,160,633	—	—	968,841	37,160,633
N W Electric Power Coop Inc	—	1,020,548	36,734,548	—	—	1,020,548	36,734,548
Northeast Missouri El Pwr Coop	—	958,526	31,973,485	—	—	958,526	31,973,485
Sho-Me Power Corporation	—	2,354,264	83,004,373	—	—	2,363,640	83,395,432

See notes and footnotes at end of table.

Table 33. Electricity Purchases by the Power Supply Segment of Cooperative Borrowers, by State, 1992 (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							
Upper Missouri G&T El Coop Inc	--	--	323,459	3,822,765	--	--	--
Nebraska							
Nebraska Electric G&T Coop Inc	--	--	--	--	2,339,004	81,040,211	--
New Mexico							
Plains Elec Gen&Trans Coop Inc	112,591	5,567,326	536,385	9,523,997	10,989	242,095	--
North Carolina							
North Carolina El Member Corp	7,886,848	386,657,145	--	--	--	--	--
North Dakota							
Basin Electric Power Coop	--	--	5,879	4,834,525	2,351	67,012	--
Central Power Elec Coop Inc	--	--	328,273	3,582,007	--	--	--
Minnkota Power Coop Inc	419,473	22,870,883	571,620	6,170,356	14,639	171,719	27,626
Square Butte Elec Coop Inc	--	--	--	--	--	--	--
Ohio							
Buckeye Power Inc	419,065	7,499,046	--	--	--	--	--
Oklahoma							
Kamo Electric Cooperative Inc	34,874	1,312,265	--	--	1,393,789	48,007,969	--
Western Farmers Elec Coop Inc	3,202	129,000	876,135	11,597,542	--	--	--
Pennsylvania							
Allegheny Electric Coop Inc	752,729	33,271,246	--	--	392,890	2,226,724	--
South Carolina							
Central Electric Pwr Coop Inc	87,334	3,682,146	274,437	7,529,665	6,307,822	233,770,100	--
Saluda River Electric Coop Inc	1,185,702	57,095,442	--	--	--	--	--
South Dakota							
East River Elec Pwr Coop Inc	--	--	728,990	7,748,894	--	--	--
Texas							
Brazos Electric Power Coop Inc	1,008,916	39,086,700	134,926	1,699,216	287,790	8,679,170	56,212
Northeast Texas Elec Coop Inc	740,305	28,422,727	380,347	5,401,225	--	--	--
Sam Rayburn G & T Inc	29,542	5,692,330	--	--	--	--	--
South Texas Electric Coop Inc	39,970	957,010	259,993	1,894,484	102,363	1,460,836	--
Tex-La Electric Coop-Texas Inc	917,832	36,836,380	--	--	--	--	15,371
Utah							
Deseret Generation & Tran Coop ...	8,516	191,076	82	1,554	1,792	36,222	--
Vermont							
Vermont G & T Cooperative Inc	64,147	2,761,432	--	--	18,183	583,097	--
Wisconsin							
Dairyland Power Cooperative	130,617	1,832,667	25,507	377,453	140,530	1,783,094	9,524

See notes and footnotes at end of table.

Table 33. Electricity Purchases by the Power Supply Segment of Cooperative Borrowers, by State, 1992 (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							
Upper Missouri G&T El Coop Inc	--	645,663	32,530,384	--	--	969,122	36,353,149
Nebraska							
Nebraska Electric G&T Coop Inc	--	--	--	--	--	2,339,004	81,040,211
New Mexico							
Plains Elec Gen&Trans Coop Inc	--	--	--	5,201	68,205	665,166	15,401,623
North Carolina							
North Carolina El Member Corp	--	--	--	--	--	7,886,848	386,657,145
North Dakota							
Basin Electric Power Coop	--	1,356	10,796	80,449	1,371,682	90,035	6,284,015
Central Power Elec Coop Inc	--	576,329	24,998,804	--	--	904,602	28,580,811
Minnkota Power Coop Inc	363,354	974,212	22,586,783	645,021	8,869,853	2,652,591	61,032,948
Square Butte Elec Coop Inc	--	9,117	56,065	--	--	9,117	56,065
Ohio							
Buckeye Power Inc	--	--	--	--	--	419,065	7,499,046
Oklahoma							
Kamo Electric Cooperative Inc	--	1,503,996	58,136,258	--	--	2,932,659	107,456,492
Western Farmers Elec Coop Inc	--	--	--	--	--	879,337	11,726,542
Pennsylvania							
Allegheny Electric Coop Inc	--	--	--	2,723	72,527	1,148,342	35,570,497
South Carolina							
Central Electric Pwr Coop Inc	--	--	--	--	--	6,669,593	244,981,911
Saluda River Electric Coop Inc	--	--	--	5,882	929,017	1,191,584	58,024,459
South Dakota							
East River Elec Pwr Coop Inc	--	667,723	33,430,368	--	--	1,396,713	41,179,262
Texas							
Brazos Electric Power Coop Inc	213,244	1,418,948	50,545,884	485,621	13,615,267	3,392,413	113,839,481
Northeast Texas Elec Coop Inc	--	--	--	--	--	1,120,652	33,823,952
Sam Rayburn G & T Inc	--	304,027	11,787,141	298,075	10,430,432	631,644	27,909,903
South Texas Electric Coop Inc	--	1,269,982	48,973,322	4,643	92,724	1,676,951	53,378,376
Tex-La Electric Coop-Texas Inc	250,934	--	--	--	--	933,203	37,087,314
Utah							
Deseret Generation & Tran Coop ...	--	--	--	7,425	138,635	17,815	367,487
Vermont							
Vermont G & T Cooperative Inc	--	--	--	228	140,725	82,558	3,485,254
Wisconsin							
Dairyland Power Cooperative	141,923	213,401	2,825,500	--	--	519,579	6,960,637

¹ Includes transactions with 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. •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 Electrification Administration, REA Form 7, "Financial And Statistical Report," REA 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, 1992

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 Cooperative Inc	--	--	247,081	11,082,317	--	--	--
Baldwin County El Member Corp	--	--	--	--	--	--	--
Black Warrior Elec Member Corp	248,164	8,971,094	30,277	1,136,215	--	--	--
Central Alabama Electric Coop	--	--	--	--	--	--	--
Cherokee Electric Cooperative	--	--	358,277	14,543,773	--	--	--
Clarke-Washington E M C	--	--	--	--	--	--	--
Coosa Valley Electric Coop Inc	--	--	--	--	--	--	--
Covington Electric Coop Inc	--	--	--	--	--	--	--
Cullman Electric Cooperative	--	--	608,130	26,974,698	--	--	--
Dixie Electric Cooperative	--	--	--	--	--	--	--
Franklin Electric Cooperative	--	--	180,138	7,194,818	--	--	--
Joe Wheeler Elec Member Corp	--	--	715,038	32,333,828	--	--	--
North Alabama Electric Coop	--	--	427,045	18,354,489	--	--	--
Pea River Electric Cooperative	--	--	--	--	--	--	--
Pioneer Electric Coop Inc	--	--	--	--	--	--	--
Sand Mountain Electric Coop	--	--	427,217	19,168,788	--	--	--
South Alabama Elec Coop Inc	--	--	--	--	--	--	--
Southern Pine Elec Coop Inc	--	--	--	--	--	--	--
Tallapoosa River Elec Coop Inc	--	--	--	--	--	--	--
Tombigbee Electric Coop Inc	87,870	3,348,118	10,596	386,224	--	--	--
Wiregrass Electric Coop Inc	--	--	--	--	--	--	--
Alaska							
Copper Valley Elec Assn Inc	--	--	--	--	37,599	2,406,351	--
Golden Valley Elec Assn Inc	--	--	--	--	85,828	3,101,194	2,532
Homer Electric Assn Inc	--	--	--	--	--	--	--
Kodiak Electric Assn Inc	--	--	--	--	100,202	6,412,946	--
Matanuska Electric Assn Inc	--	--	25,147	427,493	--	--	--
Tlingit-Haida Region Elec Auth	2,909	293,452	--	--	--	--	--
Arizona							
Duncan Valley Elec Coop Inc	--	--	--	--	--	--	--
Mohave Electric Coop Inc	--	--	370	144,497	--	--	--
Navopache Electric Coop Inc	--	--	--	--	--	--	--
Sulphur Springs Valley E C Inc	--	--	--	--	--	--	--
Trico Electric Cooperative Inc	--	--	--	--	--	--	--
Arkansas							
Arkansas Valley Elec Coop Corp	504,718	17,844,259	--	--	--	--	--
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	64,908	3,180,473	--	--	--	--	--
First Electric Coop Corp	--	--	--	--	--	--	--
Mississippi Cnty Elec Coop Inc	--	--	--	--	--	--	--
North Arkansas Elec Coop Inc	5,524	277,322	--	--	--	--	--
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 Cooperative Inc	--	--	--	--	--	--	--
Plumas-Sierra Rural Elec Coop	--	--	95,592	2,004,903	--	--	--
Surprise Valley Electric Corp	--	--	153,287	3,096,309	--	--	--
Colorado							
Delta Montrose Electric Assn	--	--	--	--	--	--	--
Empire Electric Assn Inc	--	--	--	--	--	--	--

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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 Cooperative Inc	—	—	—	—	—	247,081	11,082,317
Baldwin County El Member Corp	—	503,452	22,306,198	—	—	503,452	22,306,198
Black Warrior Elec Member Corp	—	—	—	—	—	276,441	10,107,309
Central Alabama Electric Coop	—	327,710	14,064,536	—	—	327,710	14,064,536
Cherokee Electric Cooperative	—	—	—	—	—	358,277	14,543,773
Clarke-Washington E M C	—	189,183	8,141,447	—	—	189,183	8,141,447
Coosa Valley Electric Coop Inc	—	129,753	5,619,682	—	—	129,753	5,619,682
Covington Electric Coop Inc	—	270,083	11,795,703	—	—	270,083	11,795,703
Cullman Electric Cooperative	—	—	—	—	—	608,130	26,974,698
Dixie Electric Cooperative	—	180,842	7,593,098	—	—	180,842	7,593,098
Franklin Electric Cooperative	—	—	—	—	—	160,138	7,194,618
Joe Wheeler Elec Member Corp	—	—	—	—	—	715,038	32,333,828
North Alabama Electric Coop	—	—	—	—	—	427,045	16,354,489
Pea River Electric Cooperative	—	210,176	9,256,025	—	—	210,176	9,256,025
Pioneer Electric Coop Inc	—	127,973	5,276,566	—	—	127,973	5,276,566
Sand Mountain Electric Coop	—	—	—	—	—	427,217	19,168,788
South Alabama Elec Coop Inc	—	167,449	7,103,514	—	—	167,449	7,103,514
Southern Pine Elec Coop Inc	—	1,025,756	28,512,835	—	—	1,025,756	28,512,835
Tallapoosa River Elec Coop Inc	—	206,614	8,826,928	—	—	206,614	8,826,928
Tombigbee Electric Coop Inc	—	—	—	—	—	98,466	3,734,342
Wiregrass Electric Coop Inc	—	202,682	8,921,146	—	—	202,682	8,921,146
Alaska							
Copper Valley Elec Assn Inc	—	—	—	—	—	37,599	2,406,351
Golden Valley Elec Assn Inc	101,583	211,143	6,799,904	144	2,639	279,647	10,005,320
Homer Electric Assn Inc	—	423,624	17,527,929	—	—	423,624	17,527,929
Kodiak Electric Assn Inc	—	—	—	—	—	100,202	6,412,946
Matanuska Electric Assn Inc	—	411,961	17,113,801	553	23,480	437,661	17,564,554
Tlingit-Haida Region Elec Auth	—	—	—	—	—	2,909	293,452
Arizona							
Duncan Valley Elec Coop Inc	—	1,279,837	49,202,916	—	—	1,279,837	49,202,916
Mohave Electric Coop Inc	—	405,883	22,041,858	—	—	406,253	22,186,355
Navopache Electric Coop Inc	—	269,619	17,194,148	—	—	269,619	17,194,148
Sulphur Springs Valley E C Inc	—	402,199	21,488,907	—	—	402,199	21,488,907
Trico Electric Cooperative Inc	—	302,193	14,368,236	—	—	302,193	14,368,236
Arkansas							
Arkansas Valley Elec Coop Corp	—	145,486	7,064,689	—	—	650,204	24,908,948
Ashley Chicot Elec Coop Inc	—	56,822	2,625,034	—	—	56,822	2,625,034
C & L Electric Coop Corp	—	216,666	10,632,137	—	—	216,666	10,632,137
Carroll Electric Coop Corp	—	758,024	33,815,702	—	—	758,024	33,815,702
Clay County Electric Coop Corp	—	139,270	6,165,362	—	—	139,270	6,165,362
Craighead Electric Coop Corp	—	282,629	13,456,518	—	—	282,629	13,456,518
Farmers Electric Coop Corp	—	—	—	—	—	64,908	3,180,473
First Electric Coop Corp	—	996,766	44,149,473	—	—	996,766	44,149,473
Mississippi Cnty Elec Coop Inc	—	920,031	28,737,073	—	—	920,031	28,737,073
North Arkansas Elec Coop Inc	—	381,016	16,970,837	—	—	386,540	17,247,959
Ouachita Electric Coop Corp	—	200,528	8,333,056	—	—	200,528	8,333,056
Ozarks Electric Coop Corp	—	595,872	26,880,438	—	—	595,872	26,880,438
Petit Jean Electric Coop Corp	—	180,129	8,202,748	—	—	180,129	8,202,748
Rich Mountain Elec Coop Inc	—	75,805	3,537,448	—	—	75,805	3,537,448
South Central Ark El Coop Inc	—	149,989	5,946,007	—	—	149,989	5,946,007
Southwest Arkansas E C C	—	434,464	18,047,141	—	—	434,464	18,047,141
Woodruff Electric Coop Corp	—	270,808	10,886,125	—	—	270,808	10,886,125
California							
Anza Electric Cooperative Inc	—	33,252	1,557,381	—	—	33,252	1,557,381
Plumas-Sierra Rural Elec Coop	—	—	—	160	578,870	95,752	2,583,773
Surprise Valley Electric Corp	—	—	—	—	—	153,287	3,096,309
Colorado							
Delta Montrose Electric Assn	—	248,168	11,055,438	105,910	4,962,496	354,078	16,017,934
Empire Electric Assn Inc	—	238,927	10,018,528	84,213	3,693,979	323,140	13,712,507

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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							
Grand Valley Rrl Pwr Line Inc	70,617	3,306,096	5,593	108,480	--	--	--
Gunnison County Elec Assn Inc	--	--	--	--	--	--	--
Highline Electric Assn	--	--	--	--	--	--	--
Holy Cross Electric Assn Inc	422,082	18,483,183	30,183	600,071	--	--	--
Intermountain Rural Elec Assn	448,578	18,799,736	94,983	1,802,956	--	--	--
K C Electric Association	--	--	--	--	--	--	--
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	78	5,722	--	--	--	--	--
White River Electric Assn Inc	--	--	--	--	--	--	--
Y-W Electric Association Inc	--	--	--	--	--	--	18
Yampa Valley Electric Assn Inc	224,731	9,437,755	18,267	294,550	--	--	--
Delaware							
Delaware Electric Coop Inc	--	--	--	--	--	--	--
Florida							
Central Florida Elec Coop Inc	--	--	11,555	275,324	--	--	--
Choctawhatche Elec Coop Inc	--	--	--	--	--	--	--
Clay Electric Cooperative Inc	--	--	--	--	--	--	--
Escambia River Elec Coop Inc	--	--	--	--	--	--	--
Florida Keys El Coop Assn Inc	491,577	23,130,119	--	--	--	--	--
Glades Electric Coop Inc	--	--	--	--	--	--	--
Gulf Coast Electric Coop Inc	--	--	--	--	--	--	--
Peace River Electric Coop Inc	--	--	--	--	--	--	--
Sumter Electric Coop Inc	--	--	--	--	--	--	--
Suwannee Valley Elec Coop Inc	--	--	23,298	563,827	--	--	--
Talquin Electric Coop Inc	--	--	65,885	1,591,225	--	--	7,735
Tri-County Electric Coop Inc	--	--	25,768	567,872	--	--	--
West Florida El Coop Assn Inc	--	--	--	--	--	--	--
Withlacoochee River Elec Coop	--	--	--	--	--	--	--
Georgia							
Aitamaha Electric Member Corp	--	--	18,093	459,313	--	--	--
Amicalola Electric Member Corp	--	--	20,643	487,220	--	--	--
Blue Ridge Mountain E M C	--	--	329,700	13,861,379	--	--	--
Canoochee Electric Member Corp	--	--	15,575	391,054	--	--	--
Carroll Electric Member Corp	--	--	30,416	718,379	--	--	--
Central Georgia El Member Corp	--	--	23,551	555,813	--	--	--
Coastal Electric Member Corp	--	--	5,492	129,699	--	--	--
Cobb Electric Membership Corp	--	--	67,910	1,602,709	--	--	--
Colquitt Electric Members Corp	--	--	69,106	1,630,947	--	--	--
Coweta Fayette El Member Corp	--	--	23,240	548,897	--	--	--
Excelsior Electric Member Corp	--	--	15,217	374,787	--	--	--
Flint Electric Membership Corp	--	--	100,166	2,363,970	--	--	--
Grady County Elec Member Corp	--	--	18,767	443,238	--	--	--
GreyStone Power Corp	--	--	55,097	1,300,332	--	--	--
Habersham Elec Member Corp	--	--	18,259	413,163	--	--	--
Hart County Elec Member Corp	--	--	33,784	797,324	--	--	--
Irwin County Elec Member Corp	--	--	14,930	352,368	--	--	--
Jackson Electric Member Corp	--	--	85,621	2,022,097	--	--	--
Jefferson Electric Member Corp	--	--	24,782	584,862	--	--	--
Lamar Electric Membership Corp	--	--	12,079	285,061	--	--	--
Little Ocmulgee El Member Corp	--	--	14,116	333,144	--	--	--
Middle Georgia El Member Corp	--	--	10,846	256,154	--	--	--
Mitchell Electric Member Corp	--	--	32,324	764,745	--	--	--

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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							
Grand Valley Rrl Pwr Line Inc	--	--	--	32,948	1,570,740	109,158	4,985,316
Gunnison County Elec Assn Inc	--	68,241	3,161,940	41,019	1,911,455	109,280	5,073,395
Highline Electric Assn	--	260,599	12,067,566	2	24	280,601	12,067,590
Holy Cross Electric Assn Inc	--	--	--	255,809	12,021,246	708,074	31,084,500
Intermountain Rural Elec Assn	--	--	--	233,382	11,522,407	776,943	32,125,099
K C Electric Association	--	156,481	6,386,356	--	--	156,481	6,386,356
La Plata Electric Assn Inc	--	340,799	14,478,462	118,802	5,416,830	459,601	19,895,292
Morgan County Rural Elec Assn	--	175,959	7,407,698	--	--	175,959	7,407,698
Mountain Parks Electric Inc	--	206,391	8,176,012	--	--	206,391	8,176,012
Mountain View Elec Assn Inc	--	327,879	12,995,691	--	--	327,879	12,995,691
Poudre Valley R E A Inc	--	540,222	20,466,824	--	--	540,222	20,466,824
San Isabel Electric Assn Inc	--	--	--	209,368	8,998,667	209,368	8,998,667
San Luis Valley R E C Inc	--	129,847	6,334,521	27,797	1,297,100	157,444	7,631,621
San Miguel Power Assn Inc	--	73,854	3,299,636	34,811	1,676,928	108,665	4,976,584
Sangre De Cristo Elec Assn Inc	--	61,975	2,822,610	--	--	61,975	2,822,610
Southeast Colorado Power Assn	--	112,381	4,997,248	38,267	1,652,565	150,668	6,649,813
United Power Inc	--	468,504	16,408,054	--	--	468,582	16,413,776
White River Electric Assn Inc	--	57,731	2,498,325	23,317	1,046,873	81,048	3,545,198
Y-W Electric Association Inc	274	266,591	12,258,835	--	--	266,609	12,259,109
Yampa Valley Electric Assn Inc	--	97	4,273	129,186	6,105,947	372,281	15,842,525
Delaware							
Delaware Electric Coop Inc	--	583,193	31,210,041	--	--	583,193	31,210,041
Florida							
Central Florida Elec Coop Inc	--	246,049	12,747,483	--	--	257,604	13,022,807
Choctawhatche Elec Coop Inc	--	350,750	15,369,139	--	--	350,750	15,369,139
Clay Electric Cooperative Inc	--	1,717,653	87,186,379	--	--	1,717,653	87,186,379
Escambia River Elec Coop Inc	--	118,829	5,102,139	--	--	118,829	5,102,139
Florida Keys El Coop Assn Inc	--	--	--	1,598	137,377	493,175	23,267,496
Glades Electric Coop Inc	--	195,078	9,643,088	--	--	195,078	9,643,088
Gulf Coast Electric Coop Inc	--	162,675	6,945,931	--	--	162,675	6,945,931
Peace River Electric Coop Inc	--	246,826	13,553,036	--	--	246,826	13,553,036
Sumter Electric Coop Inc	--	972,659	52,591,087	--	--	972,659	52,591,087
Suwannee Valley Elec Coop Inc	--	195,157	9,946,659	--	--	218,455	10,510,486
Talquin Electric Coop Inc	557,986	553,306	30,324,406	--	--	626,926	32,473,617
Tri-County Electric Coop Inc	--	126,521	6,481,709	--	--	152,289	7,049,581
West Florida El Coop Assn Inc	--	268,001	11,713,133	--	--	268,001	11,713,133
Withlacoochee River Elec Coop	--	1,973,300	114,864,315	--	--	1,973,300	114,864,315
Georgia							
Altamaha Electric Member Corp	--	216,171	12,041,857	--	--	234,264	12,501,170
Amicalola Electric Member Corp	--	247,214	13,453,454	--	--	267,857	13,940,674
Blue Ridge Mountain E M C	--	--	--	--	--	329,700	13,861,379
Canoochee Electric Member Corp	--	202,416	11,248,167	--	--	217,991	11,639,221
Carroll Electric Member Corp	--	434,430	23,622,568	--	--	464,846	24,340,947
Central Georgia El Member Corp	--	333,274	19,170,265	--	--	356,825	19,726,078
Coastal Electric Member Corp	--	127,558	6,805,750	--	--	133,050	6,935,449
Cobb Electric Membership Corp	--	1,648,050	107,762,226	--	--	1,715,960	109,364,935
Colquitt Electric Members Corp	--	593,279	32,080,485	--	--	662,385	33,711,432
Coweta Fayette El Member Corp	--	531,739	33,089,699	--	--	554,979	33,638,596
Excelsior Electric Member Corp	--	176,746	9,654,193	--	--	191,963	10,028,980
Flint Electric Membership Corp	--	805,797	44,977,005	--	--	905,963	47,340,975
Grady County Elec Member Corp	--	159,496	9,307,248	--	--	178,263	9,750,486
GreyStone Power Corp	--	845,506	50,416,673	--	--	900,603	51,717,005
Habersham Elec Member Corp	--	233,909	12,355,333	--	--	252,168	12,768,496
Hart County Elec Member Corp	--	287,552	16,428,683	--	--	321,336	17,226,007
Irwin County Elec Member Corp	--	109,684	5,961,604	--	--	124,614	6,313,972
Jackson Electric Member Corp	--	1,734,114	97,948,927	--	--	1,819,735	99,971,024
Jefferson Electric Member Corp	--	318,030	19,102,088	--	--	342,812	19,686,950
Lamar Electric Membership Corp	--	154,470	8,998,355	--	--	166,549	9,283,416
Little Ocmulgee El Member Corp	--	88,588	4,849,018	--	--	102,704	5,182,162
Middle Georgia El Member Corp	--	61,883	3,169,427	--	--	72,729	3,425,581
Mitchell Electric Member Corp	--	258,833	14,409,572	--	--	289,157	15,174,317

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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							
North Georgia Elec Member Corp	--	--	1,848,907	79,385,596	--	--	--
Ocmulgee Electric Member Corp	--	--	14,794	349,410	--	--	--
Oconee Electric Member Corp	--	--	14,247	336,244	--	--	--
Okefenoke Rural EI Member Corp	--	--	16,313	400,451	--	--	--
Pataula Electric Member Corp	--	--	5,819	137,426	--	--	--
Planters Electric Member Corp	--	--	18,440	435,510	--	--	--
Rayle Electric Membership Corp	--	--	18,662	440,857	--	--	--
Satilla Rural Elec Member Corp	--	--	54,550	1,289,503	--	--	--
Sawnee Electric Member Corp	--	--	34,353	811,348	--	--	--
Slash Pine Elec Member Corp	--	--	8,608	203,159	--	--	--
Snapping Shoals E M C	--	--	34,850	822,987	--	--	--
Sumter Electric Member Corp	--	--	20,255	478,394	--	--	--
Three-Notch Elec Member Corp	--	--	19,737	493,565	--	--	--
Tri-County Elec Member Corp	284	24,465	11,179	263,835	--	--	--
Tri-State Electric Member Corp	--	--	180,785	7,800,772	--	--	--
Troup Electric Member Corp	--	--	21,059	497,379	--	--	--
Upson County Elec Member Corp	--	--	8,196	193,428	--	--	--
Walton Electric Member Corp	--	--	53,662	1,266,465	--	--	--
Washington Elec Member Corp	--	--	25,471	601,129	--	--	--
Idaho							
Clearwater Power Company	--	--	145,171	3,435,820	--	--	--
Fall River Rural Elec Coop Inc	--	--	163,087	3,595,878	--	--	--
Idaho Cnty L&P Coop Assn Inc	--	--	36,114	788,963	--	--	--
Kootenai Electric Coop Inc	--	--	212,185	4,950,125	--	--	--
Lost River Electric Coop Inc	--	--	71,615	1,594,087	--	--	--
Northern Lights Inc	--	--	250,738	5,448,210	--	--	--
Raft River Rural Elec Coop Inc	--	--	234,148	4,829,087	--	--	--
Salmon River Electric Coop Inc	--	--	214,320	4,877,790	--	--	--
Illinois							
Adams Electrical Cooperative	--	--	--	--	--	--	--
Clay Electric Cooperative Inc	--	--	--	--	--	--	--
Clinton County Elec Coop Inc	--	--	--	--	--	--	--
Coles-Moultrie Electric Coop	--	--	--	--	--	--	--
Corn Belt Electric Coop Inc	9	961	--	--	--	--	--
Eastern Illini Electric Coop	--	--	--	--	--	--	--
Edgar Electric Co-op, Assn	--	--	--	--	--	--	--
Egyptian Electric Coop Assn	--	--	--	--	--	--	--
Farmers Mutual Electric Co	--	--	--	--	--	--	--
Illinois Rural Electric Co	--	--	--	--	--	--	--
Illinois Valley Elec Coop Inc	--	--	--	--	--	--	--
Jo-Carroll Electric Coop Inc	--	--	--	--	--	--	--
M J M Electric Cooperative Inc	--	--	--	--	--	--	--
McDonough Power Cooperative	--	--	--	--	--	--	--
Menard Electric Cooperative	--	--	--	--	--	--	--
Monroe County Elec Coop Inc	--	--	--	--	--	--	--
Rural Electric Conven Coop Co	--	--	--	--	--	--	--
Southeastern IL Elec Coop Inc	--	--	--	--	--	--	--
Southern Illinois Elec Coop	--	--	--	--	--	--	--
Southwestern Electric Coop Inc	--	--	--	--	--	--	--
Spoon River Electric Coop Inc	--	--	--	--	--	--	--
Tri-County Electric Coop Inc	--	--	--	--	--	--	--
Wayne-White Counties Elec Coop	--	--	--	--	--	--	--
Western Illinois Elec Coop	--	--	--	--	--	--	--
Indiana							
Bartholomew County Rural E M C	--	--	--	--	--	--	--
Boone County Rural E M C	--	--	--	--	--	--	--
Carroll County Rural E M C	--	--	--	--	--	--	--
Daviess Martin County R E M C	--	--	--	--	--	--	--
Decatur County Rural E M C	--	--	--	--	--	--	--
Dubois Rural Electric Coop Inc	--	--	--	--	--	--	--
Fayette-Union County 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, 1992 (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							
North Georgia Elec Member Corp	--	--	--	--	--	1,848,907	79,385,596
Ocmulgee Electric Member Corp	--	92,050	5,230,480	--	--	106,844	5,579,890
Oconee Electric Member Corp	--	196,495	9,761,386	--	--	210,742	10,097,630
Okafenoke Rural El Member Corp	--	311,768	17,324,023	--	--	326,081	17,724,474
Pataula Electric Member Corp	--	36,043	1,932,291	--	--	41,862	2,069,717
Planters Electric Member Corp	--	141,966	7,677,424	--	--	160,406	8,112,934
Rayle Electric Membership Corp	--	141,160	7,785,224	--	--	159,822	8,226,081
Satilla Rural Elec Member Corp	--	445,817	25,684,648	--	--	500,367	26,974,151
Sawnee Electric Member Corp	--	818,208	50,812,770	--	--	852,561	51,624,118
Slash Pine Elec Member Corp	--	77,543	3,909,197	--	--	86,151	4,112,356
Snapping Shoals E M C	--	602,065	36,506,448	--	--	636,915	37,329,435
Sumter Electric Member Corp	--	194,188	10,107,202	--	--	214,443	10,585,596
Three-Notch Elec Member Corp	--	138,756	7,364,657	--	--	158,493	7,656,222
Tri-County Elec Member Corp	--	156,095	9,401,309	--	--	167,558	9,689,609
Tri-State Electric Member Corp	--	--	--	--	--	180,785	7,800,772
Troup Electric Member Corp	--	277,419	15,670,101	--	--	268,478	16,167,480
Upson County Elec Member Corp	--	73,794	4,312,470	--	--	81,990	4,505,896
Walton Electric Member Corp	--	1,086,565	67,190,815	--	--	1,140,247	68,457,280
Washington Elec Member Corp	--	270,230	12,460,281	--	--	295,701	13,091,410
Idaho							
Clearwater Power Company	--	--	--	--	--	145,171	3,435,820
Fall River Rural Elec Coop Inc	--	--	--	--	--	163,087	3,595,878
Idaho Cnty L&P Coop Assn Inc	--	--	--	--	--	36,114	788,963
Kootenai Electric Coop Inc	--	--	--	--	--	212,185	4,950,125
Lost River Electric Coop Inc	--	--	--	--	--	71,615	1,594,087
Northern Lights Inc	--	--	--	--	--	250,738	5,448,210
Raft River Rural Elec Coop Inc	--	--	--	--	--	234,146	4,829,087
Salmon River Electric Coop Inc	--	--	--	--	--	214,320	4,877,790
Illinois							
Adams Electrical Cooperative	--	86,731	6,683,930	--	--	86,731	6,683,930
Clay Electric Cooperative Inc	--	40,761	2,882,907	--	--	40,761	2,882,907
Clinton County Elec Coop Inc	--	95,685	6,468,257	--	--	95,685	6,468,257
Coles-Moultrie Electric Coop	--	139,856	9,785,907	--	--	139,856	9,785,907
Corn Belt Electric Coop Inc	--	202,289	13,786,095	--	--	202,296	13,787,056
Eastern Illini Electric Coop	--	194,655	12,876,093	--	--	194,655	12,876,093
Edgar Electric Co-op, Assn	--	62,119	4,422,112	--	--	62,119	4,422,112
Egyptian Electric Coop Assn	--	196,217	8,642,745	--	--	196,217	8,642,745
Farmers Mutual Electric Co	--	15,188	1,222,617	--	--	15,188	1,222,617
Illinois Rural Electric Co	--	106,491	7,924,945	--	--	106,491	7,924,945
Illinois Valley Elec Coop Inc	--	73,974	4,876,651	--	--	73,974	4,876,651
Jo-Carroll Electric Coop Inc	--	67,601	2,870,235	--	--	67,601	2,870,235
M J M Electric Cooperative Inc	--	92,308	7,141,273	--	--	92,308	7,141,273
McDonough Power Cooperative	--	66,812	4,820,316	--	--	66,812	4,820,316
Menard Electric Cooperative	--	133,313	8,818,670	--	--	133,313	8,818,670
Monroe County Elec Coop Inc	--	65,719	4,856,703	--	--	65,719	4,856,703
Rural Electric Conven Coop Co	--	74,088	5,877,449	--	--	74,088	5,877,449
Southeastern IL Elec Coop Inc	--	572,620	24,657,957	--	--	572,620	24,657,957
Southern Illinois Elec Coop	--	143,071	6,174,470	--	--	143,071	6,174,470
Southwestern Electric Coop Inc	--	227,903	16,708,366	--	--	227,903	16,708,366
Spoon River Electric Coop Inc	--	44,229	3,215,134	--	--	44,229	3,215,134
Tri-County Electric Coop Inc	--	240,262	15,969,871	--	--	240,262	15,969,871
Wayne-White Counties Elec Coop	--	233,135	15,105,373	--	--	233,135	15,105,373
Western Illinois Elec Coop	--	35,355	2,733,106	--	--	35,355	2,733,106
Indiana							
Bartholomew County Rural E M C	--	153,790	7,221,723	--	--	153,790	7,221,723
Boone County Rural E M C	--	153,189	6,717,951	--	--	153,189	6,717,951
Carroll County Rural E M C	--	121,493	5,290,885	--	--	121,493	5,290,885
Davess Martin County R E M C	--	113,478	5,134,516	--	--	113,478	5,134,516
Decatur County Rural E M C	--	187,334	7,878,842	--	--	187,334	7,878,842
Dubois Rural Electric Coop Inc	--	194,790	8,687,676	--	--	194,790	8,687,676
Fayette-Union County R E M C	--	59,959	2,712,878	--	--	59,959	2,712,878

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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							
Fulton County Rural E M C	--	--	--	--	--	--	--
Hancock County REMC	--	--	--	--	--	--	--
Harrison County Rural E M C	--	--	--	--	--	--	--
Hendricks County Rural E M C	--	--	--	--	--	--	--
Jackson County Rural E M C	296,395	11,226,466	--	--	--	--	--
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	--	--	--	--	--	--	--
Kosciusko County Rural E M C	--	--	--	--	--	--	--
Lagrange County Rural E M C	--	--	--	--	--	--	--
Marshall County Rural E M C	--	--	--	--	--	--	--
Miami-Cass County Rural E M C	--	--	--	--	--	--	--
Morgan County Rural E M C	--	--	--	--	--	--	--
Newton County Rural E M C	--	--	--	--	--	--	--
Noble 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	--	--	--	--	--	--	--
Southeastern Indiana R E M C	--	--	--	--	--	--	--
Southern Indiana R E C Inc	--	--	--	--	--	--	--
Steuben County Rural E M C	--	--	--	--	--	--	--
Sullivan County Rural E M C	--	--	--	--	--	--	--
Tipmont Rri Elec Member Corp	--	--	--	--	--	--	--
United Rural Elec Member Corp	--	--	--	--	--	--	--
Utilities Dist-Western in REMC	--	--	--	--	--	--	--
Wabash County Rural E M C	--	--	--	--	--	--	--
Warren County Rural E M C	--	--	--	--	--	--	--
Wayne County Rural E M C	--	--	--	--	--	--	--
White County Rural E M C	--	--	--	--	--	--	--
Iowa							
Adams County Coop Electric Co	--	--	--	--	--	--	--
Allamakee-Clayton El Coop Inc	--	--	--	--	--	--	--
Benton County Elec Coop Assn	--	--	--	--	--	--	--
Buchanan County Rri Elec Coop	--	--	--	--	--	--	--
Butler County Rural Elec Coop	--	--	--	--	--	--	--
Calhoun County Elec Coop Assn	--	--	--	--	--	--	--
Cedar Valley Electric Coop	--	--	--	--	--	--	--
Chariton Valley Elec Coop Inc	--	--	--	--	--	--	--
Clarke Electric Coop Inc	--	--	--	--	--	--	--
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 Rri Elec Coop	--	--	--	--	--	--	--
Hawkeye Tri-County Elec Coop	--	--	--	--	--	--	--
Humboldt County R E C	--	--	--	--	--	--	--
Ida County Rural Electric Coop	--	--	--	--	--	--	--
Iowa Lakes Electric Coop	--	--	--	--	--	--	--
Linn County Rural El Coop Assn	--	--	--	--	--	--	--
Lyon Rural Electric Coop	--	--	--	--	--	--	--
Maquoketa Valley Rri Elec Coop	--	--	--	--	--	--	--
Marshall County Rri Elec Coop	--	--	--	--	--	--	--
Midland Power Cooperative	--	--	--	--	--	--	--
Monona County Rural Elec Coop	--	--	--	--	--	--	--
Nishnabotna Valley R E C	--	--	--	--	--	--	--
Nyman Electric Cooperative Inc	--	--	--	--	--	--	--

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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							
Fulton County Rural E M C	--	72,154	3,159,093	--	--	72,154	3,159,093
Hancock County REMC	--	120,949	5,522,021	--	--	120,949	5,522,021
Harrison County Rural E M C	--	283,232	13,081,547	--	--	283,232	13,081,547
Hendricks County Rural E M C	--	248,089	11,842,580	--	--	248,089	11,842,580
Jackson County Rural E M C	--	--	--	--	--	296,395	11,226,466
Jasper County Rural E M C	--	101,599	4,892,466	--	--	101,599	4,892,466
Jay County Rural E M C	--	90,719	3,880,280	--	--	90,719	3,880,280
Johnson County Rural E M C	--	183,205	8,441,787	--	--	183,205	8,441,787
Kankakee Valley Rural E M C	--	156,675	7,816,133	--	--	156,675	7,816,133
Knox County Rural E M C	--	190,123	8,415,030	--	--	190,123	8,415,030
Kosciusko County Rural E M C	--	212,098	9,877,758	--	--	212,098	9,877,758
Lagrange County Rural E M C	--	73,997	3,353,819	--	--	73,997	3,353,819
Marshall County Rural E M C	--	68,105	3,213,389	--	--	68,105	3,213,389
Miami-Cass County Rural E M C	--	83,315	3,563,061	--	--	83,315	3,563,061
Morgan County Rural E M C	--	329,889	15,542,224	--	--	329,889	15,542,224
Newton County Rural E M C	--	23,204	1,135,141	--	--	23,204	1,135,141
Noble County Rural E M C	--	133,205	5,788,000	--	--	133,205	5,788,000
Northeastern Rural E M C	--	339,691	14,622,582	--	--	339,691	14,622,582
Orange County Rural E M C	--	71,802	3,322,533	--	--	71,802	3,322,533
Parke County Rural E M C	--	149,387	6,608,436	--	--	149,387	6,608,436
Rush County Rural E M C	--	70,720	3,156,459	--	--	70,720	3,156,459
Shelby County Rural E M C	--	121,346	5,604,770	--	--	121,346	5,604,770
Southeastern Indiana R E M C	--	287,813	13,272,903	--	--	287,813	13,272,903
Southern Indiana R E C Inc	--	113,318	5,101,694	--	--	113,318	5,101,694
Steuben County Rural E M C	--	85,100	4,015,643	--	--	85,100	4,015,643
Sullivan County Rural E M C	--	102,814	4,684,054	--	--	102,814	4,684,054
Tipmont Rrl Elec Member Corp	--	250,037	11,464,449	--	--	250,037	11,464,449
United Rural Elec Member Corp	--	349,067	14,879,949	--	--	349,067	14,879,949
Utilities Dist-Western in REMC	--	225,275	10,338,387	--	--	225,275	10,338,387
Wabash County Rural E M C	--	116,110	5,060,244	--	--	116,110	5,060,244
Warren County Rural E M C	--	64,134	2,897,223	--	--	64,134	2,897,223
Wayne County Rural E M C	--	93,275	4,171,605	--	--	93,275	4,171,605
White County Rural E M C	--	92,314	4,180,911	--	--	92,314	4,180,911
Iowa							
Adams County Coop Electric Co	--	26,141	1,287,812	--	--	26,141	1,287,812
Allamakee-Clayton El Coop Inc	--	121,846	5,219,396	--	--	121,846	5,219,396
Benton County Elec Coop Assn	--	59,107	2,977,557	--	--	59,107	2,977,557
Buchanan County Rrl Elec Coop	--	79,879	3,967,459	--	--	79,879	3,967,459
Butler County Rural Elec Coop	--	99,376	4,833,172	9	583	99,385	4,833,755
Calhoun County Elec Coop Assn	--	28,685	1,381,174	--	--	28,685	1,381,174
Cedar Valley Electric Coop	--	61,320	2,420,551	--	--	61,320	2,420,551
Chariton Valley Elec Coop Inc	--	67,687	2,709,311	--	--	67,687	2,709,311
Clarke Electric Coop Inc	--	52,151	2,677,758	--	--	52,151	2,677,758
Eastern Iowa Light&Power Coop	--	317,368	16,107,985	--	--	317,368	16,107,985
Farmers Electric Coop Inc	--	102,272	4,818,070	--	--	102,272	4,818,070
Franklin Rural Electric Coop	--	37,968	1,830,182	--	--	37,968	1,830,182
Glidden Rural Electric Coop	--	36,066	1,796,232	--	--	36,066	1,796,232
Grundy County Rural Elec Coop	--	47,458	2,259,290	--	--	47,458	2,259,290
Guthrie County Rural E C A	--	57,688	2,891,482	--	--	57,688	2,891,482
Hancock County Rural Elec Coop	--	43,240	2,035,845	--	--	43,240	2,035,845
Harrison County Rrl Elec Coop	--	44,124	1,888,990	--	--	44,124	1,888,990
Hawkeye Tri-County Elec Coop	--	115,978	5,037,977	--	--	115,978	5,037,977
Humboldt County R E C	--	40,602	1,919,979	--	--	40,602	1,919,979
Ida County Rural Electric Coop	--	34,585	1,415,632	--	--	34,585	1,415,632
Iowa Lakes Electric Corp	--	240,588	10,887,466	--	--	240,588	10,887,466
Linn County Rural El Coop Assn	--	162,371	8,810,991	2	162	162,373	8,811,153
Lyon Rural Electric C'rp	--	51,797	1,788,855	--	--	51,797	1,788,855
Maquoketa Valley Rrl Elec Coop	--	221,382	11,848,595	--	--	221,382	11,848,595
Marshall County Rrl Elec Coop	--	68,306	3,514,787	--	--	68,306	3,514,787
Midland Power Cooperative	--	168,243	8,198,684	--	--	168,243	8,198,684
Monona County Rural Elec Coop	--	33,392	1,518,715	--	--	33,392	1,518,715
Nishnabotna Valley R E C	--	70,817	2,945,858	--	--	70,817	2,945,858
Nyman Electric Cooperative Inc	--	21,213	1,052,689	--	--	21,213	1,052,689

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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)
Iowa							
O'Brien County Rural Elec Coop	--	--	--	--	--	--	--
Osoola Electric Coop Inc	--	--	--	--	--	--	--
Pella Cooperative Elec Assn	--	--	--	--	--	--	--
Plymouth Electric Coop Assn	--	--	--	--	--	--	--
Rideta Electric Coop Inc	--	--	--	--	--	--	--
S E Iowa Coop Electric Assn	--	--	--	--	--	--	--
Sec County Rural Electric Coop	--	--	--	--	--	--	--
Sioux Electric Coop Assn	--	--	--	--	--	--	--
South Crawford Rural Elec Corp	--	--	--	--	--	--	--
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 Cooperative Inc	--	--	--	--	--	--	--
D S & O Rural E C A Inc	--	--	--	--	--	--	--
Doniphan Elec Coop Assn Inc	15,134	571,882	--	--	--	--	--
Flint Hills Rural E C A Inc	--	--	--	--	--	--	--
Jewell-Mitchell Coop Elec Inc	--	--	--	--	--	--	--
Kaw Valley Elec Coop Inc	89,087	3,312,329	--	--	--	--	--
Lane-Scott Electric Coop Inc	--	--	--	--	--	--	--
Leavenworth-Jefferson E C Inc	--	--	--	--	--	--	--
Lyon-Coffey Electric Coop Inc	--	--	--	--	--	--	--
Midwest Energy Inc	432,394	18,492,300	--	--	--	--	--
N C K Electric Cooperative Inc	--	--	--	--	--	--	--
Nemaha-Marshall E C A Inc	43,133	1,571,893	--	--	--	--	--
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	59,927	3,222,488	--	--	--	--	--
Twin Valley Electric Coop Inc	--	--	--	--	--	--	--
United Electric Coop Inc	--	--	--	--	--	--	--
Victory Electric Coop Assn Inc	--	--	--	--	--	--	--
Western Coop Elec 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 Rural E C C	--	--	--	--	--	--	--
Hickman-Fulton Counties RECC	--	--	103,529	4,654,240	--	--	--
Inter-County Rural E C C	--	--	--	--	--	--	--
Jackson County Rural E C C	--	--	--	--	--	--	--

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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)
Iowa							
O'Brien County Rural Elec Coop	--	35,955	1,356,482	1	57	35,956	1,356,539
Osceola Electric Coop Inc	--	23,411	801,898	--	--	23,411	801,898
Pella Cooperative Elec Assn	--	35,845	1,848,850	--	--	35,845	1,848,850
Plymouth Electric Coop Assn	--	63,017	2,705,979	9	409	63,026	2,706,388
Ridgely Electric Coop Inc	--	33,348	1,821,107	--	--	33,348	1,821,107
S E Iowa Coop Electric Assn	--	154,953	5,958,439	--	--	154,953	5,958,439
Sac County Rural Electric Coop	--	20,501	1,036,183	--	--	20,501	1,036,183
Sioux Electric Coop Assn	--	73,582	3,032,102	--	--	73,582	3,032,102
South Crawford Rural Elec Corp	--	66,560	2,619,209	--	--	66,560	2,619,209
Southern Iowa Elec Coop Inc	--	62,425	2,542,282	--	--	62,425	2,542,282
T I P Rural Electric Coop	--	92,717	4,707,826	--	--	92,717	4,707,826
Winnebago Rural Elec Coop Assn	--	38,131	1,542,335	--	--	38,131	1,542,335
Woodbury County Rural E C A	--	45,108	1,918,328	--	--	45,108	1,918,328
Wright County Rural Elec Coop	--	73,019	2,762,763	--	--	73,019	2,762,763
Kansas							
Ark Valley Elec Coop Assn Inc	--	70,253	3,615,087	28	624	70,281	3,615,711
Brown-Atchison E C A Inc	--	33,395	1,763,432	--	--	33,395	1,763,432
Butler Rural El Coop Assn Inc	--	78,057	4,334,157	--	--	78,057	4,334,157
C & W Rural Elec Coop Assn Inc	--	36,550	1,868,868	--	--	36,550	1,868,868
Caney Valley El Coop Assn Inc	--	53,219	2,677,895	--	--	53,219	2,677,895
CMS Electric Cooperative Inc	--	83,532	3,835,173	--	--	83,532	3,835,173
D S & O Rural E C A Inc	--	85,250	4,769,449	--	--	85,250	4,769,449
Doniphan Elec Coop Assn Inc	--	--	--	--	--	15,134	571,882
Flint Hills Rural E C A Inc	--	66,709	3,552,940	--	--	66,709	3,552,940
Jewell-Mitchell Coop Elec Inc	--	45,490	2,437,160	--	--	45,490	2,437,160
Kaw Valley Elec Coop Inc	--	--	--	--	--	89,087	3,312,329
Lane-Scott Electric Coop Inc	--	65,371	4,029,435	--	--	65,371	4,029,435
Leavenworth-Jefferson E C Inc	--	62,703	3,707,719	--	--	62,703	3,707,719
Lyon-Coffey Electric Coop Inc	--	78,828	4,014,731	--	--	78,828	4,014,731
Midwest Energy Inc	--	444,539	10,061,270	39	295,381	876,972	28,848,951
N C K Electric Cooperative Inc	--	27,984	1,474,849	--	--	27,984	1,474,849
Nemaha-Marshall E C A Inc	--	--	--	--	--	43,133	1,571,893
Ninnescah Rural E C A Inc	--	51,759	2,672,122	12	300	51,771	2,672,422
Northwest Kansas E C A Inc	--	33,258	1,987,553	2	19	33,260	1,987,572
Norton-Decatur Coop El Co Inc	--	102,710	5,196,609	11	94	102,721	5,196,703
P R & W Electric Coop Assn Inc	--	30,606	1,742,376	--	--	30,606	1,742,376
Pioneer Electric Coop Inc	--	209,732	12,390,346	80	740	209,812	12,391,086
Radiant Electric Coop Inc	--	43,122	2,145,929	--	--	43,122	2,145,929
Sedgwick Cnty El Coop Assn Inc	--	62,269	3,565,178	8	181	62,277	3,565,359
Sekan Electric Coop Assn Inc	--	51,469	2,667,591	--	--	51,469	2,667,591
Smoky Hill Elec Coop Assn Inc	--	40,197	2,021,577	112	6,822	40,309	2,028,399
Sumner-Cowley Elec Coop Inc	--	--	--	--	--	59,927	3,222,488
Twin Valley Electric Coop Inc	--	23,027	1,295,361	--	--	23,027	1,295,361
United Electric Coop Inc	--	57,464	2,944,617	773	18,876	58,237	2,963,493
Victory Electric Coop Assn Inc	--	90,071	4,534,084	12	299	90,083	4,534,383
Western Coop Elec Assn Inc	--	124,443	7,415,531	4	39	124,447	7,415,570
Wheatland Electric Coop Inc	--	563,097	31,170,223	28	246	563,125	31,170,469
Kentucky							
Big Sandy Rural Elec Coop Corp	--	202,680	8,279,302	--	--	202,680	8,279,302
Blue Grass Rural El Coop Corp	--	379,799	15,489,743	--	--	379,799	15,489,743
Clark Rural Electric Coop Corp	--	252,997	10,405,761	--	--	252,997	10,405,761
Cumberland Valley Rural E C C	--	365,524	14,988,855	--	--	365,524	14,988,855
Farmers Rural Elec Coop Corp	--	267,341	10,893,167	--	--	267,341	10,893,167
Fleming-Mason Rural E C C	--	391,948	14,889,677	--	--	391,948	14,889,677
Fox Creek Rural Elec Coop Corp	--	124,633	5,106,769	--	--	124,633	5,106,769
Grayson Rural Elec Coop Corp	--	169,000	6,774,671	--	--	169,000	6,774,671
Green River Electric Corp	--	4,226,071	132,944,112	--	--	4,226,071	132,944,112
Harrison County Rural E C C	--	170,468	6,641,033	--	--	170,468	6,641,033
Henderson-Union Rural E C C	--	3,371,574	105,706,234	--	--	3,371,574	105,706,234
Hickman-Fulton Counties RECC	--	--	--	--	--	103,529	4,654,240
Inter-County Rural E C C	--	235,324	9,692,771	--	--	235,324	9,692,771
Jackson County Rural E C C	--	600,612	24,215,937	--	--	600,612	24,215,937

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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)
Kentucky							
Jackson Purchase El Coop Corp	--	--	--	--	--	--	--
Licking Valley Rural E C C	--	--	--	--	--	--	--
Meade County Rural E C C	--	--	--	--	--	--	--
Nclin Rural Electric Coop Corp	--	--	--	--	--	--	--
Owen Electric Cooperative Inc	--	--	--	--	--	--	--
Pennyrile Rural Elec Coop Corp	--	--	748,180	33,877,933	--	--	--
Salt River Rural El Coop Corp	--	--	--	--	--	--	--
Shelby Rural Elec Coop Corp	--	--	--	--	--	--	--
South Kentucky Rural E C C	--	--	--	--	--	--	--
Taylor County Rural E C C	--	--	--	--	--	--	--
Warren Rural Elec Coop Corp	--	--	951,778	40,557,433	--	--	--
West Kentucky Rural E C C	--	--	721,986	29,599,744	--	--	--
Louisiana							
Bossier Rural Elec Member Corp	--	--	--	--	--	--	--
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	28,030	1,542,998	--	--	--	--	--
Fox Islands Electric Coop Inc	7,760	569,240	--	--	--	--	--
Swan's Island Elec Coop Inc	2,078	172,110	--	--	--	--	--
Union River Electric Coop Inc	8,037	665,098	--	--	--	--	--
Maryland							
Choptank Electric Coop Inc	--	--	--	--	--	--	--
Southern Maryland El Coop Inc	2,122,122	96,601,125	--	--	--	--	--
Michigan							
Alger-Delta Coop Electric Assn	40,162	1,780,087	--	--	--	--	10,603
Cherryland Electric Coop Inc	--	--	--	--	--	--	--
Cloverland Electric Coop	175,187	3,722,384	--	--	--	--	33
Fruit Belt Electric Coop	--	--	--	--	--	--	--
O & A Electric Cooperative	--	--	--	--	--	--	--
Oceana Electric Cooperative	--	--	--	--	--	--	--
Ontonagon County R E A	21,236	1,020,314	--	--	--	--	--
Presque Isle Electric Coop Inc	--	--	--	--	--	--	--
Southeastern Michigan REC Inc	28,013	987,393	--	--	--	--	5,321
Thumb Electric Coop-Michigan	112,878	5,133,596	--	--	--	--	--
Top O'Michigan Elec Co	--	--	--	--	--	--	--
Tri-County Electric Coop	--	--	--	--	--	--	--
Western Michigan Electric Coop	--	--	--	--	--	--	--
Minnesota							
Agralite Cooperative	--	--	--	--	--	--	--
Anoka Electric Cooperative	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--
Cooperative L&P Assn Lake Cnty	--	--	--	--	--	--	--
Crow Wing Coop Power&Light Co	--	--	--	--	--	--	--
Dairyland Electric Coop Inc	--	--	--	--	--	--	--

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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)
Kentucky							
Jackson Purchase El Coop Corp	--	473,136	22,300,125	--	--	473,136	22,300,125
Licking Valley Rural E C C	--	189,984	7,678,905	--	--	189,984	7,678,905
Meade County Rural E C C	--	255,556	11,652,566	--	--	255,556	11,652,566
Nolin Rural Electric Coop Corp	--	437,885	17,394,875	--	--	437,885	17,394,875
Owen Electric Cooperative Inc	--	458,929	18,717,108	--	--	458,929	18,717,108
Pennyrile Rural Elec Coop Corp	--	--	--	--	--	748,180	33,877,933
Salt River Rural El Coop Corp	--	515,513	20,761,323	--	--	515,513	20,761,323
Shelby Rural Elec Coop Corp	--	241,237	9,343,732	--	--	241,237	9,343,732
South Kentucky Rural E C C	--	628,690	25,640,920	--	--	628,690	25,640,920
Taylor County Rural E C C	--	270,707	11,119,558	--	--	270,707	11,119,558
Warren Rural Elec Coop Corp	--	--	--	--	--	951,778	40,557,433
West Kentucky Rural E C C	--	--	--	--	--	721,966	29,599,744
Louisiana							
Bossier Rural Elec Member Corp	--	162,098	9,101,301	--	--	162,098	9,101,301
Claiborne Electric Coop Inc	--	314,535	16,875,229	--	--	314,535	16,875,229
Concordia Electric Coop Inc	--	144,117	7,763,750	--	--	144,117	7,763,750
Dixie Electric Membership Corp	--	991,553	55,580,088	--	--	991,553	55,580,088
Jefferson Davis Elec Coop Inc	--	162,796	8,671,402	--	--	162,796	8,671,402
Northeast Louisiana Power Coop	--	185,814	10,596,047	--	--	185,814	10,596,047
Pointe Coupee Elec Member Corp	--	155,787	7,851,185	--	--	155,787	7,851,185
South Louisiana Elec Coop Assn	--	362,370	18,513,598	--	--	362,370	18,513,598
Southwest Louisiana E M C	--	1,271,635	66,989,869	--	--	1,271,635	66,989,869
Teche Electric Coop Inc	--	141,329	8,286,957	--	--	141,329	8,286,957
Valley Electric Member Corp	--	416,460	23,257,704	--	--	416,460	23,257,704
Washington St Tammany E C Inc	--	532,989	29,205,518	--	--	532,989	29,205,518
Maine							
Eastern Maine Electric Coop	--	--	--	82,141	5,177,405	110,171	6,720,403
Fox Islands Electric Coop Inc	--	--	--	--	--	7,760	569,240
Swan's Island Elec Coop Inc	--	--	--	--	--	2,078	172,110
Union River Electric Coop Inc	--	--	--	--	--	8,037	665,098
Maryland							
Choptank Electric Coop Inc	--	559,306	29,375,437	--	--	559,306	29,375,437
Southern Maryland El Coop Inc	--	--	--	--	--	2,122,122	96,601,125
Michigan							
Alger-Delta Coop Electric Assn	641,186	--	--	--	--	50,765	2,421,273
Cherryland Electric Coop Inc	--	210,071	11,650,661	--	--	210,071	11,650,661
Cloverland Electric Coop	3,661	--	--	--	--	175,220	3,728,045
Fruit Belt Electric Coop	--	311,303	12,393,492	--	--	311,303	12,393,492
O & A Electric Cooperative	--	205,447	11,560,709	--	--	205,447	11,560,709
Oceana Electric Cooperative	--	74,823	4,141,706	--	--	74,823	4,141,706
Ontonagon County R E A	--	--	--	--	--	21,236	1,020,314
Presque Isle Electric Coop Inc	--	182,645	10,274,461	--	--	182,645	10,274,461
Southeastern Michigan REC Inc	307,721	11,164	396,959	--	--	45,498	1,692,073
Thumb Electric Coop-Michigan	--	--	--	--	--	112,878	5,133,596
Top O'Michigan Elec Co	--	385,220	21,477,232	--	--	385,220	21,477,232
Tri-County Electric Coop	--	199,941	11,167,364	--	--	199,941	11,167,364
Western Michigan Electric Coop	--	58,499	3,336,362	--	--	58,499	3,336,362
Minnesota							
Agralite Cooperative	--	94,723	2,938,803	38	4,003	94,761	2,942,806
Anoka Electric Cooperative	--	1,090,040	51,264,762	--	--	1,090,040	51,264,762
Arrowhead Electric Coop Inc	--	35,882	1,421,947	--	--	35,882	1,421,947
Beltrami Electric Coop Inc	--	306,013	9,802,826	--	--	306,013	9,802,826
Blue Earth-Nicollet-Faribault	--	175,795	8,148,444	--	--	175,795	8,148,444
Brown County Rural Elec Assn	--	86,289	3,336,325	--	--	86,289	3,336,325
Carlton County Coop Power Assn	--	109,888	4,731,521	--	--	109,888	4,731,521
Clearwater-Polk Elec Coop Inc	--	53,646	1,931,213	--	--	53,646	1,931,213
Cooperative L&P Assn Lake Cnty	--	58,718	2,215,167	--	--	58,718	2,215,167
Crow Wing Coop Power&Light Co	--	276,042	11,598,771	--	--	276,042	11,598,771
Dairyland Electric Coop Inc	--	130,314	6,226,897	--	--	130,314	6,226,897

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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)
Minnesota							
Dakota Electric Association	--	--	--	--	--	--	--
East Central Electric Assn	--	--	--	--	--	--	--
Federated Rural Electric Assn	--	--	--	--	--	--	--
Freeborn-Mower Electric Coop	--	--	--	--	--	--	--
Goodhue County Coop Elec Assn	--	--	--	--	--	--	--
Itasca-Mantrap Coop Elec Assn	--	--	22,924	381,079	--	--	--
Kandiyohi Coop Elec Power Assn	--	--	--	--	--	--	--
Lake Region Coop Elec Assn	--	--	--	--	--	--	--
Lyon-Lincoln Electric Coop Inc	--	--	--	--	--	--	--
McLeod Cooperative Power Assn	--	--	--	--	--	--	--
Meeker Coop Light & Power Assn	--	--	--	--	--	--	--
Mille Lacs Electric Coop	--	--	--	--	--	--	--
Minnesota Valley Coop L&P Assn	--	--	53,710	633,667	--	--	--
Minnesota Valley Electric Coop	--	--	--	--	--	--	--
Nobles Cooperative Electric	--	--	--	--	--	--	--
North Itasca Electric Coop Inc	--	--	--	--	--	--	--
North Pine Electric Coop Inc	--	--	--	--	--	--	--
North Star Electric Coop Inc	--	--	--	--	--	--	--
Northern Electric Coop Assn	--	--	--	--	--	--	--
P K M Electric Coop Inc	--	--	--	--	--	--	--
Peoples Cooperative Power Assn	--	--	--	--	--	--	--
Red Lake Electric Coop Inc	--	--	--	--	--	--	--
Red River Valley Coop Pwr Assn	--	--	--	--	--	--	--
Redwood Electric Cooperative	--	--	--	--	--	--	--
Renville-Sibley Coop Pwr Assn	--	--	--	--	--	--	--
Roseau Electric Coop Inc	--	--	--	--	--	--	--
Runestone Electric Association	--	--	--	--	--	--	--
South Central Electric Assn	--	--	--	--	--	--	--
Southwestern Minnesota Coop El	--	--	--	--	--	--	--
Stearns Cooperative Elec 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	--	--	429,421	18,639,784	--	--	--
Coahoma Electric Power Assn	--	--	--	--	--	--	--
Coast Electric Power Assn	--	--	--	--	--	--	--
Delta Electric Power Assn	--	--	--	--	--	--	--
Dixie Electric Power Assn	--	--	--	--	--	--	--
East Mississippi Elec Pwr Assn	296,676	9,780,804	198,410	7,947,205	--	--	--
Magnolia Electric Power Assn	--	--	--	--	--	--	--
Monroe County Elec Power Assn	--	--	142,573	6,219,017	--	--	--
Natchez Trace Elec Power Assn	--	--	279,025	12,441,979	--	--	--
North East Mississippi E P A	--	--	312,921	13,272,715	--	--	--
Northcentral Mississippi E P A	--	--	488,906	22,081,135	--	--	--
Pearl River Valley El Pwr Assn	--	--	--	--	--	--	--
Singing River Elec Power Assn	--	--	--	--	--	--	--
Southern Pine Elec Power Assn	--	--	--	--	--	--	--
Southwest Mississippi E P A	--	--	--	--	--	--	--
Tallahatchie Valley E P A	--	--	514,691	21,868,444	--	--	--
Tishomingo County El Pwr Assn	--	--	206,961	9,224,228	--	--	--
Tombigbee Electric Power Assn	--	--	736,332	32,770,803	--	--	--
Twin County Electric Pwr Assn	--	--	--	--	--	--	--
Yazoo Valley Elec Power Assn	--	--	--	--	--	--	--
4-County Electric Power Assn	--	--	710,027	30,023,634	--	--	--
Missouri							
Atchison-Holt Electric Coop	--	--	--	--	--	--	--
Barry Electric Cooperative	--	--	--	--	--	--	--
Barton County Elec Coop Inc	--	--	--	--	--	--	--

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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)
Minnesota							
Dakota Electric Association	--	998,670	50,286,554	--	--	998,670	50,286,554
East Central Electric Assn	--	450,641	19,781,737	--	--	450,641	19,781,737
Federated Rural Electric Assn	--	118,418	4,012,064	--	--	118,418	4,012,064
Freeborn-Mower Electric Coop	--	122,058	4,700,746	--	--	122,058	4,700,746
Goodhue County Coop Elec Assn	--	69,364	3,662,632	--	--	69,364	3,662,632
Itasca-Mantrap Coop Elec Assn	--	70,618	2,900,348	--	--	93,542	3,281,427
Kandiyohi Coop Elec Power Assn	--	109,258	3,950,875	--	--	109,258	3,950,875
Lake Region Coop Elec Assn	--	262,180	10,298,727	34	2,004	262,214	10,300,731
Lyon-Lincoln Electric Coop Inc	--	65,777	2,725,513	--	--	65,777	2,725,513
McLeod Cooperative Power Assn	--	109,224	4,951,298	--	--	109,224	4,951,298
Meeker Coop Light & Power Assn	--	111,512	4,508,065	--	--	111,512	4,508,065
Mille Lacs Electric Coop	--	100,294	4,385,206	--	--	100,294	4,385,206
Minnesota Valley Coop L&P Assn	--	76,438	3,991,704	--	--	130,148	4,625,371
Minnesota Valley Electric Coop	--	237,850	11,413,604	--	--	237,850	11,413,604
Nobles Cooperative Electric	--	95,859	3,188,306	2	134	95,861	3,188,440
North Itasca Electric Coop Inc	--	31,779	1,388,968	--	--	31,779	1,388,968
North Pine Electric Coop Inc	--	76,905	3,421,730	--	--	76,905	3,421,730
North Star Electric Coop Inc	--	81,325	2,500,819	--	--	81,325	2,500,819
Northern Electric Coop Assn	--	188,829	7,700,241	--	--	188,829	7,700,241
P K M Electric Coop Inc	--	88,381	3,014,915	--	--	88,381	3,014,915
Peoples Cooperative Power Assn	--	204,085	8,244,912	4	255	204,089	8,245,167
Red Lake Electric Coop Inc	--	98,440	3,419,336	--	--	98,440	3,419,336
Red River Valley Coop Pwr Assn	--	109,159	3,743,529	--	--	109,159	3,743,529
Redwood Electric Cooperative	--	53,509	1,919,334	--	--	53,509	1,919,334
Renville-Sibley Coop Pwr Assn	--	66,123	2,332,386	--	--	66,123	2,332,386
Roseau Electric Coop Inc	--	121,712	3,562,214	10	550	121,722	3,562,764
Runestone Electric Association	--	148,316	5,469,474	--	--	148,316	5,469,474
South Central Electric Assn	--	87,728	2,970,480	--	--	87,728	2,970,480
Southwestern Minnesota Coop El	--	66,444	2,255,327	--	--	66,444	2,255,327
Stearns Cooperative Elec Assn	--	274,831	11,780,737	16	1,120	274,847	11,781,857
Steele Waseca Coop Electric	--	121,372	5,391,137	3	249	121,375	5,391,386
Todd-Wadena Electric Coop	--	115,002	4,323,186	--	--	115,002	4,323,186
Traverse Electric Coop Inc	--	58,781	2,194,551	--	--	58,781	2,194,551
Tri-County Electric Coop	--	238,152	9,625,811	43	2,800	238,195	9,628,611
Wild Rice Electric Coop Inc	--	169,069	5,739,436	--	--	169,069	5,739,436
Wright-Hennepin Coop Elec Assn	--	400,352	17,282,125	--	--	400,352	17,282,125
Mississippi							
Central Electric Power Assn	--	--	--	--	--	429,421	18,639,784
Coahoma Electric Power Assn	--	89,129	4,247,779	--	--	89,129	4,247,779
Coast Electric Power Assn	--	823,751	36,599,257	--	--	823,751	36,599,257
Delta Electric Power Assn	--	367,245	17,521,188	--	--	367,245	17,521,188
Dixie Electric Power Assn	--	491,085	23,529,563	--	--	491,085	23,529,563
East Mississippi Elec Pwr Assn	--	--	--	--	--	495,086	17,728,009
Magnolia Electric Power Assn	--	380,879	17,574,933	--	--	380,879	17,574,933
Monroe County Elec Power Assn	--	--	--	--	--	142,573	6,219,017
Natchez Trace Elec Power Assn	--	--	--	--	--	279,025	12,441,979
North East Mississippi E P A	--	--	--	--	--	312,921	13,272,715
Northcentral Mississippi E P A	--	--	--	--	--	488,906	22,081,135
Pearl River Valley El Pwr Assn	--	438,535	20,608,991	--	--	438,535	20,608,991
Singing River Elec Power Assn	--	847,964	39,875,188	--	--	847,964	39,875,188
Southern Pine Elec Power Assn	--	1,267,926	55,053,219	--	--	1,267,926	55,053,219
Southwest Mississippi E P A	--	348,732	16,024,283	--	--	348,732	16,024,283
Tallahatchie Valley E P A	--	--	--	--	--	514,691	21,868,444
Tishomingo County El Pwr Assn	--	--	--	--	--	206,961	9,224,228
Tombigbee Electric Power Assn	--	--	--	--	--	736,332	32,770,803
Twin County Electric Pwr Assn	--	204,508	9,767,012	--	--	204,508	9,767,012
Yazoo Valley Elec Power Assn	--	219,442	7,855,685	--	--	219,442	7,855,685
4-County Electric Power Assn	--	--	--	--	--	710,027	30,023,634
Missouri							
Atchison-Holt Electric Coop	--	61,044	2,389,075	--	--	61,044	2,389,075
Barry Electric Cooperative	--	118,187	5,246,079	--	--	118,187	5,246,079
Barton County Elec Coop Inc	--	68,356	3,267,293	--	--	68,356	3,267,293

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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)
Missouri							
Black River Electric Coop	--	--	--	--	--	--	--
Boone Electric Cooperative	--	--	--	--	--	--	--
Callaway Electric Cooperative	--	--	--	--	--	--	--
Central Missouri Elec Coop Inc	--	--	--	--	--	--	--
Citizens Electric Corporation	627,121	22,771,922	--	--	--	--	--
Consolidated Electric Coop	--	--	--	--	--	--	--
Crawford Electric Coop Inc	151	11,518	--	--	--	--	--
CO-MO Electric Coop Inc	--	--	--	--	--	--	--
Farmers Electric Coop Inc	--	--	--	--	--	--	--
Gasco Sage Electric Cooperative	--	--	--	--	--	--	--
Grundy Electric Coop Inc	--	--	--	--	--	--	--
Howard Electric Cooperative	--	--	--	--	--	--	--
Howell-Oregon Elec Coop Inc	--	--	--	--	--	--	--
Iniercounty Electric Coop Assn	--	--	--	--	--	--	--
Laclede Electric Coop Inc	--	--	--	--	--	--	--
Lewis County Rural E C A	--	--	--	--	--	--	--
Macon Electric Cooperative	--	--	--	--	--	--	--
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 Cooperative Inc	--	--	--	--	--	--	--
Pemiscot-Dunklin Elec Coop Inc	--	--	--	--	--	--	--
Platte-Clay Electric Coop Inc	--	--	--	--	--	--	--
Ralls County Electric Coop	--	--	--	--	--	--	--
Sac-Osage Electric Coop Inc	--	--	--	--	--	--	--
Scott-New Madrid-MS Elec Coop	--	--	--	--	--	--	--
Southwest Electric Cooperative	--	--	--	--	--	--	--
SE-MA-NO Electric Cooperative	--	--	--	--	--	--	--
Three Rivers Electric Coop	--	--	--	--	--	--	--
Tri-County Electric Coop Assn	--	--	--	--	--	--	--
Webster Electric Cooperative	--	--	--	--	--	--	--
West Central Electric Coop Inc	--	--	--	--	--	--	--
White River Valley El Coop Inc	--	--	--	--	--	--	--
Montana							
Beartooth Electric Coop Inc	--	--	--	--	--	--	--
Big Flat Electric Coop Inc	--	--	--	--	--	--	--
Big Horn County Elec Coop Inc	--	--	--	--	--	--	--
Fergus Electric Coop Inc	--	--	--	--	--	--	--
Flathead Electric Coop Inc	--	--	164,829	3,733,374	--	--	--
Glacier Electric Coop Inc	--	--	148,825	3,298,554	--	--	--
Goldenwest Electric Coop Inc	--	--	--	--	--	--	--
Hill County Electric Coop Inc	--	--	--	--	--	--	--
Lincoln Electric Coop Inc	--	--	94,980	2,125,496	--	--	--
Lower Yellowstone R E A Inc	--	--	--	--	--	--	--
Marias River Electric Coop Inc	--	--	--	--	--	--	--
McCone Electric Co-op Inc	--	--	--	--	--	--	--
Mid-Yellowstone Elec Coop Inc	--	--	--	--	--	--	--
Missoula Electric Coop Inc	--	--	139,424	3,145,217	--	--	--
Northern Electric Coop Inc	--	--	--	--	--	--	--
Park Electric Cooperative Inc	--	--	--	--	--	--	--
Ravalli County Elec Coop Inc	--	--	90,639	2,038,303	--	--	--
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	--	--	116,393	2,608,961	--	--	--
Yellowstone Vly Elec Coop Inc	124,961	3,217,393	24,647	628,303	--	--	--

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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)
Missouri							
Black River Electric Coop	--	301,475	11,841,230	--	--	301,475	11,841,230
Boone Electric Cooperative	--	308,239	13,434,673	--	--	308,239	13,434,673
Callaway Electric Cooperative	--	117,044	4,919,931	--	--	117,044	4,919,931
Central Missouri Elec Coop Inc	--	120,876	5,031,490	--	--	120,876	5,031,490
Citizens Electric Corporation	--	--	--	--	--	627,121	22,771,922
Consolidated Electric Coop	--	142,991	5,472,385	--	--	142,991	5,472,385
Crawford Electric Coop Inc	--	181,843	7,736,924	--	--	181,894	7,748,442
CO-MO Electric Coop Inc	--	228,638	9,863,840	--	--	228,638	9,863,840
Farmers Electric Coop Inc	--	241,986	8,406,651	--	--	241,986	8,406,651
Gascosage Electric Cooperative	--	94,078	4,052,634	--	--	94,078	4,052,634
Grundy Electric Coop Inc	--	111,816	4,082,026	--	--	111,816	4,082,026
Howard Electric Cooperative	--	27,187	1,124,771	--	--	27,187	1,124,771
Howell-Oregon Elec Coop Inc	--	238,962	9,626,333	1,044	29,713	240,006	9,656,046
Intercounty Electric Coop Assn	--	361,109	15,310,272	--	--	361,109	15,310,272
Laclede Electric Coop Inc	--	377,970	16,281,415	--	--	377,970	16,281,415
Lewis County Rural E C A	--	72,000	3,019,687	--	--	72,000	3,019,687
Macon Electric Cooperative	--	195,450	6,825,968	--	--	195,450	6,825,968
Missouri Rural Electric Coop	--	249,662	8,890,051	--	--	249,662	8,890,051
New-Mac Electric Coop Inc	--	161,085	7,541,884	--	--	161,085	7,541,884
Nodaway Worth Elec Coop Inc	--	44,376	2,006,401	--	--	44,376	2,006,401
North Central MO Elec Coop Inc	--	70,677	2,657,352	--	--	70,677	2,657,352
Northwest Missouri El Coop Inc	--	93,065	3,679,543	--	--	93,065	3,679,543
Osage Valley Elec Coop Assn	--	182,578	8,641,911	--	--	182,578	8,641,911
Ozark Border Electric Coop	--	386,388	15,855,503	--	--	386,388	15,855,503
Ozark Electric Cooperative Inc	--	280,165	13,573,026	--	--	280,165	13,573,026
Pemiscot-Dunklin Elec Coop Inc	--	88,150	3,661,206	--	--	88,150	3,661,206
Platte-Clay Electric Coop Inc	--	250,641	11,164,577	--	--	250,641	11,164,577
Ralls County Electric Coop	--	51,716	2,276,021	--	--	51,716	2,276,021
Sac-Osage Electric Coop Inc	--	92,621	4,354,727	--	--	92,621	4,354,727
Scott-New Madrid-MS Elec Coop	--	187,247	7,790,140	--	--	187,247	7,790,140
Southwest Electric Cooperative	--	307,459	14,832,163	--	--	307,459	14,832,163
SE-MA-NO Electric Cooperative	--	56,133	2,366,441	--	--	56,133	2,366,441
Three Rivers Electric Coop	--	245,765	9,977,835	--	--	245,765	9,977,835
Tri-County Electric Coop Assn	--	96,579	3,752,361	--	--	96,579	3,752,361
Webster Electric Cooperative	--	194,065	8,133,335	--	--	194,065	8,133,335
West Central Electric Coop Inc	--	136,689	5,934,632	--	--	136,689	5,934,632
White River Valley El Coop Inc	--	389,483	17,890,013	171	8,038	389,654	17,898,051
Montana							
Beartooth Electric Coop Inc	--	42,755	1,105,487	--	--	42,755	1,105,487
Big Flat Electric Coop Inc	--	54,689	1,194,608	--	--	54,689	1,194,608
Big Horn County Elec Coop Inc	--	47,303	1,109,991	--	--	47,303	1,109,991
Fergus Electric Coop Inc	--	81,285	1,965,995	--	--	81,285	1,965,995
Flathead Electric Coop Inc	--	--	--	--	--	164,829	3,733,374
Glacier Electric Coop Inc	--	--	--	--	--	148,825	3,298,554
Goldenwest Electric Coop Inc	--	13,355	507,364	--	--	13,355	507,364
Hill County Electric Coop Inc	--	51,761	1,190,804	--	--	51,761	1,190,804
Lincoln Electric Coop Inc	--	--	--	--	--	94,960	2,125,496
Lower Yellowstone R E A Inc	--	74,790	3,246,935	--	--	74,790	3,246,935
Marias River Electric Coop Inc	--	81,975	1,874,402	--	--	81,975	1,874,402
McCone Electric Co-op Inc	--	58,461	2,021,540	--	--	58,461	2,021,540
Mid-Yellowstone Elec Coop Inc	--	24,940	599,022	--	--	24,940	599,022
Missoula Electric Coop Inc	--	--	--	--	--	139,424	3,145,217
Northern Electric Coop Inc	--	30,960	627,759	--	--	30,960	627,759
Park Electric Cooperative Inc	--	45,055	1,168,542	7	143	45,062	1,168,685
Ravalli County Elec Coop Inc	--	--	--	--	--	90,639	2,038,303
Sheridan Electric Coop Inc	--	79,767	3,100,026	--	--	79,767	3,100,026
Southeast Electric Coop Inc	--	18,980	686,395	--	--	18,980	686,395
Sun River Electric Coop Inc	--	80,361	1,853,236	--	--	80,361	1,853,236
Tongue River Electric Coop Inc	--	78,974	1,848,676	--	--	78,974	1,848,676
Valley Electric Coop Inc	--	21,710	544,726	--	--	21,710	544,726
Vigilante Electric Coop Inc	--	--	--	--	--	116,393	2,608,961
Yellowstone Vly Elec Coop Inc	--	--	--	--	--	149,608	3,845,696

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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							
Midwest Electric Member Corp	--	--	--	--	--	--	--
Panhandle Rural El Member Assn	--	--	--	--	--	--	420
Nevada							
Mt Wheeler Power Inc	--	--	--	--	--	--	--
Valley Electric Assn Inc	159,400	5,436,379	--	--	119,616	1,885,240	--
Wells Rural Electric Company	--	--	393,716	8,088,058	--	--	--
New Hampshire							
New Hampshire Elec Coop Inc	643,736	40,845,823	--	--	--	--	--
New Jersey							
Sussex Rural Electric Coop Inc	--	--	--	--	--	--	--
New Mexico							
Central New Mexico El Coop Inc	--	--	--	--	--	--	--
Central Valley Elec Coop Inc	337,392	10,843,409	--	--	--	--	--
Columbus Electric Coop Inc	--	--	--	--	--	--	--
Continental Divide El Coop Inc	--	--	--	--	--	--	--
Farmers' Elec Coop Inc N Mex	132,008	4,655,341	--	--	--	--	--
Jemez Mountains Elec Coop Inc	--	--	--	--	--	--	--
Kit Carson Electric Coop Inc	--	--	--	--	--	--	--
Lea County Electric Coop Inc	663,050	21,025,163	--	--	--	--	--
Mora-San Miguel Elec Coop Inc	--	--	--	--	--	--	--
Northern Rio Arriba E Coop Inc	--	--	--	--	--	--	--
Otero County Electric Coop Inc	--	--	--	--	--	--	--
Roosevelt County Elec Coop Inc	107,856	3,702,211	--	--	--	--	--
Sierra Electric Coop Inc	--	--	--	--	--	--	--
Socorro Electric Coop Inc	--	--	--	--	--	--	--
Southwestern Electric Coop Inc	--	--	--	--	--	--	--
Springer Electric Coop Inc	--	--	--	--	--	--	--
New York							
Delaware County Elec Coop Inc	--	--	--	--	45,043	916,733	--
Oneida-Madison Elec Coop Inc	--	--	--	--	17,637	382,867	--
Otsego Electric Coop Inc	--	--	--	--	41,588	940,704	--
Steuben Rural Elec Coop Inc	--	--	--	--	59,491	1,022,773	--
North Carolina							
Albemarle Electric Member Corp	--	--	6,211	166,815	--	--	--
Blue Ridge Elec Member Corp	--	--	13,920	378,388	--	--	--
Brunswick Electric Member Corp	--	--	8,928	206,646	--	--	--
Cape Hatteras Elec Member Corp	--	--	--	--	--	--	--
Carteret-Craven El Member Corp	--	--	6,804	157,498	--	--	--
Central Electric Member Corp	--	--	3,147	72,840	--	--	--
Crescent Electric Member Corp	--	--	31,855	865,932	--	--	--
Davidson Electric Member Corp	--	--	--	--	--	--	--
Edgecombe-Martin County E M C	--	--	9,953	267,303	--	--	--
Four County Elec Member Corp	--	--	10,663	246,799	--	--	--
French Broad Elec Member Corp	346,733	16,856,573	13,379	431,992	--	--	--
Halifax Electric Member Corp	--	--	6,327	164,409	--	--	--
Harkers Island El Member Corp	--	--	42	2,486	--	--	--
Haywood Electric Member Corp	--	--	5,551	170,886	--	--	--
Jones-Onslow Elec Member Corp	--	--	13,167	304,766	--	--	--
Lumbee River Elec Member Corp	--	--	9,471	219,227	--	--	--
Pee Dee Electric Member Corp	--	--	8,304	195,293	--	--	--
Piedmont Electric Member Corp	--	--	2,758	63,845	--	--	--
Pitt & Greene Elec Member Corp	--	--	4,013	92,888	--	--	--
Randolph Electric Member Corp	--	--	9,164	212,113	--	--	--
Roanoke Electric Member Corp	--	--	13,242	355,632	--	--	--
Rutherford Elec Member Corp	--	--	44,583	1,212,002	--	--	--
South River Elec Member Corp	--	--	15,542	359,734	--	--	--
Surry-Yadkin Elec Member Corp	--	--	--	--	--	--	--
Tideland Electric Member Corp	--	--	7,519	195,534	--	--	--

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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							
Midwest Electric Member Corp	—	111,519	5,530,734	—	—	111,519	5,530,734
Panhandle Rural El Member Assn	5,896	92,280	4,365,566	—	—	92,700	4,371,462
Nevada							
Mt Wheeler Power Inc	—	94,379	5,114,843	84,434	1,588,864	178,813	6,701,707
Valley Electric Assn Inc	—	—	—	—	—	279,016	7,321,619
Wells Rural Electric Company	—	—	—	—	—	393,716	8,088,058
New Hampshire							
New Hampshire Elec Coop Inc	—	—	—	56	1,158	643,792	40,846,981
New Jersey							
Sussex Rural Electric Coop Inc	—	108,774	6,829,294	—	—	108,774	6,829,294
New Mexico							
Central New Mexico El Coop Inc	—	95,296	6,131,572	—	—	95,296	6,131,572
Central Valley Elec Coop Inc	—	—	—	—	—	337,392	10,843,409
Columbus Electric Coop Inc	—	251,396	12,378,404	—	—	251,396	12,378,404
Continental Divide El Coop Inc	—	221,068	14,150,781	—	—	221,068	14,150,781
Farmers' Elec Coop Inc N Mex	—	—	—	—	—	132,008	4,655,341
Jemez Mountains Elec Coop Inc	—	227,849	14,313,992	—	—	227,849	14,313,992
Kit Carson Electric Coop Inc	—	188,516	12,108,336	—	—	188,516	12,108,336
Lea County Electric Coop Inc	—	—	—	—	—	663,050	21,025,163
Mora-San Miguel Elec Coop Inc	—	44,876	2,897,752	—	—	44,876	2,897,752
Northern Rio Arriba E Coop Inc	—	22,259	1,391,521	—	—	22,259	1,391,521
Otero County Electric Coop Inc	—	99,310	6,266,899	—	—	99,310	6,266,899
Roosevelt County Elec Coop Inc	—	—	—	—	—	107,856	3,702,211
Sierra Electric Coop Inc	—	34,928	2,234,122	—	—	34,928	2,234,122
Socorro Electric Coop Inc	—	127,710	7,777,014	—	—	127,710	7,777,014
Southwestern Electric Coop Inc	—	302,916	13,387,925	—	—	302,916	13,387,925
Springer Electric Coop Inc	—	55,325	3,078,722	—	—	55,325	3,078,722
New York							
Delaware County Elec Coop Inc	—	—	—	—	—	45,043	916,733
Oneida-Madison Elec Coop Inc	—	—	—	—	—	17,837	382,867
Otsego Electric Coop Inc	—	—	—	—	—	41,588	940,704
Steuben Rural Elec Coop Inc	—	—	—	—	—	59,491	1,022,773
North Carolina							
Albemarle Electric Member Corp	—	99,408	5,613,825	—	—	105,619	5,780,640
Blue Ridge Elec Member Corp	—	838,789	38,063,696	675	23,659	853,384	38,465,743
Brunswick Electric Member Corp	—	579,839	38,282,834	—	—	588,767	38,489,480
Cape Hatteras Elec Member Corp	—	73,072	4,151,548	—	—	73,072	4,151,548
Carteret-Craven El Member Corp	—	355,995	22,270,212	—	—	362,799	22,427,710
Central Electric Member Corp	—	141,592	9,029,589	—	—	144,739	9,102,429
Crescent Electric Member Corp	—	670,996	34,073,704	1	88	702,852	34,939,724
Davidson Electric Member Corp	—	463,555	23,227,777	—	—	463,555	23,227,777
Edgecombe-Martin County E M C	—	151,625	7,984,882	—	—	161,578	8,251,985
Four County Elec Member Corp	—	374,227	22,659,862	—	—	384,890	22,906,661
French Broad Elec Member Corp	—	—	—	—	—	360,112	17,288,565
Halifax Electric Member Corp	—	96,050	4,964,969	—	—	102,377	5,129,378
Harkers Island El Member Corp	—	13,684	826,795	—	—	13,726	829,281
Haywood Electric Member Corp	—	168,350	8,315,391	—	—	173,901	8,486,277
Jones-Onslow Elec Member Corp	—	570,897	36,556,003	—	—	584,064	36,880,769
Lumbee River Elec Member Corp	—	488,727	31,166,571	—	—	498,198	31,385,798
Pee Dee Electric Member Corp	—	231,623	13,845,593	—	—	239,927	14,040,886
Piedmont Electric Member Corp	—	273,906	14,670,558	—	—	276,664	14,734,403
Pitt & Greene Elec Member Corp	—	119,390	7,315,188	—	—	123,403	7,408,076
Randolph Electric Member Corp	—	328,462	20,271,496	—	—	337,626	20,483,609
Roanoke Electric Member Corp	—	159,650	8,434,310	—	—	172,892	8,789,942
Rutherford Elec Member Corp	—	737,642	36,528,173	—	—	782,225	37,740,175
South River Elec Member Corp	—	416,601	27,381,282	—	—	432,143	27,741,016
Surry-Yadkin Elec Member Corp	—	231,282	12,096,745	—	—	231,282	12,096,745
Tideland Electric Member Corp	—	214,144	12,870,075	—	—	221,663	13,065,609

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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							
Tri-County Elec Member Corp	--	--	7,864	182,013	--	--	--
Union Electric Membership Corp	--	--	21,284	578,581	--	--	--
Wake Electric Membership Corp	--	--	5,496	127,221	--	--	--
North Dakota							
Baker Electric Coop Inc	--	--	--	--	--	--	--
Burke-Divide Electric Coop Inc	--	--	--	--	--	--	--
Capital Electric Coop Inc	--	--	12,748	157,176	--	--	--
Cass County Electric Coop Inc	--	--	--	--	--	--	--
Cavalier Rural Elec Coop Inc	--	--	--	--	--	--	--
James Valley Electric Coop Inc	60	2,105	--	--	--	--	--
KEM Electric Cooperative Inc	--	--	34,104	417,447	--	--	--
McKenzie Electric Coop Inc	--	--	--	--	--	--	--
McLean Electric Coop Inc	--	--	--	--	--	--	--
Mor-Gran-Sou Electric Coop Inc	--	--	27,810	329,675	--	--	--
Mountrail-Williams Elec Coop	--	--	--	--	--	--	--
Nodak Rural Electric Coop Inc	--	--	--	--	--	--	--
North Central Elec Coop Inc	--	--	--	--	--	--	--
Oliver-Mercer Elec Coop Inc	--	--	18,525	215,889	--	--	--
R S R Electric Coop Inc	--	--	--	--	--	--	--
Shenandoah 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	--	--	--	--	--	--	--
Delaware Rural Elec Coop Inc	--	--	--	--	--	--	--
Firelands Electric Coop Inc	--	--	--	--	--	--	--
Frontier Power Company	--	--	--	--	--	--	--
Guernsey-Muskingum El Coop Inc	--	--	--	--	--	--	--
Hancock-Wood Electric Coop Inc	--	--	--	--	--	--	--
Holmes-Wayne Electric Coop Inc	--	--	--	--	--	--	--
Licking Rural Electric 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 Western Elec Coop Inc	--	--	--	--	--	--	--
North-Central Elec Coop Inc	--	--	--	--	--	--	--
Paulding-Putman Elec Coop Inc	--	--	--	--	--	--	--
Pioneer Rural Elec Coop Inc	--	--	--	--	--	--	--
South Central Power Company	--	--	--	--	--	--	--
TriCounty Rural Elec Coop Inc	--	--	--	--	--	--	--
Union Rural Electric Coop Inc	--	--	--	--	--	--	--
United Rural Electric Coop Inc	--	--	--	--	--	--	--
Washington Electric Coop Inc	--	--	--	--	--	--	--
Oklahoma							
Alfalfa Electric Coop Inc	--	--	--	--	--	--	--
Caddo Electric Coop Inc	--	--	--	--	--	--	--
Canadian Valley Elec Coop Inc	--	--	--	--	--	--	--
Central Rural Electric Coop	--	--	--	--	--	--	--
Choctaw Electric Coop Inc	--	--	--	--	--	--	--
Cimarron Electric Cooperative	--	--	--	--	--	--	--
Cookson Hills Elec Coop Inc	--	--	--	--	--	--	--
Cotton Electric Coop Inc	--	--	--	--	--	--	--
East Central Okla El Coop Inc	--	--	--	--	--	--	--

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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							
Tri-County Elec Member Corp	--	305,212	18,638,213	--	--	313,076	18,820,226
Union Electric Membership Corp	--	460,835	25,225,370	--	--	482,119	25,803,931
Wake Electric Membership Corp	--	254,398	14,441,825	--	--	259,894	14,569,046
North Dakota							
Baker Electric Coop Inc	--	131,363	5,061,935	--	--	131,363	5,061,935
Burke-Divide Electric Coop Inc	--	51,213	1,735,931	--	--	51,213	1,735,931
Capital Electric Coop Inc	--	91,681	4,372,818	--	--	104,429	4,529,994
Cass County Electric Coop Inc	--	391,512	11,519,481	--	--	391,512	11,519,481
Cavalier Rural Elec Coop Inc	--	40,335	1,463,910	--	--	40,335	1,463,910
James Valley Electric Coop Inc	--	67,642	2,918,168	--	--	67,702	2,920,273
KEM Electric Cooperative Inc	--	18,347	907,989	--	--	52,451	1,325,436
McKenzie Electric Coop Inc	--	273,667	10,701,225	--	--	273,667	10,701,225
McLean Electric Coop Inc	--	47,438	1,948,042	93	1,827	47,531	1,949,869
Mor-Gran-Sou Electric Coop Inc	--	63,262	3,278,496	13	308	91,085	3,608,479
Mountrail-Williams Elec Coop	--	141,272	4,744,221	--	--	141,272	4,744,221
Nodak Rural Electric Coop Inc	--	487,305	16,109,442	--	--	487,305	16,109,442
North Central Elec Coop Inc	--	141,526	5,608,149	--	--	141,526	5,608,149
Oliver-Mercer Elec Coop Inc	--	160,515	8,285,918	7	130	179,047	8,501,937
R S R Electric Coop Inc	--	110,802	4,483,384	--	--	110,802	4,483,384
Shayenne Valley Elec Coop Inc	--	71,081	2,464,996	--	--	71,081	2,464,996
Slope Electric Coop Inc	--	51,409	2,095,592	--	--	51,409	2,095,592
Tri-County Electric Coop Inc	--	98,927	4,060,425	--	--	98,927	4,060,425
Verendrye Electric Coop Inc	--	244,105	8,478,041	--	--	244,105	8,478,041
West Plains Electric Coop Inc	--	210,986	9,862,676	--	--	210,986	9,862,676
Ohio							
Adams Rural Electric Coop Inc	--	60,318	2,278,196	--	--	60,318	2,278,196
Buckeye Rural Elec Coop Inc	--	183,136	7,129,011	--	--	183,136	7,129,011
Butler Rural Electric Coop Inc	--	150,591	5,937,028	--	--	150,591	5,937,028
Carroll Electric Coop Inc	--	116,597	4,183,668	--	--	116,597	4,183,668
Darke Rural Electric Coop Inc	--	88,184	3,366,310	--	--	88,184	3,366,310
Delaware Rural Elec Coop Inc	--	74,385	2,757,459	--	--	74,385	2,757,459
Firelands Electric Coop Inc	--	99,200	3,418,231	--	--	99,200	3,418,231
Frontier Power Company	--	101,437	3,566,124	--	--	101,437	3,566,124
Guernsey-Muskingum El Coop Inc	--	134,957	4,930,049	--	--	134,957	4,930,049
Hancock-Wood Electric Coop Inc	--	318,541	9,980,036	--	--	318,541	9,980,036
Holmes-Wayne Electric Coop Inc	--	209,731	7,481,111	--	--	209,731	7,481,111
Licking Rural Electric Inc	--	237,037	8,619,901	--	--	237,037	8,619,901
Logan Cnty Coop P&L Assn Inc	--	82,607	2,945,562	--	--	82,607	2,945,562
Lorain-Medina R E C Inc	--	169,392	6,048,057	--	--	169,392	6,048,057
Marion Rural Electric Coop Inc	--	51,799	1,921,727	--	--	51,799	1,921,727
Midwest Electric Inc	--	160,123	5,846,144	--	--	160,123	5,846,144
Morrow Electric Coop Inc	--	99,523	3,654,835	--	--	99,523	3,654,835
North Western Elec Coop Inc	--	72,941	2,548,314	--	--	72,941	2,548,314
North-Central Elec Coop Inc	--	240,058	7,632,086	--	--	240,058	7,632,086
Paulding-Putman Elec Coop Inc	--	191,522	7,625,559	--	--	191,522	7,625,559
Pioneer Rural Elec Coop Inc	--	387,090	13,219,487	--	--	387,090	13,219,487
South Central Power Company	--	1,228,228	45,308,941	--	--	1,228,228	45,308,941
TriCounty Rural Elec Coop Inc	--	48,298	1,757,459	--	--	48,298	1,757,459
Union Rural Electric Coop Inc	--	356,229	11,866,235	--	--	356,229	11,866,235
United Rural Electric Coop Inc	--	47,078	1,745,047	--	--	47,078	1,745,047
Washington Electric Coop Inc	--	75,612	2,750,424	--	--	75,612	2,750,424
Oklahoma							
Alfalfa Electric Coop Inc	--	127,393	5,984,157	--	--	127,393	5,984,157
Caddo Electric Coop Inc	--	213,998	10,914,832	--	--	213,998	10,914,832
Canadian Valley Elec Coop Inc	--	299,641	13,745,370	--	--	299,641	13,745,370
Central Rural Electric Coop	--	228,868	10,109,234	--	--	228,868	10,109,234
Choctaw Electric Coop Inc	--	214,721	8,865,841	--	--	214,721	8,865,841
Cimarron Electric Cooperative	--	162,680	8,022,185	--	--	162,680	8,022,185
Cookson Hills Elec Coop Inc	--	177,595	8,235,647	--	--	177,595	8,235,647
Cotton Electric Coop Inc	--	426,553	19,345,149	--	--	426,553	19,345,149
East Central Okla El Coop Inc	--	344,745	15,610,441	--	--	344,745	15,610,441

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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							
Harmon Electric Assn Inc	--	--	--	--	--	--	--
Indian Electric Coop Inc	--	--	--	--	--	--	--
Key Electric Cooperative	--	--	--	--	--	--	--
Kiamichi Electric Coop Inc	--	--	--	--	--	--	--
Klwasch Electric Coop Inc	--	--	--	--	--	--	--
Lake Region Electric Coop Inc	9	600	--	--	--	--	--
Northeast Oklahoma El Coop Inc	46	2,659	--	--	356,060	12,749,971	--
Northfork Electric Coop Inc	--	--	--	--	--	--	--
Northwestern Electric Coop Inc	--	--	--	--	--	--	--
Oklahoma Electric Coop Inc	--	--	--	--	--	--	--
Red River Valley Rri 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	--	--	128,859	3,129,821	--	--	--
Central Electric Coop Inc	--	--	376,860	9,063,814	--	--	--
Columbia Basin Elec Coop Inc	--	--	110,961	2,344,789	--	--	--
Columbia Power Coop Assn Inc	--	--	--	--	27,950	612,494	--
Consumers Power Inc	29	1,522	316,664	5,993,124	66	2,024	--
Coos-Curry Electric Coop Inc	--	--	259,283	6,083,137	--	--	--
Douglas Electric Coop Inc	--	--	123,933	3,366,935	--	--	--
Harney Electric Coop Inc	--	--	242,938	4,503,419	--	--	--
Lane Electric Cooperative Inc	--	--	192,084	4,733,280	--	--	--
Midstate Electric Coop Inc	--	--	257,160	5,820,328	--	--	--
Umatilla Electric Coop Assn	--	--	604,307	12,045,729	--	--	--
Wasco Electric Coop Inc	--	--	81,877	1,832,891	--	--	--
West Oregon Electric Coop Inc	--	--	60,159	1,437,428	--	--	--
Pennsylvania							
Adams Electric Cooperative Inc	--	--	--	--	--	--	--
Bedford Rural Elec Coop Inc	--	--	--	--	--	--	--
Central Electric Coop Inc	--	--	--	--	--	--	--
Cleaverack Rural Elec Coop Inc	--	--	--	--	--	--	--
Northwestern Rural E C C 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							
Alken Electric Cooperative Inc	--	--	--	--	--	--	--
Berkeley Electric Coop Inc	--	--	--	--	--	--	--
Black River Electric Coop Inc	--	--	--	--	--	--	--
Blue Ridge Electric Coop Inc	--	--	--	--	34,969	1,018,732	--
Broad River Electric Coop Inc	--	--	10,059	293,159	--	--	--
Coastal Electric Coop Inc	--	--	--	--	--	--	--
Edisto Electric Coop Inc	--	--	--	--	--	--	--
Fairfield Electric Coop Inc	--	--	--	--	--	--	--
Horry Electric Cooperative Inc	--	--	--	--	--	--	--
Laurens Electric Coop Inc	--	--	26,156	711,022	--	--	--
Little River Electric Coop Inc	--	--	9,728	296,135	--	--	--
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	--	--	--	--	--	--	--

See notes and footnotes at end of table.

**Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers,
by State, 1992 (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							
Harmon Electric Assn Inc	--	44,893	1,908,982	--	--	44,893	1,908,982
Indian Electric Coop Inc	--	290,850	13,099,111	--	--	290,850	13,099,111
Kay Electric Cooperative	--	111,349	5,042,850	--	--	111,349	5,042,850
Kiamichi Electric Coop Inc	--	194,802	8,815,834	--	--	194,802	8,815,834
Kiwaish Electric Coop Inc	--	73,148	3,551,911	--	--	73,148	3,551,911
Lake Region Electric Coop Inc	--	210,016	10,973,003	--	--	210,025	10,973,603
Northeast Oklahoma El Coop Inc	--	12,852	639,807	6	187	368,984	13,392,624
Northfork Electric Coop Inc	--	78,187	3,518,785	--	--	78,187	3,518,785
Northwestern Electric Coop Inc	--	200,312	8,873,754	--	--	200,312	8,873,754
Oklahoma Electric Coop Inc	--	514,200	23,799,149	5	94	514,205	23,799,243
Red River Valley Rrl Elec Assn	--	176,582	7,993,263	--	--	176,582	7,993,263
Rural Electric Coop Inc	--	217,658	9,802,724	--	--	217,658	9,802,724
Southeastern Electric Coop Inc	--	116,041	5,387,984	--	--	116,041	5,387,984
Southwest Rural Elec Assn Inc	--	86,308	4,261,432	--	--	86,308	4,261,432
Tri-County Electric Coop Inc	--	230,456	7,740,060	--	--	230,456	7,740,060
Verdigris Valley Elec Coop Inc	--	321,627	15,861,328	--	--	321,627	15,861,328
Oregon							
Blachly-Lane Cnty Coop El Assn	--	--	--	--	--	128,859	3,129,821
Central Electric Coop Inc	--	--	--	--	--	376,860	9,063,814
Columbia Basin Elec Coop Inc	--	--	--	--	--	110,961	2,344,789
Columbia Power Coop Assn Inc	--	--	--	--	--	27,950	612,464
Consumers Power Inc	--	--	--	--	--	316,759	5,996,670
Cooe-Curry Electric Coop Inc	--	--	--	13,596	58,469	272,859	6,141,806
Douglas Electric Coop Inc	--	--	--	--	--	123,933	3,366,935
Harney Electric Coop Inc	--	--	--	--	--	242,938	4,503,419
Lane Electric Cooperative Inc	--	--	--	10,426	38,488	202,510	4,771,768
Midstate Electric Coop Inc	--	--	--	--	--	257,160	5,820,328
Umatilla Electric Coop Assn	--	--	--	--	--	604,307	12,045,729
Wasco Electric Coop Inc	--	--	--	--	--	81,877	1,832,891
West Oregon Electric Coop Inc	--	--	--	--	--	60,159	1,437,428
Pennsylvania							
Adams Electric Cooperative Inc	--	317,550	19,736,555	--	--	317,550	19,736,555
Bedford Rural Elec Coop Inc	--	96,258	5,780,285	--	--	96,258	5,780,285
Central Electric Coop Inc	--	200,452	12,049,401	--	--	200,452	12,049,401
Cleaverack Rural Elec Coop Inc	--	158,492	9,789,806	--	--	158,492	9,789,806
Northwestern Rural E C C Inc	--	192,071	11,338,875	--	--	192,071	11,338,875
Somerset Rural Elec Coop Inc	--	159,589	10,191,682	--	--	159,589	10,191,682
Southwest Central R E C Corp	--	271,446	17,325,562	--	--	271,446	17,325,562
Sullivan County R E C Inc	--	43,445	2,671,055	--	--	43,445	2,671,055
Tri-County Rural Elec Coop Inc	--	125,238	8,127,036	--	--	125,238	8,127,036
United Electric Coop Inc	--	130,378	8,323,651	--	--	130,378	8,323,651
Valley Rural Electric Coop Inc	--	191,561	11,815,526	--	--	191,561	11,815,526
Warren Electric Coop Inc	--	49,316	3,124,082	--	--	49,316	3,124,082
South Carolina							
Aiken Electric Cooperative Inc	--	484,833	19,677,057	--	--	484,833	19,677,057
Berkeley Electric Coop Inc	--	929,944	38,791,661	--	--	929,944	38,791,661
Black River Electric Coop Inc	--	387,317	15,823,077	--	--	387,317	15,823,077
Blue Ridge Electric Coop Inc	--	537,695	29,727,704	--	--	572,684	30,747,436
Broad River Electric Coop Inc	--	178,780	10,163,919	--	--	188,839	10,457,078
Coastal Electric Coop Inc	--	111,420	4,571,429	--	--	111,420	4,571,429
Edisto Electric Coop Inc	--	208,906	8,515,636	--	--	208,906	8,515,636
Fairfield Electric Coop Inc	--	434,454	16,081,255	--	--	434,454	16,081,255
Horry Electric Cooperative Inc	--	455,896	19,572,426	--	--	455,896	19,572,426
Laurens Electric Coop Inc	--	429,601	24,082,503	--	--	455,757	24,793,525
Little River Electric Coop Inc	--	114,680	8,472,359	--	--	124,408	8,768,494
Lynches River Elec Coop Inc	--	219,957	8,734,411	--	--	219,957	8,734,411
Marlboro Electric Coop Inc	--	432,612	11,495,672	--	--	432,612	11,495,672
Mid-Carolina Electric Coop Inc	--	587,330	24,591,802	--	--	587,330	24,591,802
Newberry Electric Coop Inc	--	170,380	6,392,905	--	--	170,380	6,392,905
Palmetto Electric Coop Inc	--	765,857	30,054,482	--	--	765,857	30,054,482
Pee Dee Electric Coop Inc	--	574,007	21,825,357	--	--	574,007	21,825,357

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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							
Santee Electric Coop Inc	--	--	--	--	--	--	--
Tri-County Electric Coop Inc	--	--	--	--	--	--	--
York Electric Cooperative Inc	--	--	16,160	470,962	--	--	--
South Dakota							
Beadle Electric Coop Inc	--	--	--	--	--	--	--
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	318	12,585	--	--	--	--	--
Clay Union Electric Corp	--	--	--	--	--	--	--
Codington-Clark Elec Coop Inc	--	--	--	--	--	--	--
Douglas Electric Coop Inc	--	--	--	--	--	--	--
FEM Electric Association Inc	--	--	--	--	--	--	--
Grand Electric Coop Inc	--	--	36,503	439,224	--	--	--
H-D Electric Cooperative Inc	--	--	--	--	--	--	--
Intercounty Electric Assn Inc	--	--	--	--	--	--	--
Kingsbury Electric Coop Inc	--	--	--	--	--	--	--
Lacreek Electric Assn Inc	--	--	--	--	--	--	--
Lake Region Electric Assn Inc	--	--	--	--	--	--	--
Lincoln-Union Electric Company	--	--	--	--	--	--	--
McCook Electric Coop Inc	--	--	--	--	--	--	--
Moreau-Grand Electric Coop Inc	--	--	--	--	--	--	--
Northern Electric Coop Inc	--	--	6,268	75,102	--	--	--
Oahe Electric Cooperative Inc	--	--	--	--	--	--	--
Ree Electric Cooperative Inc	--	--	--	--	--	--	--
Rosebud Electric Coop Inc	--	--	62,251	781,232	--	--	--
Sioux Valley Empire E A Inc	--	--	--	--	--	--	--
Spink Electric Cooperative Inc	--	--	--	--	--	--	--
Tri-County Electric Assn Inc	--	--	--	--	--	--	--
Turner-Hutchinsin 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	--	--	665,030	28,991,459	--	--	--
Caney Fork Electric Coop Inc	--	--	463,684	20,049,930	--	--	--
Chickasaw Electric Coop Inc	--	--	258,062	11,663,178	--	--	--
Cumberland Elec Member Corp	--	--	1,300,855	57,555,011	--	--	--
Duck River Elec Member Corp	--	--	981,863	45,186,070	--	--	--
Forked Deer Electric Coop Inc	--	--	179,150	8,072,950	--	--	--
Fort Loudoun Electric Coop	--	--	361,101	15,768,949	--	--	--
Gibson County Elec Member Corp	--	--	642,897	27,746,378	--	--	--
Holston Electric Coop Inc	--	--	579,142	23,964,604	--	--	--
Meriwether Lewis Electric Coop	--	--	580,276	25,275,576	--	--	--
Middle Tennessee E M C	--	--	2,467,646	102,944,892	--	--	--
Mountain Electric Coop Inc	--	--	453,949	18,385,292	--	--	--
Pickwick Electric Cooperative	--	--	344,118	15,176,013	--	--	--
Plateau Electric Cooperative	--	--	233,466	10,357,663	--	--	--
Sequachee Valley Electric Coop	--	--	592,087	25,628,001	--	--	--
Southwest Tennessee E M C	--	--	764,404	33,479,330	--	--	--
Tennessee Valley Electric Coop	--	--	300,725	13,544,522	--	--	--
Upper Cumberland E M C	--	--	708,627	31,506,275	--	--	--
Volunteer Electric Cooperative	--	--	1,427,227	62,519,514	--	--	--
Texas							
B-K Electric Cooperative Inc	--	--	--	--	--	--	--
Bailey County Elec Coop Assn	--	--	--	--	--	--	--
Bartlett Electric Coop Inc	--	--	--	--	--	--	--
Belfalls Electric Coop Inc	--	--	--	--	--	--	--

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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							
Santee Electric Coop Inc	--	581,403	23,050,657	--	--	581,403	23,050,657
Tri-County Electric Coop Inc	--	197,258	8,118,334	--	--	197,258	8,118,334
York Electric Cooperative Inc	--	361,592	20,284,635	--	--	377,752	20,755,597
South Dakota							
Beadle Electric Coop Inc	--	34,814	1,489,617	--	--	34,814	1,489,617
Black Hills Electric Coop Inc	--	64,811	2,485,277	288	17,864	65,099	2,503,141
Bon Homme Yankton El Assn Inc	--	58,253	2,405,168	--	--	58,253	2,405,168
Butte Electric Coop Inc	--	59,044	2,277,156	--	--	59,044	2,277,156
Cam-Wal Electric Coop Inc	--	38,697	1,661,108	--	--	38,697	1,661,108
Charles Mix Electric Assn Inc	--	34,010	1,405,552	--	--	34,010	1,405,552
Cherry-Todd Electric Coop Inc	--	71,402	2,890,179	--	--	71,720	2,902,764
Clay Union Electric Corp	--	44,481	1,834,116	--	--	44,481	1,834,116
Codington-Clark Elec Coop Inc	--	61,825	2,492,632	--	--	61,825	2,492,632
Douglas Electric Coop Inc	--	17,150	717,199	--	--	17,150	717,199
FEM Electric Association Inc	--	40,483	1,633,671	--	--	40,483	1,633,671
Grand Electric Coop Inc	--	87,243	2,893,312	--	--	123,746	3,332,536
H-D Electric Cooperative Inc	--	52,171	2,162,140	--	--	52,171	2,162,140
Intercounty Electric Assn Inc	--	57,379	2,430,671	--	--	57,379	2,430,671
Kingsbury Electric Coop Inc	--	19,733	790,830	--	--	19,733	790,830
Lacreek Electric Assn Inc	--	62,929	2,563,914	--	--	62,929	2,563,914
Lake Region Electric Assn Inc	--	55,147	2,221,606	--	--	55,147	2,221,606
Lincoln-Union Electric Company	--	68,127	2,686,341	2	57	68,129	2,686,398
McCook Electric Coop Inc	--	25,562	1,085,525	--	--	25,562	1,085,525
Moreau-Grand Electric Coop Inc	--	65,647	2,669,680	--	--	65,647	2,669,680
Northern Electric Coop Inc	--	84,994	3,338,421	--	--	91,262	3,413,523
Oahe Electric Cooperative Inc	--	42,895	1,713,850	--	--	42,895	1,713,850
Ree Electric Cooperative Inc	--	23,552	1,001,988	--	--	23,552	1,001,988
Rosebud Electric Coop Inc	--	12,103	752,411	--	--	74,354	1,033,643
Sioux Valley Empire E A Inc	--	227,177	9,454,107	--	--	227,177	9,454,107
Spink Electric Cooperative Inc	--	25,572	1,096,320	--	--	25,572	1,096,320
Tri-County Electric Assn Inc	--	54,177	2,206,785	--	--	54,177	2,206,785
Turner-Hutchinson El Coop Inc	--	75,265	3,148,319	--	--	75,265	3,148,319
Union County Electric Coop Inc	--	17,737	730,663	--	--	17,737	730,663
West Central Electric Coop Inc	--	91,770	3,762,146	--	--	91,770	3,762,146
West River Electric Assn Inc	--	129,484	5,174,926	--	--	129,484	5,174,926
Whetstone Valley Elec Coop Inc	--	57,056	2,306,579	--	--	57,056	2,306,579
Tennessee							
Appalachian Electric Coop	--	--	--	--	--	665,030	28,991,459
Caney Fork Electric Coop Inc	--	--	--	--	--	483,684	20,049,930
Chickasaw Electric Coop Inc	--	--	--	--	--	258,062	11,663,178
Cumberland Elec Member Corp	--	--	--	--	--	1,300,855	57,555,011
Duck River Elec Member Corp	--	--	--	4	132	981,867	45,186,202
Forked Deer Electric Coop Inc	--	--	--	--	--	179,150	8,072,950
Fort Loudoun Electric Coop	--	--	--	--	--	361,101	15,768,949
Gibson County Elec Member Corp	--	--	--	--	--	642,897	27,746,378
Holston Electric Coop Inc	--	--	--	--	--	579,142	23,964,604
Mertweather Lewis Electric Coop	--	--	--	--	--	580,276	25,275,576
Middle Tennessee E M C	--	--	--	--	--	2,467,646	102,944,892
Mountain Electric Coop Inc	--	--	--	--	--	453,949	18,385,292
Pickwick Electric Cooperative	--	--	--	--	--	344,118	15,176,013
Plateau Electric Cooperative	--	--	--	7	125	233,473	10,357,788
Sequachee Valley Electric Coop	--	--	--	--	--	592,087	25,628,001
Southwest Tennessee E M C	--	--	--	--	--	764,404	33,479,330
Tennessee Valley Electric Coop	--	--	--	--	--	300,725	13,544,522
Upper Cumberland E M C	--	--	--	--	--	708,627	31,506,275
Volunteer Electric Cooperative	--	--	--	--	--	1,427,227	62,519,514
Texas							
B-K Electric Cooperative Inc	--	89,857	3,303,488	--	--	89,857	3,303,488
Bailey County Elec Coop Assn	--	124,517	4,942,226	--	--	124,517	4,942,226
Bartlett Electric Coop Inc	--	73,234	3,070,420	--	--	73,234	3,070,420
Beffalls Electric Coop Inc	--	61,546	2,410,586	--	--	61,546	2,410,586

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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							
Bowie-Cass Electric Coop Inc	—	—	—	—	—	—	—
Central Texas Elec Coop Inc	—	—	—	—	237,512	9,993,818	—
Cherokee County Elec Coop Assn	—	—	—	—	—	—	—
Coleman County Elec Coop Inc	92,520	3,346,878	—	—	—	—	—
Comanche County Elec Coop Assn	—	—	—	—	—	—	—
Concho Valley Elec Coop Inc	134,843	4,906,182	—	—	—	—	—
Cooke County Elec Coop Assn	—	—	—	—	—	—	—
Deep East Texas Elec Coop Inc	—	—	—	—	—	—	—
Denton County Elec Coop Inc	—	—	—	—	—	—	—
Dewitt County Elec Coop Inc	—	—	—	—	68,045	2,609,387	—
Dickens Electric Coop Inc	—	—	—	—	—	—	—
Erath County El Coop Assn Inc	—	—	—	—	—	—	—
Fannin County Electric Coop	—	—	—	—	—	—	—
Fayette Electric Coop Inc	—	—	—	—	141,333	5,598,385	—
FEC Electric Cooperative	—	—	—	—	—	—	—
Gate City Electric Coop Inc	—	—	—	—	—	—	—
Grayson-Collin Elec Coop Inc	—	—	—	—	—	—	—
Greenbelt Electric Coop Inc	24,442	964,351	—	—	—	—	—
Hamilton County Elec Coop Assn	—	—	—	—	—	—	—
Hill County Electric Coop	—	—	—	—	—	—	—
Houston County Elec Coop Inc	—	—	—	—	—	—	—
Hunt-Collin Electric Coop Inc	33,623	1,849,858	—	—	—	—	—
J-A-C Electric Cooperative Inc	—	—	—	—	—	—	—
Jackson Electric Coop Inc	—	—	—	—	—	—	—
Jasper-Newton Elec Coop Inc	—	—	—	—	—	—	—
Johnson County Elec Coop Assn	—	—	—	—	—	—	—
Karnes Electric Coop Inc	—	—	—	—	—	—	—
Kaufman County Elec Coop Inc	—	—	—	—	—	—	—
Kimble Electric Coop Inc	13,288	655,122	—	—	26,339	1,063,616	—
Lamar County Elec Coop Assn	—	—	—	—	—	—	—
Lamb County Electric Coop Inc	—	—	—	—	—	—	—
Lighthouse Electric Coop Inc	12,346	496,816	—	—	—	—	—
Lyntegar Electric Coop Inc	368,305	13,773,451	—	—	—	—	—
Magic Valley Electric Coop Inc	498,454	27,563,041	—	—	—	—	—
McCulloch Electric Coop Inc	25,328	1,038,799	—	—	38,005	1,377,552	—
McLennan County Elec Coop Inc	—	—	—	—	—	—	—
Medina Electric Coop Inc	57,948	2,661,625	—	—	—	—	—
Mid-South Electric Coop Assn	—	—	—	—	—	—	—
Midwest Electric Coop Inc	115,286	4,681,345	—	—	—	—	—
Navarro County Elec Coop Inc	—	—	—	—	—	—	—
Navasota Valley 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	111,982	4,867,584	—	—	—	—	—
Rita Blanca Electric Coop Inc	—	—	—	—	—	—	—
Rusk County Electric Coop Inc	—	—	—	—	—	—	—
Sam Houston Electric Coop Inc	—	—	—	—	—	—	—
San Patricio Electric Coop Inc	—	—	—	—	—	—	—
South Plains Electric Coop Inc	—	—	—	—	—	—	—
Southwest Texas Elec Coop Inc	180,420	6,355,011	—	—	—	—	—
Stamford Electric Coop Inc	66,992	2,489,950	—	—	—	—	—
Swisher Electric Coop Inc	—	—	—	—	—	—	—
Taylor Electric Coop Inc	179,305	6,855,784	—	—	—	—	—
Tri-County Electric Coop Inc	—	—	—	—	—	—	—
Upshur Rural Elec Coop Corp	—	—	—	—	—	—	—
Victoria County Elec Coop Co	—	—	—	—	—	—	—
Wharton County Elec Coop Inc	—	—	—	—	—	—	—
Wise Electric Cooperative Inc	—	—	—	—	—	—	—
Wood 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, 1992 (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							
Bowie-Cass Electric Coop Inc	—	454,537	14,879,575	—	—	454,537	14,879,575
Central Texas Elec Coop Inc	—	—	—	—	—	237,512	9,993,818
Cherokee County Elec Coop Assn	—	196,661	9,701,297	—	—	196,661	9,701,297
Coleman County Elec Coop Inc	—	—	—	—	—	92,520	3,348,878
Comanche County Elec Coop Assn	—	152,237	5,875,833	—	—	152,237	5,875,833
Concho Valley Elec Coop Inc	—	—	—	—	—	134,843	4,906,182
Cooke County Elec Coop Assn	—	243,454	9,200,846	8	181	243,462	9,200,827
Deep East Texas Elec Coop Inc	—	549,547	24,526,727	—	—	549,547	24,526,727
Denton County Elec Coop Inc	—	530,227	22,937,462	—	—	530,227	22,937,462
Dewitt County Elec Coop Inc	—	—	—	—	—	68,045	2,609,387
Dickens Electric Coop Inc	—	411,100	13,474,309	—	—	411,100	13,474,309
Erath County El Coop Assn Inc	—	224,529	9,077,646	—	—	224,529	9,077,646
Fannin County Electric Coop	—	63,434	2,989,272	—	—	63,434	2,989,272
Fayette Electric Coop Inc	—	—	—	—	—	141,333	5,598,385
FEC Electric Cooperative	—	366,404	17,006,419	—	—	366,404	17,006,419
Gate City Electric Coop Inc	—	34,335	1,245,712	—	—	34,335	1,245,712
Grayson-Collin Elec Coop Inc	—	242,873	11,431,846	—	—	242,873	11,431,846
Greenbelt Electric Coop Inc	—	21,442	765,109	—	—	45,884	1,729,460
Hamilton County Elec Coop Assn	—	105,443	4,288,176	—	—	105,443	4,288,176
Hill County Electric Coop	—	195,768	8,115,829	—	—	195,768	8,115,829
Houston County Elec Coop Inc	—	196,162	9,400,796	—	—	196,162	9,400,796
Hunt-Collin Electric Coop Inc	—	—	—	—	—	33,623	1,849,858
J-A-C Electric Cooperative Inc	—	88,070	3,311,740	—	—	88,070	3,311,740
Jackson Electric Coop Inc	—	144,212	7,625,750	—	—	144,212	7,625,750
Jasper-Newton Elec Coop Inc	—	279,870	12,587,412	—	—	279,870	12,587,412
Johnson County Elec Coop Assn	—	501,190	21,312,546	—	—	501,190	21,312,546
Karnes Electric Coop Inc	—	155,892	7,887,843	—	—	155,892	7,887,843
Kaufman County Elec Coop Inc	—	316,573	14,489,391	—	—	316,573	14,489,391
Kimble Electric Coop Inc	—	—	—	—	—	39,627	1,718,738
Lamar County Elec Coop Assn	—	96,418	4,622,923	—	—	96,418	4,622,923
Lamb County Electric Coop Inc	—	175,980	6,870,706	—	—	175,980	6,870,706
Lighthouse Electric Coop Inc	—	130,752	5,442,327	—	—	143,098	5,939,143
Lyntegar Electric Coop Inc	—	—	—	—	—	368,305	13,773,451
Magic Valley Electric Coop Inc	—	—	—	—	—	498,454	27,563,041
McCulloch Electric Coop Inc	—	—	—	—	—	63,333	2,416,351
McLennan County Elec Coop Inc	—	139,541	5,758,785	—	—	139,541	5,758,785
Medina Electric Coop Inc	—	—	—	—	—	57,948	2,661,625
Mid-South Electric Coop Assn	—	248,129	9,894,294	—	—	248,129	9,894,294
Midwest Electric Coop Inc	—	36,834	1,201,343	—	—	152,120	5,882,688
Navarro County Elec Coop Inc	—	198,689	7,802,573	—	—	198,689	7,802,573
Navasota Valley Elec Coop Inc	—	249,638	9,631,799	—	—	249,638	9,631,799
New Era Electric Coop Inc	—	252,380	11,660,973	—	—	252,380	11,660,973
North Plains Electric Coop Inc	—	135,367	4,655,295	7	180	135,374	4,655,475
Nueces Electric Coop Inc	—	129,099	6,581,607	—	—	129,099	6,581,607
Panola-Harrison Elec Coop Inc	—	225,116	7,487,343	—	—	225,116	7,487,343
Rio Grande Electric Coop Inc	—	19,408	897,087	—	—	131,390	5,764,671
Rita Blanca Electric Coop Inc	—	120,467	4,240,617	—	—	120,467	4,240,617
Rusk County Electric Coop Inc	—	251,838	8,510,783	—	—	251,838	8,510,783
Sam Houston Electric Coop Inc	—	690,340	34,756,059	—	—	690,340	34,756,059
San Patricio Electric Coop Inc	—	123,233	6,168,624	—	—	123,233	6,168,624
South Plains Electric Coop Inc	—	349,640	13,317,066	—	—	349,640	13,317,066
Southwest Texas Elec Coop Inc	—	—	—	—	—	180,420	6,355,011
Stamford Electric Coop Inc	—	—	—	—	—	66,982	2,489,950
Swisher Electric Coop Inc	—	141,234	5,843,390	—	—	141,234	5,843,390
Taylor Electric Coop Inc	—	—	—	—	—	179,305	6,855,784
Tri-County Electric Coop Inc	—	635,033	25,943,298	—	—	635,033	25,943,298
Upshur Rural Elec Coop Corp	—	508,847	16,187,301	—	—	508,847	16,187,301
Victoria County Elec Coop Co	—	221,643	11,735,223	—	—	221,643	11,735,223
Wharton County Elec Coop Inc	—	111,088	5,837,686	—	—	111,088	5,837,686
Wise Electric Cooperative Inc	—	168,023	6,887,773	9	202	168,032	6,887,975
Wood County Electric Coop Inc	—	351,986	12,766,142	—	—	351,986	12,766,142

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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)
Utah							
Dixie Escalante R E A Inc	--	--	--	--	17,278	769,520	--
Flowell Electric Assn Inc	--	--	333	6,997	--	--	--
Garkane Power Association Inc	--	--	--	--	--	--	--
Moon Lake Electric Assn Inc	--	--	237,097	4,479,530	--	--	--
Vermont							
Vermont Electric Coop Inc	12,229	702,974	--	--	20,533	263,659	--
Washington Electric Coop Inc	21,819	1,052,380	--	--	18,022	339,050	3,373
Virginia							
A & N Electric Cooperative	--	--	--	--	--	--	--
BARC Electric Cooperative Inc	--	--	8,959	179,961	--	--	--
Central Virginia Electric Coop	362,979	17,302,633	19,058	511,832	--	--	--
Community Electric Cooperative	--	--	10,133	200,716	--	--	--
Craig-Botetourt Electric Coop	54,608	2,113,340	4,053	78,922	--	--	--
Mecklenburg Electric Coop	--	--	27,174	729,792	--	--	--
Northern Neck Elec Coop Inc	--	--	9,448	253,729	--	--	--
Northern Virginia Elec Coop	--	--	7,828	168,295	--	--	--
Powell Valley Electric Coop	--	--	400,377	16,558,876	--	--	--
Prince George Electric Coop	--	--	6,060	133,863	--	--	--
Rappahannock Electric Coop	--	--	53,722	1,276,271	--	--	--
Shenandoah Valley Elec Coop	--	--	23,806	639,340	--	--	--
Southside Electric Coop Inc	--	--	34,913	937,652	--	--	--
Washington							
Benton Rural Electric Assn	--	--	318,932	5,992,134	--	--	--
Big Bend Electric Coop Inc	--	--	401,871	7,651,708	--	--	--
Columbia Rural Elec Assn Inc	--	--	209,876	3,897,216	--	--	--
Lincoln Electric Coop Inc	--	--	105,914	2,316,899	--	--	--
Nespelem Valley Elec Coop Inc	--	--	37,815	902,131	--	--	--
Okanogan County Elec Coop Inc	--	--	35,026	822,995	--	--	--
Orcas Power & Light Company	--	--	137,771	3,250,569	--	--	--
Tanner Electric Cooperative	--	--	40,277	951,619	--	--	--
West Virginia							
Harrison Rural Elec Assn Inc	42,684	1,534,887	--	--	--	--	--
Wisconsin							
Adams-Columbia Electric Coop	298,824	9,640,986	--	--	--	--	--
Barron Electric Cooperative	--	--	--	--	--	--	--
Bayfield Electric Coop Inc	--	--	--	--	--	--	--
Buffalo Electric Cooperative	--	--	--	--	--	--	--
Central Wisconsin Elec Coop	69,257	2,221,712	--	--	--	--	--
Chippewa Valley Electric Coop	--	--	--	--	--	--	--
Clark Electric Cooperative	--	--	--	--	--	--	--
Crawford Electric Cooperative	--	--	--	--	--	--	--
Dunn County Electric Coop	--	--	--	--	--	--	--
Eau Claire Electric Coop	--	--	--	--	--	--	--
Grant-Lafayette Electric Coop	--	--	--	--	--	--	--
Head of The Lakes Elec Coop	--	--	--	--	--	--	--
Jackson Electric Coop Inc	--	--	--	--	--	--	--
Jump River Electric Coop Inc	--	--	--	--	--	--	--
Oakdale Electric Cooperative	--	--	--	--	--	--	--
Oconto Electric Cooperative	76,418	2,697,600	--	--	--	--	--
Pierce-Pepin Electric Coop	--	--	--	--	--	--	--
Polk-Burnett Electric Coop	--	--	--	--	--	--	--
Price Electric Coop Inc	--	--	--	--	--	--	--
Richland Electric Cooperative	--	--	--	--	--	--	--
Rock County Electric Coop Assn	61,868	2,055,317	--	--	--	--	--
St Croix County Electric Coop	--	--	--	--	--	--	--
Taylor Electric Cooperative	--	--	--	--	--	--	--
Trempealeau Electric Coop	--	--	--	--	--	--	--
Vernon Electric Cooperative	--	--	--	--	--	--	--
Washington Island El Coop Inc	6,962	282,654	--	--	--	--	--

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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)
Utah							
Dixie Escalante R E A Inc	--	--	--	93,365	1,755,452	110,643	2,524,972
Flowell Electric Assn Inc	--	11,105	627,878	10,407	193,454	21,845	828,329
Garkane Power Association Inc	--	4,809	354,118	102,068	2,897,674	106,877	3,251,792
Moon Lake Electric Assn Inc	--	774,006	39,535,907	3,715	130,227	1,014,818	44,145,664
Vermont							
Vermont Electric Coop Inc	--	102,050	13,634,533	3,854	367,908	138,666	14,969,074
Washington Electric Coop Inc	461,625	6,148	200,890	13,914	673,745	61,276	2,727,690
Virginia							
A & N Electric Cooperative	--	156,563	7,481,813	--	--	156,563	7,481,813
BARC Electric Cooperative Inc	--	124,756	5,762,764	--	--	133,715	5,942,725
Central Virginia Electric Coop	--	--	--	--	--	382,037	17,814,465
Community Electric Cooperative	--	117,779	6,365,056	--	--	127,912	6,565,772
Craig-Botetourt Electric Coop	--	--	--	--	--	58,661	2,192,262
Mecklenburg Electric Coop	--	321,051	15,116,443	--	--	348,225	15,846,235
Northern Neck Elec Coop Inc	--	153,248	8,228,173	--	--	162,696	8,481,902
Northern Virginia Elec Coop	--	1,582,873	82,090,814	--	--	1,590,701	82,259,109
Powell Valley Electric Coop	--	--	--	--	--	400,377	16,558,876
Prince George Electric Coop	--	138,623	7,549,150	--	--	144,683	7,683,013
Rappahannock Electric Coop	--	1,691,822	68,154,552	--	--	1,745,544	69,430,823
Shenandoah Valley Elec Coop	--	477,091	22,120,068	--	--	500,897	22,759,408
Southside Electric Coop Inc	--	459,972	22,175,258	--	--	494,885	23,112,910
Washington							
Benton Rural Electric Assn	--	--	--	--	--	318,932	5,992,134
Big Bend Electric Coop Inc	--	--	--	--	--	401,871	7,651,708
Columbia Rural Elec Assn Inc	--	--	--	--	--	209,876	3,897,216
Lincoln Electric Coop Inc	--	--	--	2,590	11,522	108,504	2,328,421
Nespelem Valley Elec Coop Inc	--	--	--	1,292	4,778	39,107	906,909
Okanogan County Elec Coop Inc	--	--	--	--	--	35,026	822,995
Orcas Power & Light Company	--	--	--	60	1,024	137,831	3,251,593
Tanner Electric Cooperative	--	--	--	--	--	40,277	951,619
West Virginia							
Harrison Rural Elec Assn Inc	--	--	--	--	--	42,684	1,534,887
Wisconsin							
Adams-Columbia Electric Coop	--	--	--	131	4,294	298,955	9,645,280
Barron Electric Cooperative	--	244,528	8,761,025	--	--	244,528	8,761,025
Bayfield Electric Coop Inc	--	57,954	2,388,306	--	--	57,954	2,388,306
Buffalo Electric Cooperative	--	66,812	2,799,654	--	--	66,812	2,799,654
Central Wisconsin Elec Coop	--	--	--	--	--	69,257	2,221,712
Chippewa Valley Electric Coop	--	77,645	3,133,207	--	--	77,645	3,133,207
Clark Electric Cooperative	--	129,577	5,470,696	--	--	129,577	5,470,696
Crawford Electric Cooperative	--	43,621	1,809,822	--	--	43,621	1,809,822
Dunn County Electric Coop	--	113,332	4,857,133	--	--	113,332	4,857,133
Eau Claire Electric Coop	--	112,719	4,821,540	--	--	112,719	4,821,540
Grant-Lafayette Electric Coop	--	157,792	6,844,248	--	--	157,792	6,844,248
Head of The Lakes Elec Coop	--	36,947	1,900,629	--	--	36,947	1,900,629
Jackson Electric Coop Inc	--	84,815	3,074,822	--	--	84,815	3,074,822
Jump River Electric Coop Inc	--	67,732	2,713,426	--	--	67,732	2,713,426
Oakdale Electric Cooperative	--	137,368	5,613,539	--	--	137,368	5,613,539
Oconto Electric Cooperative	--	--	--	19	740	76,437	2,698,340
Pierce-Pepin Electric Coop	--	89,415	3,510,346	--	--	89,415	3,510,346
Polk-Burnett Electric Coop	--	141,345	5,613,756	--	--	141,345	5,613,756
Price Electric Coop Inc	--	53,830	2,133,525	--	--	53,830	2,133,525
Richland Electric Cooperative	--	44,509	1,851,094	--	--	44,509	1,851,094
Rock County Electric Coop Assn	--	--	--	--	--	61,866	2,055,317
St Croix County Electric Coop	--	104,746	4,380,594	--	--	104,746	4,380,594
Taylor Electric Cooperative	--	55,084	2,233,291	--	--	55,084	2,233,291
Trempealeau Electric Coop	--	121,434	4,977,447	--	--	121,434	4,977,447
Vernon Electric Cooperative	--	125,722	5,404,524	--	--	125,722	5,404,524
Washington Island El Coop Inc	--	--	--	--	--	6,962	282,654

See notes and footnotes at end of table.

Table 34. Electricity Purchases by the Distribution Segment of Cooperative Borrowers, by State, 1992 (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)
Wyoming							
Big Horn Rural Electric Co	--	--	--	--	--	--	--
Bridger Valley Elec Assn Inc	--	--	39,411	694,289	--	--	--
Carbon Power & Light Inc	--	--	--	--	--	--	--
Garland Light & Power Company	--	--	--	--	--	--	--
Hot Springs Rural El Assn Inc	--	--	--	--	--	--	--
Niobrara Electric Assn Inc	--	--	--	--	--	--	--
Riverton Valley Elec Assn Inc	--	--	--	--	--	--	--
Rural Electric Company	--	--	--	--	--	--	--
Sheridan-Johnson Rrl Elec Assn	--	--	--	--	--	--	--
Tri-County Electric Assn Inc	--	--	--	--	--	--	--
Wheatland Rural Elec Assn Inc	--	--	--	--	--	--	--
Wyrulec Company	--	--	--	--	--	--	--

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)

Wyoming							
Big Horn Rural Electric Co	--	66,546	2,424,602	62	3,826	66,608	2,428,428
Bridger Valley Elec Assn Inc	--	40,846	2,299,314	--	--	80,357	2,993,603
Carbon Power & Light Inc	--	82,213	3,275,107	--	--	82,213	3,275,107
Garland Light & Power Company	--	15,728	673,467	--	--	15,728	673,467
Hot Springs Rural El Assn Inc	--	357,991	12,715,651	--	--	357,991	12,715,651
Niobrara Electric Assn Inc	--	54,207	2,054,820	--	--	54,207	2,054,820
Riverton Valley Elec Assn Inc	--	255,647	9,300,485	--	--	255,647	9,300,485
Rural Electric Company	--	162,963	6,771,434	7	227	162,970	6,771,661
Sheridan-Johnson Rrl Elec Assn	--	75,686	2,799,601	--	--	75,686	2,799,601
Tri-County Electric Assn Inc	--	1,058,433	47,130,655	--	--	1,058,433	47,130,655
Wheatland Rural Elec Assn Inc	--	86,751	3,493,281	--	--	86,751	3,493,281
Wyrulec Company	--	131,254	4,855,268	1	9	131,255	4,855,277

¹ Includes transactions with 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: Rural Electrification Administration, REA Form 7, "Financial and Statistical Report," REA Form 12a through 12l, "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 Electrification Administration, by State, 1992

State / Utility	Source of Electricity (Purchases in thousand kWh)						
	Investor- Owned	Federal	State and Other Government	Municipal	Cooperative	Other ¹	Total
Alaska							
Arctic Utilities Inc	--	--	--	--	--	1,314	1,314
Arizona							
Graham County Elec Coop Inc	--	--	--	--	81,760	--	81,760
Florida							
Lee County Electric Coop Inc	--	--	--	--	1,958,931	--	1,958,931
Illinois							
Shelby Electric Cooperative	--	--	--	--	179,337	--	179,337
Indiana							
Clark County Rural E M C	--	--	--	--	191,241	--	191,241
Henry County Rural E M C	--	--	--	--	135,145	--	135,145
Iowa							
Boone Valley Electric Coop	--	--	--	--	5,800	--	5,800
Cass Electric Cooperative	--	--	--	--	1,205	--	1,205
Louisiana							
Beauregard Electric Coop Inc	--	--	--	--	437,758	--	437,758
Missouri							
Culvre River Elec Coop Inc	--	--	--	--	492,820	--	492,820
Nevada							
Farmers Mutual Power Assn	--	--	--	--	1,111	--	1,111
Pennsylvania							
New Enterprise Rural Elec Coop	--	--	--	--	38,910	--	38,910
Texas							
Fort Belknap Electric Coop Inc	--	--	--	--	94,413	--	94,413
Virginia							
Old Dominion Electric Coop	--	--	--	--	--	5,148,808	5,148,808

¹ Includes transactions with 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."

Table 36. Electricity Exchanges and Wheeling by Cooperative Borrowers, by State, 1992
(Thousand Kilowatthours)

State / Cooperative Borrower	Exchanges		Wheeling	
	Received	Delivered	Received	Delivered
Alabama				
Alabama Electric Coop Inc	--	--	94,037	94,037
Alaska				
Chugach Electric Assn Inc	--	--	174,638	174,638
Golden Valley Elec Assn Inc	10,347	10,675	--	--
Arizona				
Arizona Electric Pwr Coop Inc	18,109	31,183	7,200	6,712
Electrical Dist No3 Pinal Cnty	14,738	3,299	--	--
Trico Electric Coop Inc	--	--	7,003	7,003
Arkansas				
Arkansas Electric Coop Corp	5,668	11,036	--	--
Colorado				
Empire Electric Assn Inc	--	--	6,904	6,704
Tri-State G & T Assn Inc	1,734,690	1,784,616	131,808	126,219
Florida				
Florida Keys EI Coop Assn Inc	--	--	439,784	420,555
Seminole Electric Coop Inc	26,446	13,430	--	--
Idaho				
Idaho Cnty L&P Coop Assn Inc	--	--	1,070	1,070
Rural Electric Co	--	--	1,456	1,456
Illinois				
Southern Illinois Power Coop	161,284	48,202	--	--
Indiana				
Hoosier Energy R E C Inc	104,513	129,857	185,047	176,196
Iowa				
Central Iowa Power Coop	1,609,891	1,522,665	--	--
Corn Belt Power Coop	80,855	283,717	--	--
L & O Power Coop	--	--	92,526	86,473
Northwest Iowa Power Coop	130,884	126,746	300,982	287,958
Kansas				
Midwest Energy Inc	252	367	--	--
Sunflower Electric Power Corp	--	--	86,552	86,552
Kentucky				
Big Rivers Electric Corp	52,280	52,717	140,371	140,371
East Kentucky Power Coop Inc	162,900	108,248	1,549,114	1,549,114
Michigan				
Wolverine Pwr Supply Coop Inc	143,864	5,313	--	--
Minnesota				
United Power Assn	7,094	64,996	55,057	24,685
Mississippi				
South Mississippi EI Pwr Assn	25,905	25,478	--	--
Missouri				
Associated Electric Coop Inc	360,069	161,811	617,379	574,338
Northeast Missouri EI Pwr Coop	--	--	163,678	163,678
Sho-Me Power Corp	--	--	90,111	90,111
Montana				
Sun River Electric Coop Inc	--	--	3,035	3,035
Nevada				
Valley Electric Assn Inc	24,235	19,812	--	--
New Mexico				
Jemez Mountains Elec Coop Inc	--	--	76,528	76,528
Plains Elec Gen&Trans Coop Inc	68,731	53,632	102,193	102,193

See notes and footnotes at end of table.

Table 36. Electricity Exchanges and Wheeling by Cooperative Borrowers, by State, 1992
(Thousand Kilowatthours) (Continued)

State / Cooperative Borrower	Exchanges		Wheeling	
	Received	Delivered	Received	Delivered
North Dakota				
Basin Electric Power Coop	33,632	100,374	--	--
Minnkota Power Coop Inc	88,131	131,140	271,293	254,035
Mor-Gran-Sou Electric Coop Inc	--	--	129	129
Oklahoma				
Cotton Electric Coop Inc	--	--	6,294	6,294
Western Farmers Elec Coop Inc	55,777	70,779	--	--
Oregon				
Consumers Power Inc	66	--	--	--
Hood River Electric Coop	--	--	19,739	19,739
South Dakota				
East River Elec Power Coop Inc	--	--	324,967	304,361
Texas				
Brazos Electric Power Coop Inc	17,279,118	17,230,447	169,453	163,954
Rayburn Country Elec Coop, Inc	254,536	286,262	--	--
South Texas Electric Coop Inc	--	318,187	161,000	165,829
Utah				
Deseret Generation & Tran Coop	6,351	17,226	--	--
Flowell Electric Assn Inc	4,280	4,280	--	--
Moon Lake Electric Assn Inc	--	--	24,850	24,850
Virginia				
Rappahannock Electric Coop	--	--	3,714	3,645
Wyoming				
Big Horn Rural Electric Co	9,096	8,749	--	--

-- 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 Rural Electrification Administration, REA Form 7, "Financial and Statistical Report," the REA 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."

5. Selected Information on the Physical Transmission System

Overview

This chapter presents data on selected portions of the physical electrical system that investor- and publicly owned electric utilities report on FERC Form 1, "Annual Report of Major Electric Utilities, Licensees and Others," and Form EIA-412, "Annual Report of Public Electric Utilities." Data on cooperative utilities cannot be provided because the filings submitted to the Rural Electrification Administration are not inclusive of the same information requested from the other ownership classes. Summary totals (in NERC regions) of these collected data are presented for the first time. Figure 18 highlights the high voltage transmission system in the United States.

This is the first time transmission system information has been presented in this publication. The data reported by utilities were reviewed by EIA staff to ensure its accuracy and consistency. A significant number of utilities were contacted to verify the quality of the data reported. In some cases, utilities revised previously submitted information because of misunderstandings related to the number of circuits and circuit mileage. Utilities are reporting transmission lines that have multiple ownership, and some duplication in reporting statistics is present. Costs reported on transmission line additions sometimes reflect improvement/upgrades of existing lines, not new transmission lines. Costs reported are those used to maintain FERC Account 101, Asset Value of Electric Plant in Service. EIA is working with FERC to improve the quality of transmission system data reported by investor-owned utilities on FERC Form 1. This includes more consistent reporting of line transformer and watthour meter statistics in the categories of "customers use" and "company use."

Tables

This chapter presents summary (by NERC Region) and individual statistics on voltage of transmission lines

138 kilovolts and above for both alternating and direct current lines.¹⁰ The data are shown in the categories of overhead and underground/submarine lines for both structural and circuit miles for the following types of utilities.

- Investor-owned electric utilities (Tables 37 and 38)
- Federal power authorities (Tables 39 and 40)
- State and other government utilities (Tables 39 and 40)
- Municipalities (Tables 39 and 40).

Transmission lines added and watthour/line transformer information are not collected from public utilities. Fiscal-year ending dates for each public utility differ and are not included in the tables. Transmission line data are, therefore, not necessarily for the same time period.

Tables 41 and 42 provide summary and detailed information on the transmission lines added by investor-owned electric utilities in 1992. Information is presented for lines 138 kilovolts and above for alternating current. No direct current lines were added in 1992. In addition, line cost information is presented and broken into the categories of land, structural, conductors and supporting equipment, and the total. Table 41 aggregates the line type by mileage ranges associated with the construction and/or removal of the transmission lines. Public utilities are not required to file this information on the Form EIA-412.

Negative numbers in the tables represent the removal of transmission mileage from the physical electrical system. Some negative numbers in the cost information represent removal of the cost of those lines and equipment from the ratebase. Upgrades to conductors and other equipment for transmission lines currently in operation in the transmission system may be shown without an associated line length.

¹⁰No data are required to be filed on voltages less than 138 kilovolts.

Figure 18. Selected High-Voltage Transmission Lines in the Contiguous United States

Note: Transmission lines shown are 161, 230, 345, and 500 kilovolts, alternating current.
Source: Federal Emergency Management Agency.

Summary and detailed information on line transformer and watt-hour meter totals are provided by investor-owned electric utilities (Tables 43 and 44). This information is broken into the following categories: number of line transformers present at the beginning of the year; additions during the year; reductions during the year; total in use by customers; total in use by the electric company; and summary information on what is kept in stock, locked at the customer's site, and in an inactive status. The line transformer capacity in megavoltamperes is also presented by the same categories.

Highlights

The 138-kilovolt alternating current (AC) transmission line was reported to be the most frequently used type of high voltage line by investor-owned utilities. Over 53,000 structural miles were in-place with over 65,000 miles of circuit attached to various types of structures. The AC voltage levels of 230 kilovolts and 345 kilovolts followed in a close second and third. The ECAR region had the most 138-kilovolt AC lines with nearly 20,000 structural miles and over 25,000 miles of overhead circuit miles. SERC had the most

230-kilovolt AC lines with nearly 15,000 structural miles (and nearly 18,000 circuit miles), while the 345-kilovolt AC line leader was the ECAR region with nearly 8,000 structural miles and 13,000 circuit miles. Consolidated Edison Company of New York had the most underground miles (over 430 circuit miles of 138-kilovolt and 165 circuit miles of 345-kilovolt lines).

Public electric utilities reported a very different mix of high voltage AC and direct current (DC) lines. The 230-kilovolt line was the most frequently reported with over 16,000 structural miles in-place. The voltages of 345 kilovolts and 500 kilovolts were second and third with over 6,000 and 5,400 structural miles, respectively. The 138-kilovolt AC line came in fifth for public utilities and 161 kilovolts was fourth. Public utilities also operated the highest direct current voltage. The 1000-kilovolt DC line was in the WSCC region with over 500 structural miles in use. The WSCC region had the largest and widest variety of voltage types in use. The Bonneville Power Administration and the Western Power Administration ranked first and second for total mileage.

Investor-owned electric utilities reported adding over 2,560 miles of new transmission lines of a size of 138 kilovolts or greater to the electrical systems in 1992. The cost for land right-of-way, new structures, conductors and line materials for these additions and up-

grades was nearly \$375 million. Florida Power and Light, whose electrical system was severely damaged by Hurricane Andrew in 1992, led the other reporting utilities in adding new (or in this case replacing) higher transmission voltage support for its electrical system. Public Service Company of Colorado had the largest increase, but those existing lines were acquired through the purchase of assets of a bankrupt cooperative.

Counts of distribution line transformers and watthour meters reported by investor-owned electric utilities were at the levels of over 22 and 92 million, respectively, for the contiguous United States at the end of 1992. Investor-owned utilities removed from service 2.0 and 2.5 percent, respectively, of the line transformers and watthour meters in 1992. Utilities then added 3.2 percent to the beginning year balance for line transformers from purchase, acquisitions, and refurbishment. The ranking of the top five investor-owned utilities for year-end watthour meters follows: Pacific Gas and Electric of California (4.6 million); Southern California Edison (4.3 million); Commonwealth Edison of Illinois (3.7 million); Florida Power and Light (3.6 million); and Consolidated Edison of New York (3.2 million). The top five changed for line transformers at year end, but Pacific Gas and Electric was again first with almost 918,000. Texas Utilities Electric was second with 676,000, and Florida Power and Light had 672,000 for third. Southern California Edison was fourth with 652,000, and Duke Power of North Carolina was fifth with 590,000 line transformers. In addition to third (Florida Power and Light) and fifth (Duke Power), SERC also contained utilities placing sixth (Alabama Power and Light with 543,000), seventh (Georgia Power with 538,000) and ninth (Virginia Electric and Power with 523,000) in the year end count of line transformers. Yet the SERC region contained less than 20 percent of the total line transformers in the contiguous United States in 1992.

Summary

The first time reporting of transmission line statistics by voltage size for both investor-owned and public electric utilities presents the opportunity to see what mix of transmission voltages are in use and where they are in the United States. Some of the voltage sizes represent tests of a particular operating level of AC voltage which did not find widespread usage (154 kilovolts and 170 kilovolts). Other voltage sizes indicate a test of voltages that could become a future mainstay (525 kilovolts AC, 550 kilovolts AC, 800 kilovolts AC, and 1000 kilovolts DC).

The inclusion of transmission statistics of public utilities for the first time provides a point of reference to understand the complexity of the transmission system ownership and how the electrical system is interwoven across the United States. Many public utilities acquire electricity through very short transmission lines and substation connections taps attached to the electrical power grid. The ownership of these connections is not captured by these data.

Many other types of electrical equipment used in support for operating the electrical grid are not singled out for collection nor are the relationships of megavoltampere, reactive power, and megawatts highlighted. The information shown in this chapter does not describe the operation of the physical electrical system nor the costing of its services. Both cost allocation and how engineering operations are linked to the contract trade of electricity are issues that are in the forefront for the changing electric power industry.

Table 37. Transmission Line Statistics of Investor-Owned Utilities, by NERC Region, 1992

Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Investor-Owned Utilities in ECAR				
Alternating Current				
138 Kilovolts	19,480	25,788	61	61
184 Kilovolts	66	284	—	—
181 Kilovolts	565	1,404	—	—
230 Kilovolts	830	1,175	—	—
345 Kilovolts	7,915	12,808	18	18
500 Kilovolts	926	1,038	—	—
765 Kilovolts	2,023	2,023	—	—
Investor-Owned Utilities in ERCOT				
Alternating Current				
138 Kilovolts	10,990	12,442	33	53
345 Kilovolts	4,241	7,100	—	—
Investor-Owned Utilities in MAAC				
Alternating Current				
138 Kilovolts	931	1,330	67	104
220 Kilovolts	447	537	6	6
230 Kilovolts	3,434	4,651	69	136
345 Kilovolts	170	176	—	—
500 Kilovolts	1,992	2,012	—	—
Investor-Owned Utilities in MAIN				
Alternating Current				
138 Kilovolts	8,062	10,463	239	239
181 Kilovolts	795	801	—	—
230 Kilovolts	191	282	—	—
345 Kilovolts	3,924	5,311	—	—
765 Kilovolts	90	90	—	—
Investor-Owned Utilities in MAPP				
Alternating Current				
138 Kilovolts	6	6	—	—
181 Kilovolts	2,748	3,154	1	1
230 Kilovolts	1,543	1,548	—	—
345 Kilovolts	1,977	2,467	—	—
500 Kilovolts	273	273	—	—
Investor-Owned Utilities in NPCC				
Alternating Current				
138 Kilovolts	410	456	295	571
230 Kilovolts	1,085	1,207	—	—
345 Kilovolts	3,313	4,103	119	198
500 Kilovolts	10	10	—	—
Direct Current				
450 Kilovolts	434	434	—	—
Investor-Owned Utilities in SERC				
Alternating Current				
138 Kilovolts	1,510	1,533	45	45
181 Kilovolts	440	489	—	—
230 Kilovolts	14,868	17,822	39	40
500 Kilovolts	3,947	3,947	—	—
525 Kilovolts	575	575	—	—
Investor-Owned Utilities in SPP				
Alternating Current				
138 Kilovolts	7,464	8,103	—	—
181 Kilovolts	3,694	3,868	10	10
230 Kilovolts	4,370	4,864	—	—
345 Kilovolts	3,837	4,085	—	—

See notes and footnotes at end of table.

Table 37. Transmission Line Statistics of Investor-Owned Utilities, by NERC Region, 1992
(Continued)

Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Investor-Owned Utilities in SPP				
Alternating Current 500 Kilovolts	2,015	2,148	--	--
Investor-Owned Utilities in WSCC				
Alternating Current				
138 Kilovolts	4,376	5,323	--	--
161 Kilovolts	1,281	1,372	--	--
220 Kilovolts	2,666	2,666	--	--
230 Kilovolts	12,169	15,449	44	44
345 Kilovolts	6,353	7,266	--	--
500 Kilovolts	7,995	9,593	--	--
800 Kilovolts	313	313	--	--
Contiguous U.S. Total				
Alternating Current				
138 Kilovolts	53,229	65,424	740	1,073
161 Kilovolts	66	264	--	--
181 Kilovolts	9,521	11,066	11	11
220 Kilovolts	3,113	3,203	6	6
230 Kilovolts	38,288	46,778	152	220
345 Kilovolts	31,730	43,316	137	216
500 Kilovolts	17,158	19,021	--	--
525 Kilovolts	575	575	--	--
765 Kilovolts	2,113	2,113	--	--
800 Kilovolts	313	313	--	--
Direct Current				
450 Kilovolts	434	434	--	--

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 and Figure 2 for a map of the regions. •Totals may not equal sum of components because of independent rounding. •Voluntary filings of distribution line and transmission line data below 138 kilovolts are not included in this table.

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 38. Transmission Line Statistics of Investor-Owned Utilities, 1992

Utility / Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Alabama Power Company				
Alternating Current				
161 Kilovolts	327	327	--	--
230 Kilovolts	1,341	1,341	--	--
500 Kilovolts	315	315	--	--
Alcoa Generating Corporation				
Alternating Current				
138 Kilovolts	2	2	--	--
Appalachian Power Company				
Alternating Current				
138 Kilovolts	2,030	3,054	1	1
230 Kilovolts	48	91	--	--
345 Kilovolts	285	382	--	--
500 Kilovolts	95	95	--	--
765 Kilovolts	641	641	--	--
Arizona Public Service Company				
Alternating Current				
230 Kilovolts	662	842	14	14
345 Kilovolts	566	1,169	--	--
500 Kilovolts	572	1,371	--	--
Arkansas Power & Light Company				
Alternating Current				
161 Kilovolts	1,420	1,449	--	--
230 Kilovolts	160	361	--	--
345 Kilovolts	44	44	--	--
500 Kilovolts	893	893	--	--
Atlantic City Electric Company				
Alternating Current				
138 Kilovolts	245	489	--	--
230 Kilovolts	89	102	--	--
500 Kilovolts	235	235	--	--
Baltimore Gas & Electric Co				
Alternating Current				
138 Kilovolts	14	68	--	--
230 Kilovolts	192	381	11	32
500 Kilovolts	196	196	--	--
Black Hills Corporation				
Alternating Current				
230 Kilovolts	446	446	--	--
Blackstone Valley Electric Co				
Alternating Current				
345 Kilovolts	21	21	--	--
Boston Edison Company				
Alternating Current				
230 Kilovolts	8	28	--	--
345 Kilovolts	119	136	21	21
Carolina Power & Light Company				
Alternating Current				
230 Kilovolts	2,786	2,807	--	--
500 Kilovolts	292	292	--	--
Central Hudson Gas & Elec Corp				
Alternating Current				
345 Kilovolts	76	76	--	--
Central Illinois Light Company				
Alternating Current				
138 Kilovolts	231	607	--	--
345 Kilovolts	47	117	--	--
Central Illinois Pub Serv Co				
Alternating Current				
138 Kilovolts	1,424	1,428	--	--
161 Kilovolts	58	58	--	--
230 Kilovolts	48	48	--	--
345 Kilovolts	257	257	--	--
Central Louisiana Elec Co Inc				
Alternating Current				
138 Kilovolts	549	567	--	--
230 Kilovolts	479	493	--	--
500 Kilovolts	67	67	--	--

See notes and footnotes at end of table.

Table 38. Transmission Line Statistics of Investor-Owned Utilities, 1992 (Continued)

Utility / Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Central Maine Power Company				
Alternating Current				
345 Kilovolts	318	321	--	--
Direct Current				
450 Kilovolts	191	191	--	--
Central Power & Light Company				
Alternating Current				
138 Kilovolts	2,222	2,370	--	--
345 Kilovolts	538	1,539	--	--
Central Vermont Pub Serv Corp				
Alternating Current				
345 Kilovolts	8	8	--	--
Cincinnati Gas & Electric Co				
Alternating Current				
138 Kilovolts	411	592	10	10
345 Kilovolts	308	387	--	--
Citizens Utilities Company				
Alternating Current				
138 Kilovolts	55	55	--	--
Cleveland Electric Illum Co				
Alternating Current				
230 Kilovolts	1	1	--	--
345 Kilovolts	281	372	--	--
Columbus Southern Power Co				
Alternating Current				
138 Kilovolts	260	289	29	29
345 Kilovolts	369	404	--	--
Commonwealth Edison of Indiana				
Alternating Current				
138 Kilovolts	3	6	--	--
345 Kilovolts	22	44	--	--
Commonwealth Edison Company				
Alternating Current				
138 Kilovolts	1,569	2,426	239	239
345 Kilovolts	1,572	2,488	--	--
765 Kilovolts	90	90	--	--
Commonwealth Electric Company				
Alternating Current				
345 Kilovolts	77	77	--	--
Connecticut Light & Power Co				
Alternating Current				
138 Kilovolts	6	6	--	--
345 Kilovolts	384	392	--	--
Consolidated Edison Co-NY Inc				
Alternating Current				
138 Kilovolts	12	34	170	431
345 Kilovolts	204	532	87	166
500 Kilovolts	5	5	--	--
Consumers Power Company				
Alternating Current				
138 Kilovolts	3,231	3,950	4	4
345 Kilovolts	1,137	2,812	--	--
Dayton Power & Light Company				
Alternating Current				
138 Kilovolts	284	341	3	3
345 Kilovolts	376	449	--	--
Delmarva Power & Light Company				
Alternating Current				
138 Kilovolts	393	408	4	4
230 Kilovolts	238	248	--	--
500 Kilovolts	16	16	--	--
Detroit Edison Company				
Alternating Current				
138 Kilovolts	31	31	--	--
230 Kilovolts	64	82	--	--
345 Kilovolts	532	1,078	--	--
Duke Power Company				
Alternating Current				
230 Kilovolts	1,394	2,788	--	--
525 Kilovolts	575	575	--	--

See notes and footnotes at end of table.

Table 38. Transmission Line Statistics of Investor-Owned Utilities, 1992 (Continued)

Utility / Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Duquesne Light Company				
Alternating Current				
138 Kilovolts	239	429	9	9
345 Kilovolts	112	151	18	18
Edison Sault Electric Company				
Alternating Current				
138 Kilovolts	3	6	4	4
El Paso Electric Company				
Alternating Current				
345 Kilovolts	650	667	--	--
500 Kilovolts	120	330	--	--
Electric Energy Inc				
Alternating Current				
161 Kilovolts	55	55	--	--
Empire District Electric Co				
Alternating Current				
161 Kilovolts	388	392	--	--
345 Kilovolts	22	22	--	--
Fitchburg Gas & Elec Light Co				
Alternating Current				
138 Kilovolts	12	16	--	--
Florida Power & Light Company				
Alternating Current				
138 Kilovolts	1,338	1,338	45	45
230 Kilovolts	2,094	2,094	31	32
500 Kilovolts	985	985	--	--
Florida Power Corporation				
Alternating Current				
230 Kilovolts	1,116	1,400	8	8
500 Kilovolts	169	169	--	--
Georgia Power Company				
Alternating Current				
230 Kilovolts	1,951	2,101	--	--
500 Kilovolts	1,099	1,099	--	--
Green Mountain Power Corp				
Direct Current				
450 Kilovolts	52	52	--	--
Gulf Power Company				
Alternating Current				
230 Kilovolts	389	389	--	--
Gulf States Utilities Company				
Alternating Current				
138 Kilovolts	1,908	2,196	--	--
230 Kilovolts	566	684	--	--
345 Kilovolts	37	37	--	--
500 Kilovolts	430	480	--	--
Hawaiian Electric Company Inc				
Alternating Current				
138 Kilovolts	150	196	4	4
Houston Lighting & Power Co				
Alternating Current				
138 Kilovolts	1,577	2,003	6	6
345 Kilovolts	612	1,030	--	--
Idaho Power Company				
Alternating Current				
138 Kilovolts	1,944	2,031	--	--
230 Kilovolts	962	1,248	--	--
345 Kilovolts	490	647	--	--
500 Kilovolts	87	87	--	--
Illinois Power Company				
Alternating Current				
138 Kilovolts	1,305	1,337	--	--
230 Kilovolts	1	1	--	--
345 Kilovolts	452	667	--	--
Indiana Michigan Power Co				
Alternating Current				
138 Kilovolts	1,095	1,766	--	--
345 Kilovolts	868	1,577	--	--
765 Kilovolts	615	615	--	--

See notes and footnotes at end of table.

Table 38. Transmission Line Statistics of Investor-Owned Utilities, 1992 (Continued)

Utility / Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Indiana-Kentucky Electric Corp				
Alternating Current				
138 Kilovolts	2	3	--	--
345 Kilovolts	43	129	--	--
Indianapolis Power & Light Co				
Alternating Current				
138 Kilovolts	295	352	--	--
345 Kilovolts	440	475	--	--
Interstate Power Company				
Alternating Current				
161 Kilovolts	706	715	--	--
345 Kilovolts	135	135	--	--
Iowa Electric Light & Power Co				
Alternating Current				
161 Kilovolts	333	342	--	--
345 Kilovolts	67	67	--	--
Iowa Southern Utilities Co				
Alternating Current				
161 Kilovolts	312	312	--	--
345 Kilovolts	61	61	--	--
Iowa-Illinois Gas&Electric Co				
Alternating Current				
161 Kilovolts	375	428	--	--
345 Kilovolts	305	305	--	--
Jersey Central Power&Light Co				
Alternating Current				
230 Kilovolts	401	865	--	--
500 Kilovolts	18	18	--	--
Kansas City Power & Light Co				
Alternating Current				
161 Kilovolts	827	847	10	10
345 Kilovolts	294	301	--	--
Kansas Gas & Electric Company				
Alternating Current				
138 Kilovolts	462	520	--	--
161 Kilovolts	177	178	--	--
345 Kilovolts	663	679	--	--
Kentucky Power Company				
Alternating Current				
138 Kilovolts	828	829	--	--
161 Kilovolts	46	46	--	--
345 Kilovolts	8	8	--	--
765 Kilovolts	258	258	--	--
Kentucky Utilities Company				
Alternating Current				
138 Kilovolts	860	1,850	--	--
161 Kilovolts	519	1,358	--	--
345 Kilovolts	354	1,058	--	--
500 Kilovolts	57	169	--	--
Kingsport Power Company				
Alternating Current				
138 Kilovolts	22	43	--	--
Long Island Lighting Company				
Alternating Current				
138 Kilovolts	244	263	122	136
345 Kilovolts	--	--	8	8
Louisiana Power & Light Co				
Alternating Current				
138 Kilovolts	55	55	--	--
230 Kilovolts	791	876	--	--
500 Kilovolts	270	353	--	--
Louisville Gas & Electric Co				
Alternating Current				
138 Kilovolts	236	302	1	1
154 Kilovolts	66	264	--	--
345 Kilovolts	102	102	--	--
Madison Gas & Electric Company				
Alternating Current				
138 Kilovolts	74	98	--	--
345 Kilovolts	116	125	--	--

See notes and footnotes at end of table.

Table 38. Transmission Line Statistics of Investor-Owned Utilities, 1992 (Continued)

Utility / Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Maine Electric Power Co Inc Alternating Current 345 Kilovolts	179	364	--	--
Maine Public Service Company Alternating Current 138 Kilovolts	12	12	--	--
Metropolitan Edison Company Alternating Current 138 Kilovolts 230 Kilovolts 500 Kilovolts	3 300 219	3 383 219	-- -- --	-- -- --
Midwest Power Systems Inc Alternating Current 161 Kilovolts 345 Kilovolts	918 542	1,255 848	1 --	1 --
Minnesota Power & Light Co Alternating Current 138 Kilovolts 230 Kilovolts 500 Kilovolts	6 599 8	6 600 8	-- -- --	-- -- --
Mississippi Power & Light Co Alternating Current 161 Kilovolts 230 Kilovolts 500 Kilovolts	6 460 355	96 505 355	-- -- --	-- -- --
Mississippi Power Company Alternating Current 230 Kilovolts 500 Kilovolts	576 79	576 79	-- --	-- --
Monongahela Power Company Alternating Current 138 Kilovolts 345 Kilovolts 500 Kilovolts	1,326 11 283	1,391 11 283	-- -- --	-- -- --
Montana Power Company Alternating Current 161 Kilovolts 230 Kilovolts 500 Kilovolts	1,121 953 495	1,121 953 495	-- -- --	-- -- --
Montaup Electric Company Alternating Current 345 Kilovolts	47	47	--	--
MDU Resources Group Inc Alternating Current 230 Kilovolts 345 Kilovolts	280 39	280 39	-- --	-- --
Nantahala Power & Light Co Alternating Current 161 Kilovolts	57	57	--	--
Narragansett Electric Company Alternating Current 345 Kilovolts	26	26	--	--
Nevada Power Company Alternating Current 138 Kilovolts 230 Kilovolts 345 Kilovolts 500 Kilovolts	214 210 69 410	297 283 69 410	-- -- -- --	-- -- -- --
New England Electric Transmn Direct Current 450 Kilovolts	6	6	--	--
New England Hydro Tran Elec Co Direct Current 450 Kilovolts	12	12	--	--
New England Hydro-Trans Corp Direct Current 450 Kilovolts	121	121	--	--

See notes and footnotes at end of table.

Table 38. Transmission Line Statistics of Investor-Owned Utilities, 1992 (Continued)

Utility / Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
New England Power Company				
Alternating Current				
230 Kilovolts	368	368	--	--
345 Kilovolts	291	291	--	--
New Orleans Public Service Inc				
Alternating Current				
230 Kilovolts	58	73	--	--
New York State Elec & Gas Corp				
Alternating Current				
230 Kilovolts	227	232	--	--
345 Kilovolts	513	541	--	--
Niagara Mohawk Power Corp				
Alternating Current				
230 Kilovolts	441	540	--	--
345 Kilovolts	587	776	--	--
Northern Indiana Pub Serv Co				
Alternating Current				
138 Kilovolts	581	756	--	--
345 Kilovolts	308	354	--	--
Northern States Power Co (MN)				
Alternating Current				
161 Kilovolts	59	59	--	--
230 Kilovolts	283	287	--	--
345 Kilovolts	567	751	--	--
500 Kilovolts	265	265	--	--
Northern States Power Co (WI)				
Alternating Current				
345 Kilovolts	164	164	--	--
Northwestern Public Service Co				
Alternating Current				
230 Kilovolts	18	18	--	--
345 Kilovolts	49	49	--	--
Ohio Edison Company				
Alternating Current				
138 Kilovolts	1,493	2,145	--	--
345 Kilovolts	489	570	--	--
Ohio Power Company				
Alternating Current				
138 Kilovolts	1,854	2,547	--	--
345 Kilovolts	649	856	--	--
765 Kilovolts	509	509	--	--
Ohio Valley Electric Corp				
Alternating Current				
345 Kilovolts	345	690	--	--
Oklahoma Gas & Electric Co				
Alternating Current				
138 Kilovolts	1,674	1,780	--	--
161 Kilovolts	152	152	--	--
345 Kilovolts	785	1,005	--	--
Orange & Rockland Utils Inc				
Alternating Current				
138 Kilovolts	69	70	3	4
345 Kilovolts	48	80	3	3
500 Kilovolts	5	5	--	--
Otter Tail Power Company				
Alternating Current				
230 Kilovolts	363	363	--	--
345 Kilovolts	48	48	--	--
Pacific Gas & Electric Company				
Alternating Current				
230 Kilovolts	3,094	5,062	30	30
500 Kilovolts	1,326	1,326	--	--
PacifiCorp				
Alternating Current				
138 Kilovolts	1,678	2,174	--	--
161 Kilovolts	160	251	--	--
230 Kilovolts	2,472	2,532	--	--
345 Kilovolts	1,403	1,515	--	--
500 Kilovolts	602	602	--	--

See notes and footnotes at end of table.

Table 38. Transmission Line Statistics of Investor-Owned Utilities, 1992 (Continued)

Utility / Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Pennsylvania Electric Company				
Alternating Current				
138 Kilovolts	11	11	--	--
230 Kilovolts	643	650	--	--
345 Kilovolts	149	149	--	--
500 Kilovolts	235	235	--	--
Pennsylvania Power & Light Co				
Alternating Current				
230 Kilovolts	854	1,030	--	--
500 Kilovolts	272	272	--	--
Pennsylvania Power Company				
Alternating Current				
138 Kilovolts	120	144	--	--
345 Kilovolts	51	58	--	--
Philadelphia Electric Company				
Alternating Current				
220 Kilovolts	432	522	6	6
500 Kilovolts	257	259	--	--
Portland General Electric Co				
Alternating Current				
230 Kilovolts	285	401	--	--
500 Kilovolts	211	706	--	--
Potomac Edison Co				
Alternating Current				
138 Kilovolts	788	826	--	--
230 Kilovolts	103	252	--	--
500 Kilovolts	202	202	--	--
Potomac Electric Power Company				
Alternating Current				
138 Kilovolts	--	--	63	100
230 Kilovolts	331	449	58	104
500 Kilovolts	70	88	--	--
Public Service Co of Colorado				
Alternating Current				
138 Kilovolts	65	65	--	--
230 Kilovolts	1,454	1,641	--	--
Public Service Co of Oklahoma				
Alternating Current				
138 Kilovolts	1,715	1,884	--	--
345 Kilovolts	597	600	--	--
Public Service Company of NH				
Alternating Current				
230 Kilovolts	8	8	--	--
345 Kilovolts	252	252	--	--
Public Service Company of NM				
Alternating Current				
230 Kilovolts	180	180	--	--
345 Kilovolts	1,551	1,551	--	--
500 Kilovolts	165	165	--	--
Public Service Electric&Gas Co				
Alternating Current				
138 Kilovolts	257	343	--	--
230 Kilovolts	386	543	--	--
345 Kilovolts	19	21	--	--
500 Kilovolts	474	474	--	--
Puget Sound Power & Light Co				
Alternating Current				
230 Kilovolts	248	248	--	--
500 Kilovolts	496	496	--	--
PSI Energy Inc				
Alternating Current				
138 Kilovolts	1,242	1,476	--	--
230 Kilovolts	544	677	--	--
345 Kilovolts	680	705	--	--
Rockland Electric Company				
Alternating Current				
138 Kilovolts	8	8	--	--
345 Kilovolts	2	6	--	--

See notes and footnotes at end of table.

Table 38. Transmission Line Statistics of Investor-Owned Utilities, 1992 (Continued)

Utility / Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Safe Harbor Water Power Corp				
Alternating Current				
220 Kilovolts	1	1	--	--
San Diego Gas & Electric Co				
Alternating Current				
138 Kilovolts	213	422	--	--
230 Kilovolts	271	679	--	--
500 Kilovolts	279	279	--	--
Savannah Electric & Power Co				
Alternating Current				
230 Kilovolts	70	70	--	--
Sierra Pacific Power Company				
Alternating Current				
230 Kilovolts	390	390	--	--
345 Kilovolts	526	526	--	--
South Beloit Water Gas&Elec Co				
Alternating Current				
345 Kilovolts	1	1	--	--
South Carolina Electric&Gas Co				
Alternating Current				
230 Kilovolts	747	809	--	--
Southern California Edison Co				
Alternating Current				
220 Kilovolts	2,666	2,666	--	--
500 Kilovolts	1,246	1,246	--	--
800 Kilovolts	313	313	--	--
Southern Electric Generat'g Co				
Alternating Current				
230 Kilovolts	266	266	--	--
Southern Indiana Gas & Elec Co				
Alternating Current				
138 Kilovolts	665	704	--	--
Southwestern Electric Power Co				
Alternating Current				
138 Kilovolts	1,027	1,027	--	--
161 Kilovolts	196	196	--	--
345 Kilovolts	565	565	--	--
Southwestern Electric Serv Co				
Alternating Current				
138 Kilovolts	44	44	--	--
Southwestern Public Service Co				
Alternating Current				
230 Kilovolts	1,338	1,354	--	--
345 Kilovolts	319	319	--	--
St Joseph Light & Power Co				
Alternating Current				
345 Kilovolts	117	117	--	--
Superior Water Light&Power Co				
Alternating Current				
161 Kilovolts	43	43	--	--
Susquehanna Electric Company				
Alternating Current				
220 Kilovolts	14	14	--	--
Tampa Electric Company				
Alternating Current				
138 Kilovolts	53	62	--	--
230 Kilovolts	387	466	--	--
Tapoco Inc				
Alternating Current				
161 Kilovolts	56	85	--	--
Texas Utilities Electric Co				
Alternating Current				
138 Kilovolts	5,441	6,311	27	47
345 Kilovolts	2,617	4,039	--	--
Texas-New Mexico Power Company				
Alternating Current				
138 Kilovolts	204	212	--	--
345 Kilovolts	253	271	--	--

See notes and footnotes at end of table.

Table 38. Transmission Line Statistics of Investor-Owned Utilities, 1992 (Continued)

Utility / Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Toledo Edison Company				
Alternating Current				
138 Kilovolts	389	506	--	--
345 Kilovolts	134	158	--	--
Tucson Electric Power Company				
Alternating Current				
138 Kilovolts	262	334	--	--
345 Kilovolts	1,098	1,122	--	--
500 Kilovolts	1,873	1,967	--	--
Union Electric Company				
Alternating Current				
138 Kilovolts	1,042	1,403	--	--
161 Kilovolts	681	688	--	--
230 Kilovolts	90	90	--	--
345 Kilovolts	658	762	--	--
United Illuminating Company				
Alternating Current				
345 Kilovolts	6	6	--	--
Upper Peninsula Power Company				
Alternating Current				
138 Kilovolts	348	353	--	--
UtiliCorp United Inc				
Alternating Current				
138 Kilovolts	74	74	--	--
161 Kilovolts	376	406	--	--
230 Kilovolts	211	211	--	--
345 Kilovolts	58	58	--	--
Vermont Electric Power Co Inc				
Alternating Current				
230 Kilovolts	33	33	--	--
345 Kilovolts	52	52	--	--
Vermont Electric Trans Co Inc				
Direct Current				
450 Kilovolts	52	52	--	--
Virginia Electric & Power Co				
Alternating Current				
138 Kilovolts	119	133	--	--
230 Kilovolts	1,549	2,513	--	--
500 Kilovolts	1,008	1,008	--	--
Washington Water Power Company				
Alternating Current				
230 Kilovolts	542	544	--	--
500 Kilovolts	113	113	--	--
West Penn Power Company				
Alternating Current				
138 Kilovolts	1,098	1,335	--	--
230 Kilovolts	72	72	--	--
345 Kilovolts	6	6	--	--
500 Kilovolts	273	273	--	--
West Texas Utilities Company				
Alternating Current				
138 Kilovolts	1,502	1,502	--	--
345 Kilovolts	221	221	--	--
Western Massachusetts Elec Co				
Alternating Current				
345 Kilovolts	105	105	--	--
Western Resources Inc				
Alternating Current				
161 Kilovolts	152	152	--	--
230 Kilovolts	307	307	--	--
345 Kilovolts	336	338	--	--
Wheeling Power Company				
Alternating Current				
138 Kilovolts	95	99	--	--
345 Kilovolts	9	16	--	--
500 Kilovolts	16	16	--	--
Wisconsin Electric Power Co				
Alternating Current				
138 Kilovolts	1,147	1,603	--	--
230 Kilovolts	52	123	--	--
345 Kilovolts	575	639	--	--

See notes and footnotes at end of table.

Table 38. Transmission Line Statistics of Investor-Owned Utilities, 1992 (Continued)

Utility / Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Wisconsin Power & Light Co				
Alternating Current				
138 Kilovolts	651	917	--	--
161 Kilovolts	1	2	--	--
345 Kilovolts	100	107	--	--
Wisconsin Public Service Corp				
Alternating Current				
138 Kilovolts	268	285	--	--
345 Kilovolts	124	124	--	--

-- Not Applicable

Notes: •Totals may not equal sum of components because of independent rounding. •Voluntary filings of distribution line and transmission line data below 138 kilovolts are not included in this table.

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 39. Transmission Line Statistics of Public Utilities, by NERC Region, Fiscal Year 1992

Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Public Utilities in ECAR				
Alternating Current				
138 Kilovolts	137.87	149.88	6.15	6.15
144 Kilovolts	16.40	16.40	--	--
161 Kilovolts	13.00	13.00	--	--
230 Kilovolts	7.00	7.00	--	--
345 Kilovolts	40.00	40.00	--	--
Public Utilities in ERCOT				
Alternating Current				
138 Kilovolts	1,657.09	1,859.25	--	--
345 Kilovolts	389.92	485.66	--	--
Public Utilities in MAIN				
Alternating Current				
138 Kilovolts	95.86	121.16	--	--
161 Kilovolts	24.49	24.49	--	--
Public Utilities in MAPP				
Alternating Current				
161 Kilovolts	642.03	642.03	--	--
230 Kilovolts	977.48	977.48	--	--
345 Kilovolts	2,019.30	2,033.05	--	--
Public Utilities in NPCC				
Alternating Current				
230 Kilovolts	324.29	324.29	--	--
345 Kilovolts	637.20	882.20	26.54	34.38
765 Kilovolts	154.89	154.89	--	--
Public Utilities in SERC				
Alternating Current				
138 Kilovolts	405.18	495.21	2.50	2.50
161 Kilovolts	2.20	2.20	--	--
230 Kilovolts	1,269.81	1,318.98	3.65	3.65
500 Kilovolts	74.83	74.83	--	--
Public Utilities in SPP				
Alternating Current				
138 Kilovolts	251.94	251.94	--	--
161 Kilovolts	1,860.33	1,968.76	--	--
230 Kilovolts	18.27	18.27	--	--
345 Kilovolts	158.60	203.60	--	--
Public Utilities in WSCC				
Alternating Current				
138 Kilovolts	284.47	361.01	35.41	65.43
161 Kilovolts	1,542.09	1,599.09	--	--
230 Kilovolts	13,461.34	14,402.56	24.14	37.99
287 Kilovolts	615.13	615.13	--	--
345 Kilovolts	2,833.80	3,038.70	--	--
500 Kilovolts	5,374.52	5,755.47	--	--
Direct Current				
500 Kilovolts	487.52	487.52	--	--
1000 Kilovolts	529.15	529.15	--	--

See notes and footnotes at end of table.

Table 39. Transmission Line Statistics of Public Utilities, by NERC Region, Fiscal Year 1992
(Continued)

Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Contiguous U.S. Total				
Alternating Current				
138 Kilovolts	2,832.41	3,238.43	44.06	74.08
144 Kilovolts	16.40	16.40	--	--
161 Kilovolts	4,084.14	4,249.57	--	--
230 Kilovolts	16,058.19	17,048.58	27.79	41.64
287 Kilovolts	615.13	615.13	--	--
345 Kilovolts	6,078.82	6,683.21	26.54	34.38
500 Kilovolts	5,449.35	5,830.30	--	--
765 Kilovolts	154.89	154.89	--	--
Direct Current				
500 Kilovolts	487.52	487.52	--	--
1000 Kilovolts	529.15	529.15	--	--

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 and Figure 2 for a map of the regions. •Totals may not equal sum of components because of independent rounding. •Voluntary filings of distribution line and transmission line data below 138 kilovolts are not included in this table.

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

Table 40. Transmission Line Statistics of Public Utilities, Fiscal Year 1992

Public Authority / Utility / Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Federal				
Alaska Power Administration				
Alternating Current				
138 Kilovolts	43.50	43.50	--	--
Bonneville Power Admin				
Alternating Current				
138 Kilovolts	92.30	92.30	--	--
161 Kilovolts	46.50	46.50	--	--
230 Kilovolts	4,725.64	4,826.14	--	--
287 Kilovolts	227.40	227.40	--	--
345 Kilovolts	343.60	423.60	--	--
500 Kilovolts	4,333.10	4,381.10	--	--
Direct Current				
1000 Kilovolts	264.40	264.40	--	--
Southwestern Power Admin				
Alternating Current				
138 Kilovolts	164.12	164.12	--	--
161 Kilovolts	1,120.31	1,179.71	--	--
Western Area Power Admin				
Alternating Current				
138 Kilovolts	39.10	78.20	--	--
161 Kilovolts	1,178.79	1,178.79	--	--
230 Kilovolts	6,385.41	6,876.61	--	--
345 Kilovolts	1,558.34	1,683.24	--	--
500 Kilovolts	288.34	288.34	--	--
State and Other Government				
Alaska Energy Authority				
Alternating Current				
138 Kilovolts	296.00	296.00	--	--
Grand River Dam Authority				
Alternating Current				
138 Kilovolts	61.71	61.71	--	--
161 Kilovolts	287.81	332.84	--	--
345 Kilovolts	113.60	113.60	--	--
Heartland Consumers Power Dist				
Alternating Current				
230 Kilovolts	210.00	210.00	--	--
345 Kilovolts	536.00	536.00	--	--
Imperial Irrigation District				
Alternating Current				
161 Kilovolts	302.00	359.00	--	--
230 Kilovolts	144.70	144.70	--	--
500 Kilovolts	161.20	322.40	--	--
Lower Colorado River Authority				
Alternating Current				
138 Kilovolts	1,326.63	1,525.39	--	--
345 Kilovolts	210.07	305.81	--	--
Michigan South Central Pwr Agy				
Alternating Current				
138 Kilovolts	2.74	3.98	--	--
345 Kilovolts	40.00	40.00	--	--
Modesto Irrigation District				
Alternating Current				
230 Kilovolts	65.64	65.64	--	--
Nebraska Public Power District				
Alternating Current				
161 Kilovolts	.26	.26	--	--
230 Kilovolts	676.99	676.99	--	--
345 Kilovolts	886.36	886.36	--	--
Northern California Power Agny				
Alternating Current				
230 Kilovolts	41.20	44.40	--	--

See notes and footnotes at end of table.

Table 40. Transmission Line Statistics of Public Utilities, Fiscal Year 1992 (Continued)

Public Authority / Utility / Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
State and Other Government				
Oklahoma Municipal Power Auth Alternating Current 138 Kilovolts	9.41	9.41	--	--
Omaha Public Power District Alternating Current 161 Kilovolts	392.58	392.58	--	--
345 Kilovolts	316.79	316.79	--	--
Papago Tribal Utility Auth Alternating Current 230 Kilovolts	10.00	10.00	--	--
Platte River Power Authority Alternating Current 230 Kilovolts	272.20	272.20	--	--
345 Kilovolts	368.20	368.20	--	--
Power Authority of State of NY Alternating Current 230 Kilovolts	324.29	324.29	--	--
345 Kilovolts	637.20	637.20	26.54	34.38
765 Kilovolts	154.89	154.89	--	--
PUD No 1 of Chelan County Alternating Current 230 Kilovolts	23.23	23.23	--	--
PUD No 1 of Cowlitz County Alternating Current 230 Kilovolts	3.83	3.83	--	--
PUD No 1 of Douglas County Alternating Current 230 Kilovolts	82.00	82.00	--	--
PUD No 2 of Grant County Alternating Current 230 Kilovolts	139.31	139.31	--	--
Sacramento Municipal Util Dist Alternating Current 230 Kilovolts	33.00	33.00	--	--
South Carolina Pub Serv Auth Alternating Current 230 Kilovolts	852.58	852.58	--	--
Southern Minnesota Mun P Agny Alternating Current 161 Kilovolts	122.69	122.69	--	--
230 Kilovolts	17.30	17.30	--	--
Utah Associated Mun Power Sys Alternating Current 138 Kilovolts	21.00	21.00	--	--
345 Kilovolts	292.00	292.00	--	--
Utah Municipal Power Agency Alternating Current 138 Kilovolts	78.40	78.40	--	--
345 Kilovolts	171.10	171.10	--	--
Washington Pub Pwr Supply Sys Alternating Current 500 Kilovolts	23.85	23.85	--	--
Municipal				
Alexandria City of Alternating Current 138 Kilovolts	16.20	16.20	--	--
Austin City of Alternating Current 138 Kilovolts	190.30	190.30	--	--
345 Kilovolts	179.85	179.85	--	--

See notes and footnotes at end of table.

Table 40. Transmission Line Statistics of Public Utilities, Fiscal Year 1992 (Continued)

Public Authority / Utility / Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Municipal				
Austin Utilities				
Alternating Current				
161 Kilovolts	36.40	36.40	--	--
Badger Power Marketing Auth				
Alternating Current				
138 Kilovolts	2.50	2.50	--	--
Bryan City of				
Alternating Current				
138 Kilovolts	34.67	34.67	--	--
Cedar Falls Mun Electric Util				
Alternating Current				
161 Kilovolts	4.20	4.20	--	--
345 Kilovolts	142.45	156.20	--	--
City Water & Light				
Alternating Current				
161 Kilovolts	339.00	339.00	--	--
Cleveland City of				
Alternating Current				
138 Kilovolts	35.15	35.15	6.15	6.15
Coldwater Board of Public Util				
Alternating Current				
138 Kilovolts	2.93	2.93	--	--
College Station City of				
Alternating Current				
138 Kilovolts	11.60	11.60	--	--
Columbia City of Water & Light				
Alternating Current				
161 Kilovolts	24.49	24.49	--	--
Crawfordsville Elec Lgt&Pwr Co				
Alternating Current				
138 Kilovolts	12.50	12.50	--	--
Dalton City of				
Alternating Current				
230 Kilovolts	31.55	31.55	--	--
Danville City of Electric Div				
Alternating Current				
138 Kilovolts	1.36	2.71	--	--
Floresville Elec Lgt & Pwr Sys				
Alternating Current				
138 Kilovolts	12.00	12.00	--	--
Gainesville City of				
Alternating Current				
138 Kilovolts	127.24	206.04	--	--
230 Kilovolts	2.51	2.51	--	--
Glendale City of				
Direct Current				
1000 Kilovolts	32.54	32.54	--	--
Greenville Electric Util Sys				
Alternating Current				
138 Kilovolts	56.00	56.00	--	--
Hamilton Dept of Public Utils				
Alternating Current				
138 Kilovolts	23.25	23.25	--	--
Henderson City Utility Commiss				
Alternating Current				
161 Kilovolts	13.00	13.00	--	--
Homestead City of				
Alternating Current				
138 Kilovolts	2.00	2.00	--	--
Hutchinson Utilities Comm				
Alternating Current				
230 Kilovolts	38.30	38.30	--	--

See notes and footnotes at end of table.

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4 of 4

Table 40. Transmission Line Statistics of Public Utilities, Fiscal Year 1992 (Continued)

Public Authority / Utility / Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Municipal				
Idaho Falls City of Alternating Current 161 Kilovolts	14.80	14.80	--	--
Independence City of Alternating Current 161 Kilovolts	22.60	22.60	--	--
Intermountain Power Agency Alternating Current 230 Kilovolts	141.41	141.41	--	--
Direct Current 500 Kilovolts	487.52	487.52	--	--
Jacksonville Beach City of Alternating Current 138 Kilovolts	41.00	41.00	--	--
Jacksonville Electric Auth Alternating Current 138 Kilovolts	183.53	194.76	2.50	2.50
230 Kilovolts	182.95	222.99	3.65	3.65
500 Kilovolts	74.83	74.83	--	--
Key West Utility Board of Alternating Current 138 Kilovolts	48.11	48.11	--	--
Kissimmee Utility Authority Alternating Current 230 Kilovolts	2.96	2.96	--	--
Lafayette City of Alternating Current 230 Kilovolts	14.00	14.00	--	--
Lake Worth City of Alternating Current 138 Kilovolts	5.30	5.30	--	--
Lakeland City of Alternating Current 230 Kilovolts	16.81	16.81	--	--
Lansing Board of Water & Light Alternating Current 138 Kilovolts	40.64	50.04	--	--
Lincoln Electric System Alternating Current 161 Kilovolts	11.80	11.80	--	--
345 Kilovolts	49.70	49.70	--	--
Logansport Municipal Utilities Alternating Current 230 Kilovolts	7.00	7.00	--	--
Los Angeles Dept of Wtr & Pwr Alternating Current 138 Kilovolts	51.49	87.15	35.41	65.43
230 Kilovolts	675.74	706.96	14.47	28.32
287 Kilovolts	387.73	387.73	--	--
345 Kilovolts	100.56	100.56	--	--
500 Kilovolts	568.03	729.78	--	--
Direct Current 1000 Kilovolts	232.21	232.21	--	--
Louisville Electric System Alternating Current 161 Kilovolts	2.20	2.20	--	--
Lubbock City of Alternating Current 230 Kilovolts	4.27	4.27	--	--
Marshall City of Alternating Current 161 Kilovolts	17.00	17.00	--	--

See notes and footnotes at end of table.

Table 40. Transmission Line Statistics of Public Utilities, Fiscal Year 1992 (Continued)

Public Authority / Utility / Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Municipal				
Menasha Electric & Water Util				
Alternating Current				
138 Kilovolts	15.07	15.07	--	--
Metropolitan Water District				
Alternating Current				
230 Kilovolts	305.60	305.60	--	--
Murray City Power Department				
Alternating Current				
138 Kilovolts	1.78	3.58	--	--
Muscatine Power and Water				
Alternating Current				
161 Kilovolts	46.30	46.30	--	--
Naperville City of				
Alternating Current				
138 Kilovolts	18.58	18.58	--	--
Natchitoches City of				
Alternating Current				
138 Kilovolts	.50	.50	--	--
New Braunfels Utilities				
Alternating Current				
138 Kilovolts	34.42	37.82	--	--
Orlando Utilities Commission				
Alternating Current				
230 Kilovolts	110.24	119.37	--	--
Orrville City of				
Alternating Current				
138 Kilovolts	8.80	8.80	--	--
Owensboro Municipal Utilities				
Alternating Current				
144 Kilovolts	16.40	16.40	--	--
Provo City Corporation				
Alternating Current				
138 Kilovolts	.40	.40	--	--
Rochester Public Utilities				
Alternating Current				
161 Kilovolts	27.80	27.80	--	--
San Francisco City & County of				
Alternating Current				
230 Kilovolts	50.70	101.40	--	--
Seattle City Light				
Alternating Current				
230 Kilovolts	305.23	482.13	9.67	9.67
Seguin City of				
Alternating Current				
138 Kilovolts	1.97	1.97	--	--
Sikeston Board of Mun Utils				
Alternating Current				
161 Kilovolts	28.00	28.00	--	--
Springfield City of				
Alternating Current				
161 Kilovolts	45.61	49.61	--	--
345 Kilovolts	45.00	90.00	--	--
Springfield Water Light&Power				
Alternating Current				
138 Kilovolts	59.71	85.01	--	--
Tacoma Dept of Public Utils				
Alternating Current				
230 Kilovolts	31.00	93.00	--	--
Tallahassee City of				
Alternating Current				
230 Kilovolts	39.10	39.10	--	--

See notes and footnotes at end of table.

Table 40. Transmission Line Statistics of Public Utilities, Fiscal Year 1992 (Continued)

Public Authority / Utility / Voltage of Transmission Line	Overhead		Underground Submarine	
	Structural Miles	Circuit Miles	Structural Miles	Circuit Miles
Municipal				
Turlock Irrigation District				
Alternating Current				
230 Kilovolts	25.50	51.00	—	—
Washington City of				
Alternating Current				
230 Kilovolts	7.50	7.50	—	—
Western Minnesota Mun Pwr Agny				
Alternating Current				
230 Kilovolts	45.00	45.00	—	—
345 Kilovolts	88.00	88.00	—	—
Willmar Municipal Utils Comm				
Alternating Current				
230 Kilovolts	13.50	13.50	—	—

Notes: •Totals may not equal sum of components because of independent rounding. •Voluntary filings of distribution line and transmission line data below 138 kilovolts are not included in this table.

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

Table 41. Transmission Lines Added by Investor-Owned Utilities, by NERC Region, 1992

Voltage of Transmission Line	Line Length (miles)	Line Cost (dollars)			
		Land	Structure	Conductors	Total
Investor-Owned Utilities in ECAR					
138 kV AC	117.66	4,385,833	13,741,559	12,621,654	30,748,846
230 kV AC	94.42	3,933,820	11,636,106	8,854,043	24,423,969
345 kV AC	20.00	246,768	5,934,330	2,839,381	9,020,479
Investor-Owned Utilities in ERCOT					
138 kV AC	431.05	309,993	1,125,353	834,949	2,270,295
345 kV AC	37.68	—	—	—	—
Investor-Owned Utilities in MAAC					
138 kV AC	4.63	75,068	17,228,759	6,640,694	26,488,660
220 kV AC	—	4,951,579	8,510,483	4,691,544	18,153,606
230 kV AC	37.71	9,285,339	14,519,133	12,033,269	35,837,741
500 kV AC	—	22,331	—	—	22,331
Investor-Owned Utilities in MAIN					
138 kV AC	87.88	1,814,806	5,395,351	4,743,639	11,953,796
345 kV AC	78.30	1,829,103	14,085,041	15,381,572	31,095,716
Investor-Owned Utilities in MAPP					
230 kV AC	0.05	—	65,364	63,548	128,912
Investor-Owned Utilities in NPCC					
138 kV AC	4.31	—	8,165,918	6,477,977	14,643,895
345 kV AC	.05	35,650	238,932	—	274,582
Investor-Owned Utilities in SERC					
138 kV AC	255.36	303,787	5,622,703	4,901,778	10,806,948
230 kV AC	158.13	3,181,668	14,018,358	14,036,102	31,236,129
Investor-Owned Utilities in SPP					
138 kV AC	27.95	1,398,730	5,170,748	2,932,791	11,041,994
230 kV AC	34.13	642,600	5,489,748	3,637,837	9,770,185
345 kV AC	102.99	9,540	116,535	2,595,662	2,702,657
Investor-Owned Utilities in WSCC					
138 kV AC	18.70	330,899	1,977,896	545,736	2,854,531
230 kV AC	706.44	5,961,031	37,994,994	25,421,855	69,377,880
345 kV AC	346.70	1,498,843	21,887,974	8,291,158	31,677,975
Contiguous U.S. Total					
138 kV AC	947.54	8,618,916	58,428,287	39,699,218	110,808,965
220 kV AC	—	4,951,579	8,510,483	4,691,544	18,153,606
230 kV AC	1,030.88	23,004,458	83,723,703	64,046,654	170,774,816
345 kV AC	583.72	3,419,904	42,262,812	29,107,773	74,771,409
500 kV AC	—	22,331	—	—	22,331

— 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 and Figure 2 for a map of the regions. •Totals may not equal sum of components because of independent rounding. •Voluntary filings of distribution line and transmission line data below 138 kilovolts are not included in this table.

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 42. Transmission Lines Added by Investor-Owned Utilities, 1992

Utility / Voltage of Line	Line Length (miles)	Line Cost (dollars)			
		Land	Structure	Conductors	Total
Alabama Power Co					
230 kV AC	5.05	—	1,485,407	439,775	1,925,182
Appalachian Power Co					
138 kV AC	8.80	314,942	1,445,100	771,862	2,531,704
230 kV AC	91.42	3,933,820	9,837,151	7,654,740	21,425,711
Baltimore Gas & Electric Co					
230 kV AC	4.50	991,420	3,539,927	2,789,111	7,320,458
Boston Edison Co					
345 kV AC	.05	—	—	—	—
Carolina Power & Light Co					
138 kV AC	15.78	—	203,760	153,395	357,155
230 kV AC	41.44	563,763	4,632,035	3,319,807	8,515,605
Central Illinois Pub Serv Co					
138 kV AC	34.32	1,731,915	2,985,818	3,157,629	7,875,162
Central Power & Light Co					
138 kV AC	59.60	150,972	92,988	—	243,960
Cincinnati Gas & Electric Co					
138 kV AC	3.15	—	—	—	—
Columbus Southern Power Co					
138 kV AC	2.53	359,358	275,294	2,964,097	3,598,749
Commonwealth Edison Co					
138 kV AC	31.85	—	370,849	158,935	529,784
Consolidated Edison Co-NY Inc					
138 kV AC	4.31	—	8,165,918	6,477,977	14,643,895
345 kV AC	—	35,650	238,932	—	274,582
Consumers Power Co					
138 kV AC	37.10	576,129	3,273,252	2,785,674	6,635,055
345 kV AC	20.00	246,768	5,631,314	2,731,327	8,609,409
Dayton Power & Light Co					
138 kV AC	2.23	—	—	—	—
Delmarva Power & Light Co					
138 kV AC	4.63	—	—	—	2,544,139
Duquesne Light Co					
138 kV AC	7.16	149,182	1,295,841	1,406,025	2,851,048
Florida Power & Light Co					
138 kV AC	238.88	303,787	5,418,943	4,748,383	10,449,793
230 kV AC	76.11	10,685	2,105,124	1,600,450	3,716,260
Florida Power Corp					
230 kV AC	.34	—	92,930	58,114	151,044
Georgia Power Co					
138 kV AC	.70	—	—	—	—
230 kV AC	7.40	—	—	4,134,033	4,134,033
Hawaiian Electric Co Inc					
138 kV AC	.24	—	—	—	—
Houston Lighting & Power Co					
138 kV AC	58.80	—	—	—	—
Idaho Power Co					
138 kV AC	1.36	3	101,116	87,077	188,196
Illinois Power Co					
138 kV AC	9.88	82,891	361,706	308,957	753,554
Indiana Michigan Power Co					
138 kV AC	19.58	878,176	968,228	1,091,832	2,938,236
Indianapolis Power & Light Co					
138 kV AC	10.47	—	—	—	—
Kentucky Power Co					
138 kV AC	1.02	—	166,548	239,668	406,216
Louisiana Power & Light Co					
230 kV AC	31.10	23,479	4,806,295	3,314,757	8,144,531
Mississippi Power & Light Co					
230 kV AC	3.03	619,121	683,453	323,080	1,625,654
Montana Power Co					
230 kV AC	4.70	580,243	913,576	426,242	1,920,061
Nevada Power Co					
138 kV AC	17.34	330,896	1,876,780	458,659	2,666,335
230 kV AC	6.28	1,024,970	4,578,202	2,377,287	7,980,459
Northern States Power Co (MN)					
230 kV AC	.05	—	65,364	63,548	128,912
Ohio Edison Co					
138 kV AC	—	1,177	97,199	22,435	120,811
345 kV AC	—	—	303,016	108,054	411,070

See notes and footnotes at end of table.

Table 42. Transmission Lines Added by Investor-Owned Utilities, 1992 (Continued)

Utility / Voltage of Line	Line Length (miles)	Line Cost (dollars)			
		Land	Structure	Conductors	Total
Ohio Power Co					
138 kV AC	6.66	443,477	1,827,828	1,230,967	3,502,272
Oklahoma Gas & Electric Co					
138 kV AC	4.48	1,031,263	4,319,566	1,959,802	7,310,631
345 kV AC	--	9,540	116,535	2,075	109,070
Pacific Gas & Electric Co					
230 kV AC	17.59	--	--	--	--
Pennsylvania Power & Light Co					
230 kV AC	22.23	--	292,935	3,971,452	4,264,387
People's electric Coop					
138 kV AC	12.43	--	--	--	1,539,725
Philadelphia Electric Co					
220 kV AC	--	4,951,579	8,510,483	4,691,544	18,153,606
Potomac Edison Co					
138 kV AC	4.58	437,649	1,094,075	672,870	2,204,594
Potomac Electric Power Co					
230 kV AC	.57	--	41,777	145,930	187,707
Public Service Co of Colorado ¹					
230 kV AC	655.06	3,567,132	31,130,647	20,258,072	54,955,851
345 kV AC	346.70	1,498,843	21,887,974	8,291,158	31,677,975
Public Service Co of Oklahoma					
138 kV AC	10.84	347,359	652,275	865,266	1,864,900
Public Service Electric&Gas Co					
138 kV AC	--	75,068	17,228,759	6,640,694	23,944,521
230 kV AC	10.41	8,293,919	10,644,494	5,126,776	24,065,189
500 kV AC	--	22,331	--	--	22,331
Puget Sound Power & Light Co					
230 kV AC	22.81	788,886	1,372,569	2,360,254	4,521,509
PSI Energy Inc					
138 kV AC	4.00	65,923	691,702	372,455	1,130,080
230 kV AC	3.00	--	1,798,955	1,199,303	2,998,258
South Carolina Electric&Gas Co					
230 kV AC	8.00	413,298	794,189	1,100,936	2,298,423
Southern Indiana Gas & Elec Co					
138 kV AC	7.08	--	590,731	355,501	946,232
St Joseph Light & Power Co					
345 kV AC	102.99	--	--	2,593,587	2,593,587
Texas Utilities Electric Co					
138 kV AC	277.06	--	--	--	--
345 kV AC	37.68	--	--	--	--
Utilicorp United Inc					
138 kV AC	.20	20,108	198,907	107,723	326,738
Virginia Electric & Power Co					
230 kV AC	19.79	2,193,922	4,918,673	3,382,987	10,495,582
West Penn Power Co					
138 kV AC	5.30	1,159,620	2,015,761	708,468	3,883,849
West Texas Utilities Co					
138 kV AC	35.59	159,021	1,032,365	834,949	2,026,335
Wisconsin Electric Power Co					
138 kV AC	11.83	--	1,677,178	1,118,118	2,795,296
345 kV AC	76.30	1,629,103	14,085,041	15,381,572	31,095,716

¹ Public Service Company of Colorado purchased the transmission assets of a bankrupt cooperative. These numbers reflect the addition of new assets to the ratebase of Public Service Company of Colorado.

-- Not Applicable

Notes: *Totals may not equal sum of components because of independent rounding. *Voluntary filings of distribution line and transmission line data below 138 kilovolts are not included in this table.

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 43. Watthour Meter and Line Transformer Statistics of Investor-Owned Utilities,
by NERC Region, 1992
(Count and Megavoltampere)**

Distribution Equipment	Number at Beginning of Year	Additions During Year	Reductions During Year	Number at End of Year	In Stock, Locked, and Inactive ¹	In Customers Use	In Company Use
Investor-Owned Utilities in ECAR							
Watthour Meter Count	14,803,337	533,413	383,896	14,952,854	718,504	12,252,192	1,982,158
Line Transformer Count	3,987,528	136,124	71,940	4,051,712	154,358	3,349,143	548,211
Line Transformer Capacity (MVA)	140,279	5,088	2,053	143,314	10,022	112,614	20,678
Investor-Owned Utilities in ERCOT							
Watthour Meter Count	5,076,196	100,825	62,370	5,114,451	198,307	1,034,082	3,882,062
Line Transformer Count	1,464,513	46,804	31,191	1,480,126	51,307	391,410	1,037,409
Line Transformer Capacity (MVA)	75,646	2,816	1,562	76,900	15,807	13,051	48,042
Investor-Owned Utilities in MAAC							
Watthour Meter Count	9,749,499	355,165	224,949	9,879,715	646,038	9,227,677	6,000
Line Transformer Count	1,910,472	50,265	28,694	1,932,043	65,048	1,690,612	176,383
Line Transformer Capacity (MVA)	98,869	3,159	1,475	100,553	6,218	83,270	11,065
Investor-Owned Utilities in MAIN							
Watthour Meter Count	7,957,035	288,591	166,049	8,079,577	319,026	7,758,396	2,155
Line Transformer Count	1,677,423	60,827	35,648	1,702,602	70,193	1,630,325	2,084
Line Transformer Capacity (MVA)	93,878	3,499	1,600	95,777	9,147	81,093	5,537
Investor-Owned Utilities in MAPP							
Watthour Meter Count	3,113,115	127,440	74,807	3,165,748	156,705	3,006,583	2,460
Line Transformer Count	714,196	18,942	11,764	721,374	31,544	689,606	224
Line Transformer Capacity (MVA)	32,396	995	434	32,957	2,348	30,526	83
Investor-Owned Utilities in NPCC							
Watthour Meter Count	13,786,623	408,724	348,743	13,846,604	782,098	9,875,777	3,191,145
Line Transformer Count	2,375,133	64,432	41,952	2,397,613	177,888	1,022,620	1,197,470
Line Transformer Capacity (MVA)	116,113	3,040	2,931	116,222	13,670	59,523	43,029
Investor-Owned Utilities in SERC							
Watthour Meter Count	14,262,696	531,604	525,695	14,268,605	893,647	11,758,689	1,616,269
Line Transformer Count	4,056,641	149,666	99,885	4,106,422	148,040	3,154,491	803,891
Line Transformer Capacity (MVA)	186,905	6,986	3,712	190,179	10,222	143,961	35,996
Investor-Owned Utilities in SPP							
Watthour Meter Count	5,643,843	204,882	176,285	5,672,440	352,440	4,991,770	328,230
Line Transformer Count	2,012,059	58,807	47,321	2,023,545	68,485	1,945,041	10,019
Line Transformer Capacity (MVA)	81,969	3,248	1,740	83,477	5,548	77,080	849
Investor-Owned Utilities in WSCC							
Watthour Meter Count	17,053,460	635,637	314,166	17,374,931	820,961	15,147,308	1,406,662
Line Transformer Count	3,591,916	112,181	57,300	3,646,797	174,847	2,835,483	636,467
Line Transformer Capacity (MVA)	132,281	5,261	1,651	135,891	10,291	97,846	27,754
Contiguous U.S. Total							
Watthour Meter Count	91,445,804	3,186,081	2,276,960	92,354,925	4,887,726	75,052,474	12,417,141
Line Transformer Count	21,789,881	698,048	425,695	22,062,234	941,710	16,708,731	4,412,158
Line Transformer Capacity (MVA)	958,336	34,092	17,158	975,270	83,273	698,964	193,033

¹ In stock, locked meters on customer's premises and inactive transformers on system.

Notes: •NERC is the North American Electric Reliability Council. The Alaska System Coordinating Council is not included. See glossary for a list of regions and Figure 2 for a map of the regions. •Totals may not equal sum of components because of independent rounding. •MVA means megavoltampere.

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

Table 44. Watthour Meter and Line Transformer Statistics of Investor-Owned Utilities, 1992
(Count and Megavoltampere)

Distribution Equipment	Number at Beginning of Year	Additions During Year	Reductions During Year	Number at End of Year	In Stock, Locked, and Inactive ¹	In Customers Use	In Company Use
Alabama Power Co							
Watthour Meter Count	1,194,695	54,721	34,881	1,214,535	58,189	1,155,888	458
Line Transformer Count	532,151	24,242	13,852	542,541	13,226	529,315	--
Line Transformer Capacity (Mva)	16,926	945	405	17,466	916	16,550	--
Alaska Electric Light & Power Co							
Line Transformer Count	2,738	32	16	2,754	220	2,507	27
Line Transformer Capacity (Mva)	194	3	--	197	19	177	1
Appalachian Power Co							
Watthour Meter Count	868,128	25,524	11,149	882,503	38,291	843,511	701
Line Transformer Count	330,445	13,023	6,686	336,782	10,220	326,442	120
Line Transformer Capacity (Mva)	10,510	465	191	10,784	836	9,930	18
Arizona Public Service Co							
Watthour Meter Count	722,908	66,891	41,445	748,354	75,437	672,700	217
Line Transformer Count	185,501	5,260	1,161	189,600	15,184	174,416	--
Line Transformer Capacity (Mva)	11,448	333	60	11,721	1,164	10,557	--
Arkansas Power & Light Co							
Watthour Meter Count	692,873	43,391	64,196	672,068	82,882	585,699	3,487
Line Transformer Count	291,492	6,824	13,371	284,945	10,682	273,158	1,107
Line Transformer Capacity (Mva)	10,118	305	334	10,089	836	9,148	105
Atlantic City Electric Co							
Watthour Meter Count	470,572	29,631	24,999	475,204	10,689	464,350	165
Line Transformer Count	126,454	3,693	2,441	127,706	4,186	123,499	21
Line Transformer Capacity (Mva)	4,755	152	126	4,781	175	4,604	2
Baltimore Gas & Electric Co							
Watthour Meter Count	1,102,550	32,595	11,748	1,123,397	34,230	1,087,033	2,134
Line Transformer Count	177,180	5,224	1,899	180,505	4,849	--	175,656
Line Transformer Capacity (Mva)	11,302	390	101	11,591	576	--	11,015
Bangor Hydro-Electric Co							
Watthour Meter Count	106,481	2,731	2,139	107,073	--	106,995	78
Line Transformer Count	36,666	1,518	863	37,321	--	37,321	--
Line Transformer Capacity (Mva)	827	43	9	861	--	861	--
Black Hills Corp							
Watthour Meter Count	57,193	1,295	753	57,735	1,250	56,175	310
Line Transformer Count	17,873	727	453	18,147	1,462	16,685	--
Line Transformer Capacity (Mva)	914	75	14	975	32	943	--
Blackstone Valley Electric Co							
Watthour Meter Count	90,267	3,201	2,323	91,145	4,383	86,746	16
Line Transformer Count	12,851	271	531	12,591	1,355	11,217	19
Line Transformer Capacity (Mva)	750	18	23	745	175	569	1
Boston Edison Co							
Watthour Meter Count	764,107	14,555	34,378	744,284	57,864	684,267	2,153
Line Transformer Count	60,152	1,792	1,192	60,752	7,310	--	53,442
Line Transformer Capacity (Mva)	4,851	145	91	4,905	656	--	4,249
Cambridge Electric Light Co							
Watthour Meter Count	45,864	1,154	1,028	45,990	1,159	44,804	27
Line Transformer Count	2,366	59	91	2,334	453	1,876	5
Line Transformer Capacity (Mva)	162	7	4	165	34	130	1
Carolina Power & Light Co							
Watthour Meter Count	1,018,849	57,241	41,689	1,034,401	48,841	985,179	381
Line Transformer Count	373,818	9,303	4,952	378,169	11,257	366,912	--
Line Transformer Capacity (Mva)	14,566	521	154	14,933	877	14,056	--
Central Hudson Gas & Elec Corp							
Watthour Meter Count	270,674	9,540	4,894	275,320	23,003	252,317	--
Line Transformer Count	83,015	1,696	1,075	83,636	3,461	--	80,175
Line Transformer Capacity (Mva)	2,317	57	34	2,340	151	--	2,189

See notes and footnotes at end of table.

Table 44. Watthour Meter and Line Transformer Statistics of Investor-Owned Utilities, 1992
(Count and Megavoltampere) (Continued)

Distribution Equipment	Number at Beginning of Year	Additions During Year	Reductions During Year	Number at End of Year	In Stock, Locked, and Inactive ¹	In Customers Use	In Company Use
Central Illinois Light Co							
Watthour Meter Count	201,836	3,784	3,188	202,432	8,485	193,947	--
Line Transformer Count	61,829	1,749	1,522	61,856	1,892	59,964	--
Line Transformer Capacity (Mva)	2,759	103	47	2,815	167	2,648	--
Central Illinois Pub Serv Co							
Watthour Meter Count	333,093	14,589	5,350	342,312	16,947	325,017	348
Line Transformer Count	105,879	3,468	2,546	106,801	5,872	100,827	102
Line Transformer Capacity (Mva)	4,150	164	80	4,234	495	3,734	5
Central Louisiana Elec Co Inc							
Watthour Meter Count	221,706	8,902	2,067	228,541	12,687	215,854	--
Line Transformer Count	110,529	3,340	1,512	112,357	135	112,222	--
Line Transformer Capacity (Mva)	3,223	126	60	3,289	265	3,024	--
Central Maine Power Co							
Watthour Meter Count	532,586	11,568	13,055	531,099	19,557	--	511,542
Line Transformer Count	195,520	6,898	2,907	199,511	5,303	--	194,208
Line Transformer Capacity (Mva)	4,570	135	70	4,635	453	--	4,182
Central Power & Light Co							
Watthour Meter Count	621,541	21,046	13,784	628,803	29,353	599,162	288
Line Transformer Count	203,226	7,204	2,956	207,474	7,892	199,010	572
Line Transformer Capacity (Mva)	7,783	357	85	8,055	588	7,430	37
Central Vermont Pub Serv Corp							
Watthour Meter Count	179,102	9,232	1,546	186,788	22,754	163,874	160
Line Transformer Count	63,409	2,888	607	65,690	1,792	63,734	164
Line Transformer Capacity (Mva)	1,160	60	8	1,212	64	1,142	6
Cincinnati Gas & Electric Co							
Watthour Meter Count	643,781	32,327	19,174	656,934	52,233	--	604,701
Line Transformer Count	150,553	5,677	3,456	152,774	19,483	--	133,291
Line Transformer Capacity (Mva)	9,374	468	212	9,630	1,775	--	7,855
Citizens Electric Co of Lewisb							
Watthour Meter Count	5,834	284	177	5,941	146	5,794	1
Line Transformer Count	2,073	56	19	2,110	40	2,060	10
Line Transformer Capacity (Mva)	68	2	--	70	3	67	--
Citizens Utilities Co							
Watthour Meter Count	103,945	4,764	2,038	106,671	5,987	89,856	10,828
Line Transformer Count	35,227	4,445	79	39,593	3,503	31,041	5,049
Line Transformer Capacity (Mva)	1,051	147	8	1,190	197	854	139
Cleveland Electric Illum Co							
Watthour Meter Count	818,644	11,406	10,053	819,997	29,433	790,388	176
Line Transformer Count	137,325	2,307	878	138,754	8,043	130,711	--
Line Transformer Capacity (Mva)	7,557	113	48	7,622	1,065	6,557	--
Columbus Southern Power Co							
Watthour Meter Count	597,553	30,039	18,121	609,471	22,500	586,841	130
Line Transformer Count	142,155	4,719	2,613	144,261	5,482	138,404	375
Line Transformer Capacity (Mva)	6,321	189	85	6,425	427	5,980	18
Commonwealth Edison Co							
Watthour Meter Count	3,653,806	138,334	72,313	3,719,827	122,726	3,597,101	--
Line Transformer Count	524,337	18,314	13,288	529,363	11,906	517,457	--
Line Transformer Capacity (Mva)	34,427	1,180	579	35,028	1,325	33,703	--
Commonwealth Electric Co							
Watthour Meter Count	329,740	7,609	4,859	332,490	7,682	324,804	204
Line Transformer Count	58,841	1,032	1,298	58,575	6,235	52,291	49
Line Transformer Capacity (Mva)	2,250	43	39	2,254	343	1,907	4
Concord Electric Co							
Watthour Meter Count	25,664	360	176	25,848	1,264	24,571	13
Line Transformer Count	6,839	83	37	6,885	282	6,567	36
Line Transformer Capacity (Mva)	179	4	2	181	14	166	1

See notes and footnotes at end of table.

Table 44. Watthour Meter and Line Transformer Statistics of Investor-Owned Utilities, 1992
(Count and Megavoltampere) (Continued)

Distribution Equipment	Number at Beginning of Year	Additions During Year	Reductions During Year	Number at End of Year	In Stock, Locked, and Inactive ¹	In Customers Use	In Company Use
Connecticut Light & Power Co							
Watthour Meter Count	1,105,505	40,150	38,329	1,107,326	30,419	1,076,787	120
Line Transformer Count	220,407	5,379	4,353	221,433	6,074	214,949	410
Line Transformer Capacity (MVA)	10,345	269	607	10,007	273	9,710	24
Connecticut Valley Elec Co Inc							
Watthour Meter Count	12,404	204	241	12,367	732	11,628	7
Line Transformer Count	3,585	111	53	3,643	43	3,595	5
Line Transformer Capacity (MVA)	60	2	1	61	1	60	--
Conowingo Power Co							
Watthour Meter Count	36,816	1,094	872	37,038	3,103	33,925	10
Line Transformer Count	9,812	294	195	9,911	222	9,676	13
Line Transformer Capacity (MVA)	384	31	4	391	24	366	1
Consolidated Edison Co-NY Inc							
Watthour Meter Count	3,170,958	88,695	69,452	3,190,201	221,922	2,967,776	503
Line Transformer Count	77,754	2,592	1,644	78,702	4,184	74,518	--
Line Transformer Capacity (MVA)	22,942	722	359	23,305	1,284	22,021	--
Consolidated Water Power Co							
Watthour Meter Count	1,252	--	5	1,247	91	--	1,156
Line Transformer Count	495	13	3	505	140	--	365
Line Transformer Capacity (MVA)	8,346	388	48	8,686	3,251	--	5,435
Consumers Power Co							
Watthour Meter Count	1,551,215	55,381	31,022	1,575,574	44,975	1,529,938	661
Line Transformer Count	480,139	19,993	9,164	470,968	27,369	443,434	165
Dayton Power & Light Co							
Watthour Meter Count	488,525	13,007	22,768	478,764	18,628	460,045	91
Line Transformer Count	137,622	2,091	2,882	136,831	11,724	125,107	--
Line Transformer Capacity (MVA)	6,472	132	161	6,443	675	5,768	--
Delmarva Power & Light Co							
Watthour Meter Count	412,035	14,267	11,478	414,824	27,230	387,588	6
Line Transformer Count	101,628	3,088	1,329	103,387	5,113	98,033	241
Line Transformer Capacity (MVA)	4,464	148	48	4,564	313	4,248	3
Detroit Edison Co							
Watthour Meter Count	2,277,209	77,313	26,195	2,328,327	130,566	2,196,757	1,004
Line Transformer Count	349,602	12,494	4,273	357,823	6,385	349,531	1,907
Line Transformer Capacity (MVA)	19,820	671	150	20,341	570	19,749	22
Duke Power Co							
Watthour Meter Count	1,901,674	68,964	181,929	1,788,709	70,985	1,715,158	2,566
Line Transformer Count	585,619	21,467	16,677	590,409	14,808	575,225	376
Line Transformer Capacity (MVA)	33,006	910	522	33,394	1,365	32,010	19
Dunquese Light Co							
Watthour Meter Count	608,663	5,026	9,800	603,889	17,888	--	586,001
Line Transformer Count	96,325	3,520	602	99,243	1,622	--	97,621
Line Transformer Capacity (MVA)	4,978	125	14	5,089	75	--	5,014
Eastern Edison Co							
Watthour Meter Count	203,855	3,819	3,702	203,972	7,243	199,123	22
Line Transformer Count	31,119	1,280	1,439	30,960	2,327	28,937	61
Line Transformer Capacity (MVA)	1,621	40	305	1,356	199	1,156	1
Edison Sault Electric Co							
Watthour Meter Count	21,542	321	390	21,473	649	20,790	34
Line Transformer Count	7,755	242	3	7,994	725	7,238	31
Line Transformer Capacity (MVA)	244	7	--	251	37	213	1
El Paso Electric Co							
Watthour Meter Count	290,323	7,187	3,136	294,374	3,989	290,208	177
Line Transformer Count	61,036	1,495	37	62,494	1,636	60,729	129
Line Transformer Capacity (MVA)	2,505	72	1	2,576	170	2,405	1
Empire District Electric Co							
Watthour Meter Count	129,535	5,848	2,243	133,140	15,064	117,940	136
Line Transformer Count	61,616	2,665	726	63,555	3,222	60,333	--
Line Transformer Capacity (MVA)	1,894	133	16	2,011	103	1,908	--

See notes and footnotes at end of table.

Table 44. Watthour Meter and Line Transformer Statistics of Investor-Owned Utilities, 1992
(Count and Megavoltampere) (Continued)

Distribution Equipment	Number at Beginning of Year	Additions During Year	Reductions During Year	Number at End of Year	In Stock, Locked, and Inactive ¹	In Customers Use	In Company Use
Exeter & Hampton Electric Co							
Watthour Meter Count	36,331	1,563	651	37,243	2,954	34,281	8
Line Transformer Count	8,850	120	85	6,885	473	6,408	4
Line Transformer Capacity (Mva)	255	5	2	258	24	234	--
Fitchburg Gas & Elec Light Co							
Watthour Meter Count	26,491	633	557	26,567	1,825	24,735	7
Line Transformer Count	5,463	362	133	5,692	494	--	5,198
Line Transformer Capacity (Mva)	167	2	8	161	19	--	142
Florida Power & Light Co							
Watthour Meter Count	3,511,835	147,073	89,284	3,569,624	261,082	3,308,145	397
Line Transformer Count	655,510	39,735	23,089	672,156	17,078	653,585	1,493
Line Transformer Capacity (Mva)	35,390	1,842	892	36,340	1,350	34,874	116
Florida Power Corp							
Watthour Meter Count	1,341,948	50,746	24,699	1,367,995	144,023	1,223,536	436
Line Transformer Count	289,009	12,421	11,237	290,193	4,518	--	285,675
Line Transformer Capacity (Mva)	12,796	599	542	12,853	337	--	12,516
Georgia Power Co							
Watthour Meter Count	1,729,834	32,751	74,857	1,687,728	76,965	--	1,610,763
Line Transformer Count	534,396	11,272	7,531	538,137	25,176	--	512,961
Line Transformer Capacity (Mva)	25,334	593	434	25,493	2,496	--	22,997
Granite State Electric Co							
Watthour Meter Count	37,305	1,146	1,040	37,411	2,257	34,794	360
Line Transformer Count	8,269	102	199	8,172	1,357	6,769	46
Line Transformer Capacity (Mva)	330	8	6	332	30	301	1
Green Mountain Power Corp							
Watthour Meter Count	82,905	1,133	740	83,298	3,572	79,574	152
Line Transformer Count	31,229	297	2,232	29,294	1,321	27,865	108
Line Transformer Capacity (Mva)	1,027	8	142	893	67	823	3
Gulf Power Co							
Watthour Meter Count	322,165	6,657	3,281	325,541	23,540	301,934	67
Line Transformer Count	110,186	5,392	2,570	113,008	4,332	108,585	91
Line Transformer Capacity (Mva)	3,894	220	60	4,054	224	3,819	11
Gulf States Utilities Co							
Watthour Meter Count	606,189	19,545	9,656	616,078	29,919	584,359	1,800
Line Transformer Count	284,624	5,147	6,139	283,632	2,511	279,428	1,693
Line Transformer Capacity (Mva)	12,586	353	288	12,651	342	12,264	45
Hawaiian Electric Co Inc							
Watthour Meter Count	262,663	7,419	3,727	266,355	5,226	260,381	748
Line Transformer Count	29,258	1,696	1,190	29,764	--	29,764	--
Line Transformer Capacity (Mva)	2,602	160	73	2,689	--	2,689	--
Holyoke Power & Electric Co							
Watthour Meter Count	1	2	--	3	--	--	3
Line Transformer Count	1	--	--	1	--	--	1
Holyoke Water Power Co							
Watthour Meter Count	455	20	23	452	182	218	52
Line Transformer Count	183	20	2	201	32	151	18
Line Transformer Capacity (Mva)	100	4	2	102	17	81	4
Houston Lighting & Power Co							
Watthour Meter Count	1,714,885	18,782	8,275	1,725,392	50,162	--	1,675,230
Line Transformer Count	391,999	16,429	15,162	393,266	10,095	--	383,171
Line Transformer Capacity (Mva)	26,881	1,104	912	27,073	12,336	--	14,737
Idaho Power Co							
Watthour Meter Count	307,976	14,578	7,185	315,369	6,266	307,503	1,600
Line Transformer Count	158,215	5,868	2,816	161,267	4,818	154,847	1,602
Line Transformer Capacity (Mva)	7,014	307	101	7,220	556	6,652	12
Illinois Power Co							
Watthour Meter Count	594,685	14,807	13,373	596,119	33,928	562,191	--
Line Transformer Count	190,316	2,777	1,770	191,323	6,628	183,816	879
Line Transformer Capacity (Mva)	7,868	148	69	7,947	557	7,369	21

See notes and footnotes at end of table.

Table 44. Watthour Meter and Line Transformer Statistics of Investor-Owned Utilities, 1992
(Count and Megavoltampere) (Continued)

Distribution Equipment	Number at Beginning of Year	Additions During Year	Reductions During Year	Number at End of Year	In Stock, Locked, and Inactive ¹	In Customers Use	In Company Use
Indiana Michigan Power Co							
Watthour Meter Count	558,409	22,280	23,524	555,165	26,576	527,812	777
Line Transformer Count	159,994	4,932	3,718	161,208	2,860	157,131	1,217
Line Transformer Capacity (Mva)	6,067	199	123	6,143	282	5,784	77
Indianapolis Power & Light Co							
Watthour Meter Count	426,489	14,937	8,830	432,796	23,802	408,924	70
Line Transformer Count	79,551	2,808	1,131	81,228	4,877	76,107	244
Line Transformer Capacity (Mva)	5,276	237	42	5,471	510	4,948	13
Interstate Power Co							
Watthour Meter Count	185,299	5,512	5,345	185,466	6,399	178,716	351
Line Transformer Count	47,519	784	569	47,734	1,947	45,787	—
Line Transformer Capacity (Mva)	1,749	39	13	1,775	110	1,665	—
Iowa Electric Light & Power Co							
Watthour Meter Count	228,035	5,065	4,208	228,892	8,754	219,521	617
Line Transformer Count	68,749	1,945	1,076	69,618	2,861	66,757	—
Line Transformer Capacity (Mva)	2,389	89	27	2,451	183	2,268	—
Iowa Illinois Gas&Electric Co							
Watthour Meter Count	201,777	6,541	3,802	204,516	11,506	193,010	—
Line Transformer Count	56,755	2,778	1,921	57,612	3,969	53,643	—
Line Transformer Capacity (Mva)	2,791	61	69	2,783	317	2,466	—
Jersey Central Power&Light Co							
Watthour Meter Count	988,223	69,351	19,653	1,037,921	115,860	921,811	250
Line Transformer Count	198,292	4,649	4,503	198,438	7,927	190,511	—
Line Transformer Capacity (Mva)	10,253	246	242	10,257	722	9,535	—
Kansas City Power & Light Co							
Watthour Meter Count	473,547	11,185	22,911	461,821	16,742	445,012	87
Line Transformer Count	96,669	3,512	2,280	97,901	1,529	96,372	—
Line Transformer Capacity (Mva)	5,469	227	95	5,601	269	5,332	—
Kansas Gas & Electric Co							
Watthour Meter Count	272,971	4,511	3,071	274,411	4,867	269,210	334
Line Transformer Count	95,310	2,498	716	97,092	3,250	93,873	169
Line Transformer Capacity (Mva)	4,242	229	24	4,447	287	4,138	22
Kentucky Power Co							
Watthour Meter Count	168,053	5,893	3,920	170,026	7,769	162,204	53
Line Transformer Count	78,073	5,174	4,224	79,023	1,792	77,168	63
Line Transformer Capacity (Mva)	2,404	166	138	2,432	156	2,274	2
Kentucky Utilities Co							
Watthour Meter Count	488,112	17,488	4,124	501,476	54,297	446,430	749
Line Transformer Count	172,592	4,929	790	176,731	—	176,731	—
Line Transformer Capacity (Mva)	5,941	190	20	6,111	—	6,111	—
Kingsport Power Co							
Watthour Meter Count	40,972	959	577	41,354	1,220	40,111	23
Line Transformer Count	12,980	431	759	12,652	472	12,171	9
Line Transformer Capacity (Mva)	543	20	5	558	38	519	1
Lockhart Power Co							
Watthour Meter Count	5,564	212	309	5,467	52	5,387	28
Line Transformer Count	3,031	113	317	2,827	148	2,679	—
Line Transformer Capacity (Mva)	83	3	4	82	6	76	—
Long Island Lighting Co							
Watthour Meter Count	1,148,031	26,054	38,290	1,135,805	7,000	—	1,128,805
Line Transformer Count	180,642	3,080	3,834	179,888	25,697	—	154,191
Line Transformer Capacity (Mva)	9,836	229	231	9,834	2,092	—	7,742
Louisiana Power & Light Co							
Watthour Meter Count	654,816	26,158	15,326	665,648	58,578	606,981	89
Line Transformer Count	181,551	7,214	6,399	182,366	9,780	170,952	1,634
Line Transformer Capacity (Mva)	8,991	444	308	9,127	932	8,047	148

See notes and footnotes at end of table.

Table 44. Watthour Meter and Line Transformer Statistics of Investor-Owned Utilities, 1992
(Count and Megavoltampere) (Continued)

Distribution Equipment	Number at Beginning of Year	Additions During Year	Reductions During Year	Number at End of Year	In Stock, Locked, and Inactive ¹	In Customers Use	In Company Use
Louisville Gas & Electric Co							
Watthour Meter Count	358,661	13,620	13,710	358,571	22,399	336,051	121
Line Transformer Count	77,556	1,746	1,198	78,104	2,387	75,717	—
Line Transformer Capacity (MVA)	4,189	115	39	4,265	130	4,135	—
Madison Gas & Electric Co							
Watthour Meter Count	116,724	1,890	855	117,759	3,107	114,571	81
Line Transformer Count	18,661	360	151	18,870	1,373	17,430	67
Line Transformer Capacity (MVA)	1,148	30	5	1,173	120	1,050	3
Maine Public Service Co							
Watthour Meter Count	35,235	1,408	1,283	35,360	1,602	33,615	143
Line Transformer Count	11,430	187	49	11,568	564	11,004	—
Line Transformer Capacity (MVA)	218	5	1	222	27	195	—
Massachusetts Electric Co							
Watthour Meter Count	990,552	42,878	31,085	1,008,345	35,051	973,083	211
Line Transformer Count	148,470	2,603	3,566	147,507	9,990	135,218	2,299
Line Transformer Capacity (MVA)	7,454	142	123	7,473	917	6,399	157
Maul Electric Co Ltd							
Watthour Meter Count	51,650	2,655	255	54,050	—	54,050	—
Line Transformer Count	8,880	465	221	9,124	—	9,124	—
Line Transformer Capacity (MVA)	444	31	10	465	—	465	—
Metropolitan Edison Co							
Watthour Meter Count	482,005	14,195	8,436	487,764	35,549	449,177	3,038
Line Transformer Count	146,373	3,736	1,605	148,504	3,263	145,241	—
Line Transformer Capacity (MVA)	5,813	162	71	5,904	395	5,509	—
Midwest Power Systems Inc							
Watthour Meter Count	446,121	12,466	10,065	448,522	7,331	441,191	—
Line Transformer Count	129,342	3,233	1,188	131,377	971	130,406	—
Line Transformer Capacity (MVA)	5,710	196	61	5,845	73	5,772	—
Minnesota Power & Light Co							
Watthour Meter Count	123,085	4,123	1,770	125,438	8,867	116,551	—
Line Transformer Count	37,117	1,353	573	37,897	2,613	35,284	—
Line Transformer Capacity (MVA)	1,201	58	12	1,247	172	1,075	—
Mississippi Power & Light Co							
Watthour Meter Count	373,806	11,476	5,606	379,676	18,612	360,635	429
Line Transformer Count	150,797	4,275	3,073	151,999	3,509	148,490	—
Line Transformer Capacity (MVA)	5,415	175	101	5,489	238	5,251	—
Mississippi Power Co							
Watthour Meter Count	186,254	5,161	2,998	188,417	9,831	178,443	143
Line Transformer Count	73,388	2,408	2,457	73,339	3,571	69,768	—
Line Transformer Capacity (MVA)	2,734	141	81	2,794	—	2,794	—
Monongahela Power Co							
Watthour Meter Count	359,626	14,866	12,295	362,197	27,267	334,924	6
Line Transformer Count	170,634	6,090	4,225	172,499	3,116	169,383	—
Line Transformer Capacity (MVA)	2,902	109	48	2,963	126	2,837	—
Montana Power Co							
Watthour Meter Count	278,449	7,882	4,726	281,605	17,233	263,957	415
Line Transformer Count	105,527	3,954	2,094	107,387	6,476	100,578	333
Line Transformer Capacity (MVA)	3,408	174	64	3,518	452	3,042	24
Mt Carmel Public Utility Co							
Watthour Meter Count	6,674	77	126	6,625	277	6,328	20
Line Transformer Count	2,433	30	14	2,449	2,434	—	15
Line Transformer Capacity (MVA)	68	1	4	65	64	—	1
MDU Resources Group Inc							
Watthour Meter Count	118,341	213	—	118,554	4,672	113,768	114
Line Transformer Count	32,515	320	—	32,835	3,439	29,396	—
Line Transformer Capacity (MVA)	1,080	64	—	1,144	136	1,008	—

See notes and footnotes at end of table.

Table 44. Watthour Meter and Line Transformer Statistics of Investor-Owned Utilities, 1992
(Count and Megavoltampere) (Continued)

Distribution Equipment	Number at Beginning of Year	Additions During Year	Reductions During Year	Number at End of Year	In Stock, Locked, and Inactive ¹	In Customers Use	In Company Use
Nantahala Power & Light Co							
Watthour Meter Count	51,981	1,364	139	53,206	53,186	—	20
Line Transformer Count	33,559	839	112	34,286	34,248	—	38
Line Transformer Capacity (MVA)	713	20	2	731	730	—	1
Narragansett Electric Co							
Watthour Meter Count	339,130	14,332	12,080	341,382	13,891	327,471	20
Line Transformer Count	53,049	1,907	1,804	53,352	3,194	49,997	161
Line Transformer Capacity (MVA)	2,192	72	57	2,207	274	1,926	7
Nevada Power Co							
Watthour Meter Count	392,298	17,872	3,658	406,512	22,539	383,638	335
Line Transformer Count	55,939	2,252	664	57,527	3,450	53,849	228
Line Transformer Capacity (MVA)	5,056	310	43	5,323	466	4,850	7
New England Power Co							
Watthour Meter Count	1,067	92	3	1,156	334	444	378
Line Transformer Count	3	—	—	3	—	—	3
New Orleans Public Service Inc							
Watthour Meter Count	214,644	15,394	10,788	219,250	23,402	195,848	—
Line Transformer Count	35,205	644	1,002	34,847	2,596	32,054	197
Line Transformer Capacity (MVA)	3,085	163	68	3,180	671	2,498	11
New York State Elec & Gas Corp							
Watthour Meter Count	861,421	26,673	26,020	862,074	75,929	785,779	366
Line Transformer Count	279,279	8,862	5,277	282,864	9,774	—	273,090
Line Transformer Capacity (MVA)	8,920	363	167	9,116	883	—	8,233
Newport Electric Corp							
Watthour Meter Count	39,030	1,966	1,577	39,419	2,135	37,266	18
Line Transformer Count	5,656	126	526	5,256	427	—	4,829
Line Transformer Capacity (MVA)	276	13	14	275	45	—	230
Niagara Mohawk Power Corp							
Watthour Meter Count	1,659,953	45,093	27,671	1,677,375	143,391	—	1,533,984
Line Transformer Count	404,139	8,542	2,338	410,343	51,903	—	358,440
Line Transformer Capacity (MVA)	16,717	91	346	16,462	2,938	—	13,524
Northern Indiana Pub Serv Co							
Watthour Meter Count	422,116	5,797	8,113	419,800	20,668	398,332	800
Line Transformer Count	107,210	1,306	1,098	107,418	4,015	102,673	730
Line Transformer Capacity (MVA)	4,544	59	49	4,554	443	3,967	144
Northern States Power Co (MN)							
Watthour Meter Count	1,340,933	77,121	35,782	1,382,272	76,629	1,305,238	405
Line Transformer Count	203,805	5,608	3,394	206,019	8,828	197,191	—
Line Transformer Capacity (MVA)	11,801	345	171	11,975	850	11,125	—
Northern States Power Co (WI)							
Watthour Meter Count	213,567	6,652	4,724	215,495	10,154	205,243	98
Line Transformer Count	67,290	1,959	2,138	67,111	2,983	64,128	—
Line Transformer Capacity (MVA)	2,320	83	56	2,347	197	2,150	—
Northwestern Public Service Co							
Watthour Meter Count	56,928	3,043	2,212	57,759	2,899	54,357	503
Line Transformer Count	17,875	320	267	17,928	1,467	16,279	182
Line Transformer Capacity (MVA)	903	26	8	921	149	698	74
Northwestern Wisconsin Elec Co							
Watthour Meter Count	18,974	680	1,230	18,424	7,664	10,695	65
Line Transformer Count	10,910	285	127	11,068	554	10,504	10
Line Transformer Capacity (MVA)	685	6	3	688	14	666	8
Ohio Edison Co							
Watthour Meter Count	967,317	63,135	58,575	971,877	54,149	917,600	128
Line Transformer Count	257,586	10,338	6,483	261,441	9,612	251,829	—
Line Transformer Capacity (MVA)	8,603	446	186	8,863	697	8,166	—
Ohio Power Co							
Watthour Meter Count	672,380	25,080	20,523	676,937	24,716	650,869	1,352
Line Transformer Count	227,071	7,356	4,427	230,000	5,636	223,566	798
Line Transformer Capacity (MVA)	7,286	369	187	7,468	416	7,022	30

See notes and footnotes at end of table.

Table 44. Watthour Meter and Line Transformer Statistics of Investor-Owned Utilities, 1992
(Count and Megavoltampere) (Continued)

Distribution Equipment	Number at Beginning of Year	Additions During Year	Reductions During Year	Number at End of Year	In Stock, Locked, and Inactive ¹	In Customers Use	In Company Use
Orange & Rockland Utils Inc							
Watthour Meter Count	202,505	2,703	2,558	202,650	15,514	187,114	22
Line Transformer Count	61,445	1,794	1,317	61,922	13,818	48,104	--
Line Transformer Capacity (Mva)	3,189	108	83	3,214	963	2,251	--
Otter Tail Power Co							
Watthour Meter Count	165,922	5,516	5,279	166,159	10,803	155,074	282
Line Transformer Count	40,338	297	443	40,192	1,758	38,434	--
Line Transformer Capacity (Mva)	1,686	24	12	1,698	138	1,560	--
Pacific Gas & Electric Co							
Watthour Meter Count	4,569,258	119,833	68,442	4,620,649	316,541	4,304,108	--
Line Transformer Count	909,985	19,313	11,365	917,933	44,569	868,970	4,394
Line Transformer Capacity (Mva)	35,465	785	335	35,915	1,843	33,984	88
PacificCorp							
Watthour Meter Count	1,412,764	144,780	57,269	1,500,275	98,963	--	1,401,312
Line Transformer Count	443,507	29,106	10,872	461,741	48,833	--	412,908
Line Transformer Capacity (Mva)	17,254	1,643	304	18,593	2,607	--	15,986
Pennsylvania Electric Co							
Watthour Meter Count	585,216	20,432	13,161	592,487	24,614	567,873	--
Line Transformer Count	173,632	5,534	3,439	175,727	12,436	163,291	--
Line Transformer Capacity (Mva)	6,824	276	154	6,946	987	5,959	--
Pennsylvania Power & Light Co							
Watthour Meter Count	1,238,925	44,084	33,338	1,249,671	41,755	1,207,916	--
Line Transformer Count	387,318	10,408	4,444	393,282	4,803	388,479	--
Line Transformer Capacity (Mva)	11,656	419	132	11,943	313	11,630	--
Pennsylvania Power Co							
Watthour Meter Count	163,129	7,271	9,077	161,323	6,206	155,090	27
Line Transformer Count	51,796	2,072	864	53,004	1,940	51,064	--
Line Transformer Capacity (Mva)	1,355	76	24	1,407	110	1,297	--
Philadelphia Electric Co							
Watthour Meter Count	1,730,723	35,223	26,569	1,739,377	177,126	1,562,083	168
Line Transformer Count	162,474	4,004	1,922	164,556	5,338	158,776	442
Line Transformer Capacity (Mva)	10,988	357	123	11,222	685	10,493	44
Pioneer Power & Light Co							
Watthour Meter Count	1,581	50	2	1,629	67	1,559	3
Line Transformer Count	885	36	3	918	7	911	--
Line Transformer Capacity (Mva)	16	1	--	17	--	17	--
Portland General Electric Co							
Watthour Meter Count	638,208	46,208	33,388	651,028	28,480	622,423	125
Line Transformer Count	160,565	3,096	1,475	162,186	8,530	153,656	--
Line Transformer Capacity (Mva)	6,998	170	45	7,123	468	6,655	--
Potomac Edison Co							
Watthour Meter Count	365,009	12,089	7,897	369,201	15,405	353,758	38
Line Transformer Count	154,698	3,790	2,624	155,864	5,949	149,887	28
Line Transformer Capacity (Mva)	4,605	176	43	4,738	353	4,379	6
Potomac Electric Power Co							
Watthour Meter Count	696,154	25,988	16,232	705,910	94,284	611,626	--
Line Transformer Count	104,593	1,905	1,736	104,762	9,101	95,661	--
Line Transformer Capacity (Mva)	11,974	309	165	12,118	1,272	10,846	--
Public Service Co of Colorado							
Watthour Meter Count	991,914	27,882	21,617	998,179	19,683	978,496	--
Line Transformer Count	167,801	3,571	2,430	168,942	6,931	--	162,011
Line Transformer Capacity (Mva)	9,132	345	122	9,355	696	--	8,659
Public Service Co of NH							
Watthour Meter Count	504,466	9,876	8,263	506,079	21,787	484,036	256
Line Transformer Count	123,274	2,308	1,195	124,387	3,517	120,870	--
Line Transformer Capacity (Mva)	4,285	82	35	4,332	301	4,031	--

See notes and footnotes at end of table.

Table 44. Watthour Meter and Line Transformer Statistics of Investor-Owned Utilities, 1992
(Count and Megavoltampere) (Continued)

Distribution Equipment	Number at Beginning of Year	Additions During Year	Reductions During Year	Number at End of Year	In Stock, Locked, and Inactive ¹	In Customers Use	In Company Use
Public Service Co of NM							
Watthour Meter Count	318,762	10,642	1,557	327,847	4,725	323,056	66
Line Transformer Count	66,272	1,360	875	66,757	916	65,885	156
Line Transformer Capacity (Mva)	2,704	46	62	2,688	85	2,580	23
Public Service Co of Oklahoma							
Watthour Meter Count	489,930	11,454	9,099	492,285	--	492,285	--
Line Transformer Count	140,036	4,796	1,817	143,015	--	143,015	--
Line Transformer Capacity (Mva)	6,274	210	107	6,377	--	6,377	--
Public Service Electric & Gas Co							
Watthour Meter Count	1,935,485	66,732	57,585	1,944,632	79,108	1,865,296	228
Line Transformer Count	299,963	6,961	4,860	302,064	4,396	297,668	--
Line Transformer Capacity (Mva)	19,375	623	294	19,704	550	19,154	--
Puget Sound Power & Light Co							
Watthour Meter Count	840,601	36,470	8,882	868,189	18,851	849,178	160
Line Transformer Count	243,553	8,249	3,846	247,956	6,020	241,471	465
Line Transformer Capacity (Mva)	10,285	332	125	10,492	405	10,071	16
PSI Energy Inc							
Watthour Meter Count	645,543	32,892	21,201	657,234	36,786	619,890	558
Line Transformer Count	184,172	4,429	3,744	184,857	5,758	178,518	581
Line Transformer Capacity (Mva)	7,860	221	156	7,925	507	7,395	23
Rochester Gas & Electric Corp							
Watthour Meter Count	352,767	1,948	--	354,715	23,044	331,358	313
Line Transformer Count	73,407	2,141	1,815	73,733	8,550	--	65,183
Line Transformer Capacity (Mva)	2,897	66	75	2,888	713	--	2,175
Rockland Electric Co							
Watthour Meter Count	64,961	1,289	701	65,549	2,344	63,205	--
Line Transformer Count	20,680	713	302	21,091	3,374	17,717	--
Line Transformer Capacity (Mva)	1,033	44	15	1,062	203	859	--
San Diego Gas & Electric Co							
Watthour Meter Count	1,169,502	20,408	11,927	1,177,983	60,941	1,115,483	1,549
Line Transformer Count	160,527	4,380	3,340	161,567	4,114	157,453	--
Line Transformer Capacity (Mva)	9,702	304	177	9,829	420	9,409	--
Savannah Electric & Power Co							
Watthour Meter Count	123,767	3,966	3,301	124,432	9,889	114,512	31
Line Transformer Count	34,376	1,216	1,884	33,708	932	32,776	--
Sierra Pacific Power Co							
Watthour Meter Count	267,952	8,624	4,021	272,555	7,866	264,509	180
Line Transformer Count	58,944	1,978	1,253	59,669	5,428	--	54,241
Line Transformer Capacity (Mva)	3,412	155	140	3,427	489	--	2,938
South Beloit Water Gas & Elec Co							
Watthour Meter Count	6,314	221	--	6,535	--	6,535	--
Line Transformer Count	1,977	98	13	2,062	--	2,062	--
Line Transformer Capacity (Mva)	100	5	2	103	--	103	--
South Carolina Electric & Gas Co							
Watthour Meter Count	488,000	11,298	5,560	493,738	35,022	458,215	501
Line Transformer Count	192,595	5,155	4,684	193,066	4,498	187,162	1,406
Line Transformer Capacity (Mva)	7,925	259	193	7,991	522	7,413	56
Southern California Edison Co							
Watthour Meter Count	4,224,824	89,811	43,936	4,270,699	130,192	4,140,291	216
Line Transformer Count	647,706	17,718	13,226	652,198	10,948	641,250	--
Southern Indiana Gas & Elec Co							
Watthour Meter Count	131,088	3,557	2,844	131,801	5,449	126,296	56
Line Transformer Count	45,967	1,091	622	46,436	2,022	44,414	--
Line Transformer Capacity (Mva)	1,851	37	18	1,870	138	1,732	--
Southwestern Electric Power Co							
Watthour Meter Count	391,681	12,687	9,530	394,838	9,596	385,012	230
Line Transformer Count	155,299	4,052	1,512	157,839	1,728	156,111	--
Line Transformer Capacity (Mva)	6,362	212	52	6,522	168	6,354	--

See notes and footnotes at end of table.

Table 44. Watthour Meter and Line Transformer Statistics of Investor-Owned Utilities, 1992
(Count and Megavoltampere) (Continued)

Distribution Equipment	Number at Beginning of Year	Additions During Year	Reductions During Year	Number at End of Year	In Stock, Locked, and Inactive ¹	In Customers Use	In Company Use
Southwestern Electric Serv Co							
Watthour Meter Count	40,532	1,011	1,012	40,991	1,291	39,585	115
Line Transformer Count	24,694	317	326	24,685	1,324	23,305	56
Line Transformer Capacity (MVA)	602	19	10	611	58	552	1
Southwestern Public Service Co							
Watthour Meter Count	360,206	6,525	6,757	359,974	14,730	345,000	244
Line Transformer Count	122,948	2,872	2,392	123,428	—	122,318	1,110
Line Transformer Capacity (MVA)	4,335	128	71	4,392	—	4,360	32
St Joseph Light & Power Co							
Watthour Meter Count	72,443	196	—	72,639	13,211	59,207	221
Line Transformer Count	21,025	710	740	20,995	1,505	19,490	—
Line Transformer Capacity (MVA)	877	34	17	894	133	761	—
Superior Water Light & Power Co							
Watthour Meter Count	14,133	508	390	14,251	1,007	13,219	25
Line Transformer Count	1,981	60	58	1,983	154	1,797	32
Line Transformer Capacity (MVA)	81	4	2	83	9	73	1
Tampa Electric Co							
Watthour Meter Count	513,803	9,565	6,589	516,779	41,915	474,741	123
Line Transformer Count	119,014	5,903	3,469	121,448	1,420	119,561	467
Line Transformer Capacity (MVA)	6,355	288	147	6,496	140	6,319	37
Texas Utilities Electric Co							
Watthour Meter Count	2,283,429	47,159	25,753	2,304,835	98,916	—	2,205,919
Line Transformer Count	666,542	19,335	9,434	676,443	22,833	—	653,610
Line Transformer Capacity (MVA)	34,827	1,201	467	35,561	2,294	—	33,267
Texas-New Mexico Power Co							
Watthour Meter Count	225,908	7,696	6,799	226,805	10,343	216,462	—
Line Transformer Count	98,457	1,623	2,293	97,787	6,787	91,000	—
Line Transformer Capacity (MVA)	3,115	72	56	3,131	354	2,777	—
Toledo Edison Co							
Watthour Meter Count	320,823	6,434	11,126	316,131	11,654	304,477	—
Line Transformer Count	71,797	1,466	—	73,263	2,487	70,776	—
Line Transformer Capacity (MVA)	3,526	105	—	3,631	202	3,429	—
Tucson Electric Power Co							
Watthour Meter Count	295,352	6,938	2,220	300,070	2,019	298,051	—
Line Transformer Count	60,175	982	153	61,004	3,115	57,889	—
Line Transformer Capacity (MVA)	3,613	88	9	3,692	267	3,425	—
Union Electric Co							
Watthour Meter Count	1,259,102	61,733	43,356	1,277,479	25,442	1,251,970	67
Line Transformer Count	274,439	16,976	9,810	281,605	7,260	274,025	320
Line Transformer Capacity (MVA)	15,608	704	538	15,774	731	15,007	36
Union Light Heat & Power Co							
Watthour Meter Count	119,288	6,237	4,227	121,298	7,429	—	113,869
Line Transformer Count	26,354	1,284	925	26,713	1,473	—	25,240
Line Transformer Capacity (MVA)	1,398	84	41	1,441	114	—	1,327
United Illuminating Co							
Watthour Meter Count	310,173	26,537	11,673	325,037	22,727	301,970	340
Line Transformer Count	56,348	1,370	1,144	56,574	3,218	53,187	169
Line Transformer Capacity (MVA)	3,430	127	64	3,493	441	3,041	11
Unitil Power Corp							
Watthour Meter Count	2	—	—	2	—	—	2
Upper Peninsula Power Co							
Watthour Meter Count	61,882	1,593	1,007	62,468	2,977	59,380	111
Line Transformer Count	18,680	468	272	18,876	860	17,984	32
Line Transformer Capacity (MVA)	429	15	5	439	39	399	1
Utilicorp United Inc							
Watthour Meter Count	367,916	9,586	7,852	369,540	40,006	328,728	806
Line Transformer Count	126,472	7,294	2,211	131,495	20,452	108,701	2,342
Line Transformer Capacity (MVA)	4,653	386	117	4,922	907	3,588	427

See notes and footnotes at end of table.

Table 44. Watthour Meter and Line Transformer Statistics of Investor-Owned Utilities, 1992
(Count and Megavoltampere) (Continued)

Distribution Equipment	Number at Beginning of Year	Additions During Year	Reductions During Year	Number at End of Year	In Stock, Locked, and Inactive ¹	In Customers Use	In Company Use
Virginia Electric & Power Co							
Watthour Meter Count	1,872,327	81,885	56,179	1,898,033	60,127	1,837,551	355
Line Transformer Count	519,989	10,200	7,054	523,135	12,828	508,923	1,384
Line Transformer Capacity (Mva)	27,183	645	276	27,552	1,259	26,050	243
Washington Water Power Co							
Watthour Meter Count	275,176	8,336	4	283,508	5,986	277,522	--
Line Transformer Count	88,790	2,872	1,240	90,422	2,417	88,005	--
Line Transformer Capacity (Mva)	3,371	122	49	3,444	171	3,273	--
West Penn Power Co							
Watthour Meter Count	679,926	29,335	23,620	685,641	15,712	--	669,929
Line Transformer Count	286,261	12,357	4,218	294,400	8,591	64	285,745
Line Transformer Capacity (Mva)	6,219	297	67	6,449	308	19	6,122
West Texas Utilities Co							
Watthour Meter Count	189,441	4,931	6,747	187,625	8,242	178,873	510
Line Transformer Count	79,595	1,896	1,020	80,471	2,376	78,095	--
Line Transformer Capacity (Mva)	2,438	63	32	2,469	177	2,292	--
Western Massachusetts Elec Co							
Watthour Meter Count	211,651	7,085	7,079	211,657	4,934	206,691	32
Line Transformer Count	38,245	567	467	38,345	1,237	37,001	107
Line Transformer Capacity (Mva)	1,735	23	15	1,743	75	1,665	3
Western Resources Inc							
Watthour Meter Count	321,580	18,024	7,073	332,531	12,144	--	320,387
Line Transformer Count	138,486	2,964	3,371	138,079	7,586	128,726	1,767
Line Transformer Capacity (Mva)	4,445	123	82	4,486	397	4,030	59
Wheeling Power Co							
Watthour Meter Count	43,136	1,199	1,241	43,094	1,837	41,154	103
Line Transformer Count	11,315	459	333	11,441	318	11,077	46
Line Transformer Capacity (Mva)	434	12	6	440	32	403	5
Wisconsin Electric Power Co							
Watthour Meter Count	986,244	27,292	14,070	999,466	58,126	941,340	--
Line Transformer Count	203,794	7,076	1,734	209,136	20,918	188,218	--
Line Transformer Capacity (Mva)	10,115	372	80	10,407	1,485	8,922	--
Wisconsin Power & Light Co							
Watthour Meter Count	383,464	11,869	7,707	387,626	36,601	350,795	230
Line Transformer Count	135,149	4,774	2,429	137,494	2,838	134,656	--
Line Transformer Capacity (Mva)	4,394	197	57	4,534	274	4,260	--
Wisconsin Public Service Corp							
Watthour Meter Count	350,378	12,372	4,697	358,053	10,252	347,662	139
Line Transformer Count	138,749	4,688	2,093	141,344	8,065	132,975	304
Line Transformer Capacity (Mva)	4,450	191	86	4,555	639	3,881	35

¹ In stock, locked meters on customer's premises and inactive transformers on system.

-- Not Applicable

Notes: *Totals may not equal sum of components because of independent rounding. *Mva means megavoltampere.

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

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 requirements 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.

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 Electrification Administration (REA) requires its borrowers (usually cooperatives) to file similar information, while EIA requires similar information from public utilities. Both the REA and the EIA request the reporting of information based on the Uniform System of Accounts.

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 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.

FERC Accounting Release Number AR-14

The Office of the Chief Accountant released an interpretation of Account 555 in Accounting Release Number AR-14 effective January 1, 1991. The format was question and answer. AR-14 is as follows:

Question: The text of Account 555, Purchased Power, states in part: "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." Does this mean that Account 555 is to include all settlement amounts arising from power pool transactions regardless of how compensation for energy delivered to the power pool or capacity made available to the power pool is determined and all settlement amounts for energy provided under nonpool contractual agreements in which the agreements contain provisions pertaining to both the receipt and delivery of energy?

Answer: No. The above requirement must be read in conjunction with the sentence in the accounting text that immediately follows the above quote which states: "Distinct purchases and sales shall not be recorded as exchanges and net amounts only recorded merely because debit and credit amounts are combined in the voucher settlement." It is the intent of the text of Account 555 to limit the use of the account to the cost of energy and capacity purchased and net settlements

arising from barter transactions. Gross amounts for compensation for energy delivered or capacity made available to a power pool or delivered pursuant to other agreements where settlements are determined through application of specific rate schedules, "split-the-saving" calculations, simulations, or other non-barter means must be recorded in the appropriate operating revenue account and not netted with purchased power expenses properly recorded in Account 555.

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, 1992

Utility	State ¹	NERC Region ²	Survey Form ³
Ajo Improvement Company ^a	Arizona	WSCC	FERC FORM 1-F
Alabama Power Company	Alabama	SERC	FERC FORM 1
Alaska Electric Light & Power Co ^b	Alaska	ASCC	FERC FORM 1
Alcoa Generating Corporation	Indiana	ECAR	FERC FORM 1
Allegheny Generating Company ^a	Maryland	ECAR	FERC FORM 1
Appalachian Power Company	Virginia	ECAR	FERC FORM 1
Arizona Public Service Company	Arizona	WSCC	FERC FORM 1
Arkansas Power & Light Company	Arkansas	SPP	FERC FORM 1
Atlantic City Electric Company	New Jersey	MAAC	FERC FORM 1
AEP Generating Company	Ohio	ECAR	FERC FORM 1
Baltimore Gas & Electric Co	Maryland	MAAC	FERC FORM 1
Bangor Hydro-Electric Company	Maine	NPCC	FERC FORM 1
Black Hills Corporation	South Dakota	WSCC	FERC FORM 1
Blackstone Valley Electric Co	Rhode Island	NPCC	FERC FORM 1
Boston Edison Company	Massachusetts	NPCC	FERC FORM 1
Cambridge Electric Light Co	Massachusetts	NPCC	FERC FORM 1
Canal Electric Company	Massachusetts	NPCC	FERC FORM 1
Carolina Power & Light Company	North Carolina	SERC	FERC FORM 1
Cascade Power Company	North Carolina	SERC	FERC FORM 1
Catalyst Old River Hydro	Louisiana	SPP	FERC FORM 1
Central Hudson Gas & Elec Corp	New York	NPCC	FERC FORM 1
Central Illinois Light Company	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 Company	Maine	NPCC	FERC FORM 1
Central Power & Light Company	Texas	ERCOT	FERC FORM 1
Central Vermont Pub Serv Corp	Vermont	NPCC	FERC FORM 1
Century Power Corp	Arizona	WSCC	FERC FORM 1
Cheyenne Light Fuel & Power Co ^b	Wyoming	WSCC	FERC FORM 1-F
Cincinnati Gas & Electric Co	Ohio	ECAR	FERC FORM 1
Citizens Utilities Company	Hawaii	HI	FERC FORM 1
Citizens Utilities Company	Vermont	NPCC	FERC FORM 1
Citizens Utilities Company	Idaho	WSCC	FERC FORM 1
Citizens Utilities Company	Arizona	WSCC	FERC FORM 1
Citizens' Electric Company ^a	Pennsylvania	MAAC	FERC FORM 1
Cleveland Electric Illum Co	Ohio	ECAR	FERC FORM 1
Columbus Southern Power Co	Ohio	ECAR	FERC FORM 1
Commonwealth Edison of Indiana	Indiana	MAIN	FERC FORM 1
Commonwealth Edison Company	Illinois	MAIN	FERC FORM 1
Commonwealth Electric Company	Massachusetts	NPCC	FERC FORM 1
Concord Electric Company ^a	New Hampshire	NPCC	FERC FORM 1
Connecticut Light & Power Co	Connecticut	NPCC	FERC FORM 1
Connecticut Valley Elec Co Inc ^a	New Hampshire	NPCC	FERC FORM 1
Connecticut Yankee Atom Pwr Co	Connecticut	NPCC	FERC FORM 1
Conowingo Power Company ^a	Maryland	MAAC	FERC FORM 1-F
Consolidated Edison Co-NY Inc	New York	NPCC	FERC FORM 1
Consolidated Water Power Co	Wisconsin	MAIN	FERC FORM 1
Consumers Power Company	Michigan	ECAR	FERC FORM 1
Dayton Power & Light Company	Ohio	ECAR	FERC FORM 1
Delmarva Power & Light Company	Delaware	MAAC	FERC FORM 1

See footnotes at end of table.

Table B1. Investor-Owned Utilities, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Detroit Edison Company	Michigan	ECAR	FERC FORM 1
Duke Power Company	North Carolina	SERC	FERC FORM 1
Duquesne Light Company	Pennsylvania	ECAR	FERC FORM 1
Eastern Edison Company	Massachusetts	NPCC	FERC FORM 1
Edison Sault Electric Company	Michigan	ECAR	FERC FORM 1
El Paso Electric Company	Texas	WSCC	FERC FORM 1
Electric Energy Inc	Illinois	MAIN	FERC FORM 1
Empire District Electric Co	Missouri	SPP	FERC FORM 1
Entergy Power Inc	Arkansas	SPP	FERC FORM 1
Exeter & Hampton Electric Co ⁴	New Hampshire	NPCC	FERC FORM 1
Fitchburg Gas & Elec Light Co	Massachusetts	NPCC	FERC FORM 1
Florida Power & Light Company	Florida	SERC	FERC FORM 1
Florida Power Corporation	Florida	SERC	FERC FORM 1
Georgia Power Company	Georgia	SERC	FERC FORM 1
Granite State Electric Company ⁵	New Hampshire	NPCC	FERC FORM 1
Great Bay Power Corp	Massachusetts	NPCC	FERC FORM 1
Green Mountain Power Corp	Vermont	NPCC	FERC FORM 1
Gulf Power Company	Florida	SERC	FERC FORM 1
Gulf States Utilities Company	Texas	SPP	FERC FORM 1
Hawaiian Electric Company Inc	Hawaii	HI	FERC FORM 1
Holyoke Power & Electric Co	Massachusetts	NPCC	FERC FORM 1
Holyoke Water Power Company	Massachusetts	NPCC	FERC FORM 1
Houston Lighting & Power Co	Texas	ERCOT	FERC FORM 1
Idaho Power Company	Idaho	WSCC	FERC FORM 1
Illinois Power Company	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 Company	Iowa	MAPP	FERC FORM 1
Iowa Electric Light & Power Co	Iowa	MAPP	FERC FORM 1
Iowa Southern Utilities Co	Iowa	MAPP	FERC FORM 1
Iowa-Illinois Gas&Electric Co	Iowa	MAPP	FERC FORM 1
Jersey Central Power&Light Co	New Jersey	MAAC	FERC FORM 1
Kanawha Valley Power Company ⁶	West Virginia	ECAR	FERC FORM 1
Kansas City Power & Light Co	Missouri	SPP	FERC FORM 1
Kansas Gas & Electric Company	Kansas	SPP	FERC FORM 1
Kentucky Power Company	Kentucky	ECAR	FERC FORM 1
Kentucky Utilities Company	Kentucky	ECAR	FERC FORM 1
Kingsport Power Company	Tennessee	ECAR	FERC FORM 1
Lockhart Power Company	South Carolina	SERC	FERC FORM 1
Long Island Lighting Company	New York	NPCC	FERC FORM 1
Long Sault Inc	New York	NPCC	FERC FORM 1
Louisiana Power & Light Co	Louisiana	SPP	FERC FORM 1
Louisville Gas & Electric Co	Kentucky	ECAR	FERC FORM 1
Madison Gas & Electric Company	Wisconsin	MAIN	FERC FORM 1
Maine Electric Power Co Inc	Maine	NPCC	FERC FORM 1
Maine Public Service Company	Maine	NPCC	FERC FORM 1
Maine Yankee Atomic Power Co	Maine	NPCC	FERC FORM 1
Massachusetts Electric Company	Massachusetts	NPCC	FERC FORM 1
Maul Electric Company Ltd	Hawaii	HI	FERC FORM 1
Metropolitan Edison Company	Pennsylvania	MAAC	FERC FORM 1
Midwest Power Systems Inc	Iowa	MAPP	FERC FORM 1
Minnesota Power & Light Co	Minnesota	MAPP	FERC FORM 1
Mississippi Power & Light Co	Mississippi	SPP	FERC FORM 1
Mississippi Power Company	Mississippi	SERC	FERC FORM 1
Monongahela Power Company	West Virginia	ECAR	FERC FORM 1
Montana Power Company	Montana	WSCC	FERC FORM 1
Montaup Electric Company	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 Company	Rhode Island	NPCC	FERC FORM 1
Nevada Power Company	Nevada	WSCC	FERC FORM 1
New England Elect Trans Corp	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 Company	Massachusetts	NPCC	FERC FORM 1
New Orleans Public Service Inc	Louisiana	SPP	FERC FORM 1
New York State Elec & Gas Corp	New York	NPCC	FERC FORM 1
Newport Electric Corporation	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
North Central Power Co Inc	Wisconsin	MAPP	FERC FORM 1
Northern Indiana Pub Serv Co	Indiana	ECAR	FERC FORM 1
Northern States Power Company	Wisconsin	MAPP	FERC FORM 1

See footnotes at end of table.

Table B1. Investor-Owned Utilities, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Northern States Power Company	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 #2	Rhode Island	NPCC	FERC FORM 1
Ocean State Power Company	Rhode Island	NPCC	FERC FORM 1
Ohio Edison Company	Ohio	ECAR	FERC FORM 1
Ohio Power Company	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 Company	Minnesota	MAPP	FERC FORM 1
Pacific Gas & Electric Company	California	WSCC	FERC FORM 1
PacificCorp	Oregon	WSCC	FERC FORM 1
Pennsylvania Electric Company	Pennsylvania	MAAC	FERC FORM 1
Pennsylvania Power & Light Co	Pennsylvania	MAAC	FERC FORM 1
Pennsylvania Power Company	Pennsylvania	ECAR	FERC FORM 1
Philadelphia Electric Company	Pennsylvania	MAAC	FERC FORM 1
Pike County Light & Power Co ⁴	Pennsylvania	MAAC	FERC FORM 1-F
Pioneer Power & Light Company	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 Company	District of Col.	MAAC	FERC FORM 1
Public Service Co of Colorado	Colorado	WSCC	FERC FORM 1
Public Service Co of Oklahoma	Oklahoma	SPP	FERC FORM 1
Public Service Company of NH	New Hampshire	NPCC	FERC FORM 1
Public Service Company of NM	New Mexico	WSCC	FERC FORM 1
Public Service Electric&Gas Co	New Jersey	MAAC	FERC FORM 1
Puget Sound Power & Light Co	Washington	WSCC	FERC FORM 1
PSI Energy Inc	Indiana	ECAR	FERC FORM 1
Rochester Gas & Electric Corp	New York	NPCC	FERC FORM 1
Rockland Electric Company	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 Company	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 Generatg Co Inc	South Carolina	SERC	FERC FORM 1
Southern California Edison Co	California	WSCC	FERC FORM 1
Southern Electric Generatg Co	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 Company	Pennsylvania	MAAC	FERC FORM 1
System Energy Resources Inc	Mississippi	SERC	FERC FORM 1
Tampa Electric Company	Florida	SERC	FERC FORM 1
Tapoco Inc	Tennessee	SERC	FERC FORM 1
Texas Utilities Electric Co	Texas	ERCOT	FERC FORM 1
Texas-New Mexico Power Company	New Mexico	WSCC	FERC FORM 1
Texas-New Mexico Power Company	Texas	ERCOT	FERC FORM 1
Toledo Edison Company	Ohio	ECAR	FERC FORM 1
Tucson Electric Power Company	Arizona	WSCC	FERC FORM 1
Union Electric Company	Missouri	MAIN	FERC FORM 1
Union Light, Heat & Power Co	Kentucky	ECAR	FERC FORM 1
United Illuminating Company	Connecticut	NPCC	FERC FORM 1
Upper Peninsula Power Company	Michigan	MAIN	FERC FORM 1
UtiliCorp United Inc	Missouri	SPP	FERC FORM 1
UtiliCorp United Inc	Colorado	WSCC	FERC FORM 1
UtiliCorp United Inc	West Virginia	ECAR	FERC FORM 1
UGI Corporation-Luzerne El Div	Pennsylvania	MAAC	FERC FORM 1
UNITIL Power Corp	New Hampshire	NPCC	FERC FORM 1
Vermont Electric Power Co Inc	Vermont	NPCC	FERC FORM 1
Vermont Electric Trans Co Inc	Vermont	NPCC	FERC FORM 1
Vermont Marble Pwr Div of OMYA ⁴	Vermont	NPCC	FERC FORM 1-F
Vermont Yankee Nucl Pwr Corp	Vermont	NPCC	FERC FORM 1
Virginia Electric & Power Co	Virginia	SERC	FERC FORM 1
Washington Water Power Company	Washington	WSCC	FERC FORM 1
West Penn Power Company	Pennsylvania	ECAR	FERC FORM 1
West Texas Utilities Company	Texas	ERCOT	FERC FORM 1
Western Massachusetts Elec Co	Massachusetts	NPCC	FERC FORM 1
Western Resources Inc	Kansas	SPP	FERC FORM 1
Wheeling Power Company	West Virginia	ECAR	FERC FORM 1

See footnotes at end of table.

Table B1. Investor-Owned Utilities, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
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 Company	Wisconsin	MAIN	FERC FORM 1
Wolverine Hydroelectric Corp	Michigan	ECAR	FERC FORM 1
Yadkin Inc	North Carolina	SERC	FERC FORM 1
Yankee Atomic Electric Company	Massachusetts	NPCC	FERC FORM 1
York Haven Power Company	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

⁴ No bulk power transactions in 1992.

⁵ A voluntary filing of the FERC Form 1 is done by this electric utility.

⁶ This utility completed pages 310/311 or 326/327 from FERC Form 1.

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, 1992

Utility	State ¹	NERC Region ²	Survey Form ³
Alaska Power Administration	Alaska	ASCC	EIA-412
Bonneville Power Admin	Oregon	WSCC	EIA-412
International Water & Boundary Commission	Texas	ERCOT	None ⁴
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 ⁵	Montana	WSCC	EIA-412
San Carlos Irrigation Project ⁶	Arizona	WSCC	EIA-412
U.S. Bureau of Reclamation	District of Columbia	WSCC	None ⁴
Western Area Power Admin	Colorado	WSCC	EIA-412

¹ The State in which the administrative 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

⁴ Data reported by Western Area Power Administration.

⁵ 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.

⁶ 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, 1992

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	REA-7
Butler County Rural P P D	Nebraska	MAPP	REA-7
California Dept Wtr Resources	California	WSCC	EIA-412
Central Lincoln Peoples Util Ut	Oregon	WSCC	EIA-412
Central Nebraska Pub P&I Dist	Nebraska	MAPP	EIA-412
Chimney Rock Public Power Dist	Nebraska	MAPP	REA-7
Ciatskanie Peoples Util Dist	Oregon	WSCC	EIA-412
Colorado River Commission	Nevada	WSCC	EIA-412
Columbia River Peoples Ut Dist	Oregon	WSCC	EIA-412
Connecticut Mun Elec Engy Coop	Connecticut	NPCC	EIA-412
Cornhusker Public Power Dist	Nebraska	MAPP	EIA-412
Crisp County Power Commission	Georgia	SERC	EIA-412
Dawson County Public Pwr Dist	Nebraska	MAPP	EIA-412
Electrical Dist No2 Pinal Cnty	Arizona	WSCC	EIA-412
Emerald Peoples 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
KBR Rural Public Power Dist	Nebraska	MAPP	REA-7
Lincoln County Power Dist No 1	Nevada	WSCC	REA-7
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 Wholes El Co	Massachusetts	NPCC	EIA-412
Michigan Public Power Agency	Michigan	ECAR	EIA-412
Michigan South Central Pwr Agcy	Michigan	ECAR	EIA-412
Missouri Basin Mun Power Agny	South Dakota	MAPP	EIA-412
Modesto Irrigation District	California	WSCC	EIA-412
Municipal Electric Auth of GA	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
New York Power Authority	New York	NPCC	EIA-412
Norris Public Power District	Nebraska	MAPP	EIA-412
North Carolina Eastern M P A	North Carolina	SERC	EIA-412
North Carolina Mun Power Agny	North Carolina	SERC	EIA-412
North Central Public Pwr Dist	Nebraska	MAPP	REA-7
Northeast Nebraska Rural P P D	Nebraska	MAPP	REA-7
Northern California Power Agny	California	WSCC	EIA-412
Northern Municipal Power Agency	North Dakota	MAPP	EIA-412
Northern Wasco Cnty Peoples UD	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	REA-7
Papago Tribal Utility Auth	Arizona	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	REA-7
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	REA-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 Kittitas County	Washington	WSCC	REA-7
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	REA-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

See footnotes at end of table.

Table B3. State and Other Government Utilities, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
PUD No 3 of Mason County	Washington	WSCC	EIA-412
Sabine River Authority	Texas	SPP	EIA-412
Sacramento Municipal Util Dist	California	WSCC	EIA-412
Salt River Project	Arizona	WSCC	EIA-412
Sam Rayburn Municipal Pwr Agny	Texas	SPP	EIA-412
Seward County Rrl Pub Pwr Dist	Nebraska	MAPP	REA-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	REA-7
Tillamook Peoples Utility Dist	Oregon	WSCC	EIA-412
Twin Valleys Public Power Dist	Nebraska	MAPP	REA-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	REA-7
Wellton-Mohawk Irr&Drain Dist	Arizona	WSCC	REA-7
Wheat Belt Public Power Dist	Nebraska	WSCC	REA-7
Wisconsin Public Power Inc Sys	Wisconsin	MAIN	EIA-412
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 Electrification Administration, REA Form 7, "Financial and Statistical Report," REA Form 12a through 12l, "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, 1992

Utility	State ¹	NERC Region ²	Survey Form ³
Aberdeen City of	Mississippi	SERC	EIA-412
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 City of	Alabama	SERC	EIA-412
Alcoa City of 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 Mun Light and Power	Alaska	ASCC	EIA-412
Andalusia City of	Alabama	SERC	EIA-412
Anderson Mun Light and Water	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 Utilities Board	Tennessee	SERC	EIA-412
Auburn City of	Indiana	ECAR	EIA-412
Austin City of	Texas	ERCOT	EIA-412
Austin Utilities	Minnesota	MAPP	EIA-412
Azusa City of	California	WSCC	EIA-412
Bartow City of	Florida	SERC	EIA-412
Batavia City of Electric Util	Illinois	MAIN	EIA-412
Bay City Electric Light&Power	Michigan	ECAR	EIA-412
Bedford City of	Virginia	ECAR	EIA-412
Benton County Bd of Pub Util	Tennessee	SERC	EIA-412
Benton Utilities	Arkansas	SPP	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 Light & Power	Utah	WSCC	EIA-412
Bowling Green City of	Ohio	ECAR	EIA-412
Bowling Green Municipal Utile	Kentucky	SERC	EIA-412
Brainerd Water & Light Dept	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 Utility Board	Virginia	SERC	EIA-412
Brookings City of	South Dakota	MAPP	EIA-412
Brownsville City of	Texas	ERCOT	EIA-412
Brownsville City of	Tennessee	SERC	EIA-412
Bryan City of	Ohio	ECAR	EIA-412
Bryan City of	Texas	ERCOT	EIA-412
Burbank Public Service Dept	California	WSCC	EIA-412
Burlington City of	Vermont	NPCC	EIA-412
Calhoun Light Department	Georgia	SERC	EIA-412
Camden City of	South Carolina	SERC	EIA-412
Carroll County	Tennessee	SERC	EIA-412
Cartersville Electric System	Georgia	SERC	EIA-412
Carthage City of	Missouri	SPP	EIA-412
Cedar Falls Mun Electric Util	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 Mun Electric Utility	Kansas	SPP	EIA-412
Chattanooga City of	Tennessee	SERC	EIA-412
Chicopee City of	Massachusetts	NPCC	EIA-412
Claremore City of	Oklahoma	SPP	EIA-412
Clarksdale Water & Light Dept	Mississippi	SPP	EIA-412
Clarksville Dept of Electric	Tennessee	SERC	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 Utilities	Colorado	WSCC	EIA-412
Colton Electric Utility Dept	California	WSCC	EIA-412
Columbia City of	Tennessee	SERC	EIA-412
Columbia City of Water & Light	Missouri	MAIN	EIA-412
Columbus City of	Mississippi	SERC	EIA-412

See footnotes at end of table.

Table B4. Municipal Utilities, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Columbus Dept of Pub Service	Ohio	ECAR	EIA-412
Concord Board of Lgt&Wtr Comm	North Carolina	SERC	EIA-412
Concord City of	Massachusetts	NPCC	EIA-412
Conway Corporation	Arkansas	SPP	EIA-412
Cookeville City of	Tennessee	SERC	EIA-412
Covington City of	Georgia	SERC	EIA-412
Covington Electric System	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 Electric Utility	Massachusetts	NPCC	EIA-412
Danville City of Electric Div	Virginia	ECAR	EIA-412
Dayton City of	Tennessee	SERC	EIA-412
Decatur Utilities	Alabama	SERC	EIA-412
Denton City of	Texas	ERCOT	EIA-412
Detroit Public Lighting Dept	Michigan	ECAR	EIA-412
Dickson Electric Department	Tennessee	SERC	EIA-412
Dothan Electrical Department	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 Electric System	Tennessee	SERC	EIA-412
Easley Combined Utility System	South Carolina	SERC	EIA-412
East Point City of	Georgia	SERC	EIA-412
Easton Utilities Commission	Maryland	MAAC	EIA-412
Edmond Electric Department	Oklahoma	SPP	EIA-412
Elizabeth City City of	North Carolina	SERC	EIA-412
Elizabethton Electric System	Tennessee	SERC	EIA-412
Ellensburg City of	Washington	WSCC	EIA-412
Erwin City of	Tennessee	SERC	EIA-412
Etowah City 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 Electric System	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 Elec Lgt & Pwr Sys	Texas	ERCOT	EIA-412
Florida Municipal Power Agency	Florida	SERC	EIA-412
Forest Grove City of	Oregon	WSCC	EIA-412
Fort Collins Lgt & Pwr Utility	Colorado	WSCC	EIA-412
Fort Payne Improvement Auth	Alabama	SERC	EIA-412
Fort Pierce Utilities Auth	Florida	SERC	EIA-412
Frankfort City of	Kentucky	ECAR	EIA-412
Frankfort Light & Power	Indiana	ECAR	EIA-412
Franklin City of	Kentucky	SERC	EIA-412
Freeport Village of Inc	New York	NPCC	EIA-412
Fremont City of	Nebraska	MAPP	EIA-412
Gaffney Board of Public Works	South Carolina	SERC	EIA-412
Gainesville City of	Florida	SERC	EIA-412
Gallatin Dept of Electricity	Tennessee	SERC	EIA-412
Gallup Electric Utility	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 Electric Department	Illinois	MAIN	EIA-412
Georgetown City of	Texas	ERCOT	EIA-412
Gillette City of	Wyoming	WSCC	EIA-412
Glasgow City of	Kentucky	SERC	EIA-412
Glendale City of	California	WSCC	EIA-412
Grand Haven City of	Michigan	ECAR	EIA-412
Grand Island Electric Dept	Nebraska	MAPP	EIA-412
Greeneville City of	Tennessee	SERC	EIA-412
Greenfield Municipal Utility	Indiana	ECAR	EIA-412
Greenville Electric Util Sys	Texas	ERCOT	EIA-412
Greenville Utilities Comm	North Carolina	SERC	EIA-412
Greenwood City of	South Carolina	SERC	EIA-412
Greenwood Utilities Commission	Mississippi	SPP	EIA-412
Greer Commission of Public Wks	South Carolina	SERC	EIA-412
Griffin Electric Department	Georgia	SERC	EIA-412
Groton City of Dept of Utils	Connecticut	NPCC	EIA-412

See footnotes at end of table.

Table B4. Municipal Utilities, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Guntersville Electric Board	Alabama	SERC	EIA-412
Hagerstown City of	Maryland	ECAR	EIA-412
Hamilton Dept of Public Utilis	Ohio	ECAR	EIA-412
Hannibal Board of Public Works	Missouri	MAIN	EIA-412
Harriman City of	Tennessee	SERC	EIA-412
Harrisonburg City of	Virginia	SERC	EIA-412
Hastings Utilities	Nebraska	MAPP	EIA-412
Henderson City Utility Commiss	Kentucky	ECAR	EIA-412
High Point Town of	North Carolina	SERC	EIA-412
Hilledale Board of Public Wks	Michigan	ECAR	EIA-412
Hingham Municipal Lighting Pla	Massachusetts	NPCC	EIA-412
Holland City Board of Pub Wks	Michigan	ECAR	EIA-412
Holly Springs Electric Dept	Mississippi	SERC	EIA-412
Holyoke Gas and Electric Dept	Massachusetts	NPCC	EIA-412
Homestead City of	Florida	SERC	EIA-412
Hope Water & Light Plant	Arkansas	SPP	EIA-412
Hopkinsville City of	Kentucky	SERC	EIA-412
Hudson Light & Power Dept	Massachusetts	NPCC	EIA-412
Humboldt Electric Department	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	California	WSCC	EIA-412
Jackson Utility Division	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 Municipal Electric Util	Indiana	ECAR	EIA-412
Jefferson Water & Elec Dept	Wisconsin	MAPP	EIA-412
Johnson City Power Board	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 City of	Texas	ERCOT	EIA-412
Ketchikan Public Utilities	Alaska	ASCC	EIA-412
Key West Utility Board 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 City of	Tennessee	SERC	EIA-412
La Grange City of	Georgia	SERC	EIA-412
Lafayette City of	Louisiana	SPP	EIA-412
Lafayette Public Power Auth	Louisiana	SPP	EIA-412
Lake Worth City of	Florida	SERC	EIA-412
Lakeland City of	Florida	SERC	EIA-412
Lansing Board of Water & Light	Michigan	ECAR	EIA-412
Lawrenceburg City of	Tennessee	SERC	EIA-412
Lawrenceville Electric Dept	Georgia	SERC	EIA-412
LaFollette Electric Dept	Tennessee	SERC	EIA-412
Lebanon City of	Tennessee	SERC	EIA-412
Lebanon City of	Missouri	SPP	EIA-412
Leesburg Electric Department	Florida	SERC	EIA-412
Lenoir City City of	Tennessee	SERC	EIA-412
Lewisburg Electric System	Tennessee	SERC	EIA-412
Lexington City of	North Carolina	SERC	EIA-412
Lexington Electric System	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 Municipal Utilities	Indiana	ECAR	EIA-412
Longmont City of	Colorado	WSCC	EIA-412
Los Alamos County of	New Mexico	WSCC	EIA-412
Los Angeles Dept of Wtr & Pwr	California	WSCC	EIA-412
Loudon Utilities Board	Tennessee	SERC	EIA-412
Louisville Electric System	Mississippi	SERC	EIA-412
Loveland Electric Division	Colorado	WSCC	EIA-412
Lubbock City of	Texas	SPP	EIA-412
Lumberton Electric Utilis Dept	North Carolina	SERC	EIA-412
Madisonville Mun Utilities	Kentucky	ECAR	EIA-412
Manassas City of	Virginia	SERC	EIA-412
Manitowoc Public Utilities	Wisconsin	MAIN	EIA-412
Mannford Town of	Oklahoma	SPP	REA-7

See footnotes at end of table.

Table B4. Municipal Utilities, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Manfield Electric Light Dept	Massachusetts	NPCC	EIA-412
Marietta Power	Georgia	SERC	EIA-412
Marquette City of	Michigan	MAIN	EIA-412
Marshall City of	Missouri	SPP	EIA-412
Marshall Municipal Utilities	Minnesota	MAPP	EIA-412
Marshfield Electric&Water Dept	Wisconsin	MAIN	EIA-412
Martinsville City of	Virginia	ECAR	EIA-412
Maryville City of Utilities	Tennessee	SERC	EIA-412
Massena Electric Department	New York	NPCC	EIA-412
Mayfield Electric & Water Sys	Kentucky	ECAR	EIA-412
McMinnville City of	Oregon	WSCC	EIA-412
McMinnville Electric System	Tennessee	SERC	EIA-412
McPherson Board of Pub Utils	Kansas	SPP	EIA-412
Memphis City of	Tennessee	SERC	EIA-412
Menasha Electric & Water Util	Wisconsin	MAIN	EIA-412
Mesa Utilities	Arizona	WSCC	EIA-412
Metropolitan Water District	California	WSCC	EIA-412
Middleborough Town of	Massachusetts	NPCC	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 Power System	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
Murphy Electric Power Board	North Carolina	SERC	EIA-412
Murray City of	Kentucky	SERC	EIA-412
Murray City Power Department	Utah	WSCC	EIA-412
Muscatine Power and Water	Iowa	MAPP	EIA-412
Muscle Shoals Electric Board	Alabama	SERC	EIA-412
Naperville City of	Illinois	MAIN	EIA-412
Nashville Electric Service	Tennessee	SERC	EIA-412
Natchitoches City of	Louisiana	SPP	EIA-412
New Albany Electric Department	Mississippi	SERC	EIA-412
New Bern City of	North Carolina	SERC	EIA-412
New Braunfels Utilities	Texas	ERCOT	EIA-412
New London Utilities	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 Elec Dept	Massachusetts	NPCC	EIA-412
North Little Rock City of	Arkansas	SPP	EIA-412
North Platte Mun Light&Power	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 Electric Department	Tennessee	SERC	REA-7
Opelika Light & Power	Alabama	SERC	EIA-412
Orangeburg City of	South Carolina	SERC	EIA-412
Orlando Utilities Commission	Florida	SERC	EIA-412
Orville City of	Ohio	ECAR	EIA-412
Osceola City of	Arkansas	SPP	EIA-412
Owatonna City of	Minnesota	MAPP	EIA-412
Owensboro Municipal Utilities	Kentucky	ECAR	EIA-412
Oxford Electric Department	Mississippi	SERC	EIA-412
Paducah Power System	Kentucky	ECAR	EIA-412
Painesville City of	Ohio	ECAR	EIA-412
Palo Alto City of	California	WSCC	EIA-412
Paragould Light & Water Comm	Arkansas	SPP	EIA-412
Paris City of	Tennessee	SERC	EIA-412
Pasadena City of	California	WSCC	EIA-412
Peabody Municipal Light Plant	Massachusetts	NPCC	EIA-412
Pella Municipal Light & Power	Iowa	MAPP	EIA-412
Peru City of Utility	Indiana	ECAR	EIA-412
Piedmont Municipal Power Agny	South Carolina	SERC	EIA-412
Pierre Municipal Electric	South Dakota	MAPP	EIA-412
Piqua Municipal Power System	Ohio	ECAR	EIA-412

See footnotes at end of table.

Table B4. Municipal Utilities, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Plattsburgh City of	New York	NPCC	EIA-412
Plymouth Utilities	Wisconsin	MAIN	EIA-412
Ponca City City of	Oklahoma	SPP	EIA-412
Poplar Bluff Light & Water	Missouri	SPP	EIA-412
Port Angeles City of	Washington	WSCC	EIA-412
Provo City Corporation	Utah	WSCC	EIA-412
Pulaski Electric System	Tennessee	SERC	EIA-412
Quincy Electric Department	Florida	SERC	EIA-412
Radford City of	Virginia	ECAR	EIA-412
Reading City of	Massachusetts	NPCC	EIA-412
Redding City of	California	WSCC	EIA-412
Reedsburg Utility Commission	Wisconsin	MAPP	EIA-412
Reedy Creek Improvement Dist	Florida	SERC	EIA-412
Richland City of	Washington	WSCC	EIA-412
Richmond Power & Light	Indiana	ECAR	EIA-412
Ripley City of	Tennessee	SERC	EIA-412
Riverside City of	California	WSCC	EIA-412
Riviera Utilities	Alabama	SERC	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 Electric Utility Sys	Tennessee	SERC	EIA-412
Rocky Mount City of	North Carolina	SERC	EIA-412
Rolla Municipal Utilities	Missouri	SPP	EIA-412
Roseville Electric Department	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 Mun Electric Dept	California	WSCC	EIA-412
Scottsboro City of	Alabama	SERC	EIA-412
Seattle City Light	Washington	WSCC	EIA-412
Sebring Utilities Commission	Florida	SERC	EIA-412
Sequin City of	Texas	ERCOT	EIA-412
Sevier County Electric System	Tennessee	SERC	EIA-412
Shawano Municipal Utilities	Wisconsin	MAIN	EIA-412
Sheboygan Falls City of	Wisconsin	MAIN	EIA-412
Sheffield City of	Alabama	SERC	EIA-412
Shelby City of	North Carolina	SERC	EIA-412
Shelbyville Power System	Tennessee	SERC	EIA-412
Shrewsbury Town of	Massachusetts	NPCC	EIA-412
Sikeston Board of Mun Utls	Missouri	SPP	EIA-412
Siloam Springs City of	Arkansas	SPP	EIA-412
Springfield City of	Tennessee	SERC	EIA-412
Springfield City of	Missouri	SPP	EIA-412
Springfield City of	Oregon	WSCC	EIA-412
Springfield Water Light&Power	Illinois	MAIN	EIA-412
St Charles City of	Illinois	MAIN	EIA-412
St Cloud City of	Florida	SERC	EIA-412
St George Dept Water & Power	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
Sweetwater Utilities Board	Tennessee	SERC	EIA-412
Sylacauga Utilities Board	Alabama	SERC	EIA-412
Tacoma Dept of Public Utls	Washington	WSCC	EIA-412
Tallahassee City of	Florida	SERC	EIA-412
Tarboro Town of	North Carolina	SERC	EIA-412
Taunton Municipal Light Plant	Massachusetts	NPCC	EIA-412
Terrebonne Parish Consol Govt	Louisiana	SPP	EIA-412
Texas Municipal Power Agency	Texas	ERCOT	EIA-412
Thomasville Water & Light Dept	Georgia	SERC	EIA-412
Traverse City City of	Michigan	ECAR	EIA-412
Troy City of	Alabama	SERC	EIA-412
Tullahoma Power System	Tennessee	SERC	EIA-412
Tupelo City of	Mississippi	SERC	EIA-412
Turlock Irrigation District	California	WSCC	EIA-412
Tuskegee City of	Alabama	SERC	EIA-412
Union City Electric System	Tennessee	SERC	EIA-412
Vernon City of	California	WSCC	EIA-412
Vero Beach City of	Florida	SERC	EIA-412

See footnotes at end of table.

Table B4. Municipal Utilities, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
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 Electric Light Dept	Ohio	ECAR	EIA-412
Washington City of	Indiana	ECAR	EIA-412
Washington City of	North Carolina	SERC	EIA-412
Watertown Municipal Utils Dept	South Dakota	MAPP	EIA-412
Weakley County Mun Elec Sys	Tennessee	SERC	EIA-412
Weatherford Municipal Util Sys	Texas	ERCOT	EIA-412
Wellesley Town of	Massachusetts	NPCC	EIA-412
West Memphis Utility Dept	Arkansas	SPP	EIA-412
West Point Electric System	Mississippi	SERC	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 Rapids W & L Comm	Wisconsin	MAPP	EIA-412
Wyandotte Municipal Serv Comm	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, 1992

Utility	State ¹	NERC Region ¹	Survey Form ¹
A & N Electric Cooperative	Virginia	MAAC	REA-7
Adams County Coop Electric Co	Iowa	MAPP	REA-7
Adams Electric Cooperative Inc	Pennsylvania	MAAC	REA-7
Adams Electrical Cooperative	Illinois	MAIN	REA-7
Adams Rural Electric Coop Inc	Ohio	ECAR	REA-7
Adams-Columbia Electric Coop	Wisconsin	MAIN	REA-7
Agrille Cooperative	Minnesota	MAPP	REA-7
Aiken Electric Cooperative Inc	South Carolina	SERC	REA-7
Alabama Electric Coop Inc	Alabama	SERC	REA-12
Alaska Electric G & T Coop Inc	Alaska	ASCC	REA-12
Alaska Village Elec Coop Inc	Alaska	ASCC	REA-7
Albemarle Electric Member Corp	North Carolina	SERC	REA-7
Alfalfa Electric Coop Inc	Oklahoma	SPP	REA-7
Alger-Defta Coop Electric Assn	Michigan	ECAR	REA-7
Allamakee-Clayton El Coop Inc	Iowa	MAPP	REA-7
Allegheny Electric Coop Inc	Pennsylvania	MAAC	REA-12
Altamaha Electric Member Corp	Georgia	SERC	REA-7
Amicalola Electric Member Corp	Georgia	SERC	REA-7
Anoka Electric Cooperative	Minnesota	MAPP	REA-7
Anza Electric Cooperative Inc	California	WSCC	REA-7
Appalachian Electric Coop	Tennessee	SERC	REA-7
Arab Electric Cooperative Inc	Alabama	SERC	REA-7
Arizona Electric Pwr Coop Inc	Arizona	WSCC	REA-12
Ark Valley Elec Coop Assn Inc	Kansas	SPP	REA-7
Arkansas Electric Coop Corp	Arkansas	SPP	REA-12
Arkansas Valley Elec Coop Corp	Arkansas	SPP	REA-7
Arrowhead Electric Coop Inc	Minnesota	MAPP	REA-7
Ashley Chicot Elec Coop Inc	Arkansas	SPP	REA-7
Associated Electric Coop Inc	Missouri	SPP	REA-12
Atchison-Holt Electric Coop	Missouri	SPP	REA-7
B-K Electric Cooperative Inc	Texas	ERCOT	REA-7
Bailey County Elec Coop Assn	Texas	SPP	REA-7
Baker Electric Coop Inc	North Dakota	MAPP	REA-7
Baldwin County El Member Corp	Alabama	SERC	REA-7
Barron Electric Cooperative	Wisconsin	MAPP	REA-7
Barry Electric Cooperative	Missouri	MAIN	REA-7
Bartholomew County Rural E M C	Indiana	ECAR	REA-7
Bartlett Electric Coop Inc	Texas	ERCOT	REA-7
Barton County Elec Coop Inc	Missouri	SPP	REA-7
Basin Electric Power Coop	North Dakota	WSCC	REA-12
Bayfield Electric Coop Inc	Wisconsin	MAPP	REA-7
Beadle Electric Coop Inc	South Dakota	MAPP	REA-7
Beartooth Electric Coop Inc	Montana	WSCC	REA-7
Bedford Rural Elec Coop Inc	Pennsylvania	MAAC	REA-7
Belt Falls Electric Coop Inc	Texas	ERCOT	REA-7
Beltrami Electric Coop Inc	Minnesota	MAPP	REA-7
Benton County Elec Coop Assn	Iowa	MAPP	REA-7
Benton Rural Electric Assn	Washington	WSCC	REA-7
Berkeley Electric Coop Inc	South Carolina	SERC	REA-7
Big Bend Electric Coop Inc	Washington	WSCC	REA-7
Big Flat Electric Coop Inc	Montana	WSCC	REA-7
Big Horn County Elec Coop Inc	Montana	WSCC	REA-7
Big Horn Rural Electric Co	Wyoming	WSCC	REA-7
Big Rivers Electric Corp	Kentucky	ECAR	REA-12
Big Sandy Rural Elec Coop Corp	Kentucky	ECAR	REA-7
Blachly-Lane Cnty Coop El Assn	Oregon	WSCC	REA-7
Black Hills Electric Coop Inc	South Dakota	MAPP	REA-7
Black River Electric Coop	Missouri	MAIN	REA-7
Black River Electric Coop Inc	South Carolina	SERC	REA-7
Black Warrior Elec Member Corp	Alabama	SERC	REA-7
Blue Earth-Nicollet-Faribault	Minnesota	MAPP	REA-7
Blue Grass Rural El Coop Corp	Kentucky	ECAR	REA-7
Blue Ridge Elec Member Corp	North Carolina	SERC	REA-7
Blue Ridge Electric Coop Inc	South Carolina	SERC	REA-7
Blue Ridge Mountain E M C	Georgia	SERC	REA-7
Bon Homme Yankton El Assn Inc	South Dakota	MAPP	REA-7
Boone County Rural E M C	Indiana	ECAR	REA-7
Boone Electric Cooperative	Missouri	MAIN	REA-7
Bossier Rural Elec Member Corp	Louisiana	SPP	REA-7
Bowie-Cass Electric Coop Inc	Texas	SPP	REA-7
Brazos Electric Power Coop Inc	Texas	ERCOT	REA-12
Bridger Valley Elec Assn Inc	Wyoming	WSCC	REA-7
Broad River Electric Coop Inc	South Carolina	SERC	REA-7
Brown County Rural Elec Assn	Minnesota	MAPP	REA-7
Brown-Atchison E C A Inc	Kansas	SPP	REA-7
Brunswick Electric Member Corp	North Carolina	SERC	REA-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Buchanan County Rrl Elec Coop	Iowa	MAPP	REA-7
Buckeye Power Inc	Ohio	ECAR	REA-12
Buckeye Rural Elec Coop Inc	Ohio	ECAR	REA-7
Buffalo Electric Cooperative	Wisconsin	MAPP	REA-7
Burke-Divide Electric Coop Inc	North Dakota	MAPP	REA-7
Butler County Rural Elec Coop	Iowa	MAPP	REA-7
Butler Rural El Corp Assn Inc	Kansas	SPP	REA-7
Butler Rural Electric Coop Inc	Ohio	ECAR	REA-7
Butte Electric Coop Inc	South Dakota	MAPP	REA-7
BARC Electric Cooperative Inc	Virginia	SERC	REA-7
C & L Electric Coop Corp	Arkansas	SPP	REA-7
C & W Rural Elec Coop Assn Inc	Kansas	SPP	REA-7
Caddo Electric Coop Inc	Oklahoma	SPP	REA-7
Cajun Electric Power Coop Inc	Louisiana	SPP	REA-12
Calhoun County Elec Coop Assn	Iowa	MAPP	REA-7
Callaway Electric Cooperative	Missouri	SPP	REA-7
Cam-Wal Electric Coop Inc	South Dakota	MAPP	REA-7
Canadian Valley Elec Coop Inc	Oklahoma	SPP	REA-7
Caney Fork Electric Coop Inc	Tennessee	SERC	REA-7
Caney Valley El Coop Assn Inc	Kansas	SPP	REA-7
Canoochee Electric Member Corp	Georgia	SERC	REA-7
Cape Hatteras Elec Member Corp	North Carolina	SERC	REA-7
Capital Electric Coop Inc	North Dakota	MAPP	REA-7
Carbon Power & Light Inc	Wyoming	WSCC	REA-7
Carlton County Coop Power Assn	Minnesota	MAPP	REA-7
Carroll County Rural E M C	Indiana	ECAR	REA-7
Carroll Electric Coop Corp	Arkansas	SPP	REA-7
Carroll Electric Coop Inc	Ohio	ECAR	REA-7
Carroll Electric Member Corp	Georgia	SERC	REA-7
Carteret-Craven El Member Corp	North Carolina	SERC	REA-7
Cass County Electric Coop Inc	North Dakota	MAPP	REA-7
Cavaller Rural Elec Coop Inc	North Dakota	MAPP	REA-7
Cedar Valley Electric Coop	Iowa	MAPP	REA-7
Central Alabama Electric Coop	Alabama	SERC	REA-7
Central Electric Coop Inc	Oregon	WSCC	REA-7
Central Electric Coop Inc	Pennsylvania	MAAC	REA-7
Central Electric Member Corp	North Carolina	SERC	REA-7
Central Electric Power Assn	Mississippi	SERC	REA-7
Central Electric Power Coop	Missouri	MAIN	REA-12
Central Electric Pwr Coop Inc	South Carolina	SERC	REA-12
Central Florida Elec Coop Inc	Florida	SERC	REA-7
Central Georgia El Member Corp	Georgia	SERC	REA-7
Central Iowa Power Cooperative	Iowa	MAPP	REA-12
Central Missouri Elec Coop Inc	Missouri	MAIN	REA-7
Central New Mexico El Coop Inc	New Mexico	WSCC	REA-7
Central Power Elec Coop Inc	North Dakota	MAPP	REA-12
Central Rural Electric Coop	Oklahoma	SPP	REA-7
Central Texas Elec Coop Inc	Texas	ERCOT	REA-7
Central Valley Elec Coop Inc	New Mexico	SPP	REA-7
Central Virginia Electric Coop	Virginia	SERC	REA-7
Central Wisconsin Elec Coop	Wisconsin	MAIN	REA-7
Chariton Valley Elec Coop Inc	Iowa	MAPP	REA-7
Charles Mix Electric Assn Inc	South Dakota	MAPP	REA-7
Cherokee County Elec Coop Assn	Texas	ERCOT	REA-7
Cherokee Electric Cooperative	Alabama	SERC	REA-7
Cherry-Todd Electric Coop Inc	South Dakota	MAPP	REA-7
Cherryland Electric Coop Inc	Michigan	ECAR	REA-7
Chickasaw Electric Coop Inc	Tennessee	SERC	REA-7
Chippewa Valley Electric Coop	Wisconsin	MAPP	REA-7
Choctaw Electric Coop Inc	Oklahoma	SPP	REA-7
Choctawhatche Elec Coop Inc	Florida	SERC	REA-7
Choptank Electric Coop Inc	Maryland	MAAC	REA-7
Cimarron Electric Cooperative	Oklahoma	SPP	REA-7
Citizens Electric Corporation	Missouri	SPP	REA-7
Claiborne Electric Coop Inc	Louisiana	SPP	REA-7
Clark Electric Cooperative	Wisconsin	MAPP	REA-7
Clark Rural Electric Coop Corp	Kentucky	ECAR	REA-7
Clarke Electric Coop Inc	Iowa	MAPP	REA-7
Clarke-Washington E M C	Alabama	SERC	REA-7
Claverack Rural Elec Coop Inc	Pennsylvania	MAAC	REA-7
Clay County Electric Coop Corp	Arkansas	SPP	REA-7
Clay Electric Cooperative Inc	Illinois	MAIN	REA-7
Clay Electric Cooperative Inc	Florida	SERC	REA-7
Clay Union Electric Corp	South Dakota	MAPP	REA-7
Clearwater Power Company	Idaho	WSCC	REA-7
Clearwater-Polk Elec Coop Inc	Minnesota	MAPP	REA-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Clinton County Elec Coop Inc	Illinois	MAIN	REA-7
Cloverland Electric Coop	Michigan	ECAR	REA-7
Coaloma Electric Power Assn	Mississippi	SPP	REA-7
Coast Electric Power Assn	Mississippi	SERC	REA-7
Coastal Electric Coop Inc	South Carolina	SERC	REA-7
Coastal Electric Member Corp	Georgia	SERC	REA-7
Cobb Electric Membership Corp	Georgia	SERC	REA-7
Codington-Clark Elec Coop Inc	South Dakota	MAPP	REA-7
Coleman County Elec Coop Inc	Texas	ERCOT	REA-7
Coles-Moultrie Electric Coop	Illinois	MAIN	REA-7
Colquitt Electric Members Corp	Georgia	SERC	REA-7
Columbia Basin Elec Coop Inc	Oregon	WSCC	REA-7
Columbia Power Coop Assn Inc	Oregon	WSCC	REA-7
Columbia Rural Elec Assn Inc	Washington	WSCC	REA-7
Columbus Electric Coop Inc	New Mexico	WSCC	REA-7
Comanche County Elec Coop Assn	Texas	ERCOT	REA-7
Community Electric Cooperative	Virginia	SERC	REA-7
Concho Valley Elec Coop Inc	Texas	ERCOT	REA-7
Concordia Electric Coop Inc	Louisiana	SPP	REA-7
Consolidated Electric Coop	Missouri	SPP	REA-7
Consumers Power Inc	Oregon	WSCC	REA-7
Continental Divide El Coop Inc	New Mexico	WSCC	REA-7
Cooke County Elec Coop Assn	Texas	ERCOT	REA-7
Cookson Hills Elec Coop Inc	Oklahoma	SPP	REA-7
Cooperative L&P Assn Lake Cnty	Minnesota	MAPP	REA-7
Cooperative Power Association	Minnesota	MAPP	REA-12
Coos-Curry Electric Coop Inc	Oregon	WSCC	REA-7
Coosa Valley Electric Coop Inc	Alabama	SERC	REA-7
Copper Valley Elec Assn Inc	Alaska	ASCC	REA-7
Cordova Electric Coop Inc	Alaska	ASCC	REA-7
Corn Belt Electric Coop Inc	Illinois	MAIN	REA-7
Corn Belt Power Cooperative	Iowa	MAPP	REA-12
Cotton Electric Coop Inc	Oklahoma	SPP	REA-7
Covington Electric Coop Inc	Alabama	SERC	REA-7
Coweta Fayette El Member Corp	Georgia	SERC	REA-7
Craig-Botetourt Electric Coop	Virginia	ECAR	REA-7
Craighead Electric Coop Corp	Arkansas	SPP	REA-7
Crawford Electric Coop Inc	Missouri	SPP	REA-7
Crawford Electric Cooperative	Wisconsin	MAPP	REA-7
Crescent Electric Member Corp	North Carolina	SERC	REA-7
Crow Wing Coop Power&Light Co	Minnesota	MAPP	REA-7
Cullman Electric Cooperative	Alabama	SERC	REA-7
Cumberland Elec Member Corp	Tennessee	SERC	REA-7
Cumberland Valley Rural E C C	Kentucky	SERC	REA-7
CMS Electric Cooperative Inc	Kansas	SPP	REA-7
CO-MO Electric Coop Inc	Missouri	MAIN	REA-7
D S & O Rural E C A Inc	Kansas	SPP	REA-7
Dairyland Electric Coop Inc	Minnesota	MAPP	REA-7
Dairyland Power Cooperative	Wisconsin	MAPP	REA-12
Dakota Electric Association	Minnesota	MAPP	REA-7
Darke Rural Electric Coop Inc	Ohio	ECAR	REA-7
Davidson Electric Member Corp	North Carolina	SERC	REA-7
Daviess Martin County R E M C	Indiana	ECAR	REA-7
Decatur County Rural E M C	Indiana	ECAR	REA-7
Deep East Texas Elec Coop Inc	Texas	ERCOT	REA-7
Delaware County Elec Coop Inc	New York	NPCC	REA-7
Delaware Electric Coop Inc	Delaware	MAAC	REA-7
Delaware Rural Elec Coop Inc	Ohio	ECAR	REA-7
Delta Electric Power Assn	Mississippi	SPP	REA-7
Delta Montrose Electric Assn	Colorado	WSCC	REA-7
Denton County Elec Coop Inc	Texas	ERCOT	REA-7
Deseret Generation & Tran Coop	Utah	WSCC	REA-12
Dewitt County Elec Coop Inc	Texas	ERCOT	REA-7
Dickens Electric Coop Inc	Texas	ERCOT	REA-7
Dixie Electric Cooperative	Alabama	SERC	REA-7
Dixie Electric Membership Corp	Louisiana	SPP	REA-7
Dixie Electric Power Assn	Mississippi	SERC	REA-7
Dixie Escalante R E A Inc	Utah	WSCC	REA-7
Doniphan Elec Coop Assn Inc	Kansas	SPP	REA-7
Douglas Electric Coop Inc	Oregon	WSCC	REA-7
Douglas Electric Coop Inc	South Dakota	MAPP	REA-7
Dubois Rural Electric Coop Inc	Indiana	ECAR	REA-7
Duck River Elec Member Corp	Tennessee	SERC	REA-7
Duncan Valley Elec Coop Inc	Arizona	WSCC	REA-7
Dunn County Electric Coop	Wisconsin	MAPP	REA-7
East Central Electric Assn	Minnesota	MAPP	REA-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
East Central Okla El Coop Inc	Oklahoma	SPP	REA-7
East Kentucky Power Coop Inc	Kentucky	ECAR	REA-12
East Mississippi Elec Pwr Assn	Mississippi	SERC	REA-7
East River Elec Pwr Coop Inc	South Dakota	MAPP	REA-12
Eastern Illini Electric Coop	Illinois	MAIN	REA-7
Eastern Iowa Light&Power Coop	Iowa	MAPP	REA-7
Eastern Maine Electric Coop	Maine	NPCC	REA-7
Eau Claire Electric Coop	Wisconsin	MAPP	REA-7
Edgar Electric Co-op, Assn	Illinois	MAIN	REA-7
Edgecombe-Martin County E M C	North Carolina	SERC	REA-7
Edisto Electric Coop Inc	South Carolina	SERC	REA-7
Egyptian Electric Coop Assn	Illinois	MAIN	REA-7
Empire Electric Assn Inc	Colorado	WSCC	REA-7
Erath County F. Coop Assn Inc	Texas	ERCOT	REA-7
Escambia River Elec Coop Inc	Florida	SERC	REA-7
Excelsior Electric Member Corp	Georgia	SERC	REA-7
Fairfield Electric Coop Inc	South Carolina	SERC	REA-7
Fall River Rural Elec Coop Inc	Idaho	WSCC	REA-7
Fannin County Electric Coop	Texas	ERCOT	REA-7
Farmers Electric Coop Corp	Arkansas	SPP	REA-7
Farmers Electric Coop Inc	Iowa	MAPP	REA-7
Farmers Electric Coop Inc	Missouri	SPP	REA-7
Farmers Mutual Electric Co	Illinois	MAIN	REA-7
Farmers Rural Elec Coop Corp	Kentucky	ECAR	REA-7
Farmers' Elec Coop Inc N Mex	New Mexico	WSCC	REA-7
Fayette Electric Coop Inc	Texas	ERCOT	REA-7
Fayette-Union County R E M C	Indiana	ECAR	REA-7
Federated Rural Electric Assn	Minnesota	MAPP	REA-7
Fergus Electric Coop Inc	Montana	WSCC	REA-7
Firelands Electric Coop Inc	Ohio	ECAR	REA-7
First Electric Coop Corp	Arkansas	SPP	REA-7
Flathead Electric Coop Inc	Montana	WSCC	REA-7
Fleming-Mason Rural E C C	Kentucky	ECAR	REA-7
Flint Electric Membership Corp	Georgia	SERC	REA-7
Flint Hills Rural E C A Inc	Kansas	SPP	REA-7
Florida Keys El Coop Assn Inc	Florida	SERC	REA-7
Flowell Electric Assn Inc	Utah	WSCC	REA-7
Forked Deer Electric Coop Inc	Tennessee	SERC	REA-7
Fort Loudoun Electric Coop	Tennessee	SERC	REA-7
Four County Elec Member Corp	North Carolina	SERC	REA-7
Fox Creek Rural Elec Coop Corp	Kentucky	ECAR	REA-7
Fox Islands Electric Coop Inc	Maine	NPCC	REA-7
Franklin Electric Cooperative	Alabama	SERC	REA-7
Franklin Rural Electric Coop	Iowa	MAPP	REA-7
Freeborn-Mower Electric Coop	Minnesota	MAPP	REA-7
French Broad Elec Member Corp	North Carolina	SERC	REA-7
Frontier Power Company	Ohio	ECAR	REA-7
Fruit Belt Electric Coop	Michigan	ECAR	REA-7
Fulton County Rural E M C	Indiana	ECAR	REA-7
FEC Electric Cooperative	Texas	ERCOT	REA-7
FEM Electric Association Inc	South Dakota	MAPP	REA-7
Garkane Power Association Inc	Utah	WSCC	REA-7
Garland Light & Power Company	Wyoming	WSCC	REA-7
Gascoage Electric Cooperative	Missouri	MAIN	REA-7
Gate City Electric Coop Inc	Texas	ERCOT	REA-7
Gibson County Elec Member Corp	Tennessee	SERC	REA-7
Glacier Electric Coop Inc	Montana	WSCC	REA-7
Glades Electric Coop Inc	Florida	SERC	REA-7
Gildden Rural Electric Coop	Iowa	MAPP	REA-7
Golden Valley Elec Assn Inc	Alaska	ASCC	REA-7
Goldenwest Electric Coop Inc	Montana	WSCC	REA-7
Goodhue County Coop Elec Assn	Minnesota	MAPP	REA-7
Grady County Elec Member Corp	Georgia	SERC	REA-7
Grand Electric Coop Inc	South Dakota	MAPP	REA-7
Grand Valley Rrl Pwr Line Inc	Colorado	WSCC	REA-7
Grant-Lafayette Electric Coop	Wisconsin	MAPP	REA-7
Grayson Rural Elec Coop Corp	Kentucky	ECAR	REA-7
Grayson-Collin Elec Coop Inc	Texas	ERCOT	REA-7
Green River Electric Corp	Kentucky	ECAR	REA-7
Greenbelt Electric Coop Inc	Texas	SPP	REA-7
GreyStone Power Corp	Georgia	SERC	REA-7
Grundy County Rural Elec Coop	Iowa	MAPP	REA-7
Grundy Electric Coop Inc	Missouri	SPP	REA-7
Guernsey-Muskingum El Coop Inc	Ohio	ECAR	REA-7
Gulf Coast Electric Coop Inc	Florida	SERC	REA-7
Gunnison County Elec Assn Inc	Colorado	WSCC	REA-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Guthrie County Rural E C A	Iowa	MAPP	REA-7
H-D Electric Cooperative Inc	South Dakota	MAPP	REA-7
Habersham Elec Member Corp	Georgia	SERC	REA-7
Halifax Electric Member Corp	North Carolina	SERC	REA-7
Hamilton County Elec Coop Assn	Texas	ERCOT	REA-7
Hancock County Rural Elec Coop	Iowa	MAPP	REA-7
Hancock County REMC	Indiana	ECAR	REA-7
Hancock-Wood Electric Coop Inc	Ohio	ECAR	REA-7
Harkers Island El Member Corp	North Carolina	SERC	REA-7
Harmon Electric Assn Inc	Oklahoma	SPP	REA-7
Harney Electric Coop Inc	Oregon	WSCC	REA-7
Harrison County Rrl Elec Coop	Iowa	MAPP	REA-7
Harrison County Rural E C C	Kentucky	ECAR	REA-7
Harrison County Rural E M C	Indiana	ECAR	REA-7
Harrison Rural Elec Assn Inc	West Virginia	ECAR	REA-7
Hart County Elec Member Corp	Georgia	SERC	REA-7
Hawkeye Tri-County Elec Coop	Iowa	MAPP	REA-7
Haywood Electric Member Corp	North Carolina	SERC	REA-7
Head of The Lakes Elec Coop	Wisconsin	MAPP	REA-7
Henderson-Union Rural E C C	Kentucky	ECAR	REA-7
Hendricks County Rural E M C	Indiana	ECAR	REA-7
Hickman-Fulton Counties RECC	Kentucky	ECAR	REA-7
Highline Electric Assn	Colorado	WSCC	REA-7
Hill County Electric Coop	Texas	ERCOT	REA-7
Hill County Electric Coop Inc	Montana	WSCC	REA-7
Holmes-Wayne Electric Coop Inc	Ohio	ECAR	REA-7
Holston Electric Coop Inc	Tennessee	SERC	REA-7
Holy Cross Electric Assn Inc	Colorado	WSCC	REA-7
Homer Electric Assn Inc	Alaska	ASCC	REA-7
Hoosier Energy R E C Inc	Indiana	ECAR	REA-12
Horry Electric Cooperative Inc	South Carolina	SERC	REA-7
Hot Springs Rural El Assn Inc	Wyoming	WSCC	REA-7
Houston County Elec Coop Inc	Texas	ERCOT	REA-7
Howard Electric Cooperative	Missouri	SFP	REA-7
Howell-Oregon Elec Coop Inc	Missouri	SPP	REA-7
Humboldt County R E C	Iowa	MAPP	REA-7
Hunt-Collin Electric Coop Inc	Texas	ERCOT	REA-7
Ida County Rural Electric Coop	Iowa	MAPP	REA-7
Idaho Cnty L&P Coop Assn Inc	Idaho	WSCC	REA-7
Illinois Rural Electric Co	Illinois	MAIN	REA-7
Illinois Valley Elec Coop Inc	Illinois	MAIN	REA-7
Indian Electric Coop Inc	Oklahoma	SPP	REA-7
Inter-County Rural E C C	Kentucky	ECAR	REA-7
Intercounty Electric Assn Inc	South Dakota	MAPP	REA-7
Intercounty Electric Coop Assn	Missouri	SPP	REA-7
Intermountain Rural Elec Assn	Colorado	WSCC	REA-7
Iowa Lakes Electric Coop	Iowa	MAPP	REA-7
Irwin County Elec Member Corp	Georgia	SERC	REA-7
Itasca-Mantrap Coop Elec Assn	Minnesota	MAPP	REA-7
J-A-C Electric Cooperative Inc	Texas	ERCOT	REA-7
Jackson County Rural E C C	Kentucky	ECAR	REA-7
Jackson County Rural E M C	Indiana	ECAR	REA-7
Jackson Electric Coop Inc	Wisconsin	MAPP	REA-7
Jackson Electric Coop Inc	Texas	ERCOT	REA-7
Jackson Electric Member Corp	Georgia	SERC	REA-7
Jackson Purchase El Coop Corp	Kentucky	ECAR	REA-7
James Valley Electric Coop Inc	North Dakota	MAPP	REA-7
Jasper County Rural E M C	Indiana	ECAR	REA-7
Jasper-Newton Elec Coop Inc	Texas	ERCOT	REA-7
Jay County Rural E M C	Indiana	ECAR	REA-7
Jefferson Davis Elec Coop Inc	Louisiana	SPP	REA-7
Jefferson Electric Member Corp	Georgia	SERC	REA-7
Jemez Mountains Elec Coop Inc	New Mexico	WSCC	REA-7
Jewell-Mitchell Coop Elec Inc	Kansas	SPP	REA-7
Jo-Carroll Electric Coop Inc	Illinois	MAPP	REA-7
Joe Wheeler Elec Member Corp	Alabama	SERC	REA-7
Johnson County Elec Coop Assn	Texas	ERCOT	REA-7
Johnson County Rural E M C	Indiana	ECAR	REA-7
Jones-Onslow Elec Member Corp	North Carolina	SERC	REA-7
Jump River Electric Coop Inc	Wisconsin	MAPP	REA-7
K C Electric Association	Colorado	WSCC	REA-7
Kamo Electric Cooperative Inc	Oklahoma	SPP	REA-12
Kandiyohi Coop Elec Power Assn	Minnesota	MAPP	REA-7
Kankakee Valley Rural E M C	Indiana	ECAR	REA-7
Kansas Electric Power Coop Inc	Kansas	SPP	REA-12
Karnes Electric Coop Inc	Texas	ERCOT	REA-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Kaufman County Elec Coop Inc	Texas	ERCOT	REA-7
Kaw Valley Elec Coop Inc	Kansas	SPP	REA-7
Key Electric Cooperative	Oklahoma	SPP	REA-7
Kiamichi Electric Coop Inc	Oklahoma	SPP	REA-7
Kimble Electric Coop Inc	Texas	ERCOT	REA-7
Kingsbury Electric Coop Inc	South Dakota	MAPP	REA-7
Kit Carson Electric Coop Inc	New Mexico	WSCC	REA-7
Klwasch Electric Coop Inc	Oklahoma	SPP	REA-7
Knox County Rural E M C	Indiana	ECAR	REA-7
Kodiak Electric Assn Inc	Alaska	ASCC	REA-7
Kootenai Electric Coop Inc	Idaho	WSCC	REA-7
Kosciusko County Rural E M C	Indiana	ECAR	REA-7
Kotzebue Electric Assn Inc	Alaska	ASCC	REA-7
KEM Electric Cooperative Inc	North Dakota	MAPP	REA-7
L & O Power Cooperative	Iowa	MAPP	REA-12
La Plata Electric Assn Inc	Colorado	WSCC	REA-7
Laclede Electric Coop Inc	Missouri	SPP	REA-7
Lacreek Electric Assn Inc	South Dakota	MAPP	REA-7
Lagrange County Rural E M C	Indiana	ECAR	REA-7
Lake Region Coop Elec Assn	Minnesota	MAPP	REA-7
Lake Region Electric Assn Inc	South Dakota	MAPP	REA-7
Lake Region Electric Coop Inc	Oklahoma	SPP	REA-7
Lamar County Elec Coop Assn	Texas	ERCOT	REA-7
Lamar Electric Membership Corp	Georgia	SERC	REA-7
Lamb County Electric Coop Inc	Texas	SPP	REA-7
Lane Electric Cooperative Inc	Oregon	WSCC	REA-7
Lane-Scott Electric Coop Inc	Kansas	SPP	REA-7
Laurens Electric Coop Inc	South Carolina	SERC	REA-7
Lea County Electric Coop Inc	New Mexico	SPP	REA-7
Leavenworth-Jefferson E C Inc	Kansas	SPP	REA-7
Lewis County Rural E C A	Missouri	MAIN	REA-7
Licking Rural Electric Inc	Ohio	ECAR	REA-7
Licking Valley Rural E C C	Kentucky	ECAR	REA-7
Lighthouse Electric Coop Inc	Texas	SPP	REA-7
Lincoln Electric Coop Inc	Montana	WSCC	REA-7
Lincoln Electric Coop Inc	Washington	WSCC	REA-7
Lincoln-Union Electric Company	South Dakota	MAPP	REA-7
Linn County Rural El Coop Assn	Iowa	MAPP	REA-7
Little Ocmulgee El Member Corp	Georgia	SERC	REA-7
Little River Electric Coop Inc	South Carolina	SERC	REA-7
Logan Cnty Coop P&L Assn Inc	Ohio	ECAR	REA-7
Lorain-Medina R E C Inc	Ohio	ECAR	REA-7
Lost River Electric Coop Inc	Idaho	WSCC	REA-7
Lower Yellowstone R E A Inc	Montana	MAPP	REA-7
Lumbree River Elec Member Corp	North Carolina	SERC	REA-7
Lynches River Elec Coop Inc	South Carolina	SERC	REA-7
Lyntegar Electric Coop Inc	Texas	SPP	REA-7
Lyon Rural Electric Coop	Iowa	MAPP	REA-7
Lyon-Coffey Electric Coop Inc	Kansas	SPP	REA-7
Lyon-Lincoln Electric Coop Inc	Minnesota	MAPP	REA-7
M & A Electric Power Coop	Missouri	SPP	REA-12
M J M Electric Cooperative Inc	Illinois	MAIN	REA-7
Macon Electric Cooperative	Missouri	SPP	REA-7
Magic Valley Electric Coop Inc	Texas	ERCOT	REA-7
Magnolia Electric Power Assn	Mississippi	SPP	REA-7
Maquoketa Valley Rrl Elec Coop	Iowa	MAPP	REA-7
Marias River Electric Coop Inc	Montana	WSCC	REA-7
Marion Rural Electric Coop Inc	Ohio	ECAR	REA-7
Marlboro Electric Coop Inc	South Carolina	SERC	REA-7
Marshall County Rrl Elec Coop	Iowa	MAPP	REA-7
Marshall County Rural E M C	Indiana	ECAR	REA-7
Matanuska Electric Assn Inc	Alaska	ASCC	REA-7
McCone Electric Co-op Inc	Montana	WSCC	REA-7
McCook Electric Coop Inc	South Dakota	MAPP	REA-7
McCulloch Electric Coop Inc	Texas	ERCOT	REA-7
McDonough Power Cooperative	Illinois	MAIN	REA-7
McKenzie Electric Coop Inc	North Dakota	MAPP	REA-7
McLean Electric Coop Inc	North Dakota	MAPP	REA-7
McLennan County Elec Coop Inc	Texas	ERCOT	REA-7
McLeod Cooperative Power Assn	Minnesota	MAPP	REA-7
Meade County Rural E C C	Kentucky	ECAR	REA-7
Mecklenburg Electric Coop	Virginia	SERC	REA-7
Medina Electric Coop Inc	Texas	ERCOT	REA-7
Meeker Coop Light & Power Assn	Minnesota	MAPP	REA-7
Menard Electric Cooperative	Illinois	MAIN	REA-7
Meriwether Lewis Electric Coop	Tennessee	SERC	REA-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Miami-Cass County Rural E M C	Indiana	ECAR	REA-7
Mid-Carolina Electric Coop Inc	South Carolina	SERC	REA-7
Mid-South Electric Coop Assn	Texas	ERCOT	REA-7
Mid-Yellowstone Elec Coop Inc	Montana	WSCC	REA-7
Middle Georgia El Member Corp	Georgia	SERC	REA-7
Middle Tennessee E M C	Tennessee	SERC	REA-7
Midland Power Cooperative	Iowa	MAPP	REA-7
Midstate Electric Coop Inc	Oregon	WSCC	REA-7
Midwest Electric Coop Inc	Texas	ERCOT	REA-7
Midwest Electric Inc	Ohio	ECAR	REA-7
Midwest Electric Member Corp	Nebraska	MAPP	REA-7
Midwest Energy Inc	Kansas	SPP	REA-7
Mille Lacs Electric Coop	Minnesota	MAPP	REA-7
Minnesota Valley Coop L&P Assn	Minnesota	MAPP	REA-7
Minnesota Valley Electric Coop	Minnesota	MAPP	REA-7
Minnkota Power Coop Inc	North Dakota	MAPP	REA-12
Mississippi Cnty Elec Coop Inc	Arkansas	SPP	REA-7
Missoula Electric Coop Inc	Montana	WSCC	REA-7
Missouri Rural Electric Coop	Missouri	MAIN	REA-7
Mitchell Electric Member Corp	Georgia	SERC	REA-7
Mohave Electric Coop Inc	Arizona	WSCC	REA-7
Monona County Rural Elec Coop	Iowa	MAPP	REA-7
Monroe County Elec Coop Inc	Illinois	MAIN	REA-7
Monroe County Elec Power Assn	Mississippi	SERC	REA-7
Moon Lake Electric Assn Inc	Utah	WSCC	REA-7
Mor-Gran-Sou Electric Coop Inc	North Dakota	MAPP	REA-7
Mora-San Miguel Elec Coop Inc	New Mexico	WSCC	REA-7
Moreau-Grand Electric Coop Inc	South Dakota	MAPP	REA-7
Morgan County Rural E M C	Indiana	ECAR	REA-7
Morgan County Rural Elec Assn	Colorado	WSCC	REA-7
Morrow Electric Coop Inc	Ohio	ECAR	REA-7
Mount'n Electric Coop Inc	Tennessee	SERC	REA-7
Mountain Parks Electric Inc	Colorado	WSCC	REA-7
Mountain View Elec Assn Inc	Colorado	WSCC	REA-7
Mountrail-Williams Elec Coop	North Dakota	MAPP	REA-7
Mt Wheeler Power Inc	Nevada	WSCC	REA-7
N C K Electric Cooperative Inc	Kansas	SPP	REA-7
N W Electric Power Coop Inc	Missouri	SPP	REA-12
Naknek Electric Assn Inc	Alaska	ASCC	REA-7
Natchez Trace Elec Power Assn	Mississippi	SERC	REA-7
Navarro County Elec Coop Inc	Texas	ERCOT	REA-7
Navasota Valley Elec Coop Inc	Texas	ERCOT	REA-7
Navopache Electric Coop Inc	Arizona	WSCC	REA-7
Nebraska Electric G&T Coop Inc	Nebraska	MAPP	REA-12
Nemaha-Marshall E C A Inc	Kansas	SPP	REA-7
Nespelem Valley Elec Coop Inc	Washington	WSCC	REA-7
New Era Electric Coop Inc	Texas	ERCOT	REA-7
New Hampshire Elec Coop Inc	New Hampshire	NPCC	REA-7
New-Mac Electric Coop Inc	Missouri	MAIN	REA-7
Newberry Electric Coop Inc	South Carolina	SERC	REA-7
Newton County Rural E M C	Indiana	ECAR	REA-7
Ninnescah Rural E C A Inc	Kansas	SPP	REA-7
Niobrara Electric Assn Inc	Wyoming	WSCC	REA-7
Nishnabotna Valley R E C	Iowa	MAPP	REA-7
Noble County Rural E M C	Indiana	ECAR	REA-7
Nobles Cooperative Electric	Minnesota	MAPP	REA-7
Nodak Rural Electric Coop Inc	North Dakota	MAPP	REA-7
Nodaway Worth Elec Coop Inc	Missouri	SPP	REA-7
Nolin Rural Electric Coop Corp	Kentucky	ECAR	REA-7
North Alabama Electric Coop	Alabama	SERC	REA-7
North Arkansas Elec Coop Inc	Arkansas	SPP	REA-7
North Carolina El Member Corp	North Carolina	SERC	REA-12
North Central Elec Coop Inc	North Dakota	MAPP	REA-7
North Central MO Elec Coop Inc	Missouri	SPP	REA-7
North East Mississippi E P A	Mississippi	SERC	REA-7
North Georgia Elec Member Corp	Georgia	SERC	REA-7
North Itasca Electric Coop Inc	Minnesota	MAPP	REA-7
North Pine Electric Coop Inc	Minnesota	MAPP	REA-7
North Plains Electric Coop Inc	Texas	SPP	REA-7
North Star Electric Coop Inc	Minnesota	MAPP	REA-7
North Western Elec Coop Inc	Ohio	ECAR	REA-7
North-Central Elec Coop Inc	Ohio	ECAR	REA-7
Northcentral Mississippi E P A	Mississippi	SERC	REA-7
Northeast Louisiana Power Coop	Louisiana	SPP	REA-7
Northeast Missouri El Pwr Coop	Missouri	MAIN	REA-12
Northeast Oklahoma El Coop Inc	Oklahoma	SPP	REA-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Northeast Texas Elec Coop Inc	Texas	SPP	REA-12
Northeastern Rural E M C	Indiana	ECAR	REA-7
Northern Electric Coop Assn	Minnesota	MAPP	REA-7
Northern Electric Coop Inc	Montana	WSCC	REA-7
Northern Electric Coop Inc	South Dakota	MAPP	REA-7
Northern Lights Inc	Idaho	WSCC	REA-7
Northern Neck Elec Coop Inc	Virginia	SERC	REA-7
Northern Rio Arriba E Coop Inc	New Mexico	WSCC	REA-7
Northern Virginia Elec Coop	Virginia	SERC	REA-7
Northfork Electric Coop Inc	Oklahoma	SPP	REA-7
Northwest Iowa Power Coop	Iowa	MAPP	REA-12
Northwest Kansas E C A Inc	Kansas	SPP	REA-7
Northwest Missouri El Coop Inc	Missouri	MAIN	REA-7
Northwestern Electric Coop Inc	Oklahoma	SPP	REA-7
Northwestern Rural E C C Inc	Pennsylvania	MAAC	REA-7
Norton-Decatur Coop El Co Inc	Kansas	SPP	REA-7
Nueces Electric Coop Inc	Texas	ERCOT	REA-7
Nushagak Electric Coop Inc	Alaska	ASCC	REA-7
Nyman Electric Cooperative Inc	Iowa	MAPP	REA-7
O & A Electric Cooperative	Michigan	ECAR	REA-7
O'Brien County Rural Elec Co	Iowa	MAPP	REA-7
Oahe Electric Cooperative Inc	South Dakota	MAPP	REA-7
Oakdale Electric Cooperative	Wisconsin	MAPP	REA-7
Oceana Electric Cooperative	Michigan	ECAR	REA-7
Ocmulgee Electric Member Corp	Georgia	SERC	REA-7
Oconee Electric Member Corp	Georgia	SERC	REA-7
Oconto Electric Cooperative	Wisconsin	MAIN	REA-7
Oglethorpe Power Corporation	Georgia	SERC	REA-12
Okanogan County Elec Coop Inc	Washington	WSCC	REA-7
Okfenoke Rural El Member Corp	Georgia	SERC	REA-7
Oklahoma Electric Coop Inc	Oklahoma	SPP	REA-7
Oliver-Mercer Elec Coop Inc	North Dakota	MAPP	REA-7
Oneida-Madison Elec Coop Inc	New York	NPCC	REA-7
Ontonagon County R E A	Michigan	MAIN	REA-7
Orange County Rural E M C	Indiana	ECAR	REA-7
Orcas Power & Light Company	Washington	WSCC	REA-7
Osage Valley Elec Coop Assn	Missouri	SPP	REA-7
Osceola Electric Coop Inc	Iowa	MAPP	REA-7
Otero County Electric Coop Inc	New Mexico	WSCC	REA-7
Otsego Electric Coop Inc	New York	NPCC	REA-7
Ouachita Electric Coop Corp	Arkansas	SPP	REA-7
Owen Electric Cooperative Inc	Kentucky	ECAR	REA-7
Ozark Border Electric Coop	Missouri	SPP	REA-7
Ozark Electric Cooperative Inc	Missouri	SPP	REA-7
Ozarks Electric Coop Corp	Arkansas	SPP	REA-7
P K M Electric Coop Inc	Minnesota	MAPP	REA-7
P R & W Electric Coop Assn Inc	Kansas	SPP	REA-7
Palmetto Electric Coop Inc	South Carolina	SERC	REA-7
Panhandle Rural El Member Assn	Nebraska	MAPP	REA-7
Panola-Harrison Elec Coop Inc	Texas	SPP	REA-7
Park Electric Cooperative Inc	Montana	WSCC	REA-7
Parke County Rural E M C	Indiana	ECAR	REA-7
Pataula Electric Member Corp	Georgia	SERC	REA-7
Paulding-Putman Elec Coop Inc	Ohio	ECAR	REA-7
Pea River Electric Cooperative	Alabama	SERC	REA-7
Peace River Electric Coop Inc	Florida	SERC	REA-7
Pearl River Valley El Pwr Assn	Mississippi	SPP	REA-7
Pee Dee Electric Coop Inc	South Carolina	SERC	REA-7
Pee Dee Electric Member Corp	North Carolina	SERC	REA-7
Pella Cooperative Elec Assn	Iowa	MAPP	REA-7
Pemiscot-Dunklin Elec Coop Inc	Missouri	SPP	REA-7
Pennyrile Rural Elec Coop Corp	Kentucky	SERC	REA-7
Peoples Cooperative Power Assn	Minnesota	MAPP	REA-7
Petit Jean Electric Coop Corp	Arkansas	SPP	REA-7
Pickwick Electric Cooperative	Tennessee	SERC	REA-7
Piedmont Electric Member Corp	North Carolina	SERC	REA-7
Pierce-Pepin Electric Coop	Wisconsin	MAPP	REA-7
Pioneer Electric Coop Inc	Kansas	SPP	REA-7
Pioneer Electric Coop Inc	Alabama	SERC	REA-7
Pioneer Rural Elec Coop Inc	Ohio	ECAR	REA-7
Pitt & Greene Elec Member Corp	North Carolina	SERC	REA-7
Plains Elec Gen&Trans Coop Inc	New Mexico	WSCC	REA-12
Planters Electric Member Corp	Georgia	SERC	REA-7
Plateau Electric Cooperative	Tennessee	SERC	REA-7
Platte-Clay Electric Coop Inc	Missouri	SPP	REA-7
Plumas-Sierra Rural Elec Coop	California	WSCC	REA-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Plymouth Electric Coop Assn	Iowa	MAPP	REA-7
Pointe Coupee Elec Member Corp	Louisiana	SPP	REA-7
Polk-Burnett Electric Coop	Wisconsin	MAPP	REA-7
Poudre Valley R E A Inc	Colorado	WSCC	REA-7
Powell Valley Electric Coop	Virginia	SERC	REA-7
Presque Isle Electric Coop Inc	Michigan	ECAR	REA-7
Price Electric Coop Inc	Wisconsin	MAPP	REA-7
Prince George Electric Coop	Virginia	SERC	REA-7
R S R Electric Coop Inc	North Dakota	MAPP	REA-7
Radiant Electric Coop Inc	Kansas	SPP	REA-7
Raft River Rural Elec Coop Inc	Idaho	WSCC	REA-7
Ralls County Electric Coop	Missouri	SPP	REA-7
Randolph Electric Member Corp	North Carolina	SERC	REA-7
Rappahannock Electric Coop	Virginia	SERC	REA-7
Ravalli County Elec Coop Inc	Montana	WSCC	REA-7
Rayle Electric Membership Corp	Georgia	SERC	REA-7
Red Lake Electric Coop Inc	Minnesota	MAPP	REA-7
Red River Valley Coop Pwr Assn	Minnesota	MAPP	REA-7
Red River Valley Rri Elec Assn	Oklahoma	SPP	REA-7
Redwood Electric Cooperative	Minnesota	MAPP	REA-7
Ree Electric Cooperative Inc	South Dakota	MAPP	REA-7
Renville-Sibley Coop Pwr Assn	Minnesota	MAPP	REA-7
Rich Mountain Elec Coop Inc	Arkansas	SPP	REA-7
Richland Electric Cooperative	Wisconsin	MAPP	REA-7
Rideta Electric Coop Inc	Iowa	MAPP	REA-7
Rio Grande Electric Coop Inc	Texas	ERCOT	REA-7
Rita Blanca Electric Coop Inc	Texas	SPP	REA-7
Riverton Valley Elec Assn Inc	Wyoming	WSCC	REA-7
Roanoke Electric Member Corp	North Carolina	SERC	REA-7
Rock County Electric Coop Assn	Wisconsin	MAPP	REA-7
Roosevelt County Elec Coop Inc	New Mexico	SPP	REA-7
Roseau Electric Coop Inc	Minnesota	MAPP	REA-7
Rosebud Electric Coop Inc	South Dakota	MAPP	REA-7
Runestone Electric Association	Minnesota	MAPP	REA-7
Rural Electric Company	Wyoming	WSCC	REA-7
Rural Electric Conven Coop Co	Illinois	MAIN	REA-7
Rural Electric Coop Inc	Oklahoma	SPP	REA-7
Rush County Rural E M C	Indiana	ECAR	REA-7
Rusk County Electric Coop Inc	Texas	SPP	REA-7
Rutherford Elec Member Corp	North Carolina	SERC	REA-7
S E Iowa Coop Electric Assn	Iowa	MAPP	REA-7
Sac County Rural Electric Coop	Iowa	MAPP	REA-7
Sac-Osage Electric Coop Inc	Missouri	SPP	REA-7
Salmon River Electric Coop Inc	Idaho	WSCC	REA-7
Salt River Rural El Coop Corp	Kentucky	ECAR	REA-7
Saluda River Electric Coop Inc	South Carolina	SERC	REA-12
Sam Houston Electric Coop Inc	Texas	SPP	REA-7
Sam Rayburn G & T Inc	Texas	SPP	REA-12
San Isabel Electric Assn Inc	Colorado	WSCC	REA-7
San Luis Valley R E C Inc	Colorado	WSCC	REA-7
San Miguel Electric Coop Inc	Texas	ERCOT	REA-12
San Miguel Power Assn Inc	Colorado	WSCC	REA-7
San Patricio Electric Coop Inc	Texas	ERCOT	REA-7
Sand Mountain Electric Coop	Alabama	SERC	REA-7
Sangre De Cristo Elec Assn Inc	Colorado	WSCC	REA-7
Santee Electric Coop Inc	South Carolina	SERC	REA-7
Satilla Rural Elec Member Corp	Georgia	SERC	REA-7
Sawnee Electric Member Corp	Georgia	SERC	REA-7
Scott-New Madrid-MS Elec Coop	Missouri	SPP	REA-7
Sedgwick Cnty El Coop Assn Inc	Kansas	SPP	REA-7
Sekan Electric Coop Assn Inc	Kansas	SPP	REA-7
Seminole Electric Coop Inc	Florida	SERC	REA-12
Sequachee Valley Electric Coop	Tennessee	SERC	REA-7
Shelby County Rural E M C	Indiana	ECAR	REA-7
Shelby Rural Elec Coop Corp	Kentucky	ECAR	REA-7
Shenandoah Valley Elec Coop	Virginia	SERC	REA-7
Sheridan Electric Coop Inc	Montana	MAPP	REA-7
Sheridan-Johnson Rri Elec Assn	Wyoming	WSCC	REA-7
Sheyenne Valley Elec Coop Inc	North Dakota	MAPP	REA-7
Sho-Me Power Corporation	Missouri	SPP	REA-12
Sierra Electric Coop Inc	New Mexico	WSCC	REA-7
Singing River Elec Power Assn	Mississippi	SERC	REA-7
Sioux Electric Coop Assn	Iowa	MAPP	REA-7
Sioux Valley Empire E A Inc	South Dakota	MAPP	REA-7
Slash Pine Elec Member Corp	Georgia	SERC	REA-7
Slope Electric Coop Inc	North Dakota	MAPP	REA-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Smoky Hill Elec Coop Assn Inc	Kansas	SPP	REA-7
Snapping Shoals E M C	Georgia	SERC	REA-7
Socorro Electric Coop Inc	New Mexico	WSCC	REA-7
Somerset Rural Elec Coop Inc	Pennsylvania	MAAC	REA-7
South Alabama Elec Coop Inc	Alabama	SERC	REA-7
South Central Ark El Coop Inc	Arkansas	SPP	REA-7
South Central Electric Assn	Minnesota	MAPP	REA-7
South Central Power Company	Ohio	ECAR	REA-7
South Crawford Rural Elec Corp	Iowa	MAPP	REA-7
South Kentucky Rural E C C	Kentucky	ECAR	REA-7
South Louisiana Elec Coop Assn	Louisiana	SPP	REA-7
South Mississippi El Pwr Assn	Mississippi	SERC	REA-12
South Plains Electric Coop Inc	Texas	SPP	REA-7
South River Elec Member Corp	North Carolina	SERC	REA-7
South Texas Electric Coop Inc	Texas	ERCOT	REA-12
Southeast Colorado Power Assn	Colorado	WSCC	REA-7
Southeast Electric Coop Inc	Montana	WSCC	REA-7
Southeastern Electric Coop Inc	Oklahoma	SPP	REA-7
Southeastern Indiana R E M C	Indiana	ECAR	REA-7
Southeastern IL Elec Coop Inc	Illinois	MAIN	REA-7
Southeastern Michigan REC Inc	Michigan	ECAR	REA-7
Southern Illinois Elec Coop	Illinois	MAIN	REA-7
Southern Illinois Power Coop	Illinois	MAIN	REA-12
Southern Indiana R E C Inc	Indiana	ECAR	REA-7
Southern Iowa Elec Coop Inc	Iowa	MAPP	REA-7
Southern Maryland El Coop Inc	Maryland	MAAC	REA-7
Southern Pine Elec Coop Inc	Alabama	SERC	REA-7
Southern Pine Elec Power Assn	Mississippi	SERC	REA-7
Southside Electric Coop Inc	Virginia	SERC	REA-7
Southwest Arkansas E C C	Arkansas	SPP	REA-7
Southwest Central R E C Corp	Pennsylvania	MAAC	REA-7
Southwest Electric Cooperative	Missouri	SPP	REA-7
Southwest Louisiana E M C	Louisiana	SPP	REA-7
Southwest Mississippi E P A	Mississippi	SPP	REA-7
Southwest Rural Elec Assn Inc	Oklahoma	SPP	REA-7
Southwest Tennessee E M C	Tennessee	SERC	REA-7
Southwest Texas Elec Coop Inc	Texas	ERCOT	REA-7
Southwestern Electric Coop Inc	Illinois	MAIN	REA-7
Southwestern Electric Coop Inc	New Mexico	SPP	REA-7
Southwestern Minnesota Coop El	Minnesota	MAPP	REA-7
Soyland Power Cooperative Inc	Illinois	MAIN	REA-12
Spink Electric Cooperative Inc	South Dakota	MAPP	REA-7
Spoon River Electric Coop Inc	Illinois	MAIN	REA-7
Springer Electric Coop Inc	New Mexico	WSCC	REA-7
Square Butte Elec Coop Inc	North Dakota	MAPP	REA-12
St Croix County Electric Coop	Wisconsin	MAPP	REA-7
Stamford Electric Coop Inc	Texas	ERCOT	REA-7
Stearns Cooperative Elec Assn	Minnesota	MAPP	REA-7
Steele Waseca Coop Electric	Minnesota	MAPP	REA-7
Steuben County Rural E M C	Indiana	ECAR	REA-7
Steuben Rural Elec Coop Inc	New York	NPCC	REA-7
Sullivan County R E C Inc	Pennsylvania	MAAC	REA-7
Sullivan County Rural E M C	Indiana	ECAR	REA-7
Sulphur Springs Valley E C Inc	Arizona	WSCC	REA-7
Sumner-Cowley Elec Coop Inc	Kansas	SPP	REA-7
Sumter Electric Coop Inc	Florida	SERC	REA-7
Sumter Electric Member Corp	Georgia	SERC	REA-7
Sun River Electric Coop Inc	Montana	WSCC	REA-7
Sunflower Electric Power Corp	Kansas	SPP	REA-12
Surprise Valley Electric Corp	California	WSCC	REA-7
Surry-Yadkin Elec Member Corp	North Carolina	SERC	REA-7
Sussex Rural Electric Coop Inc	New Jersey	MAAC	REA-7
Suwannee Valley Elec Coop Inc	Florida	SERC	REA-7
Swan's Island Elec Coop Inc	Maine	NPCC	REA-7
Swisher Electric Coop Inc	Texas	SPP	REA-7
SE-MA-NO Electric Cooperative	Missouri	SPP	REA-7
T I P Rural Electric Coop	Iowa	MAPP	REA-7
Tallahatchie Valley E P A	Mississippi	SERC	REA-7
Tallapoosa River Elec Coop Inc	Alabama	SERC	REA-7
Talquin Electric Coop Inc	Florida	SERC	REA-7
Tanner Electric Cooperative	Washington	WSCC	REA-7
Taylor County Rural E C C	Kentucky	ECAR	REA-7
Taylor Electric Coop Inc	Texas	ERCOT	REA-7
Taylor Electric Cooperative	Wisconsin	MAPP	REA-7
Teche Electric Coop Inc	Louisiana	SPP	REA-7
Tennessee Valley Electric Coop	Tennessee	SERC	REA-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Tex-La Electric Coop-Texas Inc	Texas	ERCOT	REA-12
Three Rivers Electric Coop	Missouri	SPP	REA-7
Three-Notch Elec Member Corp	Georgia	SERC	REA-7
Thumb Electric Coop-Michigan	Michigan	ECAR	REA-7
Tideland Electric Member Corp	North Carolina	SERC	REA-7
Tipmont Rrl Elec Member Corp	Indiana	ECAR	REA-7
Tishomingo County El Pwr Assn	Mississippi	SERC	REA-7
Tlingit-Haida Region Elec Auth	Alaska	ASCC	REA-7
Todd-Wadena Electric Coop	Minnesota	MAPP	REA-7
Tombigbee Electric Coop Inc	Alabama	SERC	REA-7
Tombigbee Electric Power Assn	Mississippi	SERC	REA-7
Tongue River Electric Coop Inc	Montana	MAPP	REA-7
Top O'Michigan Elec Co	Michigan	ECAR	REA-7
Traverse Electric Coop Inc	Minnesota	MAPP	REA-7
Trempealeau Electric Coop	Wisconsin	MAPP	REA-7
Tri-County Elec Member Corp	Georgia	SERC	REA-7
Tri-County Elec Member Corp	North Carolina	SERC	REA-7
Tri-County Electric Assn Inc	South Dakota	MAPP	REA-7
Tri-County Electric Assn Inc	Wyoming	WSCC	REA-7
Tri-County Electric Coop	Minnesota	MAPP	REA-7
Tri-County Electric Coop	Michigan	ECAR	REA-7
Tri-County Electric Coop Assn	Missouri	SPP	REA-7
Tri-County Electric Coop Inc	South Carolina	SERC	REA-7
Tri-County Electric Coop Inc	Illinois	MAIN	REA-7
Tri-County Electric Coop Inc	Texas	ERCOT	REA-7
Tri-County Electric Coop Inc	Oklahoma	SPP	REA-7
Tri-County Electric Coop Inc	Florida	SERC	REA-7
Tri-County Electric Coop Inc	North Dakota	MAPP	REA-7
Tri-County Rural Elec Coop Inc	Pennsylvania	MAAC	REA-7
Tri-State Electric Member Corp	Georgia	SERC	REA-7
Tri-State G & T Assn Inc	Colorado	WSCC	REA-12
Trico Electric Cooperative Inc	Arizona	WSCC	REA-7
TriCounty Rural Elec Coop Inc	Ohio	ECAR	REA-7
Troup Electric Member Corp	Georgia	SERC	REA-7
Turner-Hutchinson El Coop Inc	South Dakota	MAPP	REA-7
Twin County Electric Pwr Assn	Mississippi	SERC	REA-7
Twin Valley Electric Coop Inc	Kansas	SPP	REA-7
Umatilla Electric Coop Assn	Oregon	WSCC	REA-7
Union County Electric Coop Inc	South Dakota	MAPP	REA-7
Union Electric Membership Corp	North Carolina	SERC	REA-7
Union River Electric Coop Inc	Maine	NPCC	REA-7
Union Rural Electric Coop Inc	Ohio	ECAR	REA-7
United Electric Coop Inc	Kansas	SPP	REA-7
United Electric Coop Inc	Pennsylvania	MAAC	REA-7
United Power Association	Minnesota	MAPP	REA-12
United Power Inc	Colorado	WSCC	REA-7
United Rural Elec Member Corp	Indiana	ECAR	REA-7
United Rural Electric Coop Inc	Ohio	ECAR	REA-7
Upper Cumberland E M C	Tennessee	SERC	REA-7
Upper Missouri G&T El Coop Inc	Montana	MAPP	REA-12
Upshur Rural Elec Coop Corp	Texas	SPP	REA-7
Upson County Elec Member Corp	Georgia	SERC	REA-7
Utilities Dist-Western in REMC	Indiana	ECAR	REA-7
Valley Electric Assn Inc	Nevada	WSCC	REA-7
Valley Electric Coop Inc	Montana	WSCC	REA-7
Valley Electric Member Corp	Louisiana	SPP	REA-7
Valley Rural Electric Coop Inc	Pennsylvania	MAAC	REA-7
Verdigris Valley Elec Coop Inc	Oklahoma	SPP	REA-7
Verendrye Electric Coop Inc	North Dakota	MAPP	REA-7
Vermont Electric Coop Inc	Vermont	NPCC	REA-7
Vermont G & T Cooperative Inc	Vermont	NPCC	REA-12
Vernon Electric Cooperative	Wisconsin	MAPP	REA-7
Victoria County Elec Coop Co	Texas	ERCOT	REA-7
Victory Electric Coop Assn Inc	Kansas	SPP	REA-7
Vigilante Electric Coop Inc	Montana	WSCC	REA-7
Volunteer Electric Cooperative	Tennessee	SERC	REA-7
Wabash County Rural E M C	Indiana	ECAR	REA-7
Wake Electric Membership Corp	North Carolina	SERC	REA-7
Walton Electric Member Corp	Georgia	SERC	REA-7
Warren County Rural E M C	Indiana	ECAR	REA-7
Warren Electric Coop Inc	Pennsylvania	MAAC	REA-7
Warren Rural Elec Coop Corp	Kentucky	SERC	REA-7
Wasco Electric Coop Inc	Oregon	WSCC	REA-7
Washington Elec Member Corp	Georgia	SERC	REA-7
Washington Electric Coop Inc	Ohio	ECAR	REA-7
Washington Electric Coop Inc	Vermont	NPCC	REA-7

See footnotes at end of table.

Table B5. Cooperative Borrowers, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Washington Island El Coop Inc	Wisconsin	MAIN	REA-7
Washington St Tammany E C Inc	Louisiana	SPP	REA-7
Wayne County Rural E M C	Indiana	ECAR	REA-7
Wayne-White Counties Elec Coop	Illinois	MAIN	REA-7
Webster Electric Cooperative	Missouri	SPP	REA-7
Wells Rural Electric Company	Nevada	WSCC	REA-7
West Central Electric Coop Inc	Missouri	SPP	REA-7
West Central Electric Coop Inc	South Dakota	MAPP	REA-7
West Florida El Coop Assn Inc	Florida	SERC	REA-7
West Kentucky Rural E C C	Kentucky	ECAR	REA-7
West Oregon Electric Coop Inc	Oregon	WSCC	REA-7
West Plains Electric Coop Inc	North Dakota	MAPP	REA-7
West River Electric Assn Inc	South Dakota	MAPP	REA-7
Western Coop Elec Assn Inc	Kansas	SPP	REA-7
Western Farmers Elec Coop Inc	Oklahoma	SPP	REA-12
Western Illinois Elec Coop	Illinois	MAIN	REA-7
Western Michigan Electric Coop	Michigan	MAIN	REA-7
Wharton County Elec Coop Inc	Texas	ERCOT	REA-7
Wheatland Electric Coop Inc	Kansas	SPP	REA-7
Wheatland Rural Elec Assn Inc	Wyoming	WSCC	REA-7
Whetstone Valley Elec Coop Inc	South Dakota	MAPP	REA-7
White County Rural E M C	Indiana	ECAR	REA-7
White River Electric Assn Inc	Colorado	WSCC	REA-7
White River Valley El Coop Inc	Missouri	SPP	REA-7
Wild Rice Electric Coop Inc	Minnesota	MAPP	REA-7
Winnebago Rural Elec Coop Assn	Iowa	MAPP	REA-7
Wiregrass Electric Coop Inc	Alabama	SERC	REA-7
Wise Electric Cooperative Inc	Texas	ERCOT	REA-7
Withlacoochee River Elec Coop	Florida	SERC	REA-7
Wolverine Pwr Supply Coop Inc	Michigan	ECAR	REA-12
Wood County Electric Coop Inc	Texas	SPP	REA-7
Woodbury County Rural E C A	Iowa	MAPP	REA-7
Woodruff Electric Coop Corp	Arkansas	SPP	REA-7
Wright County Rural Elec Coop	Iowa	MAPP	REA-7
Wright-Hennepin Coop Elec Assn	Minnesota	MAPP	REA-7
Wyrulec Company	Wyoming	WSCC	REA-7
Y-W Electric Association Inc	Colorado	WSCC	REA-7
Yampa Valley Electric Assn Inc	Colorado	WSCC	REA-7
Yazoo Valley Elec Power Assn	Mississippi	SERC	REA-7
Yellowstone Vly Elec Coop Inc	Montana	WSCC	REA-7
York Electric Cooperative Inc	South Carolina	SERC	REA-7
4-County Electric Power Assn	Mississippi	SERC	REA-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

Note: Penoyer Valley Electric Co filed a FERC Form 1-F, "Annual Report for Nonmajor Public Utilities and Licensees" but had no transactions in 1992.

Sources: •Rural Electrification Administration, REA Form 7, "Financial and Statistical Report," REA 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, 1992

Utility	State ¹	NERC Region ²	Survey Form ³
Investor-Owned			
Atlanta Power Company Inc	Idaho	WSCC	EIA-861
Block Island Power Co	Rhode Island	NPCC	EIA-861
Haines Light & Power Co Inc	Alaska	ASCC	EIA-861
Hawaii Electric Light Co Inc	Hawaii	HI	EIA-861
Morenci Water & Electric Co	Arizona	WSCC	EIA-861
Napaklak Irinaq Power Co	Alaska	ASCC	EIA-861
Panaca Power & Light Co	Utah	WSCC	EIA-861
Cooperative			
Arctic Utilities Inc	Alaska	ASCC	EIA-861
Beauregard Electric Coop Inc	Louisiana	SPP	EIA-861
Boone Valley Electric Coop	Iowa	MAPP	EIA-861
Cass Electric Cooperative	Iowa	MAPP	EIA-861
Clark County Rural E M C	Indiana	ECAR	EIA-861
Culvre River Elec Coop Inc	Missouri	MAIN	EIA-861
Farmers Mutual Power Assn	Nevada	WSCC	EIA-861
Fort Belknap Electric Coop Inc	Texas	ERCOT	EIA-861
Graham County Elec Coop Inc	Arizona	WSCC	EIA-861
Henry County Rural E M C	Indiana	ECAR	EIA-861
Lee County Electric Coop Inc	Florida	SERC	EIA-861
New Enterprise Rural Elec Coop	Pennsylvania	MAAC	EIA-861
Old Dominion Electric Coop	Virginia	SERC	EIA-861
Shelby Electric Cooperative	Illinois	MAIN	EIA-861
Municipal			
Alamo Power District No 3	Nevada	WSCC	EIA-861
Albany City of	Missouri	SPP	EIA-861
Alpha City of	Minnesota	MAPP	EIA-861
Alvarado City of	Minnesota	MAPP	EIA-861
Anadarko Public Works Auth	Oklahoma	SPP	EIA-861
Aplington City of	Iowa	MAPP	EIA-861
Ava City of	Missouri	SPP	EIA-861
Bancroft City of	Iowa	MAPP	EIA-861
Bartley Village of	Nebraska	MAPP	EIA-861
Basin Town of	Wyoming	WSCC	EIA-861
Bethany City of	Missouri	MAIN	EIA-861
Bigelow City of	Minnesota	MAPP	EIA-861
Blwabik Public Utilities	Minnesota	MAPP	EIA-861
Braman Town of	Oklahoma	SPP	EIA-861
Brewster City of	Minnesota	MAPP	EIA-861
Brooklyn City of	Iowa	MAPP	EIA-861
Brundidge City of	Alabama	SERC	EIA-861
Burlington City of	Oklahoma	SPP	EIA-861
Butler City of	Missouri	SPP	EIA-861
Cabool City of	Missouri	MAIN	EIA-861
Caledonia Mun Light&Power Dept	Minnesota	MAPP	EIA-861
Caliente Public Utilities	Nevada	WSCC	EIA-861
Cameron City of	Missouri	MAIN	EIA-861
Cannelton City of	Indiana	ECAR	EIA-861
Cascade Municipal Utilities	Iowa	MAPP	EIA-861
Caylon City of	Minnesota	MAPP	EIA-861
Chillicothe Municipal Utile	Missouri	SPP	EIA-861
Coggon City of	Iowa	MAPP	EIA-861
Colby City of	Kansas	SPP	EIA-861
Conwith City of	Iowa	MAPP	EIA-861
Crane City of	Missouri	MAIN	EIA-861
Cuba City of	Missouri	MAIN	EIA-861
Darwin Village of	Minnesota	MAPP	EIA-861
Dayton City of	Iowa	MAPP	EIA-861
Decatur Village of	Nebraska	MAPP	EIA-861
Dighton City of	Kansas	SPP	EIA-861
Dunel Village of	Minnesota	MAPP	EIA-861
Durant City of	Iowa	MAPP	EIA-861
Eagle Village Energy Systems	Alaska	ASCC	EIA-861
Earlville City of	Iowa	MAPP	EIA-861
Easton City of	Missouri	SPP	EIA-861
Eitzen City of	Minnesota	MAPP	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 Municipal Electric	Iowa	MAPP	EIA-861
Emerson City of	Nebraska	MAPP	EIA-861
Endicott Village of	Nebraska	MAPP	EIA-861
Enterprise City of	Utah	WSCC	EIA-861
Ephraim City of	Utah	WSCC	EIA-861

See footnotes at end of table.

Table B6. Electric Utilities Not Reported Elsewhere in Surveys Reporting Detailed Transactions, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Fairfield City of	Illinois	MAIN	EIA-861
Fairview City Corporation	Utah	WSCC	EIA-861
Farmhamville City of	Iowa	MAPP	EIA-861
Fayette City of	Missouri	MAIN	EIA-861
Fort Supply Electric Dept	Oklahoma	SPP	EIA-861
Fountain City of	North Carolina	SERC	EIA-861
Gallatin City of	Missouri	MAIN	EIA-861
Garrison Electric Department	Texas	ERCOT	EIA-861
Gowrie Municipal Utilities	Iowa	MAPP	EIA-861
Granada Town of	Colorado	WSCC	EIA-861
Granbury City of	Texas	ERCOT	EIA-861
Greenfield Municipal Utilities	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
Hearne City of	Texas	ERCOT	EIA-861
Heber Light & Power Company	Utah	WSCC	EIA-861
Hemphill City of	Texas	SPP	EIA-861
Herndon City of	Kansas	SPP	EIA-861
Hill City City of	Kansas	SPP	EIA-861
Holden Town of	Utah	WSCC	EIA-861
Houston City of	Missouri	SPP	EIA-861
Hunnewell City of	Missouri	SPP	EIA-861
Hurricane Power Committee	Utah	WSCC	EIA-861
Hyrum City Corporation	Utah	WSCC	EIA-861
Indianola Mun Wtr & Elec Util	Iowa	MAPP	EIA-861
Iuka City of	Kansas	SPP	EIA-861
Jetmore City of	Kansas	SPP	EIA-861
Johnson City of	Kansas	SPP	EIA-861
Kanosh Town of	Utah	WSCC	EIA-861
Kaysville City Corp Elec Dept	Utah	WSCC	EIA-861
Keosauqua City of	Iowa	MAPP	EIA-861
Kiowa City of	Kansas	SPP	EIA-861
Kokhanok Village Council	Alaska	ASCC	EIA-861
La Crosse City of	Kansas	SPP	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 Municipal Utilities	Iowa	MAPP	EIA-861
Larchwood City of	Iowa	MAPP	EIA-861
Lehi City City of	Utah	WSCC	EIA-861
Lehigh City of	Iowa	MAPP	EIA-861
Lindsay Public Works Authority	Oklahoma	SPP	EIA-861
Mabel City of	Minnesota	MAPP	EIA-861
Macon City of	Missouri	MAIN	EIA-861
Mansfield City of	Missouri	MAIN	EIA-861
McLeansboro City of	Illinois	MAIN	EIA-861
Meade City of	Kansas	SPP	EIA-861
Meadow Town Corporation	Utah	WSCC	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
Monroe City City of	Missouri	SPP	EIA-861
Monroe City City of	Utah	WSCC	EIA-861
Morreland City of	Oklahoma	SPP	EIA-861
Mountain View City of	Missouri	SPP	EIA-861
Mt Pleasant City of	Utah	WSCC	EIA-861
Nashwauk Public Utilities Dept	Minnesota	MAPP	EIA-861
New Hampton Mun Light Plant	Iowa	MAPP	EIA-861
Newburg City of	Missouri	MAIN	EIA-861
Northwest Rural Pub Pwr Dist	Nebraska	MAPP	EIA-861
Norton City of	Kansas	SPP	EIA-861
Oak City Town of	North Carolina	SERC	EIA-861
Oak City Town of	Utah	WSCC	EIA-861
Oakley City of	Kansas	SPP	EIA-861
Onida City of	South Dakota	MAPP	EIA-861
Opp Utilities Board	Alabama	SERC	EIA-861
Osceola City of	Missouri	SPP	EIA-861
Ouzinkie City of	Alaska	ASCC	EIA-861
Palmyra City of	Missouri	MAIN	EIA-861
Panama Village of	Nebraska	MAPP	EIA-861
Paragonah Town of	Utah	WSCC	EIA-861
Paris City of	Missouri	SPP	EIA-861

See footnotes at end of table.

Table B6. Electric Utilities Not Reported Elsewhere in Surveys Reporting Detailed Transactions, 1992 (Continued)

Utility	State ¹	NERC Region ²	Survey Form ³
Parowan City Corporation	Utah	WSCC	EIA-861
Paton Electrical Department	Iowa	MAPP	EIA-861
Pattonsburg City of	Missouri	MAIN	EIA-861
Payson City Corporation	Utah	WSCC	EIA-861
Peterson Electric System	Minnesota	MAPP	EIA-861
Ploche Public Utilities	Nevada	WSCC	EIA-861
Plains City of	Texas	SPP	EIA-861
Proctor Public Utilities Comm	Minnesota	MAPP	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
Roosevelt Public Power Dist	Nebraska	MAPP	EIA-861
Round Lake City of	Minnesota	MAPP	EIA-861
Rushmore City of	Minnesota	MAPP	EIA-861
Salem City of	Missouri	SPP	EIA-861
San Augustine City of	Texas	SPP	EIA-861
Sanger City of	Texas	ERCOT	EIA-861
Seward City of	Kansas	SPP	EIA-861
Seymour City of	Missouri	SPP	EIA-861
Seymour City of	Texas	ERCOT	EIA-861
Shelbina City of	Missouri	SPP	EIA-861
Spring City Corporation	Utah	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 Elect Distribution Sys	Iowa	MAPP	EIA-861
Steelville Municipal Utilities	Missouri	MAIN	EIA-861
Stratford City of	Iowa	MAPP	EIA-861
Stromsburg Electric Department	Nebraska	MAPP	EIA-861
Sullivan Municipal Utilities	Missouri	MAIN	EIA-861
Sumner Municipal Light Plant	Iowa	MAPP	EIA-861
Talmage Village of	Nebraska	MAPP	EIA-861
Tennant City of	Iowa	MAPP	EIA-861
Timpson City of	Texas	ERCOT	EIA-861
Troy Municipal Electric Util	Indiana	ECAR	EIA-861
Unionville City of	Missouri	SPP	EIA-861
Vandalia City of	Missouri	MAIN	EIA-861
Waynesville City of	Missouri	SPP	EIA-861
Webster City City of	Iowa	MAPP	EIA-861
West Bend City of	Iowa	MAPP	EIA-861
Westfield Town of	Iowa	MAPP	EIA-861
Whalan City of	Minnesota	MAPP	EIA-861
Willow Springs City of	Missouri	SPP	EIA-861
Wilton City of	Iowa	MAPP	EIA-861
Winona City of	Missouri	SPP	EIA-861
Winterset City of	Iowa	MAPP	EIA-861
Woodsfield Board of Public Aff	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 Authorized by FERC, as of December 31, 1993

Name	State	FERC Reference	Authorization Reference	Date Authorized
Citizens Energy Corp.	Massachusetts	EL86-2-000	35 #61,188	5/19/86
Howell Gas Management Co.	Texas	EL87-50-000	40 #61,336	9/28/87
Citizens Power & Light Corp.	Massachusetts	ER89-401-000	48 #61,210	8/08/89
Torco Energy Marketing, Inc.	District of Columbia	EL89-32-000	48 #61,294	9/07/89
National Electric Assoc. Inc.	Texas	ER90-168-000	50 #61,378	3/20/90
Chicago Energy Exchange of Chicago, Inc.	Illinois	ER90-225-000	51 #61,054	4/19/90
		ER90-17-000		
DC Tie, Inc.	District of Columbia	ER91-435-000	FERC Letter	7/11/91
Louis Dreyfus Electric Power Inc.	District of Columbia	ER92-850-000	61 #61,303	12/02/92
Milford Power LP	Massachusetts	ER93-493-000	FERC Letter	9/17/93
MG Electric Power, Inc.	New York	ER93-839-000	FERC Letter	10/19/93
Enron Power Marketing, Inc.	Massachusetts	ER94-24-000	65 #61,305	12/02/93

Note: The Federal Energy Regulatory Commission has jurisdictional responsibility when an energy marketer takes ownership of electricity. If ownership is not passed to the party brokering or coordinating the transaction, then the FERC does not consider the broker involved in interstate trade.
Source: Federal Energy Regulatory Commission.

Appendix C

Fundamentals of Electric Power Transmission and Integrating Nonutility Generators

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.¹¹ Electricity distributes itself along paths of least resistance that are determined by a complex electrical relationship involving the relative 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 transmis-

sion 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 the system, (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, 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

¹¹The 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.

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 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 are presenting a new 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. It also has raised issues for electrical system operations and transmission line usage.

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.¹²

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. Unanswered questions remain, however, regarding the degree to which increasing NUG capacity can be accommodated in transmission system operations and if the reliability of the electrical supply system will be compromised.

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.

¹²North 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

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 Electrification Administration (REA) 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"
- REA Form 7, "Financial and Statistical Reports - Electric Distribution Borrowers"
- REA Form 12a through 12i, "Electric Power Supply Borrowers," and REA 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 1992 data collected on these forms are also published by EIA and REA in the following reports: *Financial Statistics of Selected Investor-Owned Electric Utilities 1992* (DOE/EIA-0437)/1, *Financial Statistics of Selected Publicly Owned Electric Utilities 1992* (DOE/EIA-0437)/2, and *Annual Report of Energy Purchased by REA 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, 1992, new criteria were used to select the 492 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 Data Systems Branch, Survey Management 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 3,232 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 1992*, the *Financial Statistics of Selected Investor-Owned Electric Utilities 1992*, and the *Financial Statistics of Selected Publicly Owned Electric Utilities 1992*. 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, 1987). 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 uni-

verse 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 1992, jurisdictional filings of the FERC Form 1 and 1-F totaled 224; though not all can be considered traditional electric utilities. See Table B1 (Appendix B) for those that qualified in 1992.

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.¹³ 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 492 publicly owned electric utilities that filed the EIA-412 in 1992 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 1992* and *Financial Statistics of Selected Publicly Owned Electric Utilities 1992*. 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 municipalities, 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 Electrification Administration Cooperative Borrowers

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 Electrification Administration (REA). These data are

¹³The 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.

based on financial and statistical information submitted to the REA in 1992.

The operating data collected by the REA furnish information needed for checking the security of government loans, the preparation of estimates used in forecasting expenses for future loans, and allow the REA to fulfill its reporting obligations. The reports prepared by the cooperative borrowers must accurately 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, REA Form 7, and REA 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 REA; 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 REA 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 REA does not process the sales for resale data reported on the REA Forms 7 and 12. As such, crosschecking 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 1992, while the REA did not collect statistical classification data for either.

The purchased power schedules on Form EIA-412 and REA 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 REA 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 years. 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 deliv-

ered 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.¹⁴

For this publication, the new FERC classifications were used to define differently 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)
 - 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, 1992 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 Electrification Administration (REA) Forms REA-7 and REA-12. Imputations for missing type-of-trade data are performed according to the following procedures:

- Sales for Resale. If the purchasing utility reported no net generation on the Form EIA-861, "Annual Electric Utility Report," for the reporting year 1990, then the trade is classified as firm. Otherwise the trade is classified as economy.

- Purchased Power. If the respondent utility (the purchasing utility) reported no net generation on the 1990 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.

¹⁴FERC 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(90). This information cannot be linked to the individual transactions.

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 REA Forms 7 and 12 in accordance with the REA 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 co-

ordinate 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 Classifica-

tion 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 Electrification 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 coopera-

tives, 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. Subunits

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 takes 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 rea-

sons 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 lending agency in the U.S. Department of Agriculture, REA makes self-liquidation loans to qualified borrowers to finance electric and telephone service to rural areas. REA 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.

Terawatthour (TWh): One trillion (10^{12}) watthours 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 interregional 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.

Watthour (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, municipals, 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.

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10/20/94

END